Notes Ck'd by	Survey of	F. B. 1508 Pg. 5
Map No.	W. O. Tape No. Sht. of	
Office Work	Surveyed by	
Checked	Notes Date	
Date	Indexed A. C. Johnson 7-28-54	

Book to

BEACH EROSION STUDIES

~SOUNDINGS~

J.N. 8412

DECEMBER 1953 ~ JANUARY 1954

From station 673+64.50 N to station 715+00 N
also
Malibu La Costa 0+00 to 40+00

For onshore shots see
L.A. CITY F.B.

23929 pages 56 to 58

23927 pages 2 to 23

Blanchard
Uharriet
Krammer
Goodwin
Oben
Robbins
Santucci

Microfilmed Sept '87

Book 9 = FB 1507

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F. B. 1508 PG. 2

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

F. B. 1508 Pg. 7

TIDE GAGE

STANDARD TIME

DEC 18 1953

HOUR	TIDE
6 00	6.8
6 30	7.1
7 00	7.2
7 30	6.8
8 00	6.5
8 30	5.9
9 00	5.4
9 30	4.5
10 00	3.7
10 30	2.8
11 00	2.1
11 30	1.4
12 00	0.9
12 30	0.1
1 00	-0.3

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726 LOS ANGELES COUNTY
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76F2098 247 4-53

F. B. 1508 PG. 8

TIDE GAGE

STANDARD TIME — DEC 27 1953

HOUR	TIDE
6 00	50
6 30	55
7 00	60
7 30	64
8 00	68
8 30	71
9 00	72
9 30	70
10 00	67
10 30	62
11 00	57
11 30	49
12 00	
12 30	

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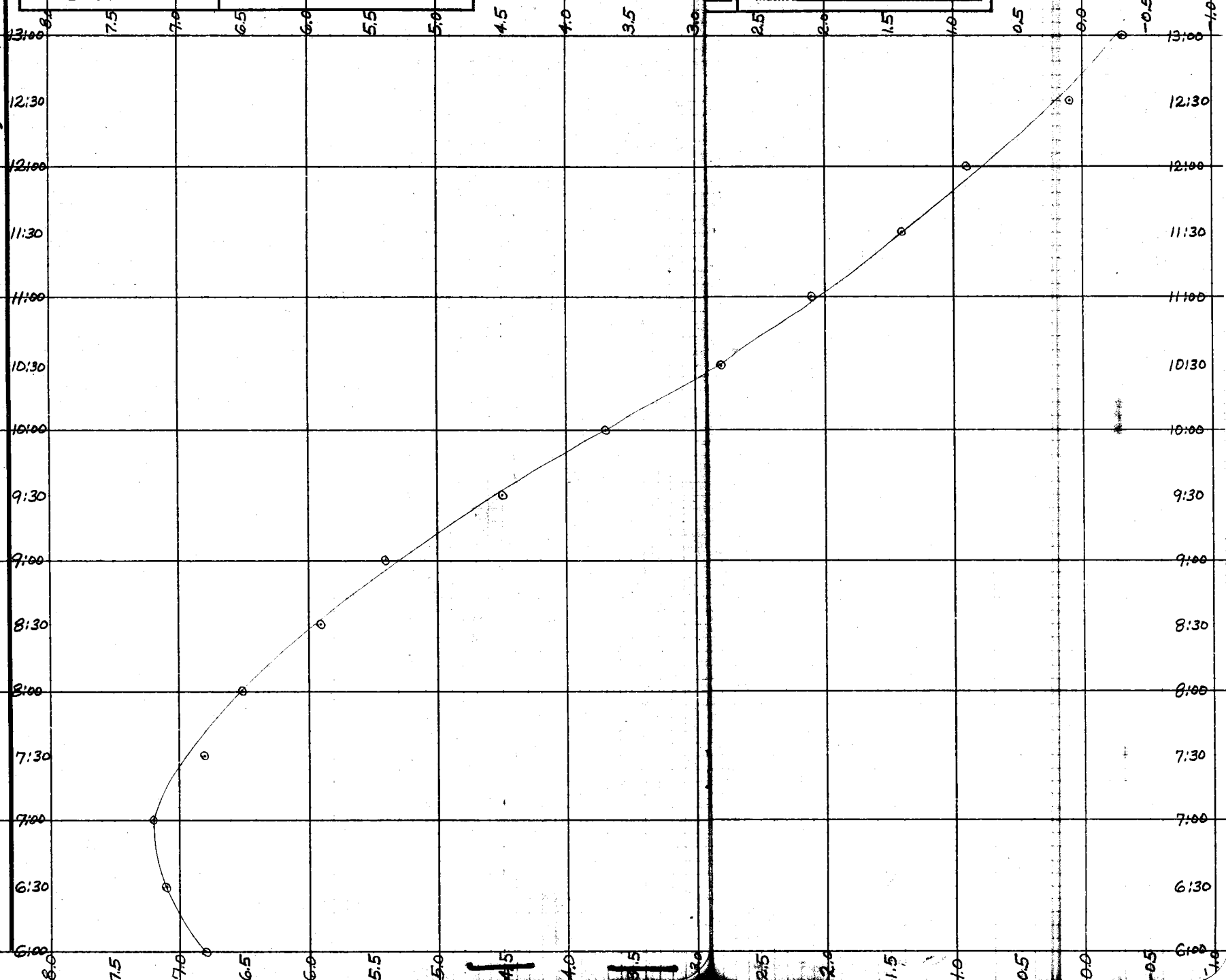
Office Work
Checked
Date

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

F. B. 1508 Pg.

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

F. B. 1508 Pg.



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December 18, 1953

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78F3095 247 4-53

76F3095 247 4-53

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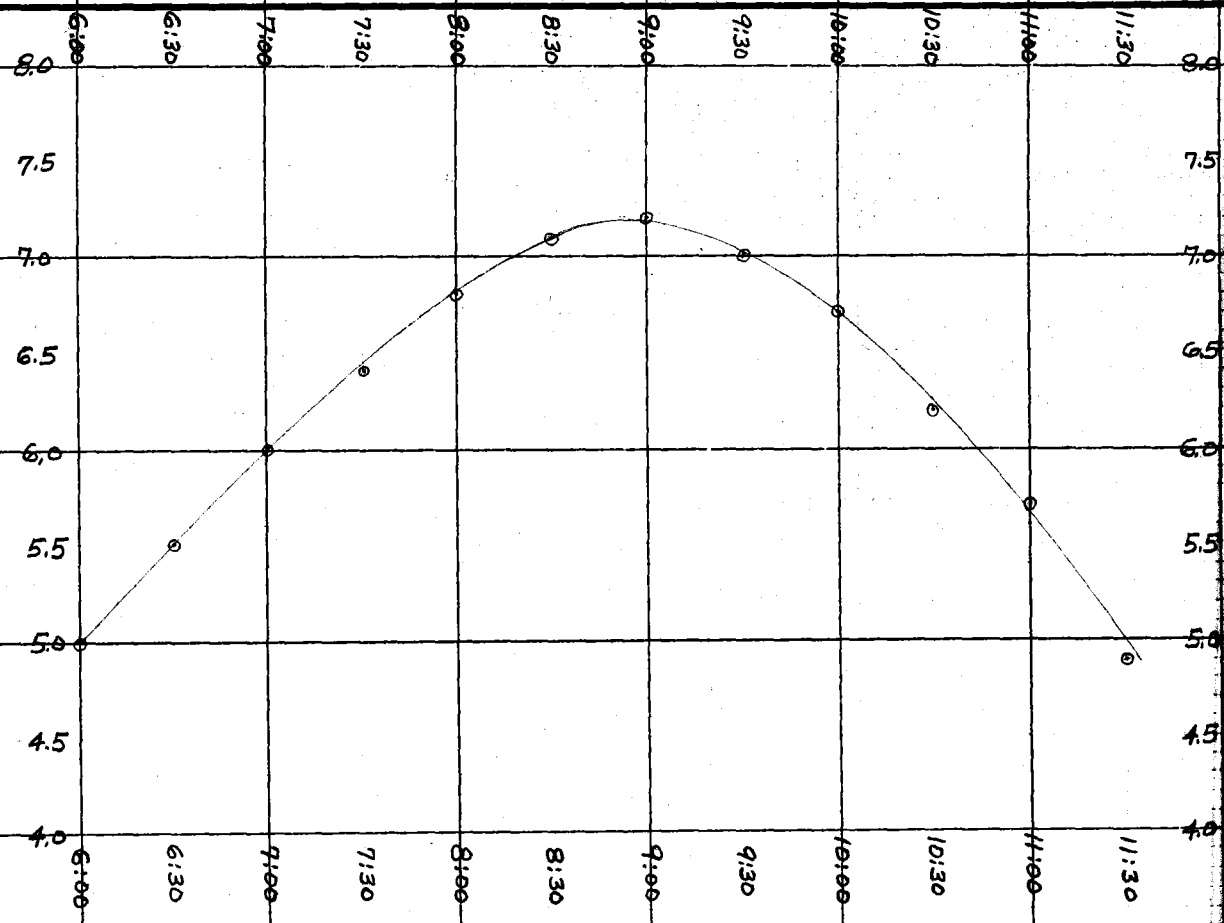
December 21, 1953



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

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

F. B. 1508 PG.

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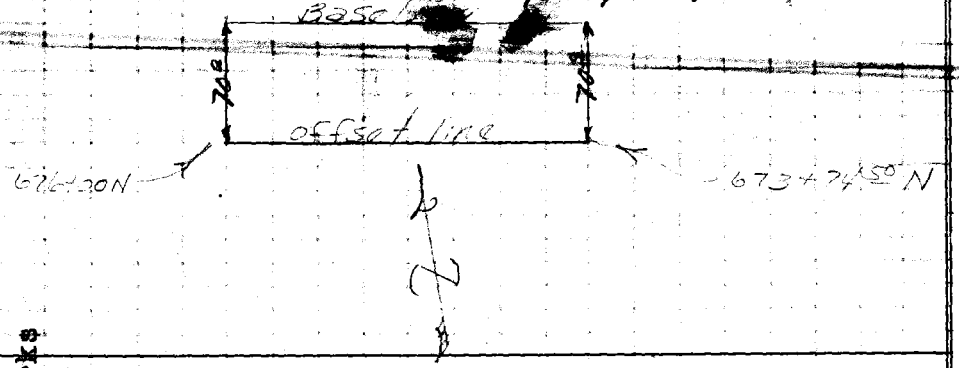
F. B. _____ PG. _____

Profile	Notes Red.	Plotted	Job No. 8412	Division No.	F. B. 1508 Pg. 9
No.	Date	Date	Survey of BEACH EROSION STUDIES		
Sec.	Notes	Checked	Survey by F. H. [illegible]	Notes J.C.G.	Date 12-18-53
	Date	Date	Map No.	Indexed Johnson	Date 1-29-54

Range 673+64.50 N



STATION	B.S.	H.I.	F.S.	ELEV.	Range 673+64.50 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
676+00 N	1	B&W	11:11	90°00'	
	2	R		90°00'	
	3	Y		90°00'	
	4	B&W	11:14	90°00'	
	5	R		90°10'	
	6	Y		90°00'	
	7	B&W	11:17	90°10'	
	8	R		90°00'	
	9	Y		90°00'	
	10	B&W	11:19	90°00'	
	11	R		90°00'	
	12	Y		90°00'	
	13	B&W	11:21	90°00'	
	14	R		90°00'	
	15	Y		90°00'	
	16	B&W	11:23	89°39'	
	17	R		90°00'	
	18	Y		90°00'	
	19	B&W	11:25	90°00'	

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76L298 307 8-53

F. B. Pg. 10 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by F. H. BLANCHARD Notes J.C.G. Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

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

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76L298 307 8-53

76L298 307 10-51

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Profile No. ____ Notes Red ____ Plotted ____ Job No. 84/12 Division No. ____ F.B. 1508 Pg. 11

X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES

Notes Chkd ____ Checked ____ Survey by F. H. BLANCHARD DKS Date 12-18-53

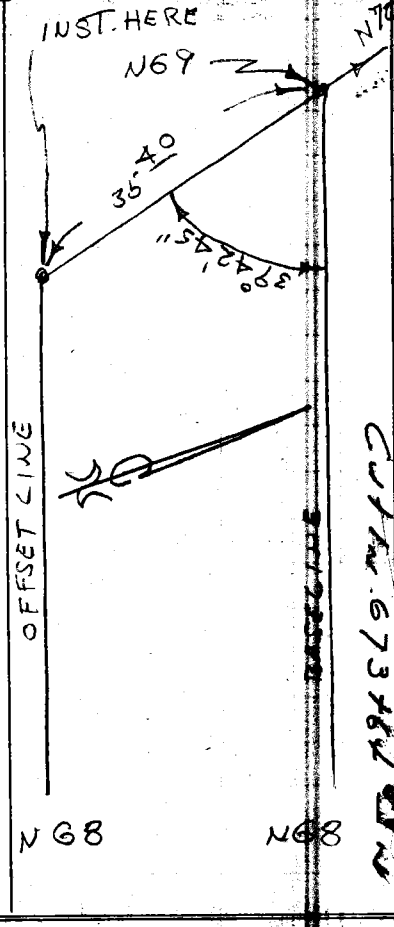
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

Cut-in 673+64.50N

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1	B+W	11:12	67° 53'	
	2	R		65° 31'	
	3	Y		62° 18'	
	4	B+W	11:14	58° 49'	
	*5	R		55° 47'	
	6	Y		52° 16'	
	*7	B+W	11:16	49° 32'	
	8	R		46° 25'	
	9	Y		42° 48'	
	10	B+W	11:18	39° 23'	
	11	R		36° 00'	
	12	Y		33° 42'	
	13	B+W	11:20	31° 17'	
	14	R		28° 28'	
	15	Y		26° 57'	
	*16	B+W	11:23	24° 51'	
	17	R		22° 04'	
	18	Y		19° 25'	
	19	B+W	11:25	17° 39'	

N69 OFFSET

N68 OFFSET



Cut-in 673+64.50N

F.B. Pg. 12 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

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

Indexed A. C. JOHNSON Date Date Date No.

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

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	Boat	673+64.50

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
			29.8				
1	Bvr	11:12	28.0	28.4	1.8	26.6	2431
			28.2				
2	R		27.6	27.9	1.7	26.2	2225
			28.8				
3	Y		27.0	27.6	1.7	25.9	1995
			27.0				
4	Bvr	11:15	25.8	26.2	1.7	24.5	1778
			26.0				
5	R		24.9	25.3	1.7	23.6	1607
			25.2				
6	Y		23.0	23.7	1.7	22.0	1441
			24.0				
7	Bvr	11:17	22.5	23.0	1.7	21.3	1319
			22.3				
8	R		21.0	21.4	1.6	19.8	1198
			20.8				
9	Y		19.8	20.1	1.6	18.5	1067
			18.0				
10	Bvr	11:19	17.0	17.3	1.6	15.7	953
			16.3				
11	R		15.1	15.5	1.6	13.9	847
			14.1				
12	Y		13.6	14.1	1.6	12.5	782
			14.0				
13	Bvr	11:21	12.9	13.3	1.6	11.7	709
			13.0				
14	R		12.0	12.3	1.6	10.7	633 Rocky Bottom
			13.8				
15	Y		10.8	11.6	1.5	10.1	591
			11.0				
16	Bvr	11:24	10.0	10.3	1.5	8.8	538
			9.0				
17	R		8.2	8.5	1.5	7.0	462
			7.6				
[illegible]	Y		7.0	7.2	1.5	5.7	397
			6.2				
19	Bvr	11:26	5.0	5.4	1.5	3.9	355
20	R						

Boat 673+64.50

Profile
Notes Red CEM Plotted
Date 3/2/54 Date
Notes Chkd Checked
Date Date
Map No. Indexed Date
No. Date
X-Sec. Date
No. Date
Job No. 8412 Division No.
Survey of Bay
Surveyed by BLANCHARD Notes by
Date 12-1-1953
F.B. 1598 Pg. 13

76L298 307 10-51

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	676+00N
#	Color	Time	Meas. Depth	Bottom Tide		Adj. Depth	Remarks
1	BxW	11:38	29.0				
			28.0				
2	R		27.8				
			26.9				
3	Y		28.0				
			26.8				
4	BxW	11:40	26.7				
			26.0				
5	R		26.6				
			24.0				
6	Y		25.0				
			24.1				
7	BxW	11:43	24.8				
			23.0				
8	R		23.0				
			22.0				
9	Y		22.1				
			20.4				
10	BxW	11:45	21.7				
			20.3				
11	R		21.0				
			19.0				
12	Y		18.9				
			18.0				
13	BxW	11:47	16.7				
			16.0				
14	R		15.0				
			15.0				
15	Y		15.4				
			13.8				
16	BxW	11:49	13.1				
			12.0				
17	R		12.3				
			11.0				
18	Y		10.3				
			9.8				
19	BxW	11:52	11.1				
			8.1				
20	R		9.1				
			8.0				

Copied

F.B. 1507 Pg. 14 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH & ROSSOW STUDY Date Date X-Sec.
Survey by H. BLANCHARD Notes AS Checked
Indexed C. Johnson Date Date No.

76L298 307 8-53

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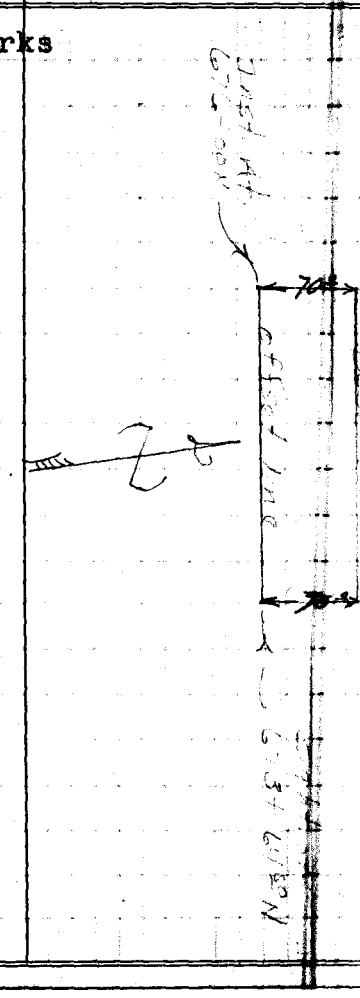
Range 676+00 N

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
676+00 N	673+64.50 N	1	B&W	11:37	90° 18'	
		2	R		90° 00'	
		3	Y		90° 00'	
		4	B&W	11:40	90° 00'	
		5	R		90° 00'	
		6	Y		90° 00'	
		7	B&W	11:42	90° 00'	
		8	R		90° 00'	
		9	Y		90° 00'	
		10	B&W	11:44	90° 00'	
		11	R		90° 00'	
		12	Y		90° 00'	
		13	B&W	11:46	90° 00'	
		14	R		90° 00'	
		15	Y		89° 56'	
		16	B&W	11:48	90° 00'	
		17	R		90° 00'	
		18	Y		90° 00'	
		19	B&W	11:52	90° 00'	
		20	R		89° 31'	



Profile Notes Red. ____ Plotted ____ Job No. 8442 Division No. ____ F. B. 150 Pg. 15
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by H. BLANCHARD Notes J.C.G. Date 12-18-53
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F. B. 1008 Pg. 16 | Job No. 842 | Division No. | Notes Red. | Plotted | Profile

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

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

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

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight Ft. On # Color Time Hor. Ang. Remarks
676+00N					
673+64.50 N					
					Range
					676+00N

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76L293 307 8-53

76L298 307 10-51

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Profile No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1508 Pg. 35

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

Survey by F. H. BLANCHARD DHS Date 12-18-53

Map No. ____ Indexed ____ Date ____

Cut-in 685+00N

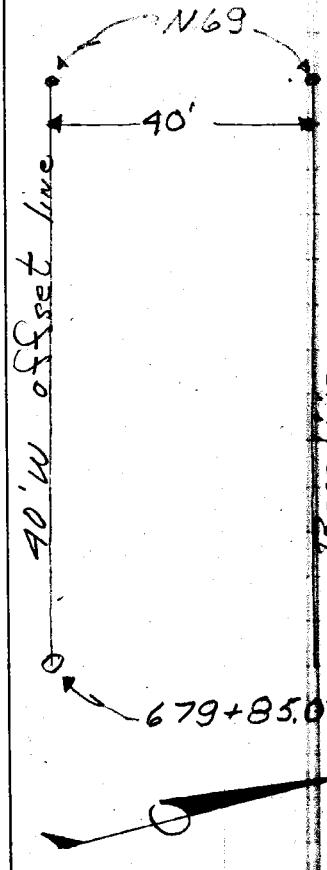
STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1	B+W	8:24	75°51'	
	2	R		74°50'	
	3	Y		73°30'	
	4	B+W	8:27	72°01'	
	5	R		70°20'	
	6	Y		68°51'	
	7	B+W	8:30	67°05'	
	8	R		64°43'	
	9	Y		62°52'	
	10	B+W	8:32	61°20'	
	11	R		58°30'	
	12	Y		55°36'	
	13	B+W	8:34	53°20'	
	14	R		50°38'	
	15	Y		49°04'	
	16	B+W	8:36	45°29'	
	17	R		42°03'	
	18	Y		38°42'	
	19	B+W	8:39	34°42'	
	20	R		31°00'	

40'W offset

40'W offset

679+85.07

N69



Cut-in 685+00N

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in 685+00N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
	21	Y		[illegible]	
	22	B+W	8:42	27°45'	
	23	R		24°29'	
	24	Y		21°30'	
	25	B+W	8:44	18°54'	
	26	R		15°29'	
	27	Y		11°26'	

CUT-IN 685+00N

F.B. Pg. 36 Job No. 841 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by E. [illegible] Notes Chkd. Checked
Indexed E. C. Johnson Date Date Date No.

76L298 307 8-53

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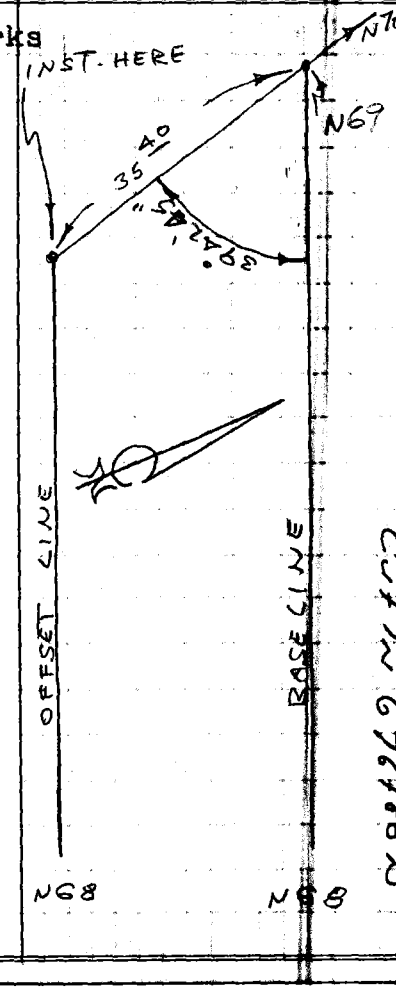
STATION		B. S.	H. I.	F. S.	ELEV.	Cut-in	676+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		* 1	B+W	11:37	71°08		
		2	R		68°45		
		3	Y		67°07		
		4	B+W	11:40	64°17		
		5	R		61°27		
		6	Y		59°33		
		7	B+W	11:42	56°54		
		8	R		54°08		
		9	Y		50°37		
N69 OFFSET	N68 OFFSET	10	B+W	11:44	48°01		
		11	R		44°50		
		12	Y		42°00		
		13	B+W	11:46	38°56		
		14	R		36°45		
		* 15	Y		34°39		
		16	B+W	11:48	31°57		
		17	R		30°49		
		18	Y		29°15		
		19	B+W	11:52	27°02		
		* 20	R		24°57		



Cut in 676+00N

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by H. H. [illegible] Notes DKS Date 12-18-53
No. ____ Date ____ Date ____ Map No. ____ Indexed G. Johnson Date ____

F. B. [illegible] Pg. 17

F. B. Pg. 18 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

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

Indexed A. C. Johnson Date Date Date No.

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

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761-298 307 8-53

76L298 307 10-51

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	676+00N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	BxW	11:38	29.0 28.0	28.3	1.2	27.1	2252
2	R		27.8 26.9	27.2	1.2	26.0	2081
3	Y		28.0 26.8	27.2	1.2	26.0	1962
4	BxW	11:40	26.7 26.0	26.2	1.2	25.0	1777
5	R		26.6 24.0	24.9	1.2	23.7	1618
6	Y		25.0 24.1	24.4	1.1	23.3	1519
7	BxW	11:43	24.8 23.0	23.6	1.1	22.5	1400
8	R		23.0 22.0	22.3	1.1	21.2	1280
9	Y		22.1 20.9	21.3	1.1	20.2	1151
10	BxW	11:45	21.0 20.3	20.5	1.1	19.4	1062
11	R		21.0 19.0	19.7	1.1	18.6	963
12	Y		18.9 18.0	18.3	1.1	17.2	880
13	BxW	11:47	16.7 16.0	16.2	1.0	15.2	799
14	R		15.0 14.0	14.3	1.0	13.3	740 Rocky Bottom
15	Y		15.4 13.8	14.3	1.0	13.3	687
16	BxW	11:49	13.1 12.0	12.4	1.0	11.4	637
17	R		12.3 11.0	11.4	1.0	10.4	598
18	Y		10.3 9.8	10.0	1.0	9.0	562
19	BxW	11:52	11.1 8.1	9.1	0.9	8.2	513
[illegible]	[illegible]		9.1 8.0	8.4	0.9	7.5	467 35

Boat 676+00N

Profile No. ____ Notes Red CEM Plotted ____ Job No. [illegible] Division No. ____ F.B. [illegible] Pg. 19

X-Sec. No. ____ Date 3/2/54 Date ____ Survey of [illegible] Study

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

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

76L298 307 10-51

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	673+00N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	Brw	11:12	29.3 28.0				
2	R		28.7 27.5				
3	Y		28.0 27.0				
4	Brw	11:15	27.0 25.8				
5	R		26.0 24.9				
6	Y		25.2 23.0				
7	Brw	11:17	24.0 22.5				
8	R		22.3 21.0				
9	Y		20.8 19.8				
10	Brw	11:19	18.0 17.0				Rocky Bottom
11	R		16.3 15.1				
12	Y		15.1 13.6				
13	Brw	11:21	14.0 12.0				
14	R		13.0 12.0				
15	Y		13.8 10.8				
16	Brw	11:24	11.0 10.0				
17	R		9.0 8.2				
18	Y		7.6 7.0				
19	Brw	11:26	6.2 5.0				
20	R						

Copied

F.B. 1507 Pg. 26 Job No. [illegible] Division No. [illegible] Notes Red. Plotted No. Profile
Survey of Beach Erosion Survey Date Date X-Sec.
Survey by Notes B.S. Notes Chkd. Checked No.
Indexed H. C. Johnson Date Date

76L298 307 10-51

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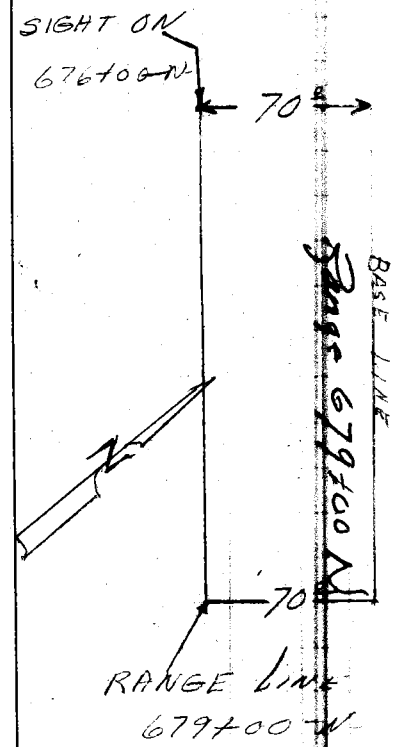
Range 679+00

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
679+00-N	676+00-N	1	B&W	12:11	90°00	
		2	R		90°00	
		3	Y		90°00	
		4	B&W	12:13	90°00'	
		5	R		90°00'	
		6	Y		90°00'	
		7	B&W	12:16	90°00'	
		8	R		90°00'	
		9	Y		90°00'	
		10	B&W	12:18	90°00'	
		11	R		90°00'	
		12	Y		90°00'	
		13	B&W	12:20	90°00'	
		14	R		90°00'	
		15	Y		90°00'	
		16	B&W	12:22	90°00'	
		17	R		90°00'	
		18	Y		90°00'	
		19	B&W			
		20	R			



Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1508 Pg. 21

X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES

Notes Chkd. ____ Checked ____ Survey by F. H. BLANCHARD ER Date 12-18-53

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

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

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

Survey by [illegible] Notes E.R. 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

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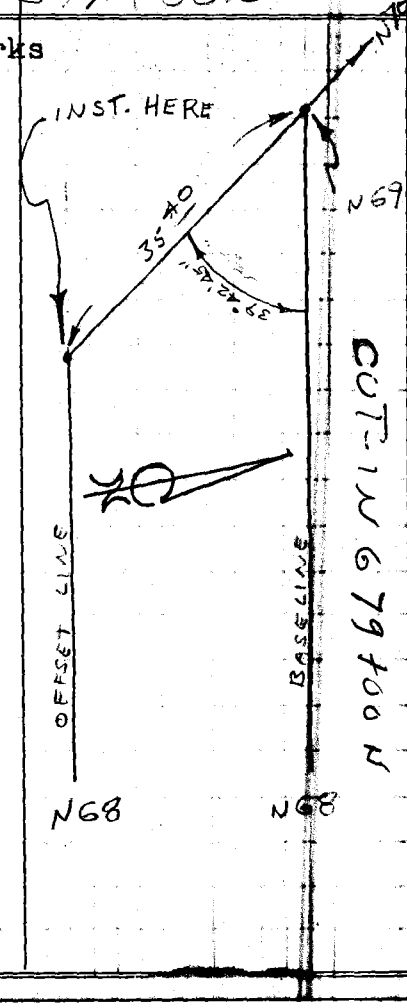
STATION	B. S.	H. I.	F. S.	ELEV.	CUT-IN 679+00N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
	1	B&W	12:10	74°14	
	2	R		72°13	
	3	Y		70°35	
	4	B&W	12:12	68°49	
	5	R		66°36	
	6	Y		63°57	
	7	B&W	12:15	61°16	
	8	R		57°57	
	9	Y		54°22	
	10	B&W	12:17	50°48	
	11	R		46°40	
	12	Y		42°04	
	13	B&W	12:19	39°40	
	14	R		37°34	
	15	Y		34°39	
	16	B&W	12:22	30°59	
	17	R		27°08	
	18	Y		24°32	

N89 OFFSET

N68 OFFSET



Profile Notes Red. Plotted Job No. 8412 Division No. F. B. Pg. 23
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by F. H. BLANCHARD J.M.O. Date 12-18-55
No. Date Date Map No. Indexed Johnson Date

F. B. Pg. 24

Job No. 8417 Division No. Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by F. H. BLANCHARD Notes Notes Chkd. Checked X-Sec.

Indexed E. C. Johnson Date Date Date No.

76L298 307 8-53

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

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	Boat	679+00N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	B.W.	12:11	283 277	27.9	0.6	27.3	1980
2	R		274 264	26.7	0.5	26.2	1824
3	Y		263 255	25.8	0.5	25.3	1714
4	B.W.	12:13	269 249	25.6	0.5	25.1	1607
5	R		257 240	24.6	0.5	24.1	1484
6	Y		247 235	23.9	0.5	23.4	1360
7	B.W.	12:15	234 223	22.7	0.5	22.2	1240
8	R		225 207	21.3	0.5	20.8	1120
9	Y		206 189	19.5	0.5	19.0	1005
10	B.W.	12:17	191 183	18.6	0.5	18.1	902
11	R		174 169	17.1	0.4	16.7	801
12	Y		152 147	14.9	0.4	14.5	698
13	B.W.	12:20	136 129	13.0	0.4	12.6	648
14	R		132 125	12.7	0.4	12.3	608
15	Y		125 112	11.6	0.4	11.2	552
16	B.W.	12:22	99 93	9.5	0.3	9.2	487
17	R		84 78	8.0	0.3	7.7	421
18	Y		74 61	6.5	0.3	6.2	379
19	B.W.	12:					
20	R						

Rocky Bottom

Boat 679+00N

Profile No. ____ Date 3/3/54 Notes Red CEM Plotted ____ Date ____ Job No. ____ Division No. ____ Survey of BEACH EROSION STUDY

X-Sec. No. ____ Date ____ Notes Chkd ____ Date ____ Checked ____ Date ____ Survey by BLANCHARD Notes RS Date 12-1-54

Map No. ____ Date ____ Indexed Johnson Date ____

F. B. ____ Pg. 25

F. B. Pg. 26 Job No. 24[illegible] Division No. _____ Notes Red. _____ Plotted _____ Profile No. _____

Survey of BEACH EROSION STUDY Date _____ Date _____ X-Sec.

Survey by BLANCHARD Notes _____ Notes Chkd. _____ Checked _____

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

761298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.		
# Color Time		Meas. Depth	[illegible]	m Tide	Adj. Depth	Remarks

76L298 307 8-53

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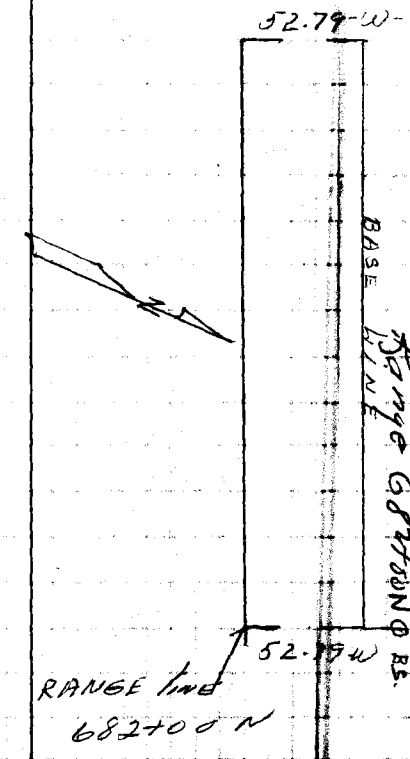
3 Lines

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	682+00-N-
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
682+00-N-	682+00 300' B.S.	1	B&W	7:19	90°00'		
		2	R		90°00'		
		3	Y		90°00'		
		4	B&W	7:21	90°00'		
		5	R		90°00		
		6	Y		90°00'		
		7	B&W	7:24	90°00		
		8	R		90°00'		
		9	Y		90°00		
		10	B&W	7:26	90°00'		
		11	R		90°00'		
		12	Y		90°00'		
		13	B&W	7:29	90°00'		
		14	R		90°24'		
		15	Y		90°00'		
		16	B&W	7:36	90°00'		
		17	R		90°00'		
		18	Y		90°00'		
		19	B&W	7:33	90°00'		
		20	R		90°00		



Profile Notes Red. Plotted Job No. 84 Division No. F. B. Pg. 27
No. Date Date Survey of
X-Sec. Notes Chkd. Checked Survey by E. H. BLANCHARD E.R. Date 12-18-53
No. Date Date Map No. Indexed C. Johnson Date

F. B. PG. 28 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by F. H. BLANCHARD Notes E.R. Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

Range 682 + 00 N

682+00 N

682+00 N 300 BS

STATION	B.S.	H.I.	F.S.	ELEV.	Range	682+00-N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		90°00'		
	22	B+W	7:35	90°00'		
	23	R		90°00'		
	24	Y		90°00'		
	25	B+W	7:38	90°00'		
	26	R		90°00'		
	27	Y		90°00'		
	28	B+W	7:40	90°00'		
	29	R		90°00'		
	30	Y		90°00'		
	31	B+W	7:42	90°00'		
	32	R		90°00'		
	33	Y		90°00'		
	34	B+W	7:48	90°00'		
	35	R		90°00'		
	36	Y		90°00'		

76L298 307 8-53

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Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1-5 Pg. 29
No. ____ Date ____ Date ____ Survey of PEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by F. H. BLANCHARD RHS Date 18 Dec 53
No. ____ Date ____ Date ____ Map No. ____ Indexed E. C. Johnson Date ____

STATION		B. S.	H. I.	F. S.	ELEV.	Cut-in	682+00N
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks	
687+93.66 N Baseline	Baseline N 69	1	B+W	7:18	74° 13'		
		2	R		73° 21'		
		3	Y		72° 27'		
		4	B+W	7:21	71° 23'		
		5	R		70° 27'		
		6	Y		69° 24'		
		7	B+W	7:23	67° 52'		
		8	R		66° 20'		
		9	Y		64° 45'		
		10	B+W	7:25	62° 42'		
		11	R		61° 22'		
		12	Y		59° 28'		
		13	B+W	7:28	57° 32'		
		* 14	R		56° 22'		
		15	Y		54° 03'		
		16	B+W	7:30	52° 33'		
		17	R		51° 06'		
		18	Y		49° 32'		
		19	B+W	7:32	47° 46'		
		20	R		45° 55'		

Cut In 682+00N

F.B. PG. 30 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by F. H. BLANCHARD Notes Notes Chkd. Checked X-Sec.

Indexed E. C. Johnson Date Date Date No.

CUT IN 682+00 N

687+93.60 N BASELINE

N69 BASELINE

STATION	B.S.	H.I.	F.S.	ELEV.	Cut-in	682+00 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		44°15'		
	22	B+W	7:34	45°05'		
	23	R		39°50'		
	24	Y		41°47'		
	25	B+W	7:36	40°28'		
	26	R		37°56'		
	27	Y		36°07'		
	28	B+W	7:38	32°35'		
	29	R		30°20'		
	30	Y		31°15'		
	31	B+W	7:42	28°34'		
	32	R		25°38'		
	33	Y		23°29'		
	34	B+W	7:48	22°29'		
	35	R		21°05'		
	36	Y		18°49'		

76L298 307 10-51

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Profile No. Notes Hd. CEM Plotted Job No. P41-2 Division No. F. B. Pg. 31
Date 3/3/54 Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey By F.A.B. Notes By R.C. 17-18-53
No. Date Date Map No. Indexed Johnson Date

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks	BOAT 682+00N
1	B&W	7:19	34.5	33.5	7.1	26.4	2102	
2	R		35.0	33.1	7.1	26.0	1986	
3	Y		33.6	33.2	7.1	26.1	1878	
4	B&W	7:21	32.8	32.3	7.1	25.2	1763	
5	R		33.0	31.7	7.0	24.7	1673	
6	Y		32.0	31.4	7.0	24.4	1580	
7	B&W	7:23	32.0	30.7	7.0	23.7	1460	
8	R		31.1	30.4	7.0	23.4	1355	
9	Y		30.1	29.8	7.0	22.8	1259	
10	B&W	7:25	29.7	27.8	7.0	20.8	1150	
11	R		27.2	27.2	7.0	20.2	1088	
12	Y		27.8	27.1	7.0	20.1	1007	
13	B&W	7:28	26.7	25.5	7.0	18.5	934	
14	R		26.0	25.1	7.0	18.1	885	~~893~~ 888 on 880 off
15	Y		24.7	24.2	7.0	17.2	819	
16	B&W	7:30	23.8	23.4	6.9	16.5	776	
17	R		23.1	23.3	6.9	16.4	736	
18	Y		22.9	22.3	6.9	15.4	696	
19	B&W	7:31	22.0	22.2	6.9	15.3	654	
20	R		23.2	21.2	6.9	14.3	613	

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F. B. 1507 PG. 32 Job No. 8412 Division No. Notes Red. CEM Plotted No. X-Sec.
Survey of Beach Erosion Studies Date 3/3/54 Date Date
Survey by EMB Notes AS Notes Chkd. Checked
Indexed K. C. Johnson Date Date Date

STATION | B. S. | H. I. | F. S. | ELEV. | Boat | 68+00N

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks
21	Y		21.1 / 20.2	20.5	6.9	13.6	579	Rocky Bottom
22	BxW	7:33	20.0 / 19.0	19.3	6.9	12.4	536	
23	R		20.0 / 18.7	19.1	6.9	12.2	495	
24	Y		19.0 / 18.0	18.3	6.9	11.4	531	
25	BxW	7:36	19.0 / 17.9	17.7	6.9	10.8	507	
26	R		17.0 / 16.0	16.3	6.9	9.4	463	
27	Y		16.0 / 15.0	15.1	6.8	8.3	433	
28	BxW	7:39	14.6 / 13.5	13.2	6.8	6.4	380	
29	R		15.0 / 14.0	14.7	6.8	7.9	348	
30	Y		14.8 / 13.0	13.6	6.8	6.8	360	
31	BxW	7:42	14.0 / 12.8	13.2	6.8	6.4	323	
32	R		12.0 / 11.0	11.3	6.8	4.5	285	
33	Y		11.0 / 10.3	10.8	6.7	4.1	258	
34	BxW	7:48	10.4 / 9.3	10.0	6.7	3.3	246	
35	R		10.5 / 9.7	10.0	6.7	3.3	229	
36	Y		9.7 / 8.1	8.6	6.7	1.9	202	

Boat 68 ft. long

76L298 307 8-53

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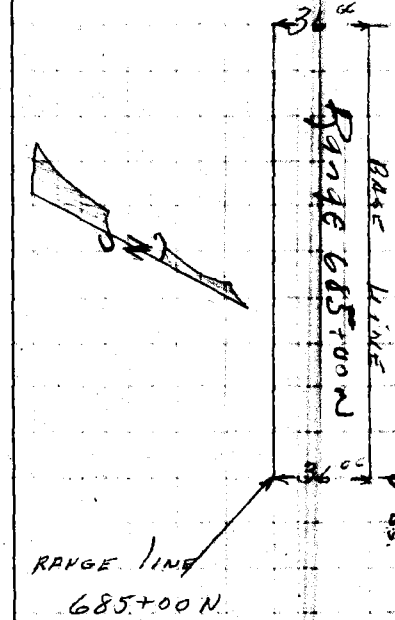
STATION		B. S.	H. I.	F. S.	ELEV.	Range	685+00-N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
685+00-N-36.06	685+00-N-300' BS	1	B+W	8:24	90°00'		
		2	R		90°00'		
		3	Y		90°00'		
		4	B+W	8:27	90°00'		
		5	R		90°00'		
		6	Y		90°00'		
		7	B+W	8:31	90°00'		
		8	R		90°00'		
		9	Y		90°00'		
		10	B+W	8:32	90°00'		
		11	R		90°00'		
		12	Y		90°00'		
		13	B+W	8:34	90°00'		
		14	R		90°00'		
			Y		90°00'		
		16	B+W	8:37	90°00'		
		17	R		90°00		
		18	Y		90°00		
		19	B+W	8:40	90°00		
		20	R		90°00		



Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of HEACH GROUND STUDY
X-Sec. Notes Chkd. Checked Survey by Notes E.R. Date 12-18-53
No. Date Date Map No. Indexed A. C. Johnson Date

F. B. 1508 PG. 33

F. B. 1508 Pg. 39 Job No. 7412 Division No. _____ Notes Red. _____ Plotted _____ Profile

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

Survey by F. H. BLANCHARD Notes L.R. Notes Chkd. _____ Checked _____ X-Sec.

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

Range 685500

685+00N 36.06 J. off.

685+00N 300' B.S.

STATION	B. S.	H. I.	F. S.	ELEV.	Range	685+00N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		90°00'		
	22	Bdw	8:43	90°00'		
	23	R		90°00'		
	24	Y		90°00'		
	25	Bdw	8:45	90°00'		
	26	R		90°00'		
	27	Y		90°00'		

76L298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.	BOAT		685+00N
# Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
1 BxW	8 23	34.2 / 33.6	33.8	6.1	27.7	2082	2042 + 40
2 R		35.2 / 34.0 ?	34.4 ?	6.1	28.3 ?	1940	1900
3 Y		33.3 / 32.7	32.9	6.0	26.9	1779	1739
4 BxW	8 27	32.3 / 31.5	31.8	6.0	25.8	1626	1586
5 R		32.2 / 30.9	31.3	6.0	25.3	1481	1441
6 Y		31.1 / 29.7	30.2	6.0	24.2	1371	1331
7 BxW	8 30	30.3 / 29.5	29.8	6.0	23.8	1258	1218
8 R		29.5 / 28.3	28.7	5.9	22.8	1130	1090
9 Y		28.8 / 26.9	27.6	5.9	21.7	1045	1005
10 BxW	8 32	27.3 / 26.8	27.0	5.9	21.1	982	942
11 R		26.0 / 25.5	25.7	5.9	19.8	880	840
12 Y		24.7 / 23.9	24.2	5.9	18.3	792	752
13 BxW	8 34	24.4 / 23.6	23.9	5.9	18.0	732	692
14 R		22.3 / 21.9	22.0	5.8	16.2	668	628
15 Y		22.9 / 20.6	21.4	5.8	15.6	634	594
16 BxW	8 36	23.1 / 20.0	21.0	5.8	15.2	564	524
17 R		21.1 / 19.0	19.7	5.8	13.9	505	465
18 Y		19.7 / 18.4	18.8	5.8	13.0	453	413
19 BxW	8 39	17.3 / 16.9	17.0	5.7	11.3	397	357
20 R		16.2 / 15.0	15.4	5.7	9.7	349	309

BOAT 685+00N

Notes Red CEM Plotted Date 3/3/54
Notes Chkd. Date Checked Date
Indexed Date
Job No. 8412 Division No.
Survey of
Surveyed Noted Date
Map No.
No. X-Sec.
No.
F.B. Pg. 37

76L298 307 10-51

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9

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F.B. PG. 38 Job No. 2412 Division No. Notes Rd. CEM Plotted No. Profile
Survey of BEACH EROSION STUDY Date 3/3/54 Date X-Sec.
Survey by F. H. BLANCHARD Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks	
21	Y		157	14.8	5.7	9.1	345	305+40
			143					
22	BW	842	145	14.0	5.7	8.3	311	271
			137					
23	R		141	13.4	5.7	7.7	275	235
			130					
24	Y		138	12.4	5.7	6.7	243	203
			119					
25	BW	844	125	11.6	5.6	6.0	216	176
			111					
26	R		107	10.2	5.6	4.6	183	143
			100					
27	Y		83	8.0	5.6	2.4	135	95
			78					

BOAT 685+00N

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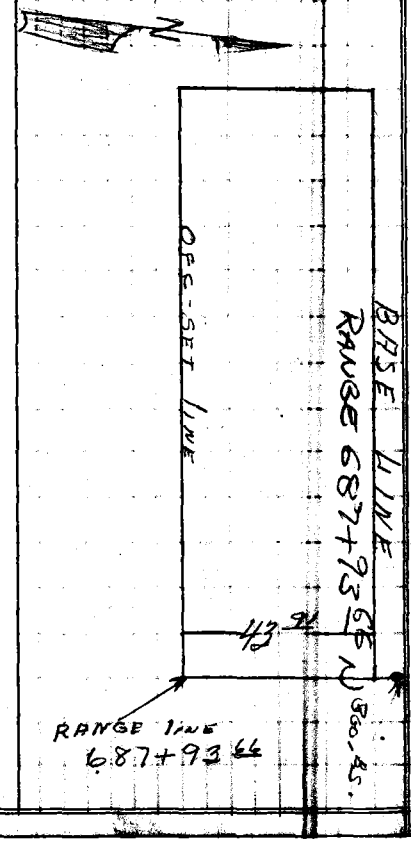
Range 687+93.66 W

STATION		B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.	
687+93.66 -N-	300' B.S.	1	[illegible]	8:59	90° 00'	
		2	[illegible]		90° 00'	
		3	[illegible]		90° 00'	
		4	[illegible]	9:02	90° 00'	
		5			90° 00'	
		6			89° 47'	
		7	[illegible]	9:05	90° 00'	
		8			90° 00'	
		9			90° 00'	
		10	[illegible]	9:07	90° 00'	
		11			90° 00'	
		12			90° 00	
		13	[illegible]	9:10	90° 00'	
		14			90° 00'	
		15			90° 00	
		16	[illegible]	9:13	90° 00'	
		17			90° 00'	
		18			90° 00'	
		19	[illegible]	9:15	90° 00'	
		20	[illegible]		90° 00'	



Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of
X-Sec. Notes Chkd. Checked Survey by Notes E.R. Date 12-18-53
No. Date Date Map No. Indexed Date

F. B. Pg. 39

F. B. 8 Pg. 40

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

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

Survey by F. H. BLANCHARD Notes E. R. Notes Chkd. _____ Checked _____ X-Sec.

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

Range 687+93 66 N

687+93 66 -N-

687+93 66 300' B.S.

STATION	B.S.	H.I.	F.S.	ELEV.	Range
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
	21			90°00	
	22		9:17	90°00	
	23			90°00	

Range 687+93 66 N

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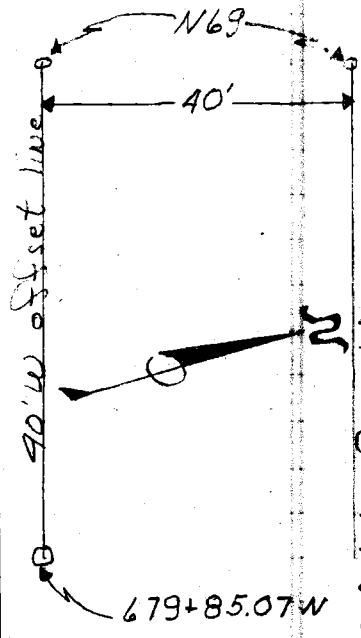
Cut-in 687+93.66 N

Inst. Sight At	Inst. Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
40' W of Offset	40' W of Offset	1	B+W	8:59	31° 06'	
		2	R		30° 22'	
		3	Y		29° 34'	
		4	B+W	9:01	28° 49'	
		5	R		28° 01'	
		6	Y		27° 05'	
		7	B+W	9:04	25° 40'	
		8	R		24° 28'	
		9	Y		23° 19'	
		10	B+W	9:06	22° 14'	
		11	R		20° 45'	
		12	Y		19° 30'	
679+85.07 N		13	B+W	9:09	18° 19'	
		14	R		17° 05'	
		15	Y		15° 53'	
		16	B+W	9:11	14° 20'	
	N 69	17	R		13° 31'	
		18	Y		12° 41'	
		19	B+W	9:14	11° 19'	
		20	R		9° 59'	



Sight 680+11 N 687+93.66 N

Profile Notes Red ____ Division No. ____ F.B. ____ Pg. 41
No. ____ Date ____ Plotted ____ Job No. 8412
X-Sec. ____ Date ____ Survey of BEACH EROSION STUDIES
Notes Chkd ____ Checked ____ Survey ~~F. H. BLANCHARD~~ Date 12-18-53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. PG 42 Job No. 841~ Division No. Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by F. H. BLANCHARD Notes Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

CUT-IN 687+93.66 N

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STATION	B.S.	H.I.	F.S.	ELEV.	Cut-in	687+93.66 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		9°11'		
	22	B+W	9:16	9°16'		
	23	R		7°50'		

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	687 + 93.66 N	
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	BW	8 59	327 / 313	31.8	5.3	26.5	890
2	R		323 / 304	31.0	5.3	25.7	857
3	Y		305 / 297	30.0	5.3	24.7	820
4	BW	9 02	301 / 293	29.6	5.3	24.3	790
5	R		291 / 285	28.7	5.2	23.5	750
6	Y		287 / 274	27.8	5.2	22.6	710
7	BW	9 04	283 / 266	27.2	5.2	22.0	665
8	R		267 / 252	25.7	5.2	20.5	619
9	Y		263 / 250	25.4	5.2	20.2	576
10	BW	9 07	242 / 238	23.9	5.1	18.8	541
11	R		231 / 224	22.6	5.1	17.5	495
12	Y		224 / 216	21.9	5.1	16.8	458
13	BW	9 09	213 / 202	20.6	5.1	15.5	422
14	R		212 / 200	20.4	5.1	15.3	390
15	Y		187 / 179	18.2	5.0	13.2	362
16	BW	9 12	171 / 164	16.6	5.0	11.6	322
17	R		161 / 149	15.3	5.0	10.3	303
18	Y		163 / 147	15.2	5.0	10.2	287
19	BW	9 14	153 / 140	14.4	5.0	9.4	235
20	R		121 / 117	11.8	5.0	6.8	230

BOAT 687+93.66 N

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

X-Sec. No. ____ Date 3/3/54 Date ____ Survey of [illegible] Date 12-18-53

Notes Chkd. ____ Checked ____ Survey by F. H. BLANCHARD Notes KE Date ____

Date ____ Date ____ Map No. ____ Indexed J. Johnson Date ____

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6

STATION		B. S.	H. I.	F. S.	ELEV.	Boat		687+93.66
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks
21	Y		103 98	10.0	4.9	5.1	210	
22	BW	916	113 99	10.4	4.9	5.5	212	
23	R		74 82	8.6	4.9	3.7	184	

BOAT 687+93.66 N

F.B. PG 44 Job No. 8412 Division No. Notes Red CEM Plotted No. Profile

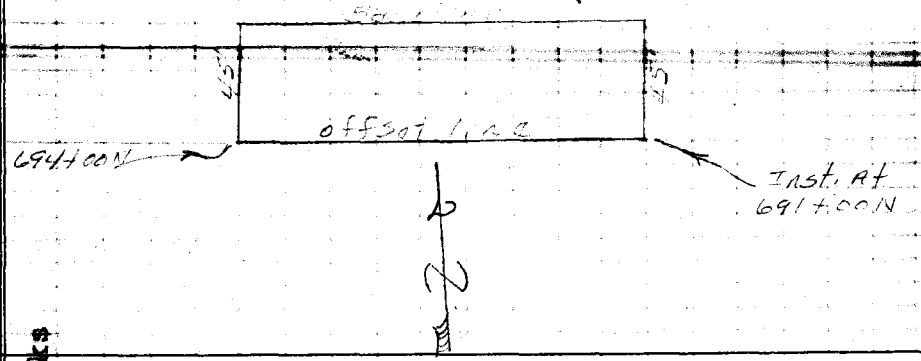
Survey of BEACH EROSION STUDY Date 3/3/54 Date X-Sec.

Survey by H. Notes Notes Chkd Checked

Indexed A. C. Johnson Date Date Date No.

Profile	Notes Red.	Plotted	Job No. 8412	Division No.	F. B.	Pg. 45
No.	Date	Date	Survey of [illegible]			
X-Sec.	Notes Chkd.	Checked	Survey by F. H. BLANCHARD	Notes J. C. G	Date 12-18-53	
No.	Date	Date	Map No.	Indexed Z. C. Johnson	Date	

RANGE 691+00N



691+00N

Range

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1	B+W	10:19	90°00'	
	2	R		90°00'	
	3	Y		90°00'	
	4	B+W	10:22	90°00'	
	5	R		90°00'	
	6	Y		90°00'	
	7	B+W	10:24	90°00'	
	8	R		90°00'	
	9	Y		90°00'	
	10	B+W	10:27	90°00'	
	11	R		90°00'	
	12	Y		90°00'	
	13	B+W	10:29	90°00'	
	14	R		90°00'	
	15	Y		90°00'	
	16	B+W	10:31	90°00'	
	17	R		90°00'	
	18	Y		90°00'	
	19	B+W	10:34	90°00'	
	20	R		90°00'	

694+00N 45' W. off.

691+00N 45' W. off.

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F. B. Pg 46 Job No. 2412 Division No. Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by F. H. BLANCHARD Notes J.C.G. Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

RANGE 691+00N

691+00N 45' W off.

694+00N 45' W off.

STATION	B. S.	H. I.	F. S.	ELEV.	Range	691+00N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		90° 00'		
	22	Bdw	10:36	90° 00'		
	23	R		90° 00'		
	24	Y		90° 00'		

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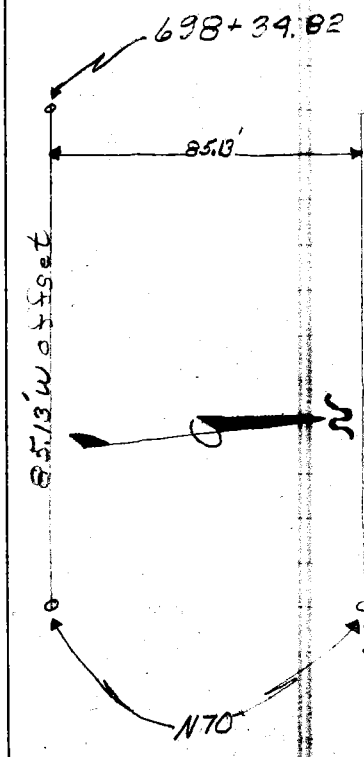
STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in 691+00 N

Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks
		1	B+W	10:19	74°15'	
		2	R		72°48'	
		3	Y		70°42'	
		4	B+W	10:21	68°55'	
		5	R		67°08'	
		6	Y		64°20'	
85.13' W of 4 set	85.13' W of 4 set	7	B+W	10:24	61°49'	
		8	R		59°32'	
		9	Y		57°18'	
		10	B+W	10:27	54°32'	
		11	R		51°57'	
		12	Y		49°25'	
		13	B+W	10:29	46°02'	
		14	R		44°45'	
		15	Y		42°15'	
698+34.82	N70	16	B+W	10:31	39°10'	
		17	R		35°54'	
		18	Y		31°55'	
		19	B+W	10:34	29°37'	
		20	R		27°23'	



Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. ____ Pg. 47
X-Sec. No. ____ Date ____ Date ____ Survey of BENCH ERECTION JURLES
Notes Chkd ____ Date ____ Checked ____ Survey by F. H. BLANCHARD & CREW Date 12-18-53
Map No. ____ Date ____ Indexed ____ Date ____

F.B. Pg. 48 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by F. H. BLANCHARD Notes Notes Chkd Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

CUT-IN 691+00N

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At	#	Color	Time	Hor. Ang.	
	21	Y		24° 36'	
	22	B+W	10:36	22° 34'	
	23	R		20° 11'	
	24	Y		17° 21'	
					Cut-in
					691+00N

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Profile No. ____ Date 3/3/54 Notes Red CEM Plotted ____ Job No. 8412 Division No. ____ F.B. ____ Pg. 49
X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of BOAT Survey by ____ Map No. ____ Indexed ____ Date ____ Date 12-18-53

STATION: BOAT 691+00N

#	Color	Time	B. S.	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks
1	BW	10:20		32.5 / 31.2	31.6	3.1	28.5	1619
2	R			31.2 / 30.0	30.4	3.0	27.4	1522
3	Y			30.0 / 29.4	29.6	3.0	26.6	1400
4	BW	10:22		28.8 / 28.0	28.3 / ~~28.8~~	3.0	25.3 / ~~25.8~~	1307
5	R			29.1 / 28.0	28.4	3.0	25.4	1220
6	Y			27.3 / 26.5	26.8	3.0	23.8	1110
7	BW	10:25		27.1 / 25.0	25.7	2.9	22.8	1022
8	R			25.0 / 24.0	24.3	2.9	21.4	953
9	Y			24.3 / 23.0	23.4	2.9	20.5	890
10	BW	10:27		23.1 / 21.7	22.2	2.9	19.3	820
11	R			22.7 / 21.8	22.1	2.9	19.2	759
12	Y			21.3 / 19.8	20.3	2.9	17.4	701
13	BW	10:29		19.8 / 18.0	18.6	2.8	15.8	639
14	R			19.2 / 17.8	18.3	2.8	15.5	615
15	Y			18.2 / 16.8	17.3	2.8	14.5	570
16	BW	10:32		16.8 / 16.0	16.3	2.8	13.5	520
17	R			16.3 / 15.2	15.6	2.8	12.8	470 ROCKY BOTTOM
18	Y			15.0 / 13.0	13.7	2.7	11.0	412
19	BW	10:34		16.4 / 14.0	14.8	2.7	12.1	381
20	R			13.4 / 12.0	12.5	2.7	9.8	352

BOAT 691+00N

F.B. 1307 PG. 57 Job No. 8412 Division No. _____ Notes Red. CEH Plotted _____ Profile

Survey of BERCA EROSION STUDY Date 3/3/54 Date _____ No. _____

Survey by F. H. BLANCHARD Notes A.S. Notes Chkd. _____ Checked _____ X-Sec.

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

BOAT 691+00 N

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	Boat	691+00 N
#	Color	Time	Meas. Depth	Bottom Tide	Adj. Depth	Remarks
21	Y		13.0	11.5	8.8	317
22	BW	10:36	10.8	10.6	7.9	290
23	R		11.8	8.7	6.1	273
24	Y		10.0	5.4	2.8	225
			10.0			
			8.0			
			6.2			
			5.0			

76L298 307 10-51

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726 LOS ANGELES COUNTY
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STATION	B. S.	H. I.	F. S.	ELEV.	Range	694+00 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	1	B&W	9:35	90°00'	Rough WATER	RANGE LINE 694+00-N
	2	R		90°00		
	3	Y		90°00		
	4	B&W	9:40	90°00'		
	5	R		90°00'		
	6	Y		90°00'		
	7	B&W	9:43	90°00'		
	8	R		90°00'		
	9	Y		90°00'		
	10	B&W	9:46	90°00		
	11	R		90°00		
	12	Y		90°00		
	13	B&W	9:48	90°00		
	14	R		90°35'		
	15	Y		90°00'		
	16	B&W	9:50	90°00'		
	17	R		90°00		
	18	Y		90°00		
	19	B&W	9:52	90°00		
	20	R		90°00		

694+00 - N -

691+

BASE LINE RANGE 694+00 N

691+

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. ____ Pg. 51
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Pt. Dr.
Notes Chkd. ____ Checked ____ Survey by [illegible] ER Date 12-21-53
Date ____ Date ____ Map No. ____ Rudolf Johnson Date ____

76L298 307 10-51

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Do not extend notes this side of this line.

F.B. PG. 52 Job No. 8412 Division No. Notes Red Plotted Profile
Survey of Beach Erosion Study Date Date No. X-Sec.
Survey by Notes Robbins Notes Chkd Checked
Indexed L. C. Johnson Date Date Date No.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	694+00 N
INST. AT	SIGHT ON	#	COLOR	TIME	HOR. ANGLE		
		21	Y		90°00'		
		22	B+W	9:55	90°00'		
		23	R		90°00'		
		24	Y		90°00'		
		25	B+W	9:57	90°00'		
		26	R		90°00'		
		27	Y		90°00'		
		28	B+W	9:59	90°00'		
		29	R		90°00'		
RANGE 694+00 N 694+00	691+						

76L298 307 8-53

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CUT-IN 694+00N

STATION		B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.	
703+00N BASELINE	700+30 82 N BASELINE	1	B&W	9:35	94°07	
		2	R		87°45	
		3	Y		79°22	
		4	B&W	9:40	75°56	
		5	R		73°04	703+00
		6	Y		71°26	
		7	B&W	9:43	69°19	
		8	R		66°58	
		9	Y		65°12	
		10	B&W	9:45	62°57	
		11	R		60°58	
		12	Y		58°40	
		13	B&W	9:47	56°11	
		* 14	R		54°04	
		15	Y		51°25	
		16	B&W	9:50	49°57	
		17	R		46°58	
		18	Y		45°24	700+3082
		19	B&W	9:52	44°46	
		20	R		43°36	

CUT-IN 694+00N

Profile Notes Red. ____ Plotted ____ Job No. 84W Division No. ____ F. B. Pg. 53
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by H. BLANCHARD J.M.U. Date 12-21-53
No. ____ Date ____ Date ____ Map No. ____ Indexed E. Johnson Date ____

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	CUT-IN 694+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
CUT-IN 694+00N 703+00N BASELINE	700+30.83 N BASELINE	21	Y		41°48	
		22	B&W	9:55	40°36	
		23	R		38°20	
		24	Y		34°48	
		25	B&W	9:57	33°33	
		26	R		32°20	
		27	Y		30°02	
		28	B&W	9:59	28°26	
		29	R		25°21	

F.B. Pg. 54 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH EROSION STUDIES Date Date X-Sec.
Survey by F. H. BLANCHARD Notes J.M.U. Notes Chkd. Checked No.
Indexed C. Johnson Date Date Date

76F3095 247 4-53

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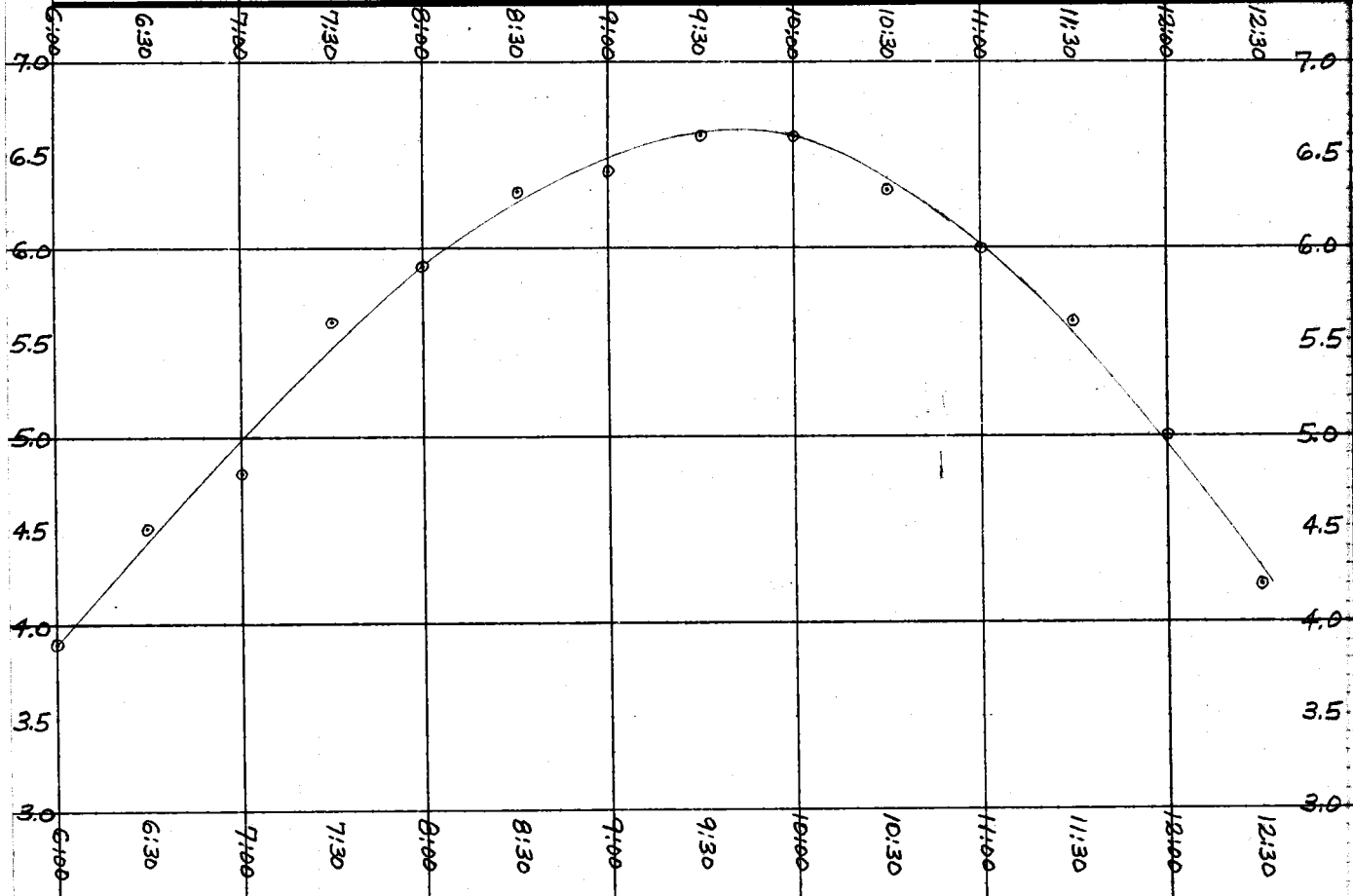
Do not extend notes this side of this line.

December 22, 1953



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

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

F. B. 1508 Pg.

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726 LOS ANGELES COUNTY
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F. B. _____ PG. _____

76L298 307 10-51

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	694+00N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	BW	9:35	42.0 40.5	41.0	7.0	34.0	2446
2	R		37.0 36.0	36.3	7.0	29.3	1859
3	Y		32.6 31.1	31.6	7.0	24.6	1390
4	BW	9:40	31.8 29.5	30.3 ~~30.4~~	7.0	23.3 ~~23.4~~	1245
5	R		30.0 28.7	29.1	7.0	22.1	1141
6	Y		29.2 28.0	28.4	6.9	21.5	1079
7	BW	9:43	27.6 26.5	26.9	6.9	20.0	1025
8	R		27.0 25.9	26.3	6.9	19.4	958
9	Y		26.1 24.6	25.1	6.9	18.2	910
10	BW	9:46	24.6 23.9	24.1	6.9	17.2	854
11	R		25.2 22.5	23.4	6.9	16.5	807
12	Y		23.8 21.1	21.8	6.9	14.9	758
13	BW	9:48	22.5 20.6	21.2	6.9	14.3	702
14	R		21.6 19.9	20.5	6.8	13.7	654
15	Y		18.7 17.9	18.2	6.8	11.4	610
16	BW	9:50	18.8 17.6	18.0	6.8	11.2	581
17	R		18.0 16.7	17.1	6.8	10.3	528
18	Y		17.5 15.7	16.3	6.8	9.5	501
19	BW	9:53	16.8 14.5	15.3	6.8	8.5	489
20	R		18.0 16.0	16.7	6.8	9.9	469

BOAT 694+00N

Profile
No. ____ Date 3/3/54 Notes Red CEM Plotted ____ Date ____ Job No. 8412 Division No. ____ F.B. 57 Pg. 55
X-Sec. No. ____ Date ____ Notes Chkd. ____ Date ____ Survey of [illegible] Survey No. [illegible] Date 12-21-53
Map No. ____ Indexed ____ Date ____

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	Boat		694+00N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks
21	Y		16.0 13.6	14.4	6.8	7.6	439	
22	B&W	9:55	14.2 13.0	13.4	6.8	6.6	419	
23	R		16.0 14.0	14.7	6.8	7.9	383	Rocky Bottom
24	Y		16.0 14.0	14.7	6.7	8.0	327	
25	B&W	9:58	15.9 14.0	14.6	6.7	7.9	309	
26	R		12.5 11.0	11.5	6.7	4.8	289	
27	Y		11.1 9.1	9.8	6.7	3.1	253	
28	B&W	10:00	10.0 8.0	8.7	6.7	2.0	228	
29	R		7.8 5.8	6.5	6.7	-0.2	183	(above MLLW)

BOAT 694+00N

was the whaling business good or did the whalers get chased?

F.B. 1507 Pg. 38 Job No. 8413 Division No. Notes Red. CEM Plotted No. Profile
Survey of Preston Elevation Study Date 3/3/54 Date X-Sec.
Survey by E. H. BLANCHARD Notes AS Notes Chkd. Checked No.
Indexed Date Date Date

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

F. B. Pg. 57

TIDE GAGE

STANDARD TIME DEC 22 1953

HOUR	TIDE
600	39
630	45
700	48
730	56
800	59
830	63
900	64
930	66
1000	66
1030	63
1100	60
1130	56
1200	50
1230	42

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76FS095 247 4-53

F. B. _____ Pg. 58

TIDE GAGE

STANDARD TIME JAN 4 1954

HOUR	TIDE
6 00	
6 30	
7 00	
7 30	
8 00	
8 30	
9 00	
9 30	
10 00	
10 30	
11 00	
11 30	
12 00	
12 30	

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LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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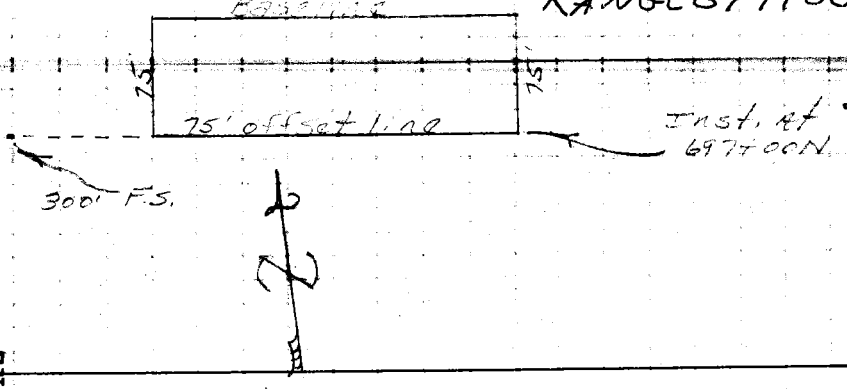
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Profile	Notes Red.	Plotted	Job No. 7412	Division No.	F. B.	Pg. 59
No.	Date	Date	Survey of [illegible]			
X-Sec.	Notes Chkd.	Checked	Survey by F. H. BLANCHARD	Notes J.C.G.	Date 12-22-53	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	

RANGE 697+00N



Range 697+00N

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1	Blue	7:14	90°00'	
	2			90°00'	
	3			90°00'	
	4	Blue	7:17	90°00'	
	5			89°20'	
	6			90°00'	
	7	Blue	7:20	89°24'	
	8			90°00'	
	9			90°00'	
	10	Blue	7:24	90°00'	
	11			89°38'	
	12			90°00'	
	13	Blue	7:27	90°00'	
	14			89°22'	
	15			90°00'	
	16	Blue	7:30	90°00'	
	17			90°00'	
	18			90°00'	
	19	Blue	7:34	90°00'	
	20			90°00'	

F.S. 300'

697+00N

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

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 8-53

F. B. PG. 60 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by F. H. BLANCHARD Notes J. C. G. Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

RANGE 697+00 N

697+00 N

F.S. 300'

STATION	B. S.	H. I.	F. S.	ELEV.	Range	697+00 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		90° 00'		
	22	BLW	7:30	90° 00'		
	23	R		90° 00'		
	24	Y		90° 00'		
	25	BLW	7:37	90° 00'		
	26	R		90° 00'		
	27	Y		90° 00'		
	28	BLW	7:41	90° 00'		

76L288 307 8-53

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76L298 307 10-51

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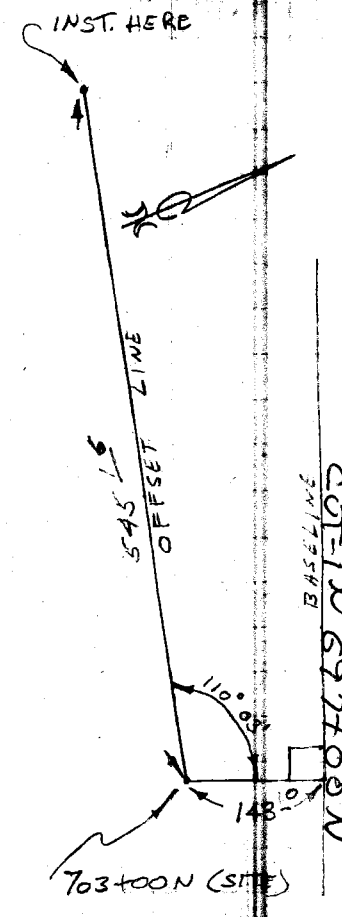
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	CUT-IN 697+00N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
	1	B&W	7:13	84°17	
	2	R		80°48	
	3	Y		78°33	
	4	B&W	7:17	76°11	
	5	R		73°55	
	6	Y		70°42	
	7	B&W	7:20	68°13	
	8	R		65°40	
	9	Y		62°31	
	10	B&W	7:24	62°53	BOAT BACKED OUT
	11	R		61°22	
	12	Y		57°24	
	13	B&W	7:27	54°44	
	14	R		51°21	
	15	Y		49°03	
	16	B&W	7:30	47°27	
	17	R		51°35	BOAT BACKED OUT
	18	Y		48°46	
	19	B&W	7:34	44°18	
	20	R		40°59	

SEE SKETCH

703+00N 143 10' OFFSET



Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. ____ Pg. 61
No. ____ Date ____ Date ____ Survey of BENCH EROSION STUDIES
X-Sec. Notes Chkd ____ Checked ____ Survey by F.H. BLANCHARD U.M.U. Date 12-22-63
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. PG 62 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by E. H. BLANCHARD Notes Notes Chkd. Checked X-Sec.

Indexed K. C. Johnson Date Date Date No.

CUT-IN 697+00N

SEE SKETCH

703+00N 143 LO' OFFSET

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	CUT-IN 697+00N
	21	Y		39°22	
	22	B&W	7:36	35°58	
	23	R		32°36	
	24	Y		31°12	
	25	B&W	7:38	28°27	
	26	R		25°45	
	27	Y		22°21	
	28	B&W	7:40	20°12	

76L298 307 10-51

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726 LOS ANGELES COUNTY

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FORM 307 2M 8-45

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.	BOAT		697+00N
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth		Remarks
1	Bvw	7:18	33.0 32.6	32.7	5.2	27.5		1615
2	R		32.0 30.7	31.1	5.2	25.9		1493
3	Y		31.0 30.0	30.3	5.2	25.1		1418
4	Bvw	7:17	30.0 29.0	29.3	5.3	24.0		1348
5	R		29.2 28.0	28.4	5.3	23.1		1282
6	Y		27.4 26.9	27.1	5.3	21.8		1201
7	Bvw	7:20	27.1 25.8	26.2	5.3	20.9		1140
8	R		27.0 25.9	26.3	5.3	21.0		1082
9	Y		26.0 24.0	24.7	5.3	19.4		1012
10	Bvw	7:23	25.0 24.5	24.7	5.3	19.4		1021
11	R		25.1 24.0	24.4	5.4	19.0		990
12	Y		23.8 22.9	23.2	5.4	17.8		910
13	Bvw	7:26	23.0 22.0	22.3	5.4	16.9		859
14	R		21.0 20.5	20.7	5.4	15.3		796
15	Y		21.6 20.0	20.5	5.4	15.1	755	ROCKY BOTTOM
16	Bvw	7:29	20.0 18.4	18.9	5.4	13.5	724	
17	R		21.7 20.2	20.7	5.5	15.2	800	
18	Y		21.0 20.0	20.3	5.5	14.8	750	
19	Bvw	7:33	18.0 17.0	17.3	5.5	11.8	669	
20	R		16.3 15.0	15.4	5.5	9.9	613	

BOAT 697+00N

Profile No. ____ Notes Red. CEM Plotted ____ Job No. 8412 Division No. ____ F.B. 1 Pg. 63
X:Sec. ____ Date 3/3/54 Date ____ Survey of Beach Erosion Study
No. ____ Notes Chkd. ____ Checked ____ Survey by E. H. BLANCHARD Date 12-28-54
Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

FORM 307 2M 8-45

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.	BOAT	697+00N
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
21	Y		17.0 15.2	15.8	5.5	10.3	584
22	BxW	7:35	15.0 14.2	14.5	5.5	9.0	526
23	R		13.0 11.5	12.0	5.6	6.4	468
24	Y		12.9 10.9	11.6	5.6	6.0	442
25	BxW	7:38	11.3 10.1	10.5	5.6	4.9	396
26	R		11.1 10.0	10.4	5.6	4.8	348
27	Y		9.8 8.3	8.8	5.6	3.2	287
28	BxW	7:40	8.8 7.1	7.7	5.6	2.1	247

BOAT 697+00N

F.B. 1509 PG. CB
Job No. 8412 Division No.
Survey of Beach Erosion Studies
Survey by F. H. BLANCHARD Notes P.S.
Indexed E. C. Johnson Date
Notes Red. CEM Date 3/3/54
Notes Chkd. Date
Plotted Date
Checked Date
Profile No.
X-Sec. No.

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

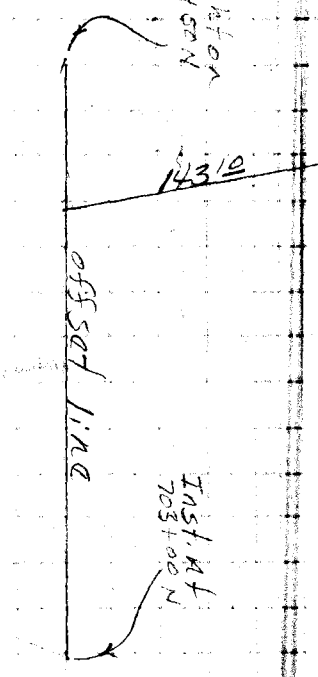
Profile No.____ Date____ Notes Red.____ Date____ Plotted____ Date____ Job No. 2412 Survey of [illegible] Division No.____

X-Sec. No.____ Date____ Notes Chkd.____ Date____ Checked____ Date____ Survey by [illegible] J.C.G. Date 12-22-53 Map No.____ Indexed Johnson Date____

F. B. Pg. 65

Range 703+00N

Inst. Sight At	Inst. Sight On	STATION	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
703+00N	N 0° 5' E		1	Blue	8:04	69° 57'	
			2	R		69° 57'	
			3	Y		69° 57'	
			4	Blue	8:08	69° 57'	
			5	R		69° 57'	
			6			69° 57'	
			7	Blue	8:10	69° 57'	
			8	R		69° 57'	
			9			69° 57'	
			10	Blue	8:12	69° 57'	
			11	R		69° 57'	
			12			69° 57'	
			13	Blue	8:15	69° 57'	
			14	R		69° 57'	
			15	Y		69° 57'	
			16	Blue	8:17	69° 57'	
			17	R		69° 57'	
			18	Y		69° 57'	
			19	Blue	8:19	69° 57'	
			20	R		69° 57'	



F. B. Pg. 66 Job No. 242 Division No. Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by F. H. BLANCHARD Notes J. C. G. Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

RANGE 703+00N

703+00N

706+50N

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Sight OH	#	Color	Time	Hor. Ang.	Remarks
	21	Y		69°57'	Range
	22	B&W	8:21	69°57'	
	23	R		69°57'	
	24	Y		69°57'	
	25	B&W	8:34	69°57'	
					703+00N

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

761298 307 8-53

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76L298 307 10-51

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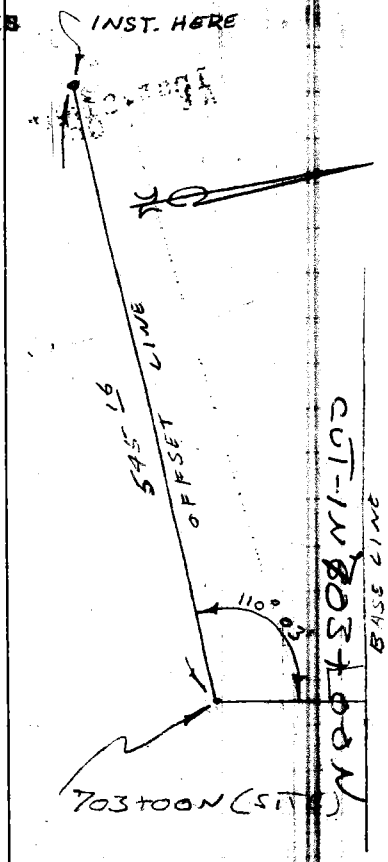
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	CUT-IN 703+00N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
SEE SKETCH 703+00N 143 10 OFFSET	1	B&W	8:04	90°58	
	2	R		85°20	
	3	Y		83°05	
	4	B&W	8:07	81°45	
	5	R		79°26	
	6	Y		78°10	
	7	B&W	8:09	76°19	
	8	R		74°14	
	9	Y		72°29	
	10	B&W	8:11	70°08	
	11	R		69°51	
	12	Y		65°40	
	13	B&W	8:15	62°37	
	14	R		60°04	
	15	Y		60°27	
	16	B&W	8:17	58°29	
	17	R		55°57	
	18	Y		54°52	
	19	B&W	8:19	51°21	
	20	R		47°39	



Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. ____ Pg. 67
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
Notes Chkd ____ Checked ____ Survey by F. H. BLANCHARD J.M.U. Date 12-20-53
Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

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

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

Survey by E. H. BLANCHARD Notes _____ Notes Chkd. _____ Checked _____ X-Sec.

Indexed E. O. Johnson Date _____ Date _____ Date _____ No. _____

CUT-IN 703+00 N SEE SKETCH

703+00N 143' OFFSET

STATION	B.S.	H.I.	F.S.	ELEV.	Inst. Sight At	#	Color	Time	Hor. Ang.	Remarks
						21	Y		43°27'	
						22	B&W	8:21	40°59'	
						23	R		40°10'	
						24	Y		37°32'	
						25	B&W	8:34	23°14'	
										CUT-IN 703+00N

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76L298 307 10-51

FORM 207 SM 5-55

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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

Do not extend notes this side of this line.

Profile Notes Red. CEM Date 3/3/54 Plotted Date Checked Date Map No. Tracing Date

Rev. Date Name Date

Survey of Boat Survey Co. Tracing Date

S.B. No. Boat Survey Co. Date

F.B. No.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		703+00N
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth		Remarks
1	B&W	8:03	35.0 34.0	34.3	6.0	28.3	1810	1630
2	R		31.1 30.0	30.4	6.0	24.4	1442	1262
3	Y		30.1 29.5	29.0	6.0	23.0	1336	1156
4	B&W	8:06	29.0 28.0	28.3	6.0	22.3	1281	1101
5	R		28.0 27.0	27.3	6.0	21.3	1195	1015
6	Y		28.0 26.0	26.7	6.0	20.7	1153	973
7	B&W	8:08	26.3 24.9	25.4	6.0	19.4	1097	917
8	R		24.7 23.8	24.1	6.0	18.1	1040	860
9	Y		23.7 23.1	23.3	6.0	17.3	996	816
10	B&W	8:11	23.0 22.0	22.3	6.0	16.3	942	762 Rocky Bottom
11	R		23.0 22.0	22.3	6.0	16.3	936	756
12	Y		20 19.0	19.3	6.1	13.2	853	673
13	B&W	8:14	19.1 18.0	18.4	6.1	12.3	800	620
14	R		18.0 16.8	16.7	6.1	10.6	760	580
15	Y		18.0 16.5	17.0	6.1	10.9	766	586
16	B&W	8:16	16.5 15.6	15.9	6.1	9.8	736	556
17	R		16.4 15.1	15.5	6.1	9.4	701	521
18	Y		16.0 15.0	15.3	6.1	9.2	686	506
19	B&W	8:19	15.0 14.3	14.5	6.1	8.4	641	461
20	R		13.8 13.0	13.6	6.1	7.5	597	417

perpendicular distance from Base Line

distance from 1935 Transit Line

not perpendicular to Transit Line

Boat 703+00N

FORM 307 2M 8-45

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		703+00N
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth		Remarks
21	Y		13.7 12.2	12.7	6.1	6.6	552	372
22	BxW	8:20	13.1 12.0	12.4	6.1	6.3	526	346
23	R		13.6 11.0	11.9	6.2	5.7	517	337
24	Y		12.1 11.0	11.4	6.3	5.1	486	306 MUST CALC - DIFFICULT
25	BxW	8 34	9.0 7.5	8.0	6.3	1.7	358	178 WEEDS NEAR SHORE
26	R							

BOAT 703+00N

perpendicular distance from Base Line

distance from 1935 Transit Line

not perpendicular to Transit Line

F.B. PG. 70 Job No. 8412 Division No. Notes Red. CEM Date 3/3/54 Plotted Date No. Profile

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

Survey by F. H. BLANCHARD Notes P.S.

Indexed C. Johnson Date

76L298 307 10-51

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ENGINEERING BLDG.

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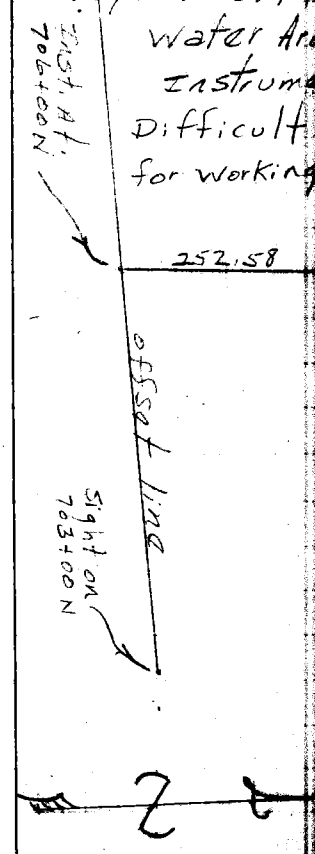
STATION		B. S.	H. I.	F. S.	ELEV.	Range 706+00N	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
706+00N	703+00N	1	B&W	8:58	110° 03'		
		2	R		110° 03'		
		3	Y		110° 03'		
		4	B&W	9:01	110° 03'		
		5	R		110° 03'		
		6	Y		110° 03'		
		7	B&W	9:04	110° 03'		
		8	R		110° 03'		
		9	Y		110° 03'		
		10	B&W	9:07	110° 03'		
		11	R		110° 03'		
		12	Y		110° 03'		
		13	B&W	9:09	110° 03'		
		14	R		110° 03'		
		15	Y		110° 03'		
		16	B&W	9:14	110° 03'		
		17	R		110° 03'		
		18	Y		110° 03'		

Hightide. Much water Around Instrument. Difficult cond. for working.



RANGE 706+00N

Profile No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. Pg. 71
X-Sec. No. ____ Date ____ Notes Chkd ____ Checked ____ Survey of ____ Survey By H. BLANCHARD J.C.G. Date 12-22-53
Map No. ____ Date ____ Indexed ____ Date ____

76L298 307 10-51

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ENGINEERING BLDG.

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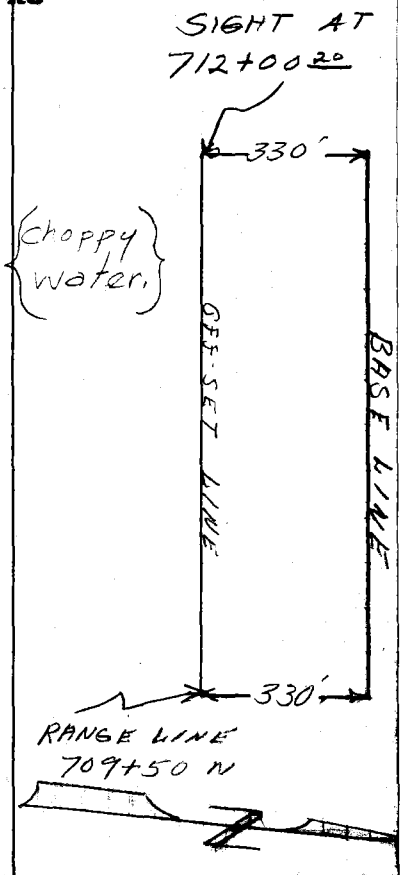
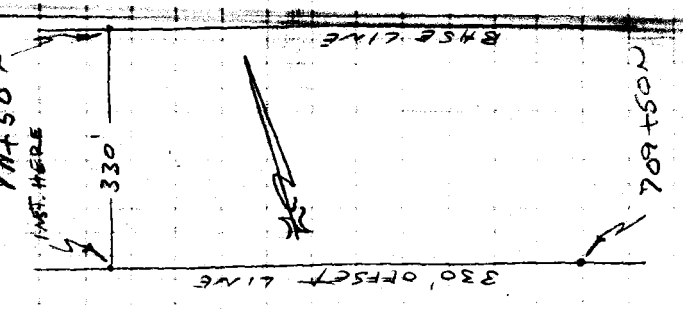
STATION		B. S.	H. I.	F. S.	ELEV.	Range	709+50N
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks	
RANGE 709+50N 709+50N 330' W off.	712+00.20 330' off SET	1	B+W	9:41	89° 40'		
		2	R		90° 00'		
		3	Y		90° 00'		
		4	B+W	9:44	90° 00'		
		5	R		90° 00'		
		6	Y		90° 00'		
		7	B+W	9:46	89° 26'		
		8	R		90° 00'		
		9	Y		90° 00'		
		10	B+W	9:48	90° 00'		
		11	R		90° 00'		
		12	Y		90° 00'		
		13	B+W	9:50	90° 00'		
		14	R		90° 10'		
		15	Y		90° 00'		
		16	B+W	9:52	90° 00'		
		17	R		90° 00'		
		18	Y		90° 00'		
		19	B+W	9:54	90° 00'		
		20	R		90° 00'		



F.B. Pg. 72 Job No. 7412 Division No. Notes Red. Plotted Profile
Survey of [illegible] Date Date No. X-Sec.
Survey by [illegible] Notes J.C.G. Notes Chkd. Checked
Indexed K. C. Johnson Date Date Date No.

Profile	Notes Red.	Plotted	Job No. 8412	Division No.	F. B.	Pg. 73
No.	Date	Date	Survey of BEACH EROSION STUDIES			
X-Sec.	Notes Chkd.	Checked	Survey by F. H. BLANCHARD	Notes J.M.U.	Date 12-22-53	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	

CUT-IN 706+00N



CUT-IN 706+00N

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At OH	#	Color	Time	Hor. Ang.	
709+50N 330' OFFSET	1	B+W	8:58	64°02	
	2	R		60°35	
	3	Y		56°56	
	4	B+W	9:01	54°20	
	5	R		52°22	
	6	Y		50°19	
	7	B+W	9:04	48°52	
	8	R		46°38	
	9	Y		47°04	
	10	B+W	9:07	43°58	
	11	R		41°17	
	12	Y		40°25	
	13	B+W	9:09	37°40	
	14	R		34°21	
	15	Y		30°43	
	16	B+W	9:14	23°57	
	17	R		18°24	
	18	Y		11°36	

711+50N 330' OFFSET

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76L298 307 8-53

F. B. Pg. 74 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

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

Indexed A. C. Johnson Date Date Date No.

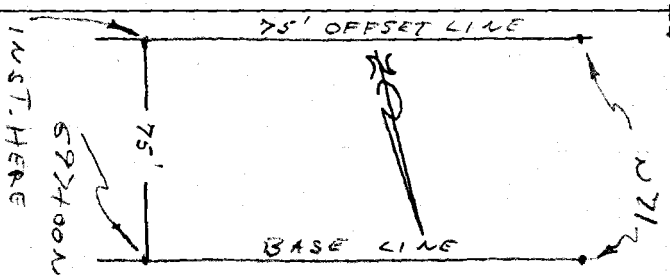
CUT-IN 709+50 N

697+00 N 75' OFFSET

N 71 75' OFFSET

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At					
#	Color	Time	Hor. Ang.		
1	B&W	9:41	61°25		
2	R		59°08		
3	Y		57°20		
4	B&W	9:44	56°28		
5	R		55°37		
6	Y		54°49		
7	B&W	9:46	53°38		
8	R		52°49		
9	Y		51°43		
10	B&W	9:47	50°43		
11	R		49°34		
12	Y		48°35		
13	B&W	9:49	47°45		
14	R		47°57		
15	Y		44°41		
16	B&W	9:52	43°48		
17	R		43°12		
18	Y		42°42		
19	B&W	9:53	41°45		
20	R		41°09		

CUT-IN 709+50 N



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76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		706+00N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks
1	B&W	9:58	33.0 31.9	32.3	6.5	25.8	1459	1217
2	R		29.5 29.7	29.0	6.5	22.5	1305	1063
3	Y		28.9 27.3	27.8	6.5	21.3	1175	933
4	B&W	9:01	26.8 25.9	26.2	6.5	19.7	1096	854
5	R		25.8 23.7	24.4	6.5	17.9	1043	801
6	Y		23.0 21.8	22.2	6.5	15.7	993	751
7	B&W	9:03	23.0 21.7	22.1	6.5	15.6	960	718
8	R		21.0 19.7	20.1	6.5	13.6	912	670
9	Y		21.0 19.8	20.2	6.5	13.7	921	679
10	B&W	9:07	19.7 17.7	18.4	6.5	11.9	860	618
11	R		18.7 16.0	16.9	6.5	10.4	813	571 Rocky Bottom
12	Y		17.1 15.9	16.3	6.5	9.8	798	556
13	B&W	9:09	16.0 15.0	15.3	6.5	8.8	755	513
14	R		16.1 14.5	15.0	6.5	8.5	706	464
15	Y		14.0 13.0	13.3	6.6	6.7	657	415
16	B&W	9:14	11.8 10.9	11.0 ~~11.2~~?	6.6	4.4 ~~4.6~~?	574	332
17	R		9.8 8.0	8.6	6.6	2.0	513	271
18	Y		7.1 6.6	6.8	6.6	0.2	443	201
19	[illegible]							
20	[illegible]							

perpendicular distance from Base Line

Distance from 1935 Transit Line

Not perpendicular to Transit Line

BOAT 706+00N

Profile Notes Red CEM Plotted Job No. 84 Division No.
No. Date 3/4/54 Date Survey by E. H. BLANCHARD
X-Sec. Notes Chkd. Checked Date
No. Date Map No. Red Tobacco Date

76L298 307 4-50

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Profile No. ____ X-Sec. No. ____

Plotted ____ Date ____ Notes Red. GEM Date 3/4/54

Checked ____ Date ____ Notes Chkd. ____ Date ____

Job No. SK-2 Division No. ____ Notes Frank Gradle

Survey of Beach Erosion

Survey by F. H. BLANCHARD Notes ____ Date ____

Indexed C. Johnson Date ____

PS-76

BOAT 709+50N

STATION #	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Perpendicular distance from Base Line	Remarks: Distance from 1935 Transit Line	Not perpendicular to Transit Line
1	Bow	9:40	32.2 / 30.1 / 29.0	30.8	6.6	24.2	1371	1058	
2	R		28.0	28.3	6.6	21.7	1279	966	
3	Y		28.0 / 26.8 / 27.5	27.2	6.6	20.6	1243	930	
4	Bow	9:44	26.0 / 26.6	26.5	6.6	19.9	1179	866	
5	R		24.0 / 25.0	24.9	6.6	18.3	1149	836	
6	Y		23.9 / 24.6	24.3	6.6	17.7	1121	808	
7	Bow	9:46	22.5 / 22.1	23.2	6.6	16.6	1081	768	
8	R		21.0 / 22.5	21.4	6.6	14.8	1054	741	
9	Y		21.0 / 21.1	21.5	6.6	14.9	1019	706	
10	Bow	9:48	20.2 / 20.1	20.5	6.6	13.9	988	675	
11	R		19.1 / 19.9	19.4	6.6	12.8	953	640	
12	Y		18.9 / 18.1	18.6	6.6	12.0	923	610	
13	Bow	9:49	17.0 / 17.1	17.4	6.6	10.8	899	586	
14	R		16.3 / 15.1	16.6	6.6	10.0	881	568	
15	Y		14.5 / 15.0	14.7	6.6	8.1	813	500	
16	Bow	9:51	14.0 / 14.0	14.3	6.6	7.7	789	476	
17	R		13.0 / 15.2	13.3	6.6	6.7	773	460	
18	Y		13.8 / 13.2	14.3	6.6	7.7	760	447	
19	Bow	9:53	12.0 / 13.0	12.4	6.6	5.8	740	427	
20	R		12.0	12.3	6.6	5.7	720	407	

Profile	Notes Red.	Plotted	Job No.	Division No.	F. B.	Pg. 77
No.	Date	Date	Survey of [illegible]			
X-Sec.	Notes Chkd.	Checked	Survey by E. H. [illegible]	Notes J.C.G.	Date 12-22-53	
No.	Date	Date	Map No.	Indexed A. C. Johnson	Date	

RANGE 709+50N

STATION	B. S.	H. I.	F. S.	ELEV.	Range	709+50 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		90°00'		
	22	B&W	9:56	90°00		
	23	K		90°00		
	24	Y		90°00'		
	25	B&W	9:57	90°00'		

712+00 70 N

709+50 N 330' W. off

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76L298 307 8-53

76L298 307 8-53

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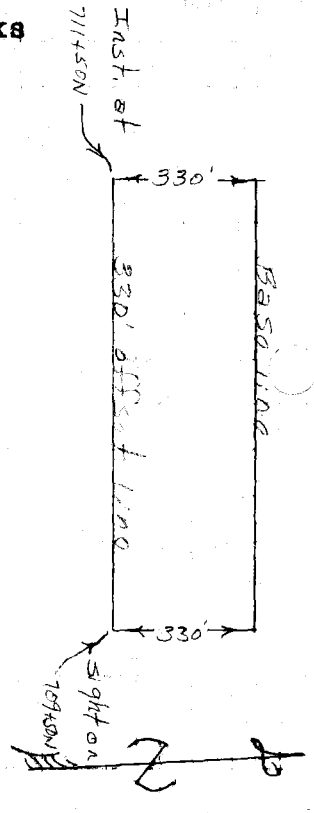
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	Range 711+50N	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
RANGE 711+50N 711+50N 330' W. off	709+50N 330' W. off	1	B&W	10:13	90°50'		
		2	R		90°00'	Rough WATER	
		3	Y		90°00'		
		4	B&W	10:15	90°00'		
		5	R		90°00'		
		6	Y		90°00'		
		7	B&W	10:17	90°00'		
		8	R		90°00'		
		9	Y		90°00'		
		10	B&W	10:19	90°00'		
		11	R		90°00'		
		12	Y		90°00'		
		13	B&W	10:20	90°00'		
		14	R		90°00'		
		15	Y		90°00'		
		16	B&W	10:24	90°00'		
		17	R		90°00'		
		18	Y		90°00'		
		19	B&W	10:26	90°00'		
		20	R		90°00'		



F.B. Pg. 78 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by F. H. BLANCHARD Notes J.C.G. Notes Chkd. Checked X-Sec.
Indexed A. C. Johnson Date Date No.

Profile No. _____ Notes Red _____ Plotted _____ Job No. 8412 Division No. _____ F.B. Pg. 79

Date _____ Date _____ Survey of BEACH EROSION STUDIES

X-Sec. No. _____ Notes Chkd. _____ Checked _____ Survey by F. H. BLANCHARD J.M.U. Date 12-22-53

Date _____ Date _____ Map No. _____ Index C. Johnson Date _____

CUT-IN 709+50 N

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

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

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STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Stmt At Qn	#	Color	Time	Hor. Ang.	CUT-IN 709+50 N
	21	Y		40°23	
	22	BOW	9:55	39°03	
	23	R		38°04	
	24	Y		36°55	
	25	BOW	9:57	35°38	

N71 75' OFFSET

697+00N 75' OFFSET

76L298 307 10-51

76L298 307 10-51

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726 LOS ANGELES COUNTY
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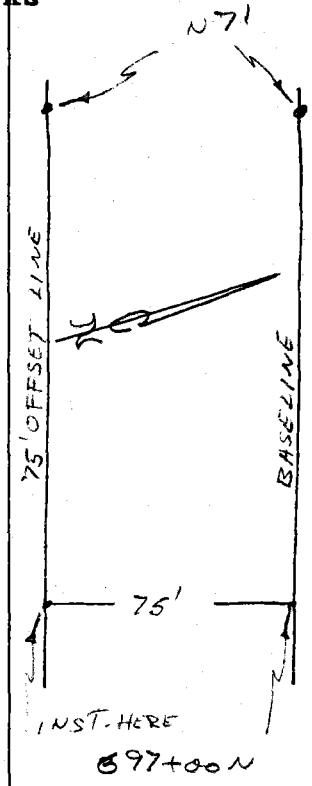
F.B. PG. 80 Job No. 8417 Division No. Notes Red. Plotted. Profile
Survey of BEACH EROSION STUDIES Date. No.
Survey by E. H. BLANCHARD Notes Notes Chkd. Checked. X-Sec.
Indexed K. C. Johnson Date Date. Date. No.

STATION	B. S.	H. I.	F. S.	ELEV.	CUT-IN 7 11+50N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
CUT-IN 711+50N 697+00N 75' OFFSET	1	B&W	10:14	61°23	
	2	R		59°38	
	3	Y		57°22	
	4	B&W	10:16	56°38	
	5	R		55°59	
	6	Y		54°15	
N71 75' OFFSET	7	B&W	10:18	54°32	
	8	R		53°50	
	9	Y		53°09	
	10	B&W	10:19	52°27	
	11	R		51°54	
	12	Y		51°00	
	13	B&W	10:21	50°57	
	14	R		49°13	
	15	Y		48°19	
	16	B&W	10:24	46°24	
	17	R		45°57	
	18	Y		45°31	
	19	B&W	10:25	45°08	
	20	R		44°32	



76L298 307 4-50

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

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BOAT 709+50 N

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
21	Y		11.0 10.9	10.9	6.6	4.3	700	387
22	B&W	9:55	10.9 10.0	10.3	6.6	3.7	667	354
23	R		10.6 8.9	9.5	6.6	2.9	643	330
24	Y		10.5 8.0	8.8	6.6	2.2	615	302
25	B&W	9:57	8.7 7.0	7.6	6.6	1.0	584	271

perpendicular distance from Base Line

Distance from 1935 Transit Line
Not perpendicular to Transit Line

BOAT 709+50 N

Profile Notes Red CEM Plotted Job No. 8417 Division No. F. B. Pg. 81
No. Date 3/4/54 Date Survey of Beach & Rocky Standing
X-Sec. Notes Chkd. Checked Survey No. J. H. BLANCHARD Date
No. Date Date Map No. Mr. G. Johnson Date

76L298 307 4-50

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Do not extend notes this side of this line.

BOAT 711+50N

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks	
1	B&W	10:14	33.2 / 32.4	32.7	6.5	26.2	1568	1214
2	R		31.7 / 31.0	31.2	6.5	24.7	1485	1131
3	Y		30.9 / 28.8	29.5	6.5	23.0	1384	1030
4	B&W	10:16	29.8 / 28.0	28.6	6.5	22.1	1353	999
5	R		29.8 / 28.2	28.7	6.5	22.2	1326	972
6	Y		29.0 / 27.5	28.0	6.5	21.5	1296	942
7	B&W	10:17	28.8 / 27.0	27.6	6.5	21.1	1267	913
8	R		27.0 / 26.0	26.3	6.5	19.8	1240	886
9	Y		26.5 / 25.8	26.0	6.5	19.5	1213	859
10	B&W	10:19	26.1 / 25.0	25.4	6.5	18.9	1187	833
11	R		26.0 / 24.1	24.7	6.5	18.2	1166	812
12	Y		25.6 / 24.1	24.6	6.5	18.1	1133	779
13	B&W	10:20	26.0 / 23.2	23.8	6.5	17.3	1101	747 Rocky Bottom
14	R		23.2 / 21.6	22.1	6.5	15.6	1070	716
15	Y		22.0 / 20.0	20.7	6.4	14.3	1039	685
16	B&W	10:24	21.0 / 19.0	19.7	6.4	13.3	975	621
17	R		19.1 / 17.9	18.3	6.4	11.9	960	606
18	Y		18.5 / 17.0	17.5	6.4	11.1	946	592
19	B&W	10:26	18.0 / 17.0	17.3	6.4	10.9	934	580
20	R		18.5 / 16.0	16.8	6.4	10.4	915	561

BOAT 711+50N

perpendicular distance from Base Line

Distance from 1935 Transit Line
Not perpendicular to Transit Line

F. B. Pg. 82 Job No. Division No. Notes Red. CEM Date 3/4/54 Plotted Date No. Profile
Survey of Survey by F. H. BLANCHARD Notes Checked Date No. X-Sec.
Indexed C. J. Date

76L298 307 10-51

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE 711+50 N	
Last Sight On	#	Color	Time	Hor. Ang.	Remarks	
711+50-N 330' OFF	21	Y		90°00		
	22	B&W	10:28	90°00	ROUGH WATER	
709+50-N 330' OFF	23	R		90°00		
	24	Y		90°00		
	25	B&W	10:30	90°00		
	26	R		90°00		
	27	Y		90°00		
	28	B&W	10:32	90°00		
	29	R		90°00		
	30	Y		90°00		
	31	B&W	10:34	90°00		
	32	R		90°00		

RANGE 711+50 N

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8417 Division No. ____ F.B. ____ Pg. 83
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by F. H. BLANCHARD ER Date 12-22-53
Map No. ____ Date ____ Indexed ____ Date ____

76L298 307 10-51

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ENGINEERING BLDG.

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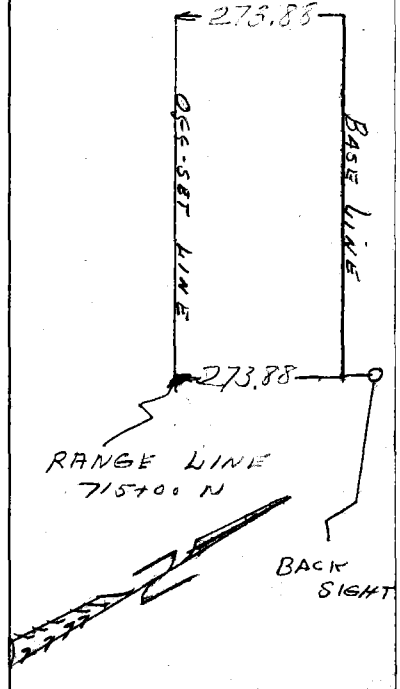
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	715+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
RANGE 715+00 N 115+00 N 273.88	715+00 3456 B.S.	1	B+W	10:50	90°00'		
		2	R		90°00'		
		3	Y		90°00'		
		4	B+W	10:54	90°00'		
		5	R		90°00'		
		6	Y		90°01'		
		7	B+W	10:55	90°00'		
		8	R		90°00'		
		9	Y		89°47'		
		10	B+W	10.57	90°00'		
		11	R		90°00'		
		12	Y		90°00'		
		13	B+W	10:58	90°00'		
		14	R		90°00'		
		15	Y		90°00'		
		16	B+W	11:00	90°00'		
		17	R		90°00'		
		18	Y		90°00'		
		19	B+W	11:02	90°00'		
		20	R		90°00'		



F.B. Pg. 84 Job No. 841V Division No. 5 Notes Red. Plotted
Survey of BEACH EROSION STUDIES Date Date No.
Survey by F. H. BLANCHARD Notes ROBBINS Notes Chkd. Checked X-Sec.
Indexed A. C. Johnson Date Date Date No.
Profile

76L298 307 10-51

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ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	CUT-IN	711+50N
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		42°21		
		22	B&W	10:29	41°46		
		23	R		40°58		
		24	Y		40°35		
		25	B&W	10:31	39°54		
		26	R		39°46		
		27	Y		38°39		
		28	B&W	10:33	38°07		
		29	R		37°40		
		30	Y		37°47		
		31	B&W	10:35	37°25		
		32	R		37°06		

697+00N 75' OFFSET

N71 75' OFFSET

CUT-IN 711+50N

Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. ____ Pg. 85
X-Sec. ____ Date ____ Notes Chkd ____ Checked ____ Survey of BEACH EROSION STUDIES
No. ____ Date ____ Date ____ Survey by ____ Notes J.M.V. Date 12-22-53
Map No. ____ Indexed J. Johnson Date ____

76L298 307 10-51

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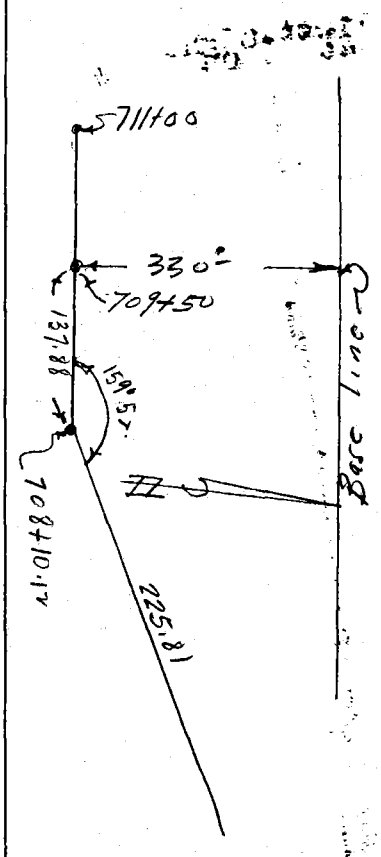
CUT-IN 715+00N

STATION		B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.	
CUT-IN 715+00N 709+50N 330' offset	330' offset 711+00N	1	B&W	10 51	65° 32'	
		2	R		63° 50'	
		3	Y		62° 12'	
		4	B&W	10:54	60° 23'	
		5	R		58° 12'	
		6	Y		57° 43'	
		7	B&W	10:56	57° 27'	
		8	R		56° 58'	
		9	Y		56° 45'	
		10	B&W	10 57	55° 51	
		11	R		55° 27	
		12	Y		54° 53	
		13	B&W	10 59	54° 09	
		14	R		53° 29	
		15	Y		52° 49	
		16	B&W	11 01	52° 13'	
		17	R		51° 21	
		18	Y		50 56	
		19	B&W	11 02	50° 33'	
		20	R		49 37	



F.B. Pg. 86 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH EROSION STUDIES Date Date X-Sec.
Survey by Notes Checked
Indexed C. Johnson Date Date No.

76L298 307 4-50

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BOAT 711+50 N

STATION #	Color	Time	B. S.	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks		
21	Y			17.8 / 15.9	16.5	6.4	10.1	847	493	
22	B&W	10:28		15.9 / 14.6	15.0	6.4	8.6	829	475	
23	R			14.7 / 13.0	13.6	6.4	7.2	805	451	
24	Y			14.8 / 12.7	13.4	6.4	7.0	794	440	
25	B&W	10:30		13.0 / 11.0	11.7	6.4	5.3	774	420	
26	R			14.0 / 11.7	12.5	6.4	6.1	770	416	
27	Y			12.1 / 11.0	11.4	6.3	5.1	738	384	
28	B&W	10:32		12.0 / 10.0	10.7	6.3	4.4	722	368	
29	R			11.0 / 10.0	10.3	6.3	4.0	710	356	
30	Y			12.8 / 10.0	10.9	6.3	4.6	713	359	
31	B&W	10:34		11.2 / 9.5	10.1	6.3	3.8	703	349	
32	R			11.6 / 8.0	9.2	6.3	2.9	694	340	

perpendicular distance from Base Line

Distance from 1935 Transit Line

Not perpendicular to Transit Line

BOAT 711+50 N

Profile Notes Red CEM Plotted Job No. 8 Division No. 6 F. B. 8
No. Date 3/4/54 Date Survey of LA CO. DEPARTMENT Page
X-Sec. Notes Chkd. Checked Map No. Date
No. Date Date Date

76L298 307 4-50

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24' - 1042

Do not extend notes this side of this line.

Profile No. ____ X-Sec. No. ____

Plotted ____ Date ____ Checked ____ Date ____

Notes Red. CEM Date 3/4/54 Notes Chkd. ____ Date ____

Division No. ____ Job No. 8412 Notes ____ Date ____

Page 8 F. B. ____

Survey of Reef Point Marina Entrance

Survey by F. H. BLANCHARD

Indexed R. A. Johnson

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT 715+00 N		
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
1	Bow	10.51	34.0 / 32.9	33.3	6.1	27.2	1539	1240
2	R		32.3 / 31.0	31.4	6.1	25.3	1424	1125
3	Y		30.0 / 28.8	29.2	6.1	23.1	1373	1074
4	Bow	10.53	29.0 / 27.8	28.2	6.1	22.1	1298	999
5	R		27.3 / 24.8	25.6	6.1	19.5	1217	918
6	Y		26.0 / 24.7	25.1	6.1	19.0	1200	901
7	Bow	10.55	25.2 / 24.0	24.4	6.1	18.3	1192	893
8	R		25.2 / 23.8	24.3	6.1	18.2	1176	877
9	Y		24.5 / 22.9	23.4	6.1	17.3	1169	870
10	Bow	10.57	23.6 / 22.0	22.5	6.1	16.4	1143	844
11	R		23.5 / 21.9	22.4	6.0	16.4	1129	830
12	Y		23.2 / 20.8	21.6	6.0	15.6	1112	813
13	Bow	10.59	23.6 / 21.5	22.2	6.0	16.2	1091	792
14	R		23.0 / 21.6	22.1	6.0	16.1	1073	774
15	Y		21.8 / 20.5	20.9	6.0	14.9	1055	756
16	Bow	11.00	22.0 / 20.0	20.7	6.0	14.7	1039	740
17	R		22.1 / 20.2	20.8	6.0	14.8	1018	719
18	Y		19.9 / 19.0	19.3	6.0	13.3	1008	709
19	Bow	11.02	21.1 / 19.9	20.3	6.0	14.3	998	699
20	R		20.1 / 19.1	19.4	6.0	13.4	977	678

Perpendicular distance from Base Line

Distance from 1935 Transit Line

Not perpendicular to Transit Line

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	715+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
715+00 N 27388 OFF	715+00 N 27388 OFF	21	Y		90°00'		
		22	B+W	11:03	90°00'		
		23	R		90°00'		
		24	Y		90°00'		
		25	B+W	11.06	90°00'		
		26	R		90°00'		
		27	Y		90°00'		
		28	B+W	11:08	90°00'		
		29	R		90°00'		
		30	Y		90°00		
		31	B+W	11:11	90°00'		
		32	R		90°00'		
		33	Y		90°00'		
		34	B+W	11:13	90°00'		
		35	R		90°00'		
		36	Y		90°00'		
		37	B+W	11:15	90°00'		
		38	R		90°00'		

RANGE 715+00N

Profile Notes Red. ____ Plotted ____ Job No. P412 Division No. ____ F. B. Pg. 89
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chkd. ____ Checked ____ Survey by H. BLANCHARD Notes ER Date 12-22-53
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

E.B. Pg. 90 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by F. H. BLANCHARD Notes Notes Chkd. Checked X-Sec.

Indexed ~~L. C. Johnson~~ Date Date Date No.

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

76L298 307 8-53

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 10-51

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ENGINEERING BLDG.

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Do not extend notes this side of this line.

Cut IN 715+00N

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
709+50N 330' offset	711+00N 330' offset	21	Y		48°22'	
		22	B&W	1105	47°51'	
		23	R		47°24'	
		24	Y		45°00'	
		25	B&W	1107	43°54'	
		26	R		42°33'	
		27	Y		42°01'	
		28	B&W	1110	40°38'	
		29	R		39°36'	
		30	Y		38°43'	Seaweed.
		31	B&W	1112	37°12'	
		32	R		36°19'	
		33	Y		34°57'	
		34	B&W	1113	34°53'	
		35	R		33°24'	
		36	Y		31°48'	
		37	B&W	1115	31°33'	
		38	R		26°40'	

CUT-IN 715+00N

Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____
X-Sec. Notes Chkd ____ Checked ____ Survey of [illegible] Notes FHB Date 12-22-53
No. ____ Date ____ Date ____ Survey by ____ Map No. ____ Indexed ____ Date ____

F.B. Pg. 91

F.B. PG. 92 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date 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.	Remarks
Inst. Sight At OH	#	Color	Time	Hor. Ang.	

Do not extend notes this side of this line.

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.

76L29B 307 10-51

76L298 307 4-56

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STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	715+00 N	
#	Color	Time	Meas. Depth	Bottom Table	Adj. Depth	Perpendicular distance from Base Line	Remarks
21	Y	11:04	18.9	18.3	6.0	12.3	949	650
22	B&W		18.0	18.7	5.9	12.8	938	639
23	R		19.1	17.7	5.9	11.8	928	629
24	Y		18.0	16.7	5.9	10.8	880	581
25	B&W	11:07	17.1	16.4	5.9	10.5	859	560
26	R		16.0	14.2	5.9	8.3	835	536 MAY HAVE BEEN BY ROW
27	Y		15.3	15.5	5.9	9.6	826	527
28	B&W	11:09	17.4	15.0	5.9	9.1	802	503
29	R		13.8	14.3	5.9	8.4	785	486
30	Y		13.5	14.1	5.9	8.2	771	472
31	B&W	11:11	13.2	11.6	5.9	5.7	747	448
32	R		12.9	12.7	5.8	6.9	734	435
33	Y		11.0	12.3	5.8	6.5	714	415
34	B&W	11:13	14.1	12.7	5.8	6.9	713	414
35	R		12.0	11.6	5.8	5.8	693	394
36	Y		12.9	10.6	5.8	4.8	671	372
37	B&W	11:15	11.0	10.9	5.8	5.1	668	369
38	R		11.4	8.6	5.8	2.8	606	307

Distance from 1935 Transit Line
Not perpendicular to Transit Line

BOAT 715+00 N

Profile
Notes Red CEM 3/5/54 Plotted
Notes Check Date Date Check Date
Job No. 941
Map No. Division No.
Date
F. B.

F. S. Pg. 94 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by F. H. BLANCHARD Notes Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

76L298 307 4-50

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Do not extend notes this side of this line.

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

76F309S 247 4-53

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

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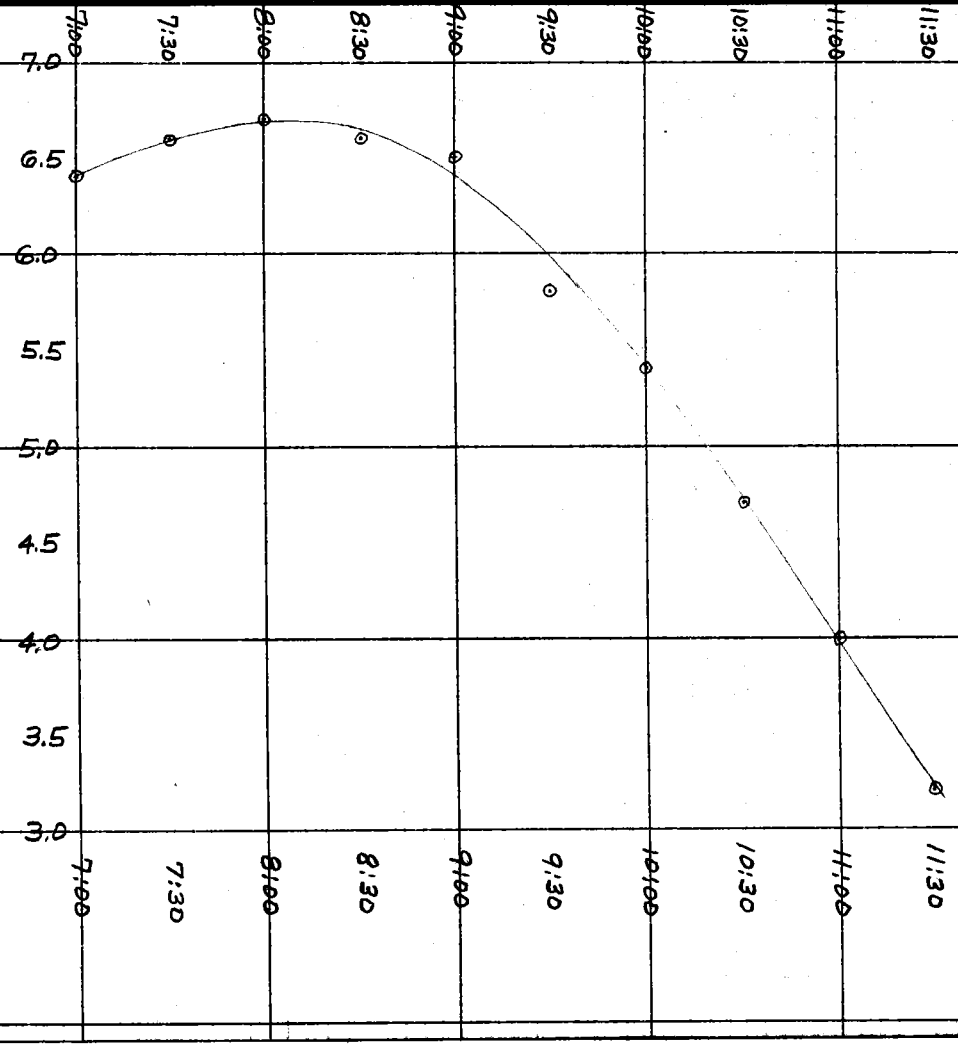
January 4, 1954



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

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

F. B. 1508 PG.

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

F.B. _____ PG. _____

Notes Ck'd by	Survey of
Map No.	W. O. Tape No. St'd. °F
Office Work	Surveyed by
Checked	Notes C. Johnson Date
Date	Indexed 1-28-54

F. B. Pg. 95

TIDE GAGE

STANDARD TIME JAN. 4, 1954

HOUR	TIDE
700	6.4
730	6.6
800	6.7
830	6.6
900	6.5
930	5.8
1000	5.4
1030	4.7
1100	4.0
1130	3.2

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726 LOS ANGELES COUNTY
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78F3095 247 4-53

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F. B. _____ PG. 76

76L298 307 4-50

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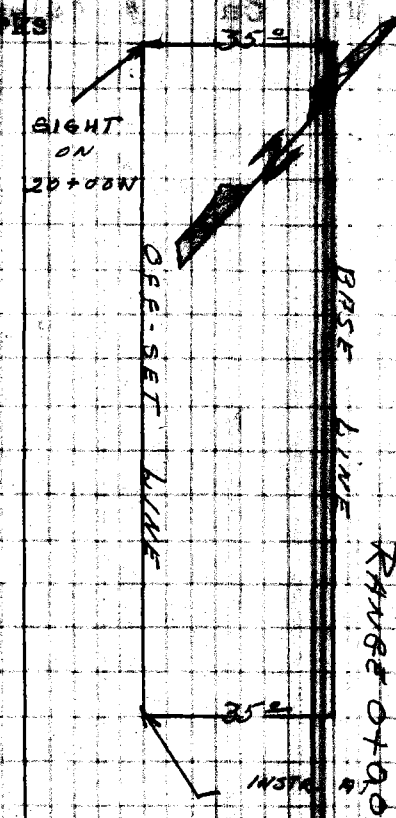
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	0+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		1.	B+W	8.07	90°00'		
		2.	R		90°00'		
		3.	Y		90°00'		
		4.	B+W	8.10	90°00'		
		5	R		90°00'		
		6	Y		89°42'		
		7	B+W	8.13	90°00'		
		8	R		90°00'		
		9	Y		90°00'		
0+00 N	20+00 N	10	B+W	8.16	90°00'		
		11	R		90°00'		
		12	Y		90°00'		
		13	B+W	8.18	90°00'		
		14	R		90°00'		
		15	Y		90°00'		
		16	B+W	8.21	90°00'		
		17	R		90°00		
		18	Y		90°00		
		19	B+W	8.23	90°00		



Profile Notes Red. Plotted Job No. 2412 Division No.
No. Date Date Survey of Beach Erosion Studies
N. Sec. Notes Chkd. Checked Survey by [illegible] Date [illegible]
No. Date Date Map No. Indexed Job Date 1-28-58

F. B. Pg. 97

76L298 307 4-50

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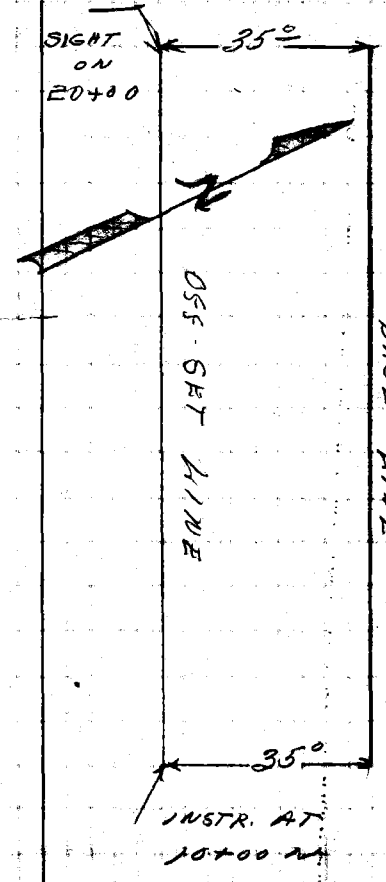
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. Sight At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	RANGE	10+00-N- Remarks
RANGE 10+00N 10+00-N-	20+00 N	1.	B+W	8.45	90°00'		
		2.	R		90°00'		
		3.	Y		90°00'		
		4	B+W	8.48	90°00'		
		5	R		90°00'		
		6	Y		90°00'		
		7	B+W	8.50	90°00'		
		8	R		90°00'		
		9.	Y		90°00'		
		10	B+W	8.54	90°00'		
		11	R		90°00'		
		12	Y		90°00'		
		13	B+W	8.57	90°00'		
		14	R		90°00'		
		15	Y		90°00'		
		16	B+W	8.59	91°30'		
		17	R		90°00'		



F. B. Pg. 98
Surveyed by Abeach
Surveyed by E.H.B.
Indexed K. C. Johnson
Job No. 3412 Division No. Ferrosion Studies
Notes Red. Date Plotted Date No.
Notes Chkd. Date Checked Date No.
Profile X-Sec.

76L298 307 10-51

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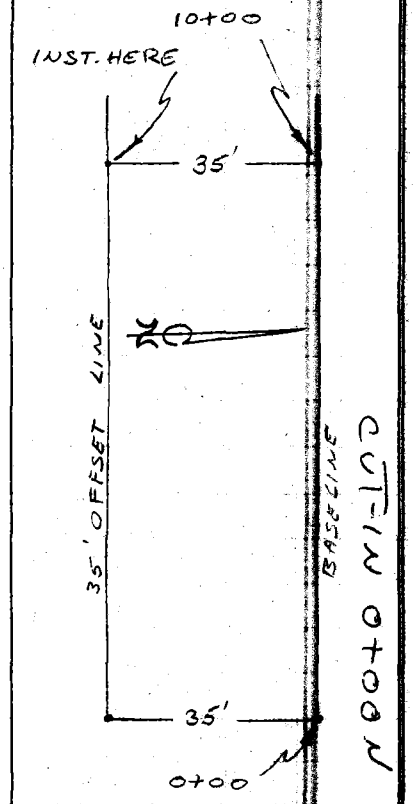
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	CUT-IN 0+00
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
		1	B&W	8:07	33°37	
		2	R		32°05	
		3	Y		29°54	
		4	B&W	8:10	27°55	
		5	R		26°04	
		6	Y		24°53	
		7	B&W	8:13	22°50	
		8	R		21°22	
		9	Y		19°23	
		10	B&W	8:16	17°58	
		11	R		16°09	
		12	Y		16°27	
		13	B&W	8:19	16°19	
		14	R		14°37	
		15	Y		14°09	
		16	B&W	8:21	13°47	
		17	R		12°28	
		18	Y		11°29	
		19	B&W	8:23	11°03	



35' OFFSET

35' OFFSET

10+00

0+00

Profile No. ____ Notes Red ____ Plotted ____ Job No. 2412 Division No. ____ F.B. Pg. 99

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

Notes Chkd ____ Checked ____ Survey By H. BLANCHARD Date 1-4-54

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

76L298 307 10-51

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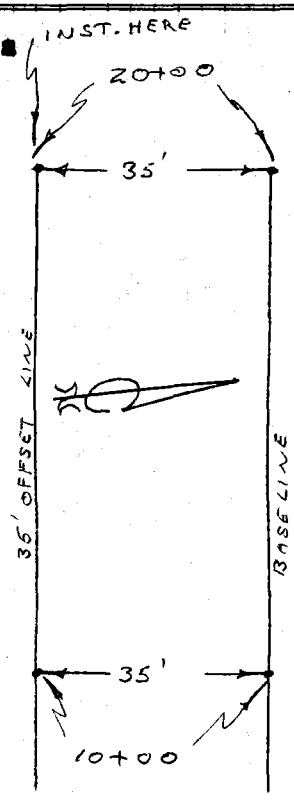
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	CUT-IN 10+00

Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
CUT-IN 10+00 N 20+00 35' OFFSET	10+00 35' OFFSET	1	B&W	8:45	41° 35	
		2	R		40° 19	
		3	Y		38° 50	
		4	B&W	8:49	36° 39	
		5	R		34° 47	
		6	Y		32° 44	
		7	B&W	8:51	30° 31	
		8	R		28° 09	
		9	Y		26° 01	
		10	B&W	8:54	23° 41	
		11	R		21° 38	
		12	Y		19° 25	
		13	B&W	8:57	17° 14	
		14	R		15° 19	
		15	Y		13° 46	
		16	B&W	9:00	12° 21	
		17	R		10° 38	



F.B. PG. 100 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH EROSION STUDY Date Date X-Sec.
Survey by H. B. ANCHARD Notes J.M.U. Notes Chkd. Checked No.
Indexed K. C. Johnson Date Date Date

76L298 307 8-53

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		0+00 M.C.
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks
1	BxW	8:07	29.1 28.0	28.4	6.7	21.7	700	665+35 LINE Bowed
2	R		28.1 27.0	27.4	6.7	20.7	662	627
3	Y		27.1 25.0	25.7	6.7	19.0	610	575
4	BxW	8:10	25.0 24.2	24.5	6.7	17.8	565	530
5	R		24.1 23.2	23.5	6.7	16.8	524	489
6	Y		22.8 22.0	22.3	6.7	15.6	499	~~464~~
7	BxW	8:13	21.0 20.0	20.3	6.7	13.6	456	421
8	R		20.3 19.2	19.6	6.7	12.9	426	391
9	Y		19.0 18.0	18.3	6.7	11.6	387	352
10	BxW	8:16	17.0 16.0	16.3	6.7	9.6	359	324
11	R		14.4 13.0	13.5	6.7	6.8	325	290
12	Y		14.6 13.0	13.5	6.7	6.8	330	295
13	BxW	8:19	15.0 13.0	13.7	6.7	7.0	327	292
14	R		12.8 11.7	12.1	6.7	5.4	296	261
15	Y		12.0 10.3	10.9	6.7	4.2	287	252
16	BxW	8:21	11.0 10.1	10.4	6.7	3.7	280	245
17	R		10.8 9.0	9.6	6.7	2.9	256	221
18	Y		9.1 8.5	8.7	6.7	2.0	238	203
19	BxW	8:23	10.2 8.1	8.8	6.7	2.1	230	195
20	R							

BOAT 0+00 N

Profile Notes Red CEM Plotted Job No. 8412 Division No.
No. Date 3/5/54 Date Survey of
X-Sec. Notes Chkd. Checked Survey By F. U. BLANCHARD Notes A.S. Date 1-4-53
No. Date Date Map No. Indexed Johnson Date

F. B. Pg. 101

76L298 307 8-53

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F. B. Pg. 1 of 2 Profile No. X-Sec. No.

Survey of [illegible] Job No. 2-12 Division No. [illegible] Plotted Notes Red. CEM

Survey by F. H. BLANCHARD Notes A.S. Date 3/5/54 Date Notes Chkd. Checked

Indexed C. Tabisola Date Date Date

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT		10+00 M.C.
# Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
1 Brw	8:45	38.0 32.5	32.7	6.5	26.2	922	887 + 35
2 R		32.0 31.5	31.7	6.5	25.2	884	849
3 Y		31.8 30.7	31.1	6.5	24.6	840	805
4 Brw	8:48	29.9 29.2	29.4	6.5	22.9	779	744
5 R		29.0 28.1	28.4	6.5	21.9	730	695
6 Y		29.0 27.9	28.3	6.5	21.8	678	643
7 Brw	8:50	27.1 26.0	26.4	6.5	19.9	648	613
8 R		26.0 24.8	25.2	6.5	18.7	570	535
9 Y		23.9 22.5	23.0	6.5	16.5	523	488
10 Brw	8:54	22.0 21.2	21.5	6.5	15.0	474	439
11 R		20.7 19.8	20.1	6.5	13.6	432	397
12 Y		18.8 17.2	17.7	6.5	11.2	387	352
13 Brw	8:56	16.2 15.0	15.4	6.4	9.0	345	310
14 R		13.2 12.5	12.7	6.4	6.3	309	274
15 Y		12.0 10.3	10.9	6.4	4.5	280	245
16 Brw	8:59	10.2 8.5	9.1	6.4	2.7	254	219
17 R		8.5 7.8	8.0	6.4	1.6	223	188
18 Y							
19 Brw	9:						
20 R							

BOAT 10+00 N

76L298 307 10-51

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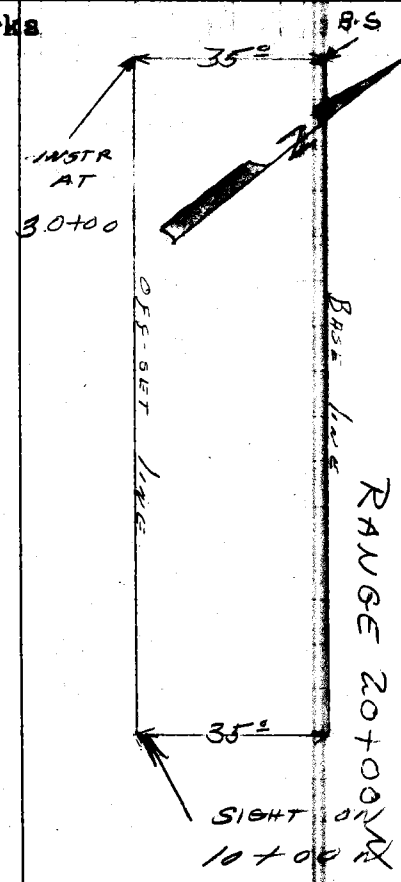
STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	20+00 -N-
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
20+00 N- 35° OFF-SET	35° OFF-SET 10+00	1.	B&W	9:19	90°00'		
		2.	R		90°00'		
		3.	Y		90°00'		
		4	B&W	9:22	90°00'		
		5	R		90°00'		
		6	Y		90°00'		
		7	B&W	9:26	90°28'		
		8	R		90°00'		
		9	Y		90°00'		
		10	B&W	9:30	90°00'		
		11	R		90°00'		
		12	Y		90°00'		
		13	B&W	9:32	90°00'		
		14	R		90°00'		
		15	Y		90°00'		
		16	B&W	9:35	90°00		



Profile No. ____ Notes Red ____ Plotted ____ Job No. 5712 Division No. ____ F.B. Pg. 103

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

Notes Chkd ____ Checked ____ Survey by E. H. BLANCHARD, E.R. Date 1-4-54

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

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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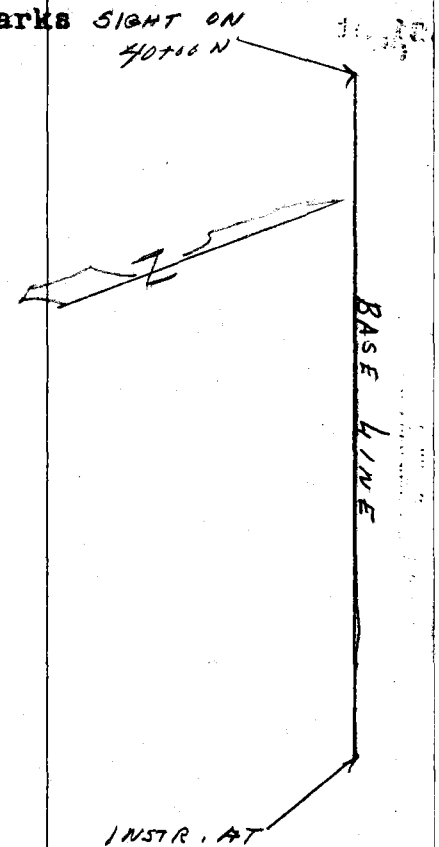
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Range	30+00
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	1	B+W	9:47	90°00'		
	2	R		90°00'		
	3	Y		90°00'		
	4	B+W	9:50	90°00'		
	5	R		90°00'		
	6	Y		90°00'		
	7	B+W	9:54	90°00'		
	8	R		90°00'		
	9	Y		90°00'		
	10	B+W	9:58	90°00'		
	11	R		90°00'		
	12	Y		90°00'		
	13	B+W	10:03	90°00'		
	14	R		90°00'		
	15	Y		90°00'		
	16	B+W	10:05	90°00'		
	17	R		90°00'		
	18	Y		90°00'		
	19	B+W	10:07	90°00'		

30+00 N

RANGE 30+00 N

40+00 N



F.B. PG. 104 Job No. 7412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDY Date Date No. X-Sec.
Survey by Notes J.C.G. Notes Chkd. Checked
Indexed K. C. Johnson Date Date Date No.

76L298 307 10-51

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

CUT-IN 20+00

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1	B&W	9:19	38°18	
	2	R		36°40	
	3	Y		35°07	
	4	B&W	9:22	34°01	
	5	R		32°08	
	6	Y		30°19	
	7	B&W	9:26	28°45	
	8	R		27°05	
	9	Y		25°38	
	10	B&W	9:29	23°37	
	11	R		21°34	
	12	Y		19°42	
	13	B&W	9:32	17°53	
	14	R		15°26	
	15	Y		13°02	
	16	B&W	9:35	12°15	

30+00 BASELINE

20+00 BASELINE

CUT-IN 20+00

Profile No. ____ Notes Red ____ Plotted ____ Job No. 842 Division No. ____ F.B. ____

X-Sec. No. ____ Date ____ Date ____ Survey of ____ Pg. 105

Notes Chkd ____ Checked ____ Survey by [illegible] Date 1-4-54

Date ____ Date ____ Map No. ____ Indexed [illegible] Date ____

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	CUT-IN 30+00
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
CUT-IN 30+00 N 40+00 BASELINE	30+00 BASELINE	1	B&W	9:47	37°18	
		2	R		37°35	
		3	Y		36°10	
		4	B&W	9:50	34°19	
		5	R		33°01	
		6	Y		29°37	
		7	B&W	9:54	28°56	
		8	R		27°50	
		9	Y		25°57	
		10	B&W	9:59	22°53	
		11	R		22°12	
		12	Y		20°03	
		13	B&W	10:03	19°11	
		14	R		17°53	
		15	Y		15°28	
		16	B&W	10:05	14°17	
		17	R		13°18	
		18	Y		12°17	
		19	B&W	10:07	12°00	

Profile No. X-Sec. No.
Plotted Date Checked Date
Notes Red. Date Notes Chkd. Date
Division No. Notes J.M.U. Date
Job No. 7112
Survey of BEACH EROSION STUDY
Survey by E. H. [illegible]
Indexed C. Johnson
PG. 106

76L298 307 8-53

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

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		20+00 MC.
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
1	Bxw	9:20	31.0 30.0	30.3	6.1	24.2	752	
2	R		30.7 29.9	30.2	6.1	24.1	710	
3	Y		30.7 29.0	29.6	6.1	23.5	670	
4	Bxw	9:22	28.1 27.0	27.4	6.1	21.3	647	
5	R		26.9 25.0	25.6	6.1	19.5	603	
6	Y		25.2 24.3	24.6	6.1	18.5	563	
7	Bxw	9:26	24.0 23.0	23.3	6.0	17.3	529	
8	R		23.0 21.9	22.3	6.0	16.3	493	
9	Y		22.0 21.0	21.3	6.0	15.3	465	
10	Bxw	9:29	20.0 18.8	19.2	6.0	13.2	425	
11	R		18.9 16.7	17.4	6.0	11.4	386	
12	Y		15.7 15.0	15.2	6.0	9.2	340	
13	Bxw	9:32	13.2 12.0	12.4	6.0	6.4	316	
14	R		10.7 9.9	10.2	5.9	4.3	261	
15	Y		8.8 7.5	7.9	5.9	2.0	227	
16	Bxw	9:34	7.7 6.4	6.8	5.9	0.9	212	
17	R							
18	Y							
19	Bxw	9:						
20	R							

BOAT 20+00 N

Profile Notes Red CEM Plotted Job No. 2412 Division No.
No. Date 3/5/54 Date Survey of
X-Sec. Notes Chkd. Checked Survey by H. BLANCHARD Notes AS Date 1-4-54
No. Date Date Map No. Indexed C. Johnson Date

F. B. Pg. 107

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

Profile No. X-Sec. No.

Plotted CEM Date 3/5/54 Checked Date

Notes Red Date Notes Chkd. Date

Division No. Job No. Notes Date

Survey of BERKO ERO Survey by F. H. BLANCHARD Indexed R. C. Johnson

F. B. Pg. 108

STATION: BOAT 30+00 C.M.

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	BrW	9:47	31.0 29.8	30.2	5.7	24.5	818
2	R		30.1 29.0	29.4	5.7	23.7	770
3	Y		30.0 28.6	29.1	5.6	23.5	731
4	BrW	9:50	28.6 27.0	27.5	5.6	21.9	683
5	R		27.7 27.0	27.2	5.6	21.6	650
6	Y		25.0 24.0	24.3	5.6	18.7	576
7	BrW	9:54	25.9 24.1	24.7	5.5	19.2	553
8	R		24.8 24.0	24.1	5.5	18.6	528
9	Y		23.0 21.9	22.3	5.5	16.8	469
10	BrW	9:58	21.8 20.0	20.6	5.5	15.1	422
11	R		20.0 18.1	18.7	5.4	13.3	408
12	Y		17.0 15.9	15.7	5.4	10.3	365
13	BrW	10:03	15.7 14.0	14.6	5.3	9.3	348
14	R		14.0 12.0	12.7	5.3	7.4	323
15	Y		11.2 10.1	10.5	5.3	5.2	277
16	BrW	10:05	10.0 9.0	9.3	5.3	4.0	264
17	R		9.0 7.8	8.2	5.3	2.9	236
18	Y		10.0 7.0	8.0	5.3	2.7	230
19	BrW	10:07	8.0 6.7	7.1	5.3	1.8	213
20	R						

76L298 307 8-53

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STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	40+00-N-
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	40+00N Inst. at
40+00N Baseline	30+00N Baseline	1	B&W	10:19	90° 00'		
		2	R		90° 00'		
		3	Y		90° 00'		
		4	B&W	10:21	90° 00'		
		5	R		90° 00'		
		6	Y		90° 00'		
		7	B&W	10:24	90° 00'		
		8	R		90° 00'		
		9	Y		90° 00'		
		10	B&W	10:27	90° 00'		
		11	R		90° 00'		
		12	Y		90° 00'		
		13	B&W	10:30	90° 00'		30+00N Sight on
		14	R		90° 00'		
		15	Y		90° 00'		
		16	B&W	10:34	90° 00'		
		17	R		90° 00'		
		18	Y		90° 00'		
		19	B&W	10:36	90° 00'		
		20	R		90° 00'		

Baseline

RANGE 40+00N

Profile Notes Red. Plotted Job No. 747 Division No.
No. Date Date Survey of [illegible]
X-Sec. Notes Chkd. Checked Survey by [illegible] Notes J.C.G. Date 1-4-54
No. Date Date Map No. Andered Johnson Date

F. B. Pg. 109

F. B. Pg. 110 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of BEACH EROSION STUDY Date Date No.

Survey by E. H. BLANCHARD Notes J.C.G. Notes Chkd. Checked X-Sec.

Indexed E. C. Johnson Date Date Date No.

RANGE 40+00N

40+00N Baseline

30+00N Baseline

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight Pt	#	Color	Time	Hor. Ang.	
	21	Y			
	22	Blu	10:39		
	23	R			
	24	Y			
					Range
					40+00N

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	CUT-IN 40+00	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
30+00 BASELINE	40+00 BASELINE	1	B&W	10:19	48°28		
		2	R		47°50		
		3	Y		46°55		
		4	B&W	10:21	45°40		
		5	R		44°30		
		6	Y		42°41		
		7	B&W	10:24	41°11		
		8	R		39°07		
		9	Y		37°32		
		10	B&W	10:27	34°35		
		11	R		33°01		
		12	Y		30°44		
		13	B&W	10:31	28°23		
		14	R		25°53		
		15	Y		24°03		
		16	B&W	10:34	22°26		
		17	R		21°53		
		18	Y		20°21		
		19	B&W	10:36	19°47		
		20	R		17°57		

CUT-IN 40+00 N

Profile Notes Red. ____ Plotted ____ Job No. 7412 Division No. ____ F. B. Pg. 111
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chkd. ____ Checked ____ Survey by F. H. [illegible] Mining U.M.U. Date 1-4-54
No. ____ Date ____ Date ____ Map No. ____ Indexed [illegible] Date ____

F. B. Pg. 112 Job No. 2413 Division No. Notes Red. Plotted Profile

Survey of BEACH EROSION STUDY Date Date No.

Survey by F. H. BLANCHARD Notes J.M.U. Notes Chkd. Checked X-Sec.

Indexed R. C. Johnson Date Date Date No.

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
30+00 BASELINE	21	Y		16 56	
CUT-IN 40+00 N	22	BGW	10:39	15 57	
40+00 BASELINE	23	R		16 21	
	24	Y		17 15	
					CUT-IN 40+00

76L298 3O7 8-53

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Do not extend notes this side of this line.

Profile Notes Red CEM Plotted ____ Job No. 7-1-1 Division No. ____ F. B. ____
No. 2 Sec. Date 3/5/54 Date ____ Survey by [illegible] Pg. 11
No. Notes Chkd ____ Checked ____ Map No. ____ Date ____
No. Date ____ Date ____

STATION	B. S.	H. I.	F. S.	ELEV.	BOT.	40+00

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks
1	B&W	10:18	[illegible]	31.9	5.0	26.9	1129	Rocky
2	R		[illegible]	31.6	5.0	26.6	1104	BOTTOM
3	Y		[illegible]	30.6	5.0	25.6	1069	
4	B&W	10:21	[illegible]	29.8	4.9	24.9	1024	
5	R		[illegible]	29.4	4.9	24.5	983	
6	Y		[illegible]	28.9	4.9	24.0	922	
7	B&W	10:24	28.0	28.4	4.9	23.5	875	
8	R		28.0	28.5	4.8	23.7	813	
9	Y		26.8	27.3	4.8	22.5	768	
10	B&W	10:27	25.3	25.8	4.8	21.0	689	
11	R		24.2	24.6	4.8	19.8	650	
12	Y		24.4	24.6	4.7	19.9	595	
13	B&W	10:31	23.2	23.7	4.7	19.0	540	
14	R		21.9	22.1	4.7	17.4	485	
15	Y		18.3	19.0	4.7	14.3	467	
16	B&W	10:34	16.5	16.8	4.6	12.2	413	
17	R		16.0	16.4	4.6	11.8	402	
18	Y		13.7	13.9	4.6	9.3	370	
19	B&W	10:36	11.9	12.1	4.6	7.5	360	
20	R		10.4	10.6	4.6	6.0	323	

Bot 40+00

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	[illegible]	[illegible]	
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
1	[illegible]	[illegible]	[illegible]	31.9	5.0	26.9	1129	[illegible]
2	[illegible]		[illegible]	31.6	5.0	26.6	1104	[illegible]
[illegible]	[illegible]		[illegible]	30.6	5.0	25.6	1069	
4	[illegible]	[illegible]	[illegible]	29.8	4.9	24.9	1024	
5	[illegible]		[illegible]	29.4	4.9	24.5	983	
6	[illegible]		[illegible]	28.9	4.9	24.0	922	
[illegible]	[illegible]	10:24	[illegible]	28.4	4.9	23.5	875	
[illegible]	[illegible]		[illegible]	28.5	4.8	23.7	813	
[illegible]	[illegible]		[illegible]	27.3	4.8	22.5	768	
[illegible]	[illegible]	[illegible]	[illegible]	25.8	4.8	21.0	689	
[illegible]	[illegible]		[illegible]	24.6	4.8	19.8	650	
[illegible]	[illegible]		[illegible]	24.6	4.7	19.9	595	
13	[illegible]	10:31	23.2	23.7	4.7	19.0	540	
14	[illegible]		[illegible]	22.1	4.7	17.4	485	
[illegible]	[illegible]		[illegible]	19.0	4.7	14.3	467	
16	[illegible]	10:34	[illegible]	16.8	4.6	12.2	413	
17	[illegible]		17.3 16.0	16.4	4.6	11.8	402	
18	[illegible]		14.4 13.7	13.9	4.6	9.3	370	
19	[illegible]	10:36	12.4 11.9	12.1	4.6	7.5	360	
[illegible]	[illegible]		11.1 10.4	10.6	4.6	6.0	323	

BOAT 40+00 N

Profile Notes Red CEM Plotted Job No. Division No. F. B. Pg. 113
No. Date 3/5/54 Date Survey of
X-Sec. Notes Chkd. Checked Survey by F. BLANCHARD Notes JO Date JAN. 4, 54
No. Date Date Map No. Order Johnson Date

Red. CEM Plotted
3/5/54 Date No.
Chkd. Checked X-Sec.
Date Date

#	Color	Time	Meas. Depth	Bottom Tide	Adj. Depth		Remarks
21	Y		9.2	9.6	4.5	5.1	304
22	[illegible]	10:39	[illegible]	8.3	4.5	3.8	286
23	R		[illegible]	8.5	4.5	4.0	275
24	Y		[illegible]	6.1	4.5	1.6	235

F. B. Pg. 114 Job No. 2412 Division No. Notes Red. CEM Plotted Profil

Survey of [illegible] Date 3/5/54 Date No.

Survey by F. H. BLANCHARD Notes JO Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

BOAT 40+00N

#	Color	Time	Meas. Depth	Bottom Tide	Adj. Depth	Remarks
				9.6	5.1	304
				8.3	3.8	286
				8.5	4.0	275
				6.1	1.6	235

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

LOS A[illegible] 726 Los [illegible]