Notes Ck'd by	Survey of
Map No.	W. O. Tape No. St'd. °F
Office Work	Surveyed by
Checked	Notes Date
Date	Indexed E. C. Johnson 4-3-56

F. B. 1509 Pg. 5

BEACH EROSION STUDIES

SOUNDINGS

J.N. 0300.02

July 25-1955 To July 29-1955

From station 428+19.5 To 294+65-S

M. A. Van Deren
K. Kvammen
W. Richards
J. Bazen
J. Edwards
A. Santucci
R. Turrill
J. Henderson

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F.B. 1504 PG. 6

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

F. B. 1509 PG. 7

Tide Gage

Standard Time

July 25. 1955

Hour	Tide
7 00	1.6
7 30	1.5
8 00	1.5
8 30	1.4
9 00	1.6
9 30	2.0
10 00	2.2
10 30	2.5
11 00	2.7
11 30	3.3
12 00	3.5
12 30	3.8
1 00	4.3

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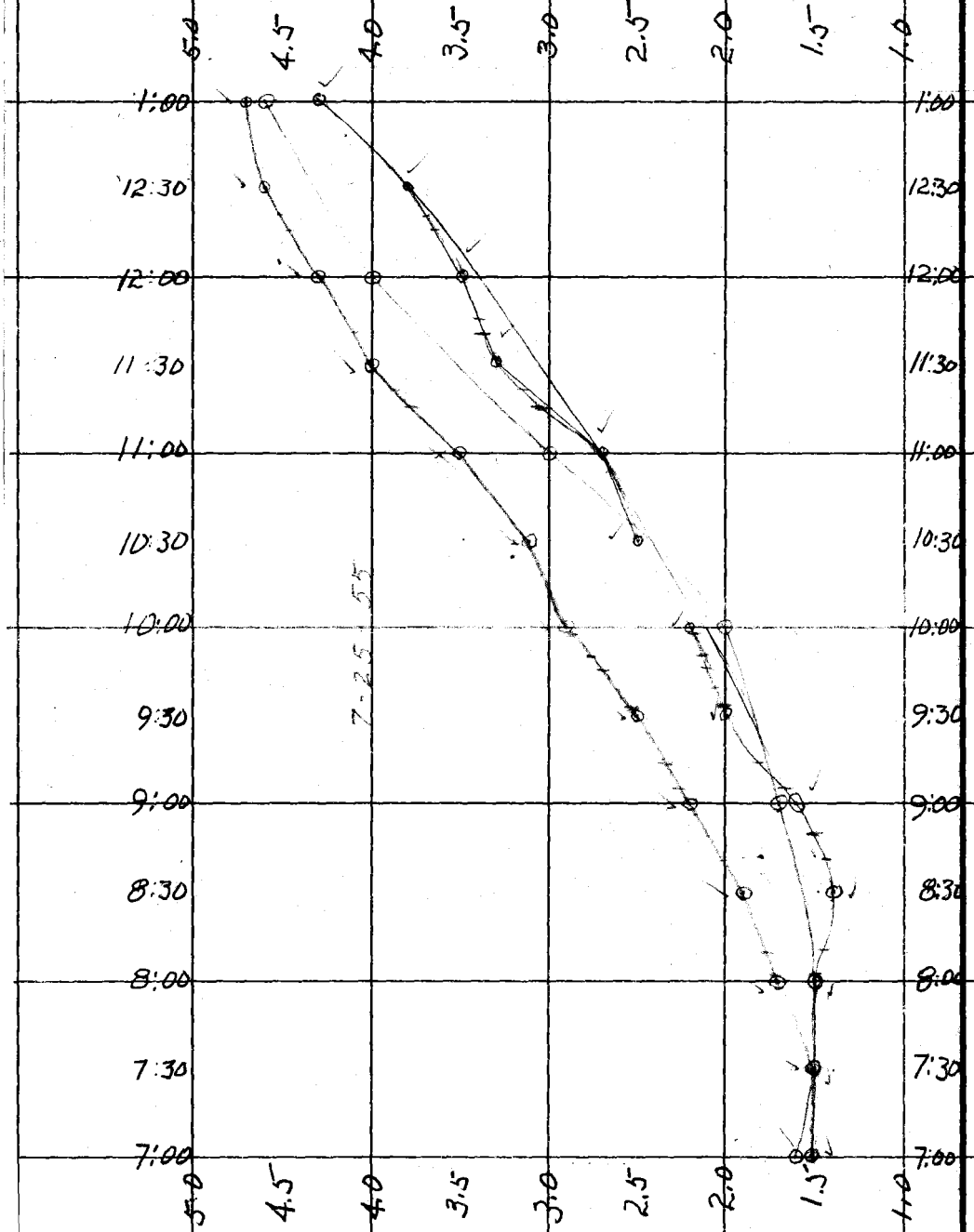
76F3098 S&E #247. 8-54

F.B. 1509 PG. 66

Red curve copied from Hendry Tide Book



Blue Curve from USC&GS Tide Book

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76L298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡	
B.M. S-28	1 60	11 75		10 15	S-28, El = 10.147,	F.B. 2100-153-38
428+19	2 40	~~9 84~~ 9 44	4 71	7 04	(Inst. at 425+69) Sight on 428+19)	1x2
16.5 R			0 1	~~9 7~~ 9 3		B.B.
46 45			4 9	~~4 9~~ 4 5	9° 53'	
96 94			6 8	~~3 0~~ 2 6	19 13	
124 124			7 6	~~2 2~~ 1 8	23 50	
137 135			8 2	~~1 6~~ 1 2	25 47	
178 175			7 8	~~2 0~~ 1 6	31 22	
229 227			8 8	~~1 0~~ 0 6	37 05	
264 263			10 0	~~-0 2~~ -0 6	40 25	
307 304			11 0	-1 2 -1 6	43 55	
T.P.	1 66	~~5 75~~ 5 35	5 75	~~4 09~~ 3 69		
357 355			9 0	~~-3 3~~ -3 7	47 23	
438 435			12 8	~~7 1~~ -7 5	51 43 ?	

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F.B. 1509 Pg. 9
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
Notes Chkd. ____ Checked ____ Survey by English Notes Ed. Date 7-25-55
Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

Inshore
428+19 S.

F. B. 1509 Pg. 10 | Job No. | Division No. | Notes Red. | Plotted | Profile

Survey of | Date | Date | No.

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

Indexed | Date | Date | Date | No.

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

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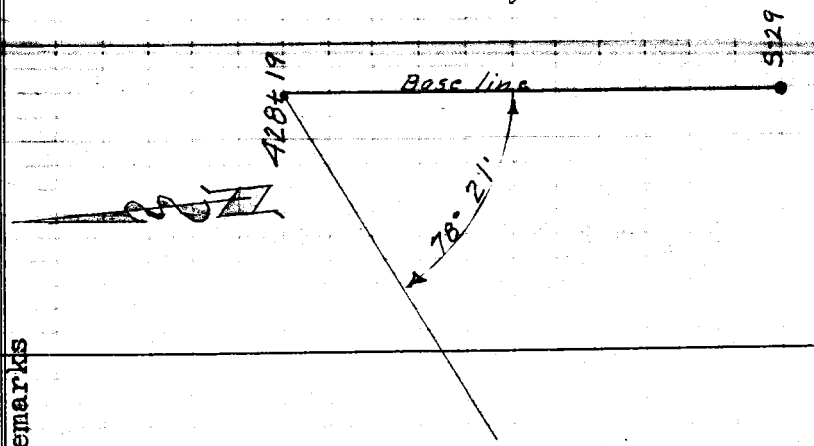
76L298 307 8-53

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 1509	Pg. 11
No.	Date	Date	Survey of Beach Erosion Studies			
X-Sec.	Notes Chkd.	Checked	Survey by M.A. VanDeren	Notes J. E.	Date 7-25-55	
No.	Date	Date	Map No.	Indexed Johnson	Date	

Range 428+19-S



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OH	#	~~Color~~ DIST.	Time	Hor. Ang.	
	1	✓	8 02	78° 21'	
	2	✓		78° 00	
	3	✓		78° 00	
	4	✓		78° 00	
	5	✓		77° 37'	
	6	✓		77° 37	
	7	✓		77° 37	
	8	✓		77° 50'	
	9	✓		77° 50	
	10	✓		77° 50'	
	11	✓		77° 50	
	12	✓		77° 50	
	13	✓		77° 39'	
	14	✓		77° 30	
	15	✓		77° 39'	
	16	✓		77° 39'	
	17			77° 39'	
	18			77° 39'	
	19			77° 39'	
	20			77° 39'	

S-29

428+19-S

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
428+19	5-29	21			77° 39'		
		22			77° 39'	Range 428+19-5	
		23			77° 39'		
		24			77° 39'		
		25			77° 39'		
		26			77° 39'		
		27			77° 39'		
		28			77° 39'		
		29			77° 39'		
		30			77° 39'		
		31			77° 39'		
		32			77° 39'		
		33			77° 39'		
		34			77° 39'		
		35		8 10	77° 39		

F. B. 1509 PG. 12

Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date 7-25-55 Date No. -

Survey by M.A. VanDeren Notes J.E. Notes Chkd. Checked X-Sec.

Indexed R. C. Johnson Date Date Date No.

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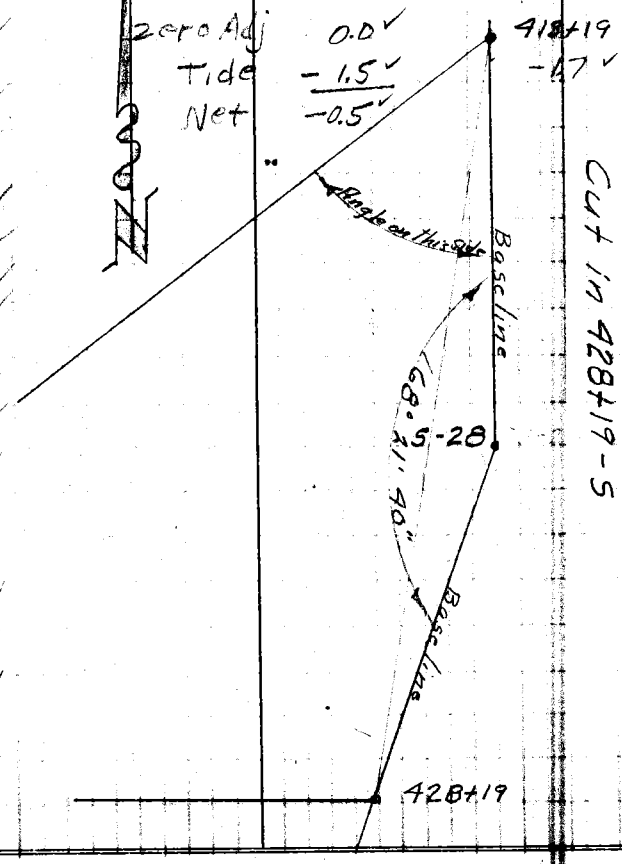
STATION		B. S.	H. I.		F. S.	ELEV.	
Inst. At	Sight On	#	A.D. ~~Color~~	C.D.	Time	Hor. Ang.	DIST.
413+19	S-28	1	34.1	33.6	8.02	55° 04'	2018
		2	33.1	32.6		54° 25'	1985
		3	32.3	31.8		53° 40'	1925
		4	32.1	31.6		52° 57'	1868
		5	31.3	30.8		52° 16'	1836
		6	30.4	29.9		51° 33'	1790
		7	30.0	29.5		50° 53'	1747
		8	29.3	28.8		50° 12'	1689
		9	28.5	28.0		49° 26'	1640
		10	28.2	27.7		48° 34'	1588
		11	27.4	26.9		47° 40'	1532
		12	25.7	25.2		46° 33'	1470
		13	24.6	24.1		45° 52'	1438
		14	24.0	23.5		44° 48'	1387
		15	23.2	22.7		43° 58'	1338
		16	22.4	21.9		42° 52'	1283
		17	21.3	20.8		41° 42'	1225
		18	20.3	19.8		40° 28'	1169
		19	19.3	18.8		39° 15'	1110
		20	18.8	18.3		38° 10'	1062

413+19 S-28

Remarks

Boat	+1.0
Zero Adj	0.0
Tide	-1.5
Net	-0.5



Cut in 428+19-S

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 19
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes Kan Date 7-25-55
No. Date Date Map No. Indexed Johnson Date

78L298 307 8-53

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F.B. 1509 Pg. 14 Job No. 300.04 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Stadies Date 7-25-55 Date No.
Survey by Van Deren Notes Van Notes Chkd. Checked X-Sec.
Indexed E. C. Johnson Date Date Date No.
Profile

STATION	B. S.	H. I. AD	H. I. CD	F. S.	ELEV.	DIST.	Remarks
Inst. Sight At On	#	Color		Time	Hor. Ang.		
	21	17.7	17.2		36° 57'	1015	Cut in 428+19
	22	16.4	15.9		35° 40'	962	
	23	15.5	15.0		34° 13'	902	
	24	14.5	14.0		32° 47'	851	
	25	13.6	13.1		31° 40'	808	
	26	12.6	12.1		30° 02'	750	
	27	11.3	10.8		28° 31'	695	
413+19-S	28	10.3	9.8		26° 48'	640	
S-28	29	10.0	9.5		25° 18'	590	
	30	9.7	9.2		23° 50'	541	
	31	9.3	8.8		22° 10'	490	
	32	8.2	7.7		20° 50'	453	
	33	7.0	6.5		18° 57'	397	
	34	5.3	4.8		17° 07'	342	
	35	3.8	3.3	8 10	15° 34'	301	

76L298 307 8-53

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Profile No. ____ Date ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 15
X-Sec. No. ____ Date ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of Beach Erosion Studies
Survey by English Notes Ed Date 7-25-55
Map No. ____ Inked ____ Date ____

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
B.M. 5-28	0 84	10 99		10 15	(Inst. at 425+69		
423+19			2 5	8 5	Sight on 423+19)		
10' ℞			0 0	11 0			B.B.
	0 77	6 88	4 88	6 11	12° 31'	51	
			3 4	3 5	22 14	91	90
			4 3	2 6	28 49	126	
			5 8	1 1	38 17	171	
			6 3	0 6	42 07	193	
			7 3	-0 4	47 36	228	
			7 5	-0 6	50 25	245	
			8 7	-1 8	59 29	320	
			12 1	-5 2	67 13	405	

Inshore
S. 423+19

F. B. 1509 Pg. 16

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

Survey of _____ Date _____ Date _____

Survey by _____ Notes _____ Notes Chkd. _____ Checked _____

Indexed _____ Date _____ Date _____ Date _____

Profile No. _____

X-Sec. No. _____

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

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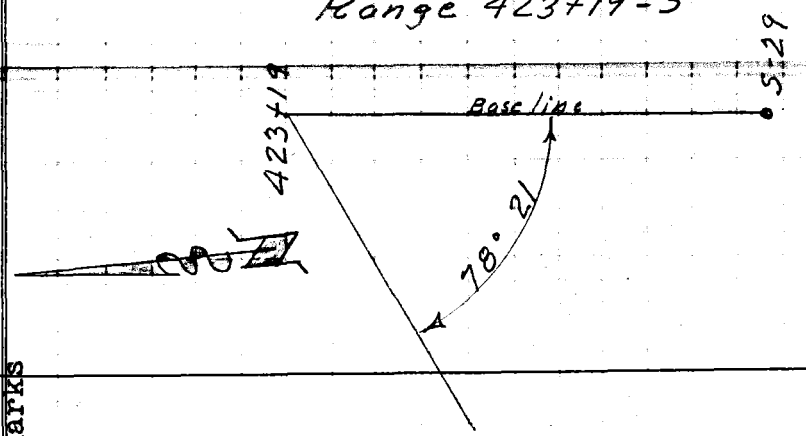
76L298 307 8-53

Profile	Notes Red.	Plotted	Job No. 03000	Division No. 10	F. B. 1509	Pg. 17
No.	Date	Date	Survey of Beach Erosion Studies			
X-Sec.	Notes Chkd.	Checked	Survey by M.A. Van Deren	Notes R.T.	Date 7-25-55	
No.	Date	Date	Map No.	Indexed Johnson	Date	

Range 423+19-S



STATION	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
Inst. Sight At	1		8 41	78° 21'	
	2			78 00	
	3			78 00	
	4			78 00	
	5			78 00	
	6			78 00	
	7			78 00	
	8			78 00	
	9			78 00	
	10			78 00	
	11			78 16	
	12			78 16	
	13			78 16	
	14			78 16	
	15			78 16	
	16			78 16	
	17			78 16	
	18			78 16	
	19			78 16	
	20			78 16	

S-29

423+19-S

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
	21			78 33		
	22			78 33		Range 423+19-5
	23			78 04		
	24			78 04		
	25			78 04		
	26			78 04		
	27			78 48		
	28			77 48		
	29			77 48		
	30			77 17		
	31		8 50	80 07		

F. B. 1509 Pg. 18
Job No. 0300.02 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Studies Date 7-25-55 Date No.
Survey by Van Deren Notes R. T. Notes Chkd. Checked X-Sec.
Indexed K. C. Johnson Date Date Date No.
Profile

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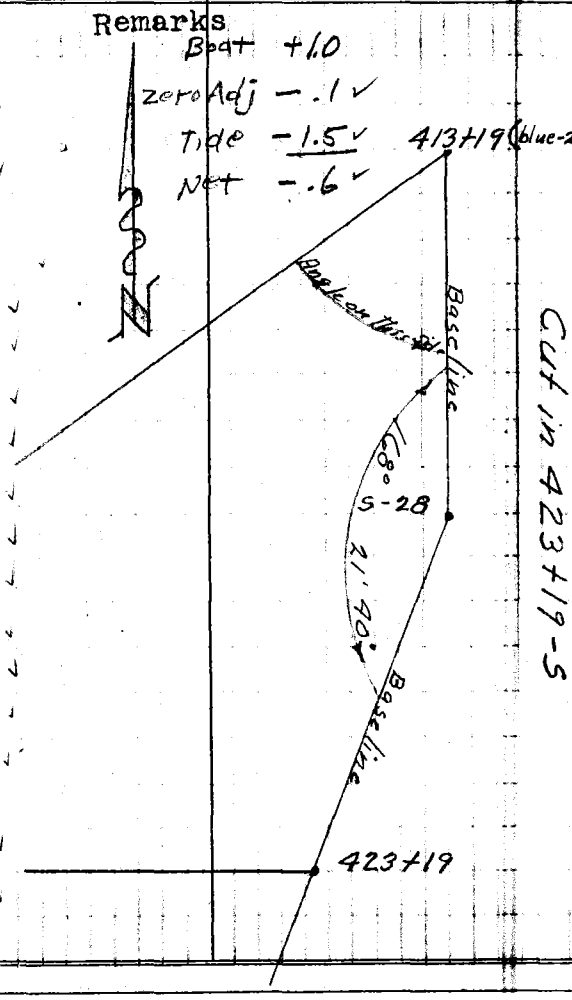
STATION	B. S.	H. I.		F. S.	ELEV.	
Inst. Sight At Ch	#	Color		Time	Hor. Ang.	Dist
413+19	1	31.7	31.1	8-41	61° 41'	1839
	2	30.9	30.3		61° 04'	1810
	3	29.8	29.2		60° 12'	1750
	4	29.0	28.4		59° 27'	1698
	5	28.4	27.8		58° 43'	1650
	6	27.6	27.0		57° 60'	1590
	7	26.7	26.1		56° 43'	1520
	8	26.0	25.4		55° 58'	1472
	9	25.4	24.8		55° 13'	1432
	10	24.6	24.0		54° 17'	1383
	11	24.2	23.6		53° 25'	1333
	12	23.3	22.7		52° 26'	1285
	13	22.7	22.1		51° 20'	1236
	14	21.9	21.3		50° 05'	1182
	15	21.2	20.6		48° 56'	1131
	16	20.1	19.5		47° 29'	1074
	17	19.9	19.3		46° 13'	1028
	18	19.3	18.7		44° 44'	975
	19	18.8	18.2		43° 13'	923
	20	16.6	16.0		41° 55'	881

413+19

S-28

Remarks

Boat +1.0
zero Adj -.1
Tide -1.5
Net -.6



Profile Notes Red. Plotted Job No. 0300.00 Division No. 10 F. B. 1509 Pg. 19
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes Date 7-25-55
No. Date Date Map No. Index Johnson Date

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F. B. 1509 Pg. 20 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date 7-25-55 Date No. X-Sec.
Survey by Van Deren Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.

STATION	B. S.	H. I.		F. S.	ELEV.		
Inst. Sight At On	#	Color		Time	Hor. Ang.		Remarks
	21	15.9	15.3		40° 17'	829	
	22	14.7	14.1		38° 45'	784	Cut in 423+19-S
	23	13.7	13.1		37° 07'	740	
	24	12.2	11.6		35° 14'	690	
	25	10.9	10.3		32° 59'	631	
	26	10.9	10.3		31° 13'	590	
	27	9.5	8.9		29° 17'	539	
413+19	28	9.1	8.5		27° 37'	508	
5.28	29	6.7	6.1		25° 58'	474	
	30	VND			21° 52'	390	
	31	5.5	4.9	8-50	20° 47'	359	

76L298 307 8-53

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915+69

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
S-28	4 90	15 05		10 15	(Inst. at 415+69 Sight on 418+19)		
418+69	3 23	11 98	6 30	8 75	1 X 2		
11' RL			1 7	10 3			
			5 9	6 1	7° 21'	32	
			8 6	3 4	17 34	79	
T.P.	0 82	6 59	6 21	5 77			
			3 4	3 2	18 25	83	
			5 3	1 3	28 43	137	
			7 0	-0 4	39 51	209	209
			9 5	-2 9	49 58	297	297 17[illegible]
			13 4	-6 8	58 08	402	

Inshore
S 418+19

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 21
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes Ed. Date 7-25-55
No. ____ Date ____ Date ____ Map No. ____ Index Johnson Date ____

F. B. 1504 Pg. 2,2

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

Survey of _____ Date _____ Date _____

Survey by _____ Notes _____ Notes Chkd. _____ Checked _____

Indexed _____ Date _____ Date _____ Date _____

Profile No. _____

X-Sec. No. _____

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

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76LF 57 8-53

76L298 307 8-53

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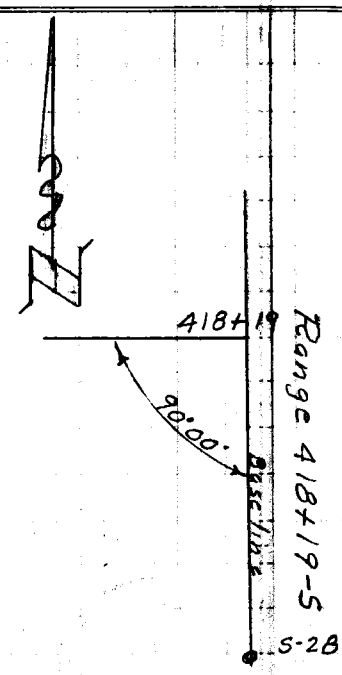
STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At Ch	#	Color	Time	Hor. Ang.		Remarks
	1		9 05	90° 00'		
	2			90 32		
	3			90 17		
	4			90 17		
	5			90 17		
	6			90 17		
	7			90 17		
	8			90 05		
	9			90 05		
	10			90 05		
	11			90 05		
	12			90 05		
	13			90 05		
	14			90 05		
	15			90 05		
	16			89 48		
	17			89 48		
	18			89 48		
	19			89 48		
	20			89 52		



418+19-S
S-28

Profile Notes Red ____ Plotted ____ Job No. 03000 Division No. 10 F. B. 1509 Pg. 23
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Dercu Notes R.T. Date 7-25-55
No. ____ Date ____ Date ____ Map No. ____ Inked Robinson 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.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
	21			89	52	
	22			89	46	Range 418+19-S
	23			89	46	
	24			89	46	
	25			89	46	
	26			89	46	
	27			89	46	
418+19-S 5-28	28			89	46	
	29			89	46	
	30			89	46	
	31			89	48	
	32			89	48	
	33			89	48	
	34			89	48	
	35			89	48	
	36			89	48	
	37			89	48	
	38			90	17	
	39			90	17	
	40			90	17	
	41			90	17	
	42		9 15	90	17	

F. B. 1509 PG. 24
Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date 7-25-55 Date No.
Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

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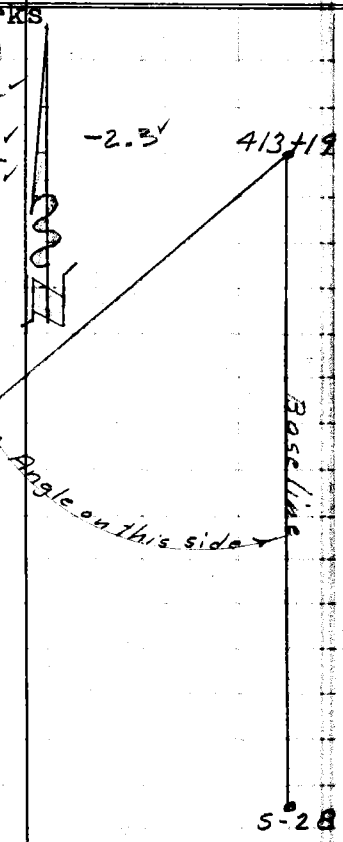
STATION Inst. Sight At	On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks
								Boat +1.0
413+19	S-28	1	43.1	41.9	9-05	79° 06'	2611	Zero Adj -.4
		2	42.0	40.8		79° 02'	2480	Tide -1.8
		3	41.1	39.9		78° 50'	2490	Net -1.2
		4	40.6	39.4		78° 30'	2420	
		5	39.6	38.4		78° 14'	2370	
		6	38.8	37.6		77° 58'	2300	
		7	37.9	36.7		77° 41'	2250	
		8	37.3	36.1		77° 27'	~~2248~~	2230
		9	36.5	35.3		77° 12'	2196	
		10	35.8	34.6		76° 51'	2133	
		11	35.1	33.9		76° 22'	2054	
		12	34.5	33.3		75° 58'	1995	
		13	34.8	33.6		75° 36'	1945	1930
		14	34.6	33.4		75° 16'	1896	1885
		15	33.8	32.6		74° 48'	1835	
		16	32.4	31.2		74° 33'	~~1840~~	1830
		17	30.6	29.4		74° 13'	1790	1800
		18	29.6	28.4		73° 39'	1725	
		19	29.3	28.1		73° 02'	1654	
		20	29.2	28.0		72° 18'	1570	1580



Cut in 413+19-S

413+19-S

S-28

Profile Notes Red. ____ Plotted ____ Job No. 03000.02 Division No. 10 F. B. 1509 Pg. 25
No. ____ Date ____ Date ____ Survey of Beach Erosion studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes ✓ Date 7-25-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

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
	21	27.7 26.5		71° 38'	1510
	22	26.9 25.7		71° 00'	1460
	23	26.6 25.4		70° 26'	1420
	24	26.0 24.8		69° 40'	1364 Cut in 418+19-S
	25	25.5 24.3		68° 46'	1302
	26	24.7 23.5		67° 42'	1233
	27	23.4 22.2		66° 50'	1181
	28	22.2 21.0		65° 54'	1128
	29	21.7 20.5		64° 48'	1070
	30	20.7 19.5		63° 23'	1008
	31	18.6 17.4		61° 19'	942
	32	17.1 15.9		60° 17'	880
	33	15.7 14.5		58° 31'	821
	34	15.3 14.1		56° 27'	757
	35	13.6 12.4		54° 15'	695
	36	12.5 11.3		51° 47'	638
	37	12.0 10.8		49° 55'	593
	38	10.7 9.5		47° 32'	538
	39	10.2 9.0		44° 27'	488
	40	8.6 7.4		40° 55'	432
	41	7.6 6.4		37° 33'	382
	42	6.3 5.1	9-15	34° 00'	337

413+19-S

S-28

F. B. 1509 Pg. 26

Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date 7-25-55 Date No.

Survey by Van Deren Notes ✓ Notes Chkd. Checked X-Sec.

Indexed C. Johnson Date Date Date No.

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 1509 Pg. 27
No.	Date	Date	Survey of Beach Erosion Studies		
X-Sec.	Notes Chkd.	Checked	Survey by English Notes Ed.	Date 7-25	
No.	Date	Date	Map No. ~~A~~ Indexed Johnson	Date	

Inshore
S. 413+19

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡	Inst. at 415+69, Sight 413+19
418+69	5 51	14 26		8 75	1X2	
4B+19	1 51	12 04	3 73	10 53	1X2	B.B.
	1 60	8 01	5 63	6 41	8 34	38
			4 6	3 4	9 03	40
			7 1	0 9	32 39	160
			8 9	-0 9	43 00	233
			10 7	-2 1	49 50	296
			12 8	-4 8	54 25	349

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76L298 307 8-53

F. B. 1509 Pg. 28 | Job No. | Division No. | Notes Red. | Plotted | Profile

Survey of | Date | Date | No.

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

Indexed | Date | Date | Date | No.

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

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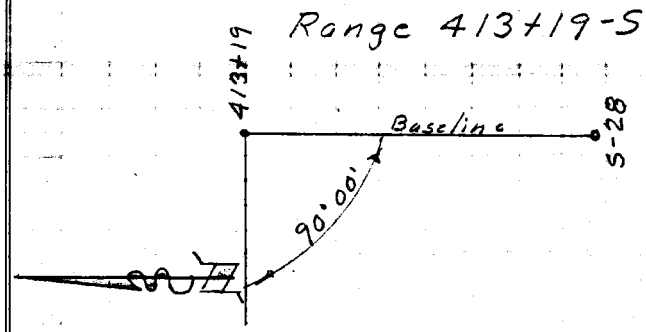
76L298 307 8-53

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 1509	Pg. 29
No.	Date	Date	Survey of Beach Erasian Studies			
X-Sec.	Notes Chkd.	Checked	Survey by VanDeren	Notes R.T.	Date 7-25-55	
No.	Date	Date	Map No.	Indexed G. Johnson	Date	

Range 413+19-S



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At Ch	#	Color	Time	Hor. Ang.	
	1		9 33	90°00	
	2			89° 11'	
	3			89° 11'	
	4			89° 16'	
	5			89° 22'	
	6			89° 22'	
	7			89° 22'	
	8			89° 22'	
	9			89° 22'	
	10			89° 22'	
	11			89° 22'	
	12			89° 22'	
	13			89° 22'	
	14			89° 22'	
	15			89° 38'	
	16			89° 48'	
	17			89° 48'	
	18			89° 48'	
	19			89° 48'	
	20			89° 31'	

S-28

413+19-S

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
		21			89° 14'		
		22			89° 14'		
		23			89° 35'		Range 413+19-S
		24			89° 35'		
		25			89° 35'		
		26			89° 35'		
413+19-S		27			89° 35		
	S-28	28			89° 52'		
		29			89° 57'		
		30			89° 57'		
		31			89° 57'		
		32			89° 57'		
		33			89° 57'		
		34			89° 57'		
		35			89° 57'		
		36		9:40	89° 57'		

F.B. 1509 PG. 30 Job No. 030002 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion studies Date 7-25-55 Date No.
Survey by VanDeren Notes R.T. Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date No.

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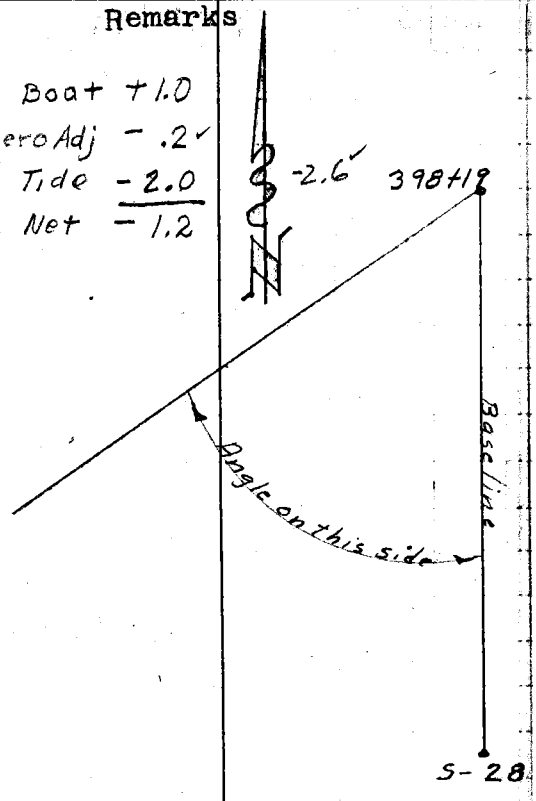
STATION Inst. At	Sight On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks
398+19	S-28	1	40.7	39.5	9-33	59°04	2500	Boat +1.0
		2	40.0	38.8		58°25'	2500	zero Adj -.2
		3	39.2	38.0		57°45'	2440	Tide -2.0
		4	38.6	37.4		56°58'	2360	Net -1.2
		5	38.2	37.0		56°11'	2280	
		6	37.2	36.0		55°16'	2202	
		7	36.6	35.4		54°31'	2139	
		8	36.0	34.8		53°41'	2075	
		9	36.1	34.9		52°40'	2000	
		10	35.5	34.3		51°44'	1932	
		11	35.0	33.8		50°57'	1865	
		12	34.2	33.0		50°00'	1815	
		13	33.2	32.0		48°51'	1740	
		14	31.8	30.6		47°31'	1660	
		15	30.4	29.2		46°27'	1594	
		16	28.8	27.6		45°08'	1516	
		17	27.6	26.4		43°35'	1435	
		18	26.5	25.3		42°27'	1380	
		19	25.7	24.5		41°13'	1320	
		20	25.2	24.0		39°55'	1264	



Cut in 413+19-S

398+19-S S-28

Profile Notes Red. Plotted Job No. 030400 Division No. 10 F. B. 1509 Pg. 31
No. Date Date Survey of Beach Erosion studies
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes Van Date 7-25-55
No. Date Date Map No. Indexed C. Johnson Date

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STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Color		Time	Hor. Ang.		Remarks
398+19	S-28	21	25.2	24.0		38° 34'	1210	
		22	22.9	21.7		36° 55'	1140	Cut in 413+19-S
		23	22.3	21.1		35° 15'	1068	
		24	21.2	20.0		33° 43'	1006	
		25	19.7	18.5		31° 55'	940	
		26	18.5	17.3		30° 18'	877	
		27	17.5	16.3		28° 12'	810	
		28	15.6	14.4		26° 05'	737	
		29	13.9	12.7		24° 03'	671	
398+19-S	S-28	30	12.6	11.4		21° 58'	602	
		31	11.8	10.6		19° 47'	542	
		32	9.8	8.6		17° 51'	483	
		33	9.8	8.6		16° 06'	432	
		34	8.3	7.1		14° 20'	384	
		35	6.0	4.8		11° 51'	318	
		36	4.6	3.4	9-40	10° 28'	280	

F. B. 1509 Pg. 32 Job No. 0300.02 Division No. 10 Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date 7-25-55 Date X-Sec.
Survey by Van Deren Notes Van Notes Chkd. Checked No.
Indexed E. C. Johnson Date Date Date

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡ Inst. at 405+69 Sight on 408+19	
413+19	2 99	13 52		10 53	1 X 2	
408+19	7 90	17 79	[illegible]	7 8	1 X 2	
50' R.L			0 8	17 0		
	0 85	7 16	11 48	06 31	8° 20'	37
			3 7	3 5	19 04	86
			6 4	0 8	34 33	172
			8 6	-1 4	43 38	238
			11 6	-4 4	52 47	329

Inshore
S. 408+19

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 33
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by English Notes Ed Date 7-25-55
No. Date Date Map No. Indexed Johnson Date

F. B. 1509 Pg. 34 Job No. Division No. Notes Red. Plotted Profile

Survey of Date Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

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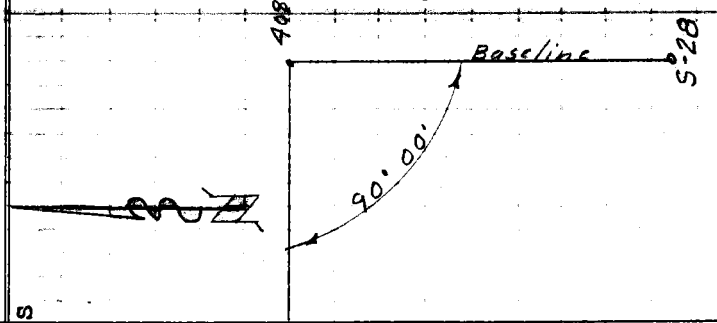
Profile	Notes Red.	Plotted	Job No. 0300.03	Division No. 10	F. B. 1509	Pg. 35
No.	Date	Date	Survey of Beach Erosion Studies			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes RT	Date 7-25-55	
No.	Date	Date	Map No. ~~[illegible]~~	Indexed	Date	

Range 408+19 - S



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		9 51	90° 00'	
	2			90° 00'	
	3			90° 00'	
	4			90° 00'	
	5			90° 00'	
	6			90° 00'	
	7			90° 00'	
	8			90° 00'	
	9			90° 00'	
	10			90° 16'	
	11			90° 16'	
	12			90° 16'	
	13			90° 31'	
	14			90° 31'	
	15			90° 31'	
	16			90° 31'	
	17			90° 31'	
	18			90° 12'	
	19			90° 12'	
	21			90° 12	

S-28

408+19-S

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F. B. 1509 Pg. 36 | Job No. 0300.07 Division No. 10 Notes Red. Plotted. Profile

Survey of Beach Erosion Studies Date 7-25-55 Date No.

Survey by VanDeren Notes RT Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

408+19-S

S-28

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	21			90° 34'	
	22			90° 34'	
	23			90° 34'	
	24			90° 34'	
	25			90° 01'	
	26		9:58	90° 01'	

Range 408+19-S

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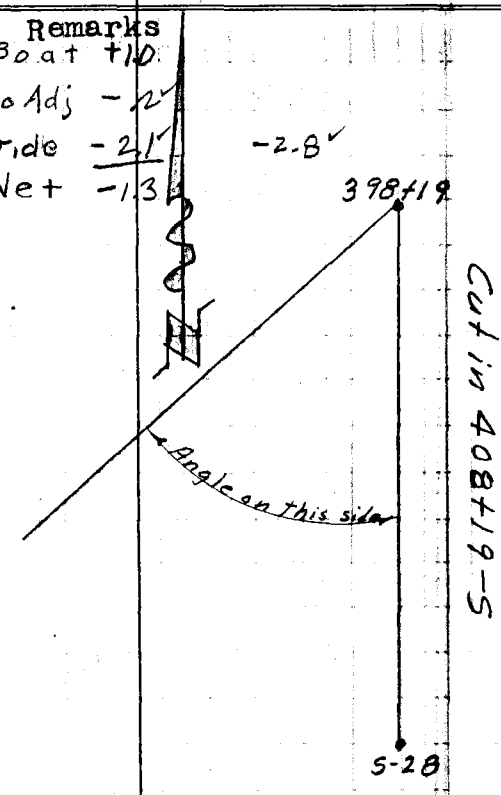
STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	~~Color~~ AD	CD	Time	Hor. Ang.		Remarks
398+19	S-28	1	37.6	36.3	9-51	63° 32	2009	Boat +1.0
		2	37.1	35.8		62° 51	1950	zero Adj -.2
		3	36.2	34.9		62° 02'	1883	Tide -2.1
		4	35.6	34.3		61° 16'	1824	Net -1.3
		5	34.5	33.2		60° 18'	1753	
		6	33.4	32.1		59° 23'	1690	
		7	32.4	31.1		58° 07'	1608	
		8	31.4	30.1		56° 53'	1533	
		9	30.7	29.4		55° 30'	1455	
		10	29.2	27.9		54° 23'	1385	
		11	27.9	26.6		53° 08'	1323	
		12	27.2	25.9		51° 50'	1262	
		13	25.5	24.2		50° 00'	1177	
		14	24.0	22.7		48° 18'	1109	
		15	23.1	21.8		46° 30'	1042	
		16	21.7	20.4		44° 29'	973	
		17	20.8	19.5		42° 17'	901	
		18	19.9	18.6		40° 10'	841	
		19	18.5	17.2		37° 52'	778	
		20	16.7	15.4		35° 29	708	

398+19-S

S-28



Cut in 408+19-S

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 1909 Pg. 37
No. Date Date Survey of Beach Erosion studies
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes Van Date 7-25-55
No. Date Date Map No. Indexed Johnson Date

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STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Color		Time	Hor. Ang.		Remarks
398+19	S-28	21	15.4	14.1		32° 20	630	
		22	12.6	11.3		29° 20'	558	Cut in 408+19-S
		23	11.0	9.7		25° 14	490	
		24	Void			20° 55'	380	
		25	8.0	6.7		17° 07	347	
		26	5.8	4.5	9-58	16° 23'	293	
398+19-S	S-28							

F. B. 1509 PG. 38 Job No. 030008 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date 7-25-55 Date No. X-Sec.
Survey by Van Deren Notes Van Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 1509 Pg. 39
No.	Date	Date	Survey of Beach Erosion Studies		
X-Sec.	Notes Chkd.	Checked	Survey by English Notes Ed.	Date 7-25-55	
No.	Date	Date	Map No. Indexed C. Johnson	Date	

Inshore

S. 403+19

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡ Inst. at 405+69 Sight on 403+19
408+19	5 12	15 01		9 89	1X2
403+19	5 63	15 43	5 21	9 80	1X2
20' RL			2 4	13 0	
	1 85	8 16	9 12	6 31	7° 37' 33
			5 3	2 9	14 59 91
			7 2	1 0	32 19 158
			8 9	-0 7	43 24 236
			11 0	-2 8	51 20 312
			13 2	-5 0	56 33 378

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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.

76L298 307 8-53

F. B. 1509 Pg. 90 | Job No. | Division No. | Notes Red. | Plotted | Profile

Survey of | Date | Date | No.

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

Indexed | Date | Date | Date | No.

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

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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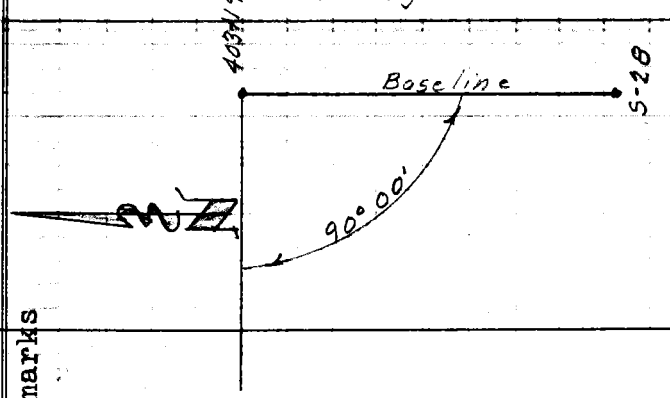
76L298 307 8-53

Profile	Notes Red.	Plotted	Job No. 030002	Division No. 10	F. B. 1509	Pg. 41
No.	Date	Date	Survey of Beach Erosion Studies			
X-Sec.	Notes Chkd.	Checked	Survey by VanDeren	Notes RT	Date 7-25-55	
No.	Date	Date	Map No. ~~X~~ Indexed Johnson		Date	

Range 403+19-S



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At CH	#	Color	Time	Hor. Ang.	
	1		11:15	90° 00'	
	2			92 14	
	3			92 14	
	4			92 14	
	5			92 14	
	6			92 14	
	7			92 14	
	8			90 00	
	9			90 00	
	10			90 00	
	11			90 00	
	12			90 00	
	13			90 00	
	14			90° 00'	
	15			90 00	
	16			90 00	
	17			90 00	
	18			90 00	
	19			90 00	
	20			90 00	

S-28

403+19-S

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

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76L298 307 8-53

F.S. 1509 PG. 42 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion studies Date 7-25-55 Date _____ No. _____

Survey by Van Deren Notes RT Notes Chkd. _____ Checked _____ X-Sec.

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

78L298 307 8-53

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

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At	#	Color	Time	Hor. Ang.		Remarks
	21			90° 00'		
	22			90° 00'		
	23			90° 00'		
	24		11 21	90° 00'		

403+19-S

S-28

Range 403+19-S

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. At	Sight On	#	Color		Time	Hor. Ang.		Bbat +1.0
398+19	S-28	1	33.2	30.7	11.15	72° 14'	1560	zeroAdj -.4
		2	32.5	30.0		71° 36'	1345	Tide -3.1
		3	31.6	29.1		71° 04'	1310	Net -2.5
		4	31.1	28.6		70° 34'	1275	
		5	30.0	27.5		69° 42'	1220	
		6	28.6	26.1		68° 44'	1163	1170
		7	27.6	25.1		67° 53'	1121	
		8	26.2	23.7		66° 52'	1170	
		9	25.3	22.8		65° 28'	1095	
		10	24.7	22.2		64° 15'	1036	
		11	20.9	18.4		61° 53'	936	
		12	19.9	17.4		60° 21'	878	
		13	19.0	16.5		58° 52	828	
		14	17.6	15.1		57° 09'	774	
		15	16.9	14.4		55° 19'	722	
		16	16.6	14.1		53° 23'	673	
		17	15.1	12.6		51° 00'	617	
		18	14.5	12.0		48° 15'	560	
		19	12.7	10.2		44° 43	495	
		20	11.2	8.7		41° 35'	444	

→ 1 to 2 variation

-3.8

398+19

Angle on this side

Cut in 403+19-S

S-28

398+19-S

S-28

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 43

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes Van Date 7-25-55

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

F. B. 1509 PG. 44 Job No. 030002 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion studies Date 7-25-55 Date _____ No. _____

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

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

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.

398+19-S

5-28

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At	#	Color	Time	Hor. Ang.	
398+19 5-28	21	9.4 6.9		47°46	581'
	22	7.6 5.1		33°33'	332' Cut in 403+19-S
	23	6.4 3.9		29°05'	278'
	24	4.7 2.2	11-21	20°04	183'

Profile No. ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 45

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

Survey by English Notes Ed Date 7-25-55

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

Inshore

S. 398+19

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LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

Cut-in X

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 395+69	Sighton 398+19
403+19	4 82	14 62		9 80	1X2	
398+19	5 59	17 47	2 74	11 88	1X2	
52' RL			1 2	16 5		B.B.
	1 08	7 72	10 83	6 64	7° 43'	34
			4 7	3 0	19 38	89
			7 0	0 7	34 25	171
			9 2	-1 5	44 16	244
			12 2	-4 5	52 38	327

76L298 307 8-53

F. B. 1509 PG. 46 | Job No. | Division No. | Notes Red. | Plotted | Profile

Survey of | Date | Date | No.

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

Indexed | Date | Date | Date | No.

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

Do not extend notes this side of this line.

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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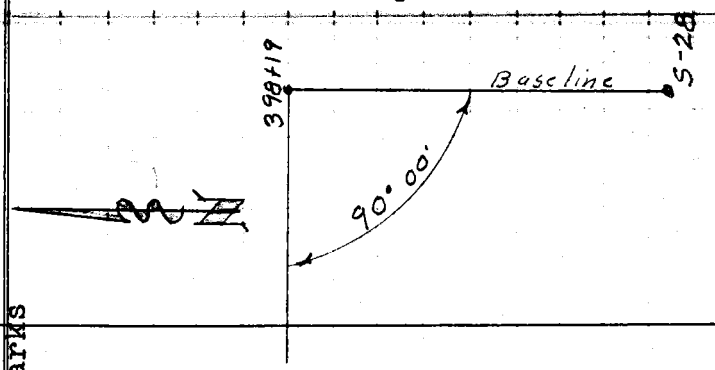
76L298 307 8-53

Profile	Notes Red.	Plotted	Job No. 030002	Division No. 10	F. B. 1509	Pg. 47
No.	Date	Date	Survey of Beach Erosion Studies			
X-Sec.	Notes Chkd.	Checked	Survey by VanDeren	Notes RT	Date 7-25-55	
No.	Date	Date	Map No.	Indexed G. Johnson	Date	

Range 398+19 -S



STATION Inst. Sight At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
		1		11:	90° 00'	
		2			90° 00'	
		3			90° 00'	
		4			90° 00'	
		5			90° 00'	
		6			90° 00'	
		7			90° 00'	
		8			90° 00'	
		9			90° 00'	
		10			90° 00'	
		11			90° 00'	
		12			90° 00'	
		13			90° 00'	
		14			90° 00'	
		15		11:46	90° 00'	
		16				
		17				

S-28

398+19-S

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

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76L298 307 8-53

F. B. 1509 PG. 48 | Job No. 0300.02 | Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion Studies | Date 7-25-55 | Date | No.

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

Indexed | Date | Date | Date | No.

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

Do not extend notes this side of this line.

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76L298 307 8-53

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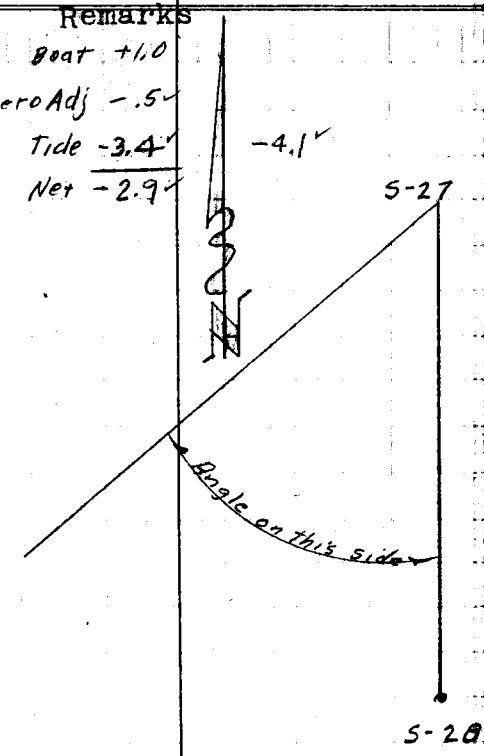
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. Sight At	Ch	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.	Remarks
							Boat +1.0
S-27	S-28	1	31.9	29.0	11-41	53° 08	1333 zero Adj -.5
		2	31.3	28.4		51° 20'	1250 Tide -3.4
		3	29.8	26.9		49° 22'	1165 Net -2.9
		4	28.1	25.2		47° 28'	1090
		5	26.8	23.9		45° 20'	1012
		6	25.5	22.6		43° 15'	941
		7	24.6	21.7		40° 55'	867
		8	22.6	19.7		38° 13'	787
		9	21.3	18.4		35° 33'	715
		10	19.6	16.7		32° 30'	637
		11	16.5	13.6		28° 52'	551
		12	14.5	11.6		26° 13'	492
		13	11.9	9.0		22° 50'	421
		14	9.4	6.5		19° 37'	356
		15	7.3	4.4	11-46	16° 45'	301



Cutin 398+19-S

S-27 S-28

Profile Notes Red. Plotted Job No. 3300 Division No. 10 F. B. 1509 Pg. 49
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes Van Date 7-25-55
No. Date Date Map No. Indexed C. Johnson Date

F. B. 1509 PG. 50 Job No. 030001 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date 7-25-55 Date No.

Survey by Van Deren Notes Van Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
S-27					Inst. Sight At 5-27
S-28					On 5-28
		#	Color	Time	Hor. Ang.
					Cut in 398+19

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line. Cut in ∡

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. 395+69		Sight on 393+19
398+19	5 23	17 11		11 88	1X2		
393+19	3 60	17 12	3 59	13 52	1X2		
29' R			1 4	15 7			B.B.
			5 4	11 7	2° 40'	12	
			10 3	6 8	9 51	43	
	4 27	6 99	14 40	2 72	18 44	85	
			6 0	1 0	30 22	146	
			8 8	-1 8	48 02	278	
			13 3	-6 3	60 11	436	
			16 0	-9 0	64 55	534	
393+19 B.M. S-27	3 63	17 15		13 52			
			4 65	12 50	S-27, d.= 12.452,		F.B. 2100-154-37

Inshore
S. 393+19

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 51
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes Ed Date 7-26-55
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1509 Pg. 52

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

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

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76L298 307 8-53

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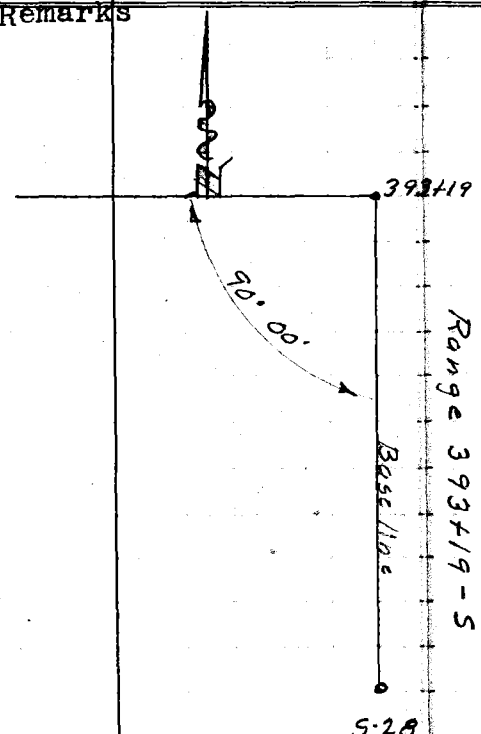
STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
393+19-S	5-28	1		11:54	90° 00	
		2			90° 00'	
		3			90° 00'	
		4			90° 00'	
		5			90° 00'	
		6			90° 00'	
		7			90° 00'	
		8			90° 00'	
		9			90° 00'	
		10			90° 00'	
		11			90° 00'	
		12			90° 00'	
		13			90° 00'	
		14			90° 00'	
		15			90° 00'	
		16		11:58	90° 00'	
		17				
		18				



Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 53
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren & Co. Notes R.T. Date 7-25-55
No. ____ Date ____ Date ____ Map No. ____ Master Index ____ Date ____

F. B. 1509 Pg. 54 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date 7-2555 Date No.

Survey by VanDeren Notes R.T. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

76L298 307 8-53

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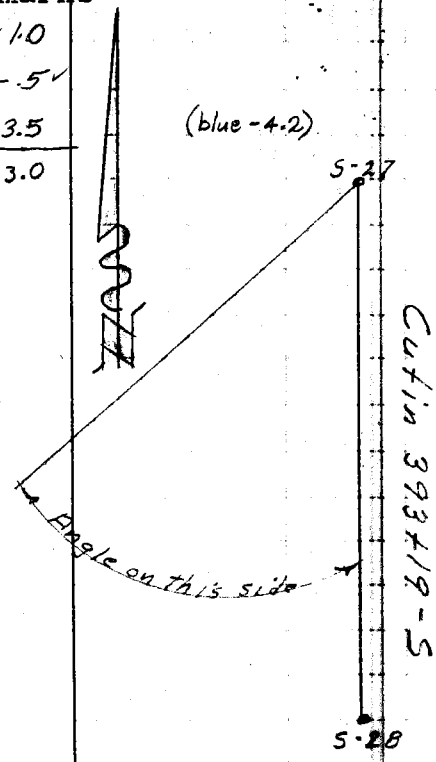
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. Sight At	On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks
								Boat +1.0
S-27	S-28	1	30.2	27.2	11-55	66° 36'	1155	zero Adj -.5
		2	29.0	26.0		65° 15'	1085	Tide -3.5
		3	26.9	23.9		62° 45'	971	Net -3.0
		4	25.5	22.5		60° 45'	893	
		5	24.1	21.1		59° 00'	832	
		6	22.7	19.7		57° 08'	774	
		7	21.7	18.7		55° 09'	718	
		8	20.7	17.7		53° 13'	669	
		9	18.4	15.4		50° 40'	610	
		10	16.3	13.3		47° 38'	548	
S-27	S-28	11	14.8	11.8		44° 29'	491	
		12	12.6	9.6		39° 57'	419	
		13	10.1	7.1		35° 47'	360	
		14	7.4	4.4		31° 19'	304	
		15	6.4	3.4		27° 23'	259	
		16	5.6	2.6	11-58	23° 57'	222	



Profile Notes Red. Plotted Job No. 03000 Division No. 10 F. B. 1509 Pg. 55
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes J.H. Date 7-25-55
No. Date Date Map No. Indexed Johnson Date

F. B. 1509 Pg. 56 | Job No. 030902 | Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion Studies | Date 7-25-55 | Date | No.

Survey by Van Dercn | Notes Henderson | Notes Chkd. | Checked | X-Sec.

Indexed L. O. Johnson | Date | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight On					
5-27					
5-28					
At 5-27 5-28	#	Color	Time	Hor. Ang.	
					Cut in 393+19-5

76L298 307 8-53

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726 Los Angeles County Engineering Bldg.

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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.

Cut-in ∡

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 385+50		Sight on 388+00
B.M. S-27	6 24	18 69		12 45			
388+00			3 70	14 99	1X2		
32' R			1 3	17 4	3		B.B.
			5 4	13 3	3° 42'	16	
	1 24	8 71	11 22	7 47	11 06	49	
			4 9	3 8	18 52	85	
			8 2	0 5	29 01	139	
			10 3	-1 6	41 56	225	
			14 7	-6 0	52 56	331	

Inshore
S. 388+00

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 57
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by English Notes Ed Date 7-26-55
No. Date Date Map No. Indexed C. Johnson Date

F. B. 1509 Pg. 58

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

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L298 307 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.

76L298 307 8-53

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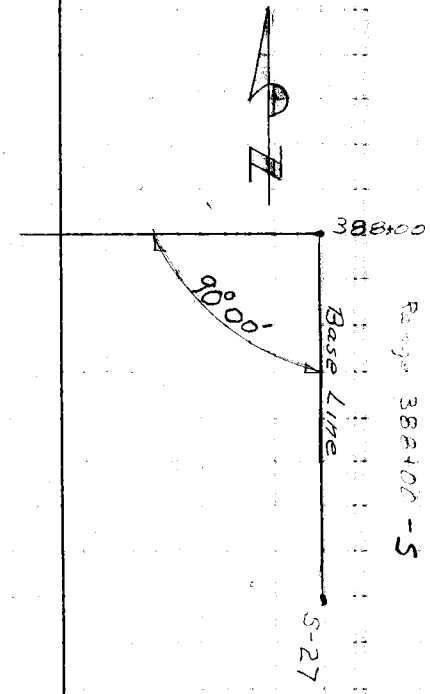
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
388+00 -S	S-27	1		12:16	90° 00'	
		2			90° 00'	
		3			90° 00'	
		4			90° 00'	
		5			90° 00'	
		6			90° 00'	
		7			90° 00'	
		8			90° 00'	
		9			90° 00'	
		10			90° 00'	
		11			90° 00'	
		12			90° 00'	
		13			90° 00'	
		14			90° 00'	
		15			90° 00'	
		16			90° 00'	
		17		12:21	90° 00'	
		18				



Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 59
No. ____ Date ____ Date ____ Survey of Beach Erosion
X-Sec. Notes Chkd ____ Checked ____ Survey by Van Deren Notes RT Date 7-25-56
No. ____ Date ____ Date ____ Map No. ____ Date ____

F. B. 1509 Pg. 60 | Job No. 0300.02 Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion | Date 7-25-55 | Date | No.

Survey by Van Doren | Notes R. T. | Notes Chkd. | Checked | X-Sec.

Indexed | Date | Date | Date | No.

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

Do not extend notes this side of this line.

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76L288 307 8-53

76L298 307 8-53

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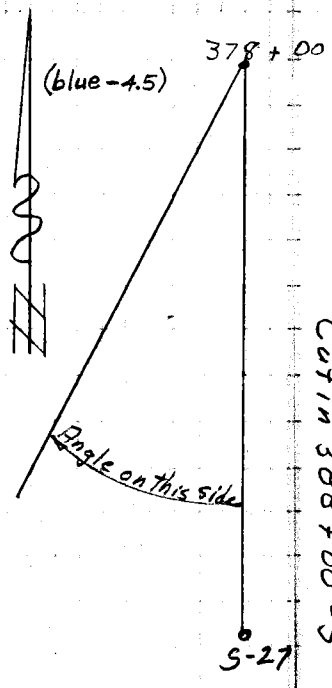
Do not extend notes this side of this line.

STATION Inst. Sight At	On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.	Remarks
378+00	S-27	1	34.0	30.8	12-16	54° 27'	1399
		2	33.1	29.9		52° 58'	1325
		3	31.7	28.5		50° 55'	1231
		4	30.9	27.7		49° 20'	1164
		5	29.5	26.3		47° 15'	1044
		6	28.4	25.2		45° 20'	1011
		7	26.9	23.7		43° 08'	937
		8	25.2	22.0		40° 18'	848
		9	23.5	20.3		37° 44'	774
		10	21.8	18.6		35° 12'	705
		11	20.0	16.8		31° 55'	623
		12	18.1	14.9		29° 15'	560
		13	15.7	12.5		26° 21'	495
		14	13.4	10.2		23° 40'	438
		15	10.5	7.3		20° 27'	373
		16	8.1	4.9		17° 17'	311
		17	6.5	3.3	12-21	14° 10'	252

Boat +1.0
Zero Adj -.5
Tide -3.7
Net -3.2



Cut in 388+00-S

378+00-S

S-27

Profile Notes Red. Plotted Job No. 0300.01 Division No. 10 F. B. 1509 Pg. 61
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes J. H. Date 7-25-55
No. Date Date Map No. Date

F.-B. 1509 Pg. 62 Job No. 030002 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Studies Date 7-25-55 Date _____ No. _____

Survey by Van Deren Notes HENDERSON Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

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76L298 307 8-53

76L298 307 8-53

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Cut-in X

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 385+50		Sight on 383+00
388+00	3 87	18 86		14 99	1X2		
383+00	4 36	18 43	4 79	14 07	1X2		
54' R.			1 5	16 9			B.B.
			5 3	13 1	2° 26'	11	Brk.
			8 8	9 6	5 57	26	"
	[illegible]	[illegible]	15 30	3 13	19 34	89	
			6 6	0 8	30 07	145	
			8 0	-0 6	38 25	198	
			9 7	-2 3	45 37	255	
			12 5	-5 1	55 24	362	

Inshore
S. 383+00

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 63
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by English Notes Ed. Date 7-28-55
No. Date Date Map No. Inked Johnson Date

F. B. 1509 Pg. 64 | Job No. _____ Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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76L296 307 8-53

76L298 307 8-53

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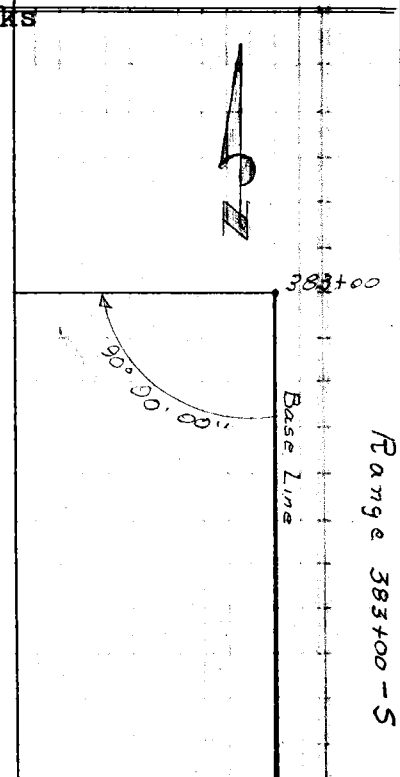
STATION		B. S.	H. I.	F. S.	ELEV.		Remarks
~~Inst. Sight~~ At	On	#	Color	Time	Hor. Ang.		
		1		12:31	90°	00'	
		2			90°	00'	
		3			90°	00'	
		4			90°	00'	
		5			90°	00'	
		6			90°	00'	
		7			90°	00'	
		8			90°	00'	
383+00 -5	5-27	9			90°	00'	
		10			90°	00'	
		11			90°	00'	
		12			90°	00'	
		13			90°	00'	
		14			90°	00'	
		15			90°	00'	
		16			90°	00'	
		17			90°	00'	
		18			90°	00'	
		19			90°	00'	
		20			90°	00	



Profile Notes Red ____ Plotted ____ Job No. 0320.02 Division No. 10 F. B. 1509 Pg. 65
No. ____ Date ____ Date ____ Survey of Beach Erosion studies
X-Sec. Notes Chkd ____ Checked ____ Survey by Van Dereer Notes R.T. Date 7-26-55
No. ____ Date ____ Date ____ Map No. ____ R. Johnson Date ____

F. B. 1509 PG. 66 Job No. 030008 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date 7-26-55 Date No.

Survey by Van Deren Notes Van Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

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.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
	21			90 00		
	22			90 00		
	23		12 37	90 00		
383+00-S						
S-27						
						Range 383+00-S

76L298 307 8-53

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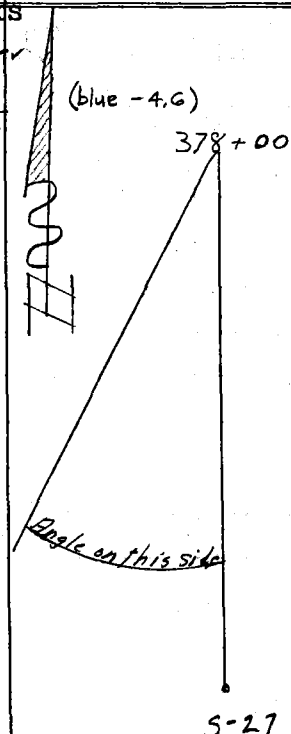
Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		Remarks
Inst. Sight At	On	#	Color		Time	Hor. Ang.		
378+00	S-27	1	37.2	33.8	12-31	72° 28'	1583	Boat +1.0
		2	36.5	33.1		71° 42'	1512	Zero Adj -.5
		3	35.3	31.9		70° 37'	1421	Tide -3.9
		4	34.4	31.9		69° 16'	1321	Net -3.4
		5	33.3	29.9		67° 36'	1213	
		6	32.7	29.3		66° 22'	1143	
		7	31.5	28.1		65° 22'	1090	
		8	30.6	27.2		63° 47'	1015	
		9	29.5	26.1		61° 56'	938	
		10	28.0	24.6		59° 50'	860	
		11	26.4	23.0		58° 15'	808	
		12	24.3	20.9		56° 35'	758	
		13	23.2	19.8		54° 34'	703	
		14	21.9	18.5		52° 37'	654	
		15	20.0	16.6		50° 20'	603	
		16	18.4	15.0		47° 53'	553	
		17	16.9	13.5		45° 05'	501	
		18	14.7	11.3		42° 15'	454	
		19	12.9	9.5		39° 50'	417	
		20	10.1	6.7		34° 40'	346	



Cut 383+00-S

378+00-S

S-27

Profile Notes Red. Plotted Job No. 0300.07 Division No. 10 F. B. 1509 Pg. 67
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by VanDeren Notes J.H. Date 7-26-55
No. Date Date Map No. Indexed Johnson Date

F.B. 1509 PG. 68 Job No. 0300.04 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion studies Date 7-26 55 Date No.

Survey by Van Deren Notes Henderson Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
378+00 S-27	218.0	4.6		28° 17'	269	
	227.0	3.6		24° 35'	229	
	23 Void		12 37	19° 06'	173	Cut in 383+.00-S

378+00-S

S-27

Notes Ck'd by	Survey of Beach Erosion
Map No.	W. O. Tape No. Sr'd. °F
Office Work	Surveyed by Van Deren
Checked	Notes Date
Date	Indexed C. Johnson

F. B. 1509 PG.

July 26, 1955

Tide Gage out of order no reading.

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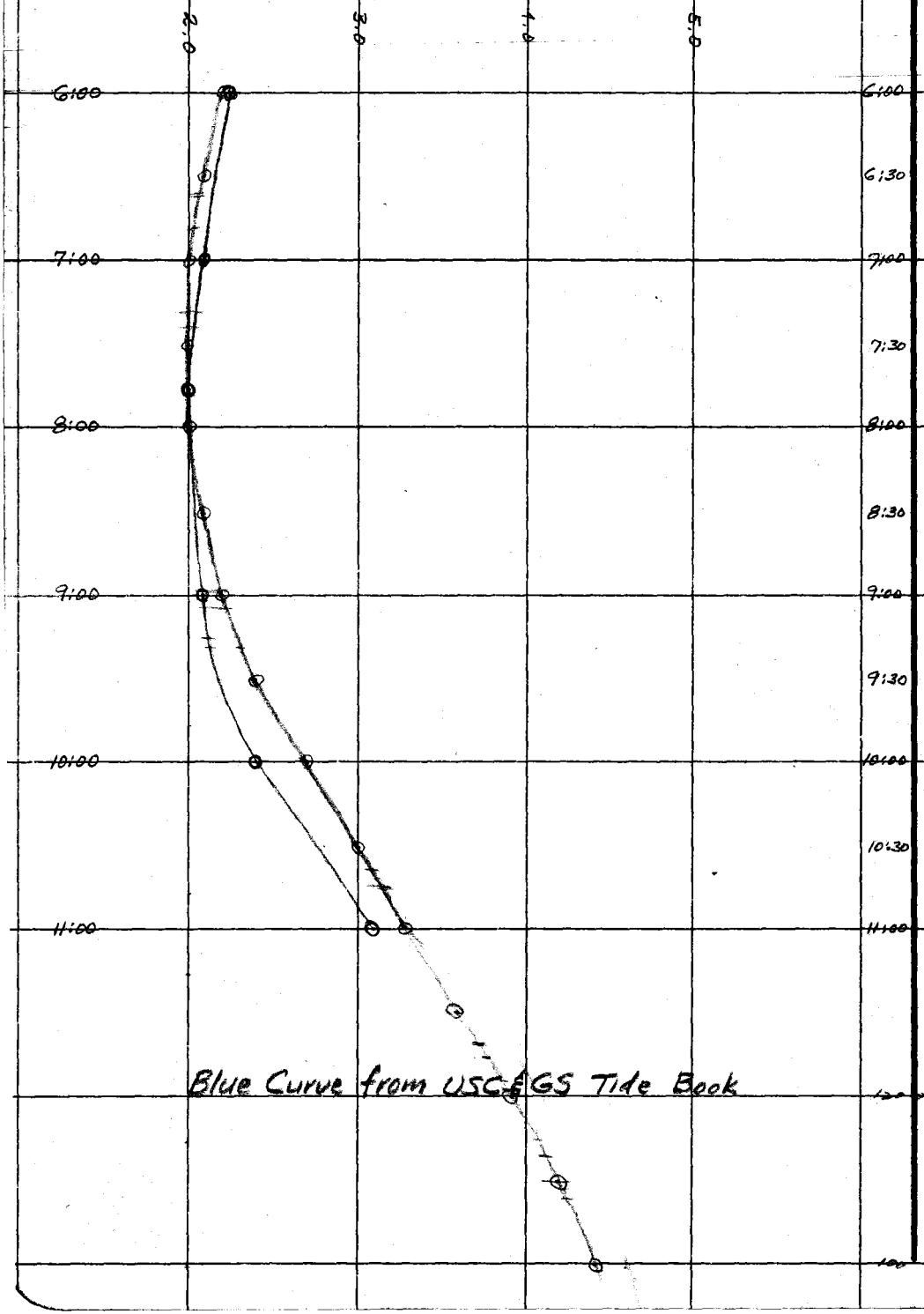
76F3098 247 4-53

Red Curve copied from Hendry Tide Book
for July 26, 1955

F. B. _____ Pg. _____



Blue Curve from USC&GS Tide Book

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.
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Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 1509 Pg. 69
No.	Date	Date	Survey of Beach Erosion Studies		
X-Sec.	Notes Chkd.	Checked	Survey by English Notes Ed.	Date 7-26-55	
No.	Date	Date	Map No. A. C. Johnson Indexed	Date	

Inshore

S. 378+00

Cut-in X

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 375+50	Sight on 378+00
383+00	3.80	17.87		14.07	1X2	
378+00	5.75	19.05	4.57	13.30	1X2	
67' R			1.6	17.4		B.B.
			10.6	8.4	6°46'	30
	2.64	7.56	14.13	4.92	14.34	65
			7.5	0.1	25.47	121
			7.3	0.3	28.43	137
			8.4	-0.8	36.54	188
			9.8	-2.2	43.08	234
			12.0	-4.4	50.19	301
			15.0	-7.4	55.16	361

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76L298 307 8-53

F. B. 1509 Pg. 70

Job No. Division No. Notes Red. Plotted

Profile No.

Survey of Date Date

X-Sec. No.

Survey by Notes Notes Chkd. Checked

Indexed Date Date Date

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

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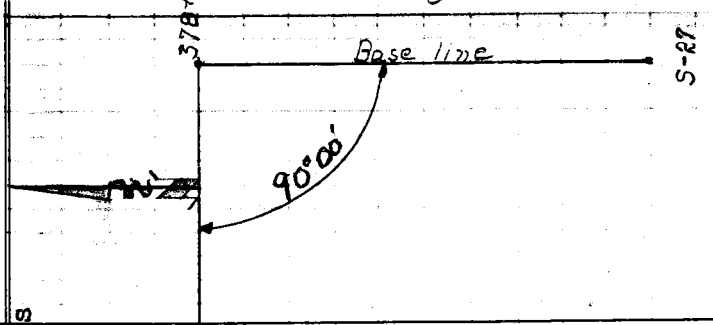
Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 1509	Pg. 71
No.	Date	Date	Survey of Beach Erosion Studies			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes R.T.	Date 7-26-55	
No.	Date	Date	Map No.	Indexed A. C. Johnson	Date	

Range 378+00 -S



STATION	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
Inst. Sight At CH					
378+00 S-27	1			90° 00'	
	2			90° 00'	
	3			90° 00'	
	4			90° 00'	
	5			90° 00'	
	6			90° 00'	
	7			90° 00'	
	8			90° 00'	
	9			90° 00'	
	10			90° 00'	
	11			90° 00'	
	12			90° 00'	
	13			90° 00'	
	14			90° 00'	
	15			90° 00'	
	16			90° 00'	
	17			90° 00'	
	18			90° 00'	
	19			90° 00'	
	20			90° 00	

S-27

378+00-S

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
	21			90° 00'		
	22			90° 00'		
	23			90° 00'		Range 378+00-S
	24			90° 00'		
	25			90° 00'		
	26			90° 00'		
	27			90° 00'		
	28			90° 00'		
378+00-S 5-27	29			90° 00'		
	30			90° 00'		
	31			90° 00'		
	32			90° 00'		
	33			90° 00'		
	34			90° 00'		
	35			90° 00'		
	36			90° 00'		
	37			90° 00'		
	38			90° 00'		
	39			90° 00'		
	40			90° 00'		
	41			90° 00'		
	42			90° 00'		
	43			90° 00'		
	44		6:49	90° 00'		

F. B. 1509 Pg. 72 Job No. 030402 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Studies Date 7-26-55 Date No.
Survey by VanDeren Notes RT Notes Chkd. Checked X-Sec.
Indexed A. C. Johnson Date Date Date No.
Profile

76L298 307 8-53

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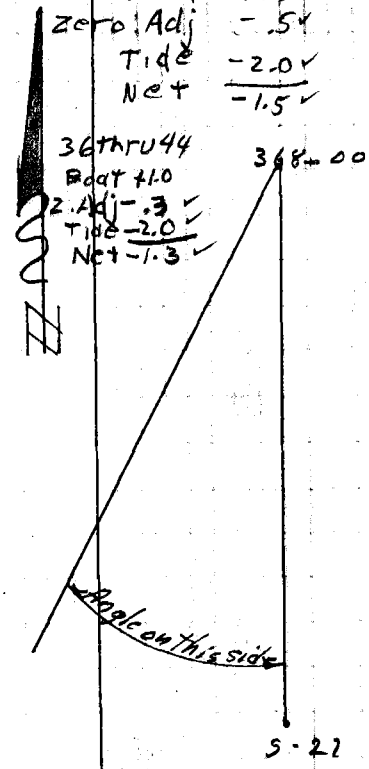
STATION Inst. Sight At	CH	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		
368+00	S-27	1	43.7	42.2	6-37	64° 36'	2106	✓
		2	43.7	42.2		64° 08'	2062	✓
		3	42.4	40.9		63° 20'	1991	✓
		4	41.7	40.2		62° 27'	1917	✓
		5	41.1	39.6		61° 40'	1855	✓
		6	40.4	38.9		60° 55'	1798	✓
		7	39.3	37.8		59° 58'	1730	✓
		8	38.8	37.3		59° 07'	1672	✓
		9	38.0	36.5		58° 07'	1608	✓
		10	37.3	35.8		56° 56'	1536	✓
		11	35.1	33.6		55° 52'	1475	✓
		12	34.0	32.5		54° 30'	1402	✓
		13	32.9	31.4		53° 18'	1342	✓
		14	32.1	30.6		51° 55'	1276	✓
		15	31.5	30.0		50° 52'	1229	✓
		16	30.5	29.0		49° 33'	1173	✓
		17	29.7	28.2		48° 14'	1120	✓
		18	28.7	27.2		46° 50'	1066	✓
		19	28.2	26.7		45° 27'	1016	✓
		20	27.3	25.8		44° 12'	972	✓

Remarks Boat +1.0
Zero Adj -.5
Tide -2.0
Net -1.5

36thru44
Boat +1.0
Z. Adj -.3
Tide -2.0
Net -1.3



Cut in 378+00-S

368+00-S

S-27

Profile Notes Red. Plotted Job No. 0300.01 Division No. 10 F. B. 1509 Pg. 73
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes J. H. Date 7-26-55
No. Date Date Map No. Indexed G. Johnson Date

76L298 307 8-53

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F. B. 1509 Pg. 74 Job No. 03000 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Studies Date 7-26-55 Date No.
Survey by Van Deren Notes J. Henderson Notes Chkd. Checked
Indexed K. C. Johnson Date Date No.
Profile X-Sec.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Color		Time	Hor. Ang.		Remarks
368+00	5-27	21	26.5	25.0		42° 53'	929	
		22	25.5	24.0		41° 33'	886	Cut in 378+00-S
		23	24.5	23.0		39° 53'	836	
		24	23.6	22.1		38° 27'	794	
		25	22.7	21.2		36° 42'	745	
		26	20.8	19.3		35° 09'	704	
		27	19.5	18.0		33° 30'	662	
		28	18.0	16.5		31° 36'	615	
		29	17.0	15.5		30° 03'	579	
368+00-S	5-27	30	15.4	13.9		28° 02'	532	
		31	~~14.1~~ Void			25° 53'	485	
		32	VOID			24° 03'	446	
		33	VOID			22° 08'	407	
		34	VOID			19° 51'	361	
		35	VOID			17° 35'	317	
		36	17.5	16.2		30° 40'	593	
		37	15.8	14.5		28° 51'	551	
		38	14.5	13.2		27° 18'	516	
		39	13.1	11.8		25° 42'	525	
		40	11.8	10.5		23° 36'	437	

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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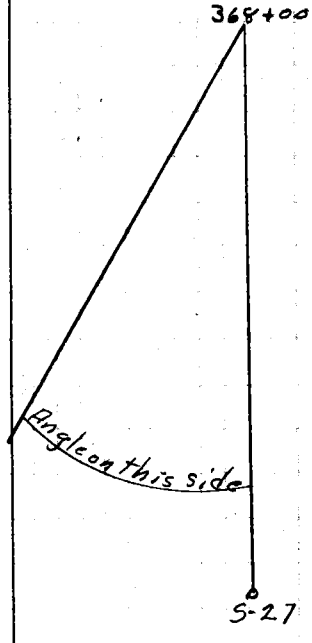
Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		Remarks
Inst. At	Sight On	#	Color	Time		Hor. Ang.		
368+00	S-27	41	10.2	8.9		21° 45'	399 ✓	
		42	8.6	7.3		19° 55'	362 ✓	
		43	6.7	5.4		17° 42'	319 ✓	
		44	6.2	4.9	6-49	15° 33'	278 ✓	



Cut in 378+00-S

S-27
368+00-S

Profile Notes Red ____ Plotted ____ Job No. 2300.01 Division No. 10 F. B. 1509 PG. 75
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Dorsen Notes J.H. Date 7-26-55
No. ____ Date ____ Date ____ Map No. ____ Date ____

F. B. 1509 Pg. 76 Job No. 0300.00 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion studies Date 7-26-55 Date No.

Survey by VanDerch Notes Henderson Notes Chkd. Checked X-Sec.

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

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 1509 Pg. 77
No.	Date	Date	Survey of Beach Erosion Studies		
X-Sec.	Notes Chkd.	Checked	Survey by English Notes Ed.	Date 7-26-55	
No.	Date	Date	Map No. [redacted] Indexed Johnson	Date	

Inshore

S. 373+00

STATION	B. S.	H. I.	F. S.	ELEV.	Inst at 375+50	Sight on 373+00
378+00	4.87	18.17		13.30	1.82	
373+00	5.67	19.57	4.27	13.90	1.82	
74' R			2.5	17.1		B.B.
			10.2	9.4	7°22'	33
	2.87	6.52	15.92	3.65	18.03	81
			7.2	-0.7	31.37	154
			9.4	-2.9	44.17	244
			13.0	-6.5	54.47	354
			16.0	-9.5	62.46	486

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76L298 307 8-53

F. B. 1509 PG. 78 Job No. Division No. Notes Red. Plotted Profile

Survey of Date Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

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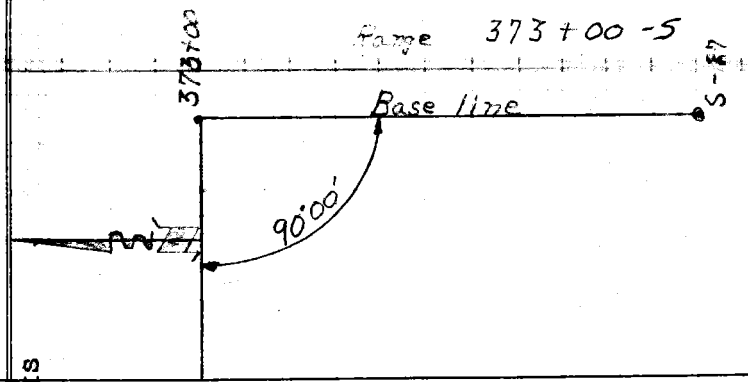
76L298 307 8-53

Profile	Notes Red.	Plotted	Job No. 2300.00	Division No.	F. B. 1509	Pg. 79
No.	Date	Date	Survey of Beach Erosion Studies			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes R.T.	Date 7-26-55	
No.	Date	Date	Map No.	Indexed G. Johnson	Date	

Range 373+00 -S



STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At 373+00 On S-26	#	Color	Time	Hor. Ang.	
	1	1	7:00	90° 00'	
	2			90° 00'	
	3			90° 00'	
	4			90° 00'	
	5			90° 00'	
	6			90° 00'	
	7			90° 00'	
	8			90° 00'	
	9			90° 00'	
	10			90° 00'	
	11			90° 00'	
	12			90° 00'	
	13			90° 00'	
	14			90° 00'	
	15			90° 00'	
	16			90° 00'	
	17			90° 00'	
	18			90° 00'	
	19			90° 00'	
	20			90° 00'	

S-27

373+00 -S

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

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks	
	21			90° 00'		
	22			[illegible]		
	23			90° 00'	Range 373+00-S	
	24			90° 00'		
	25			90° 00'		
	26			90° 00'		
	27			90° 00'		
	28		7:05	90° 00'		
373+00-S						
5-27						

F.B. 1509 Pg. 80
Job No. 0300.02 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Studies Date 7-26-55 Date No.
Survey by Van Dercu Notes R.T. Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.
Profile

76L298 307 8-53

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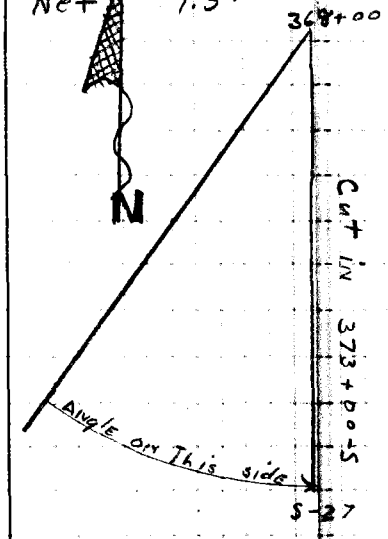
STATION Inst. Sight At	STATION Inst. Sight On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		
368+00	S-27	1	37.7	36.4	6-59	73° 16'	1663	✓
		2	36.8	35.5		72° 33'	1592	✓
		3	36.0	34.7		71° 47'	1519	✓
		4	35.1	33.8		71° 08'	1463	✓
		5	34.5	33.2		70° 34'	1417	✓
		6	33.8	32.5		69° 56'	1369	✓
		7	32.7	31.4		69° 07'	1310	✓
		8	32.2	30.9		68° 33'	1272	✓
		9	31.2	29.9		67° 50'	1227	✓
		10	30.8	29.5		66° 53'	1171	✓
		11	29.7	28.4		65° 37'	1103	✓
		12	28.7	27.4		64° 52'	1066	✓
		13	28.2	26.9		63° 57'	1023	✓
		14	27.2	25.9		62° 45'	972	✓
		15	26.0	24.7		61° 28'	920	✓
		16	25.5	24.2		60° 32'	885	✓
		17	24.1	22.8		58° 48'	825	✓
		18	23.0	21.7		57° 24'	782	✓
		19	22.2	20.9		55° 42'	733	✓
		20	20.7	19.4		53° 40'	679	✓

368+00-S

S-27

Remarks Boat +1.0
Zero Adj -.3 ✓
Tide -2.0 ✓
Net -1.3 ✓



Profile Notes Red. Plotted Job No. 03 0002 Division No. 10 F. B. 1509 Pg. 84
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes J. H. Date 7-26-55
No. Date Date Map No. Date

76L298 307 8-53

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STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Color		Time	Hor. Ang.	Remarks	
368+00	S-27	21	19.2	17.9		51° 50'	636 ✓	
		22	17.7	16.4		49° 50'	592 ✓	Cut in 373+00-S
		23	16.0	14.7		48° 00'	555 ✓	
		24	14.7	13.4		45° 27'	507 ✓	
		25	13.0	11.7		43° 23'	456	
		26	11.1	9.8		40° 20'	425 ✓	
		27	9.4	8.1		36° 26'	369 ✓	
		28	7.4	6.1	7-05	34° 08'	339 ✓	

368+00-S

S-27

F. B. 1509 PG. 82 Job No. 03 00 02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion studies Date 7-27-55 Date No. X-Sec.
Survey by Van Deren Notes Henderson Notes Chkd. Checked
Indexed C. Johnson Date Date No.

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 370+50		Sight on 368+00
373+00	5 16	19 06		13 90	1X2		
368+00	4 19	20 59	2 66	16 40	1X2		
33' R			3 2	17 4			B.B.
			7 0	13 6	11° 08'	49	
			11 5	9 1	15 52	71	
	2 15	8 57	14 17	6 42	20 33	94	
			6 9	1 7	30 36	148	
			9 5	-0 9	43 59	241	
			14 7	-6 1	58 06	401	
368+00	4 19	20 59		16 40	1X2		
5-26			6 84	13 75	5-26, el=13.722, F.B. 2100-155-36		

Inshore
S. 368+00

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 16 F. B. 1509 Pg. 83
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
Notes Chkd. ____ Checked ____ Survey by English Notes Ed. Date 7-26-55
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1509 Pg. 84 Job No. Division No. Notes Red. Plotted Profile

Survey of Date Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

Do not extend notes this side of this line.

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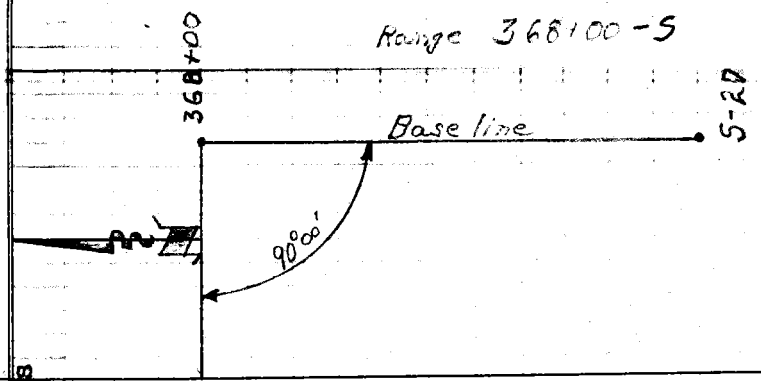
76L298 307 8-53

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 1509	Pg. 85
No.	Date	Date	Survey of Beach Erosion Studies			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes RT	Date 7-26-55	
No.	Date	Date	Map No.	Indexed	Date	

A. C. Johnson



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At CH 368+00 5-27	#	Color	Time	Hor. Ang.	
	1		7:18	90° 00'	
	2			90° 00'	
	3			90° 00'	
	4			90° 00'	
	5			90° 00'	
	6			90° 00'	
	7			90° 00'	
	8			90° 00'	
	9			90° 00'	
	10			90° 00'	
	11			90° 00'	
	12			90° 00'	
	13			90° 00'	
	14			90° 00'	
	15			90° 00'	
	16			90° 00'	
	17			90° 00'	
	18			90° 00'	
	19			90° 00'	
	20			90° 00'	

5-27

368+00 -S

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
368+00	S-27	21			90° 00'		
		22			90° 00'		
		23			90° 00	Range 368+00-S	
		24			90° 00		
		25			90° 00		
		26			90° 00		
		27			90° 00		
368+00	S-27	28		7:25	90° 00		

F.B. 1509 PG. 86
Job No. 0300 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erasion Studies Date Date No.
Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

76L298 307 8-53

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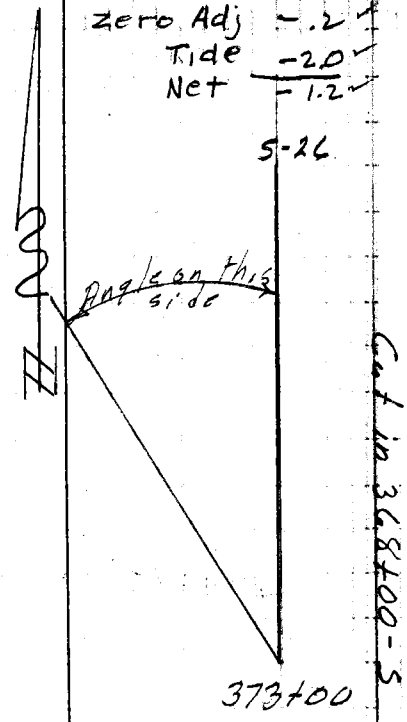
STATION Inst. Sight At	On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks
373+00	S-26	1	36.3	35.1	7-18	72° 45'	1610	✓
		2	35.6	34.4		72° 10'	1554	✓
		3	34.7	33.5		71° 34'	1500	✓
		4	33.6	32.4		70° 44'	1430	✓
		5	32.9	31.7		70° 15'	1393	✓
		6	32.3	31.1		69° 40'	1349	✓
		7	31.3	30.1		68° 57'	1299	✓
		8	30.8	29.6		68° 07'	1245	✓
		9	29.8	28.6		67° 00'	1178	✓
		10	28.9	27.7		66° 35'	1154	✓
		11	28.3	27.1		66° 04'	1126	✓
		12	28.0	26.8		65° 06'	1077	✓
		13	26.9	25.7		64° 08'	1031	✓
		14	25.7	24.5		63° 00'	981	✓
		15	24.7	23.5		61° 45'	930	✓
		16	24.3	23.1		60° 47'	894	✓
		17	23.5	22.3		59° 34'	851	✓
		18	22.0	20.8		57° 27'	783	✓
		19	20.5	19.3		55° 55'	739	✓
		20	18.9	17.7		54 10	692	✓

Boat +1.0
Zero Adj -.2
Tide -2.0
Net -1.2



373+00-S

S-26

Cut in 368+00-S

Profile Notes Red. Plotted Job No. 03000 Division No. 10 F. B. 1509 Pg. 87
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by Van Dercn Notes J. H. Date 7-26-55
No. Date Date Map No. Indexed Date

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F. B. 1509 Pg. 88 Job No. 0300 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Studies Date 7-26-53 Date No. X-Sec.
Survey by Van Dercn Notes HENDERSON Notes Chkd. Checked
Indexed J. C. Johnson Date Date Date No.

STATION	B. S.	H. I.		F. S.	ELEV.		
Inst. At / Sight On	#	Color		Time	Hor. Ang.		Remarks
373+00 5-26	21	18.1	16.9		52° 17'	647 ✓	
	22	17.3	16.1		50° 40'	610	cut in 368+00-5
	23	15.7	14.5		49° 05'	577 ✓	
	24	14.4	13.2		46° 40'	530 ✓	
	25	12.5	11.3		44° 50'	497 ✓	
	26	10.9	9.7		41° 32'	443 ✓	
	27	9.4	8.2		38° 50'	402 ✓	
373+00-5 5-26	28	7.9	6.7	7-25	36° 28'	370 ✓	

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Cut-in ∡

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 360+50		Sight on 363+00
S-26	5 88	19 60		13 72			
363+00	4 84	19 95	4 49	15 11	1X2		
30' R			4 2	15 8			B.B.
			6 7	13 3	6° 45'	36	
	1 16	7 71	13 40	6 55	16 09	72	
		[illegible]	5 8	1 9	25 55	121	
			7 4	0 3	33 20	164	
			8 5	-0 8	39 50	209	
			10 4	-2 7	45 54	258	
			13 0	-5 3	52 23	324	
			16 0	-8 3	57 07	387	

Inshore
S. 363+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 89
No. ____ Date ____ Date ____ Survey of Beach Erosion Stages
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes Ed. Date 7-26-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F. B. 1509 PG. 90 | Job No. 0300.02 | Division No. 10 | Notes Red. | Plotted | Profile

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

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

Indexed | Date | Date | Date | No.

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

76L298 307 8-53

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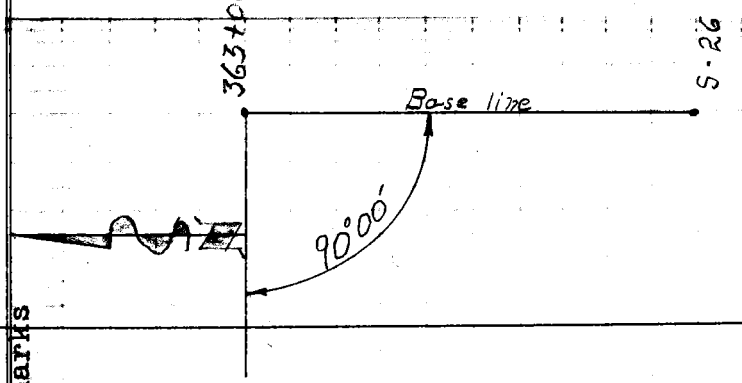
Profile	Notes Red.	Plotted	Job No. 0300.02 Division No. 10	F. B. 1509	Pg. 91
No.	Date	Date	Survey of Beach Erosion Studies		
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren Notes R.T Date 7-26-55		
No.	Date	Date	Map No. Indexed Johnson Date		

Range 363+00 - S



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
363+00 S-26	1		7:56	90° 00'	
	2			90° 00'	
	3			90° 00'	
	4			90° 00'	
	5			90° 00'	
	6			90° 00'	
	7			90° 00'	
	8			90° 00'	
	9			90° 00'	
	10			90° 00'	
	11			90° 00'	
	12			90° 00'	
	13			90° 00'	
	14			90° 00'	
	15			90° 00'	
	16			90° 00'	
	17			90° 00'	
	18			90° 00'	
	19			90° 00'	
	20			90° 00'	

S-26

368+00 -S

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76L298 307 8-53

F. B. 1509 Pg. 92 | Job No. 0700.02 | Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion studies | Date 6-26-55 | Date | No.

Survey by Van Deren Notes R. T | Notes Chkd. | Checked | X-Sec.

Indexed | Date | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight At	Color	Time	Hor. Ang.	Remarks
368+00-S									
5-26									
					#				
					21				
					22				
					23				
					24				
					25				
					On				
									Range 363+00-S

76L298 307 8-53

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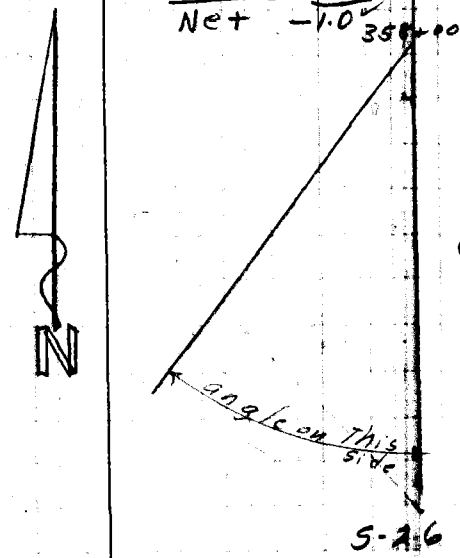
Do not extend notes this side of this line.

STATION Inst. Sight At	Ch	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.	Remarks
358+00	S-	1	39.4	38.4	7-56	73° 54'	1732
		2	37.7	36.7		72° 53'	1624
		3	36.9	35.9		72° 14'	1560
		4	35.3	34.3		71° 35'	1502
		5	34.4	33.4		70° 55'	1445
		6	33.2	32.2		70° 08'	1384
		7	32.2	31.2		68° 55'	1297
		8	31.0	30.0		67° 36'	1213
		9	29.8	28.8		66° 26'	1146
		10	28.3	27.3		65° 30'	1097
		11	27.5	26.5		64° 30'	1048
		12	26.3	25.3		63° 05'	985
		13	25.2	24.2		61° 45'	930
		14	25.0	24.0		60° 02'	867
		15	24.3	23.3		58° 20'	810
		16	22.5	21.5		56° 43'	762
		17	20.2	19.2		54° 30'	701
		18	18.6	17.6		52° 28'	650
		19	16.7	15.7		49° 45'	591
		20	15.8	14.8	8 02	47° 50'	552

Boat +1.0
Zero Adj -0.0
Tide -2.0
Net -1.0



Cut in 363+00-S

358+00-S

S-26

Profile Notes Red. Plotted Job No. 03000 Division No. 10 F. B. 1509 Pg. 93
No. Date Date Survey of Beach Erasion Studies
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes J. H. Date 7-26-55
No. Date Date Map No. Indexed G. Johnson Date

76L298 307 8-53

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F. B. 1509 Pg. 94 | Job No. 03000.03 | Division No. 10 | Notes Red. | Plotted | No. | Profile

Survey of Bench Erosion studies | Date 7-26-55 | Date | No. | X-Sec.

Survey by Van Deren Notes Henderson | Notes Chkd. | Checked

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

STATION	B. S.	H. I.		F. S.	ELEV.		
Inst. At / Sight On	#	Color		Time	Hor. Ang.	Remarks	
358+00	21	13.7	12.7		44° 45'	496	
	22	11.9	10.9		42° 35'	460 Cut in 363+00-S	
	23	10.4	9.4		39° 33'	413	
	24	8.1	7.1		36° 00'	363	
	25	6.7	5.7	8-02	32° 47'	322	
358+00							
5-26							

76L298 307 8-53

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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. Cut-in ∡

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 360+50		Sight on 358+00
363+00	3 86	18 97		15 11	1X2		
358+00	4 65	19 41	4 21	14 76	1X2		
34' R.			2 4	17 0			B.B.
			5 7	13 7	2°42'	12	
			9 4	10 0	7 15	32	
	2 18	7 13	14 46	4 95	16 12	73	
			7 2	-0 1	25 30	119	
			7 8	-0 7	35 03	175	
			8 9	-1 8	42 17	227	
			11 5	-4 4	50 09	300	
			14 3	-7 2	56 09	373	

Inshore
S. 358+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 95
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes Ed. Date 7-26-55
No. ____ Date ____ Date ____ Map No. ____ Index Johnson Date ____

F. B. 1509 Pg. 96

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

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L298 307 8-53

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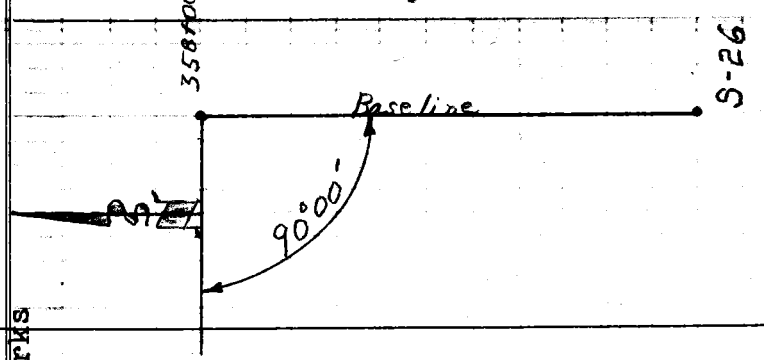
Profile	Notes Red.	Plotted	Job No. 0300-00	Division No. 10	F. B. 1509	Pg. 97
No.	Date	Date	Survey of Beach Erosion Studies			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes R.T.	Date 7-26-55	
No.	Date	Date	Map No. A	Tide Johnson	Date	

Range 358+00-S



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On 358+00 S-26	#	Color	Time	Hor. Ang.	
	1		8:58	90° 00'	
	2			90° 00'	
	3			90° 00'	
	4			90° 00'	
	5			90° 00'	
	6			90° 00'	
	7			90° 00'	
	8			90° 00'	
	9			90° 00'	
	10			90° 00'	
	11			90° 00'	
	12			90° 00'	
	13			90° 00'	
	14			90° 00'	
	15		9:04	90° 00'	
	16				
	17				
	18				
	19				
	20				

S-26

358+00-S

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

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76L298 307 8-53

F. B. 1509 Pg. 98 Job No. 230002 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date 6-26-55 Date No.

Survey by VanDeren Notes R.T Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

76L298 307 8-53

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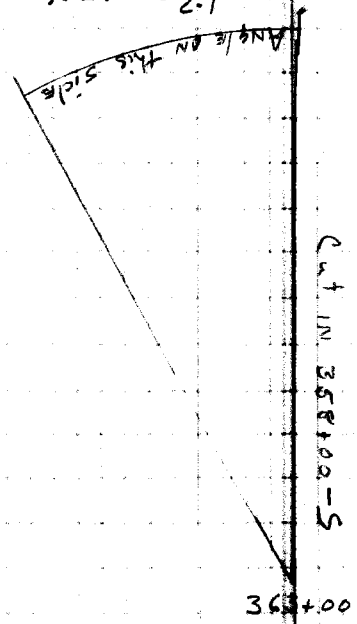
Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.			
~~Inst. Sight~~ At	On	#	Color		Time	Hor. Ang.			Remarks
363+00	S-25	1	29.9	27.8	8-58	65° 46'	1111	✓	Boat +1.0
		2	28.3	26.2		63° 50'	1018	✓	Zero Adj -.9
		3	27.0	24.9		62° 06'	944	✓	Tide -2.2
		4	25.8	23.7		60° 31'	884	✓	Net -2.1
		5	22.1	20.0	9-01	57° 48'	794	✓	S-25
		6	20.1	18.0		54° 26'	700	✓	
		7	18.9	16.8		51° 49'	636	✓	
		8	17.7	15.6		49° 25'	584	✓	
		9	15.7	13.6		46° 36'	529	✓	
		10	14.4	12.3		43° 40'	477	✓	
		11	12.2	10.1		40° 33'	428	✓	
		12	10.3	8.2		36° 37'	371	✓	
		13	8.2	6.1		32° 21'	317	✓	
		14	7.7	5.6		27° 29'	260	✓	
		15	7.1	5.0	9-04	26° 12'	246	✓	



363+00-S
S-25-

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 03 00 Division No. 10 F. B. 1509 Pg 99
X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Map No. ____ Date ____
Survey of Beach Erosion Study
Survey by Karl DeSouter T.H. Date 7-28-55
Notes by Ingred Johnson Date ____

F. B. 1509 PG. 100 Job No. 0300 02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Studies Date 7-26-55 Date _____ No. _____

Survey by Van Deren Notes Henderson Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Profile No. ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 101

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

Survey by English Notes Ed. Date 7-26-55

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

Inshore

S. 353+00

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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Cut-in ∡

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 350+50	Sight on 353+00
358+00	3 12	17 88		14 76	1X2	
353+00	4 25	18 62	3 51	14 37	1X2	
15' R			2 2	16 4		B.B.
			8 9	9 7	6° 25'	28
	2 08	10 98	9 72	8 90	6 58	30
			7 1	3 9	22 05	101
			8 9	2 1	35 39	179
			12 0	-1 0	47 37	274
			13 7	-2 7	51 23	313
			16 0	-5 0	52 45	329

76L298 307 8-53

F. B. 1509 Pg. 102 | Job No. | Division No. | Notes Red. | Plotted | Profile

Survey of | Date | Date | No.

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

Indexed | Date | Date | Date | No.

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

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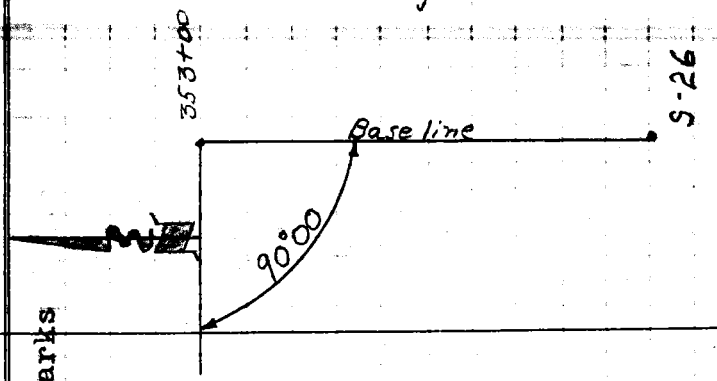
76L298 307 8-53

Profile	Notes Red.	Plotted	Job No. 0300.00	Division No. 10	F. B. 1509	Pg. 103
No.	Date	Date	Survey of Beach Erosion Study			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes R.T	Date 7-26-55	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	

Range 353+00-S



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OH	#	Color	Time	Hor. Ang.	
353+00 S-26	1		9:15	90°00'	
	2			90°00'	
	3			90°00'	
	4			90°00'	
	5			90°00'	
	6			90°00'	
	7			90°00'	
	8			90°00'	
	9			90°00'	
	10			90°00'	
	11			90°00'	
	12			90°00'	
	13			90°00'	
	14			90°00'	
	15			90°00'	
	16			90°00'	
	17		9:19	90°00'	
	18				
	19				
	20				

S-26

353+00-S

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76L298 307 4-50

F. B. 1509 Pg. 109 | Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date 7-26-55 Date No.

Survey by VanDeren Notes R. T. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

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76L298 307 4-50

76L298 307 8-53

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

Notes Red. ____ Date ____ Notes Chkd. ____ Date ____

Plotted ____ Date ____ Checked ____ Date ____

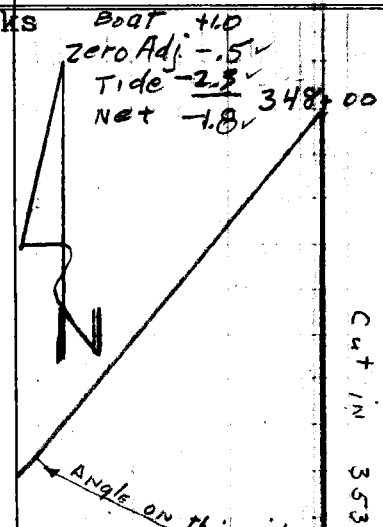
Job No. 6300 03 Division No. 10 F. B. 1509 PG. 1/03

Survey of Beach Erosion studies

Survey by Van Deben Notes by H. Date 7-28-55

Map No. ____ Index Johnson Date ____

STATION Inst. Sight At	On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.			Remarks
348+00	S-26	1	30.6	28.8	9-15	70° 36'	1420	✓	Boat +1.0
		2	29.2	27.4		65° 32'	1099	✓	Zero Adj. -.5
		3	27.7	25.9		64° 09'	1032	✓	Tide -2.3
		4	26.9	25.1		62° 56'	978	✓	Net -1.8
		5	25.9	24.1		61° 07'	906	✓	
		6	24.4	22.6		59° 42'	856	✓	
		7	23.3	21.5		58° 00'	800	✓	
		8	22.1	20.3		56° 35'	758	✓	
		9	20.1	18.3		54° 35'	703	✓	
		10	18.9	17.1		52° 17'	647	✓	
		11	17.0	15.2		49° 28'	585	✓	
		12	15.5	13.7		46° 50'	533	✓	
		13	13.8	12.0		43° 16'	471	✓	
		14	11.5	9.7		39° 17'	409	✓	
		15	9.5	7.7		36° 06'	365	✓	
		16	7.9	6.1		31° 02'	301	✓	
		17	6.4	4.6	9-19	26° 01'	244	✓	



348+00-S S-26

F. B. 1509 PG. 106 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date 7-27-55 Date No.

Survey by Van Deren Notes Henderson Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

76L298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 350+50		Sight on 348+00
353+00	4 13	18 50		14 37	1X2		
348+00	4 99	18 37	5 12	13 38	1X2		
21' R.			3 3	15 1			E.S.
			8 5	9 9	5° 24'	24	
	2 35	9 64	11 08	7 29	10 28	46	
			7 4	2 2	19 26	88	
			10 0	-0 4	24 13	112	
			9 4	0 2	25 43	120	
			10 6	-1 0	36 07	182	
			13 7	-4 1	49 05	288	
			17 0	-7 4	58 31	408	
348+00	4 99	18 37		13 38			
B.M. S-25			7 50	10 87	S-25, el. = 10.875		F.B. 2100-156

Inshore
S. 348+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 107
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes Ed. Date 7-26-55
No. ____ Date ____ Date ____ Map No. ____ Inspected Johnson Date ____

F. B. 1509 PG. 108 Job No. _____ Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L298 307 8-53

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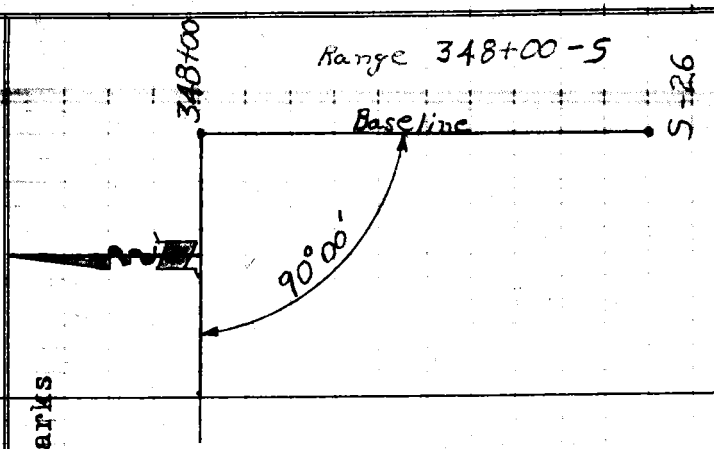
Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 1509	Pg. 109
No.	Date	Date	Survey of Beach Erosion Studies			
X-Sec.	Notes Chkd.	Checked	Survey by van Deren	Notes RT.	Date 7-26-55	
No.	Date	Date	Map No.	Index Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At 348+00 On S-26	#	Color	Time	Hor. Ang.	
	1		9:29	90° 00'	
	2			90° 00'	
	3			90° 00'	
	4			90° 00'	
	5			90° 00'	
	6			90° 00'	
	7			90° 00'	
	8			90° 00'	
	9			90° 00'	
	10			90° 00'	
	11			90° 00'	
	12			90° 00'	
	13			90° 00'	
	14			90° 00'	
	15			90° 00'	
	16			90° 00'	
				9:32	

S-26

348+00-S

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76L298 307 4-50

F. B. 1509 Pg. 110 | Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Studies Date 7-26-55 Date _____ No. _____

Survey by Van Dercn Notes R-T Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

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761.298 307 4-50

76L298 307 8-53

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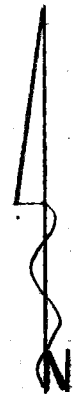
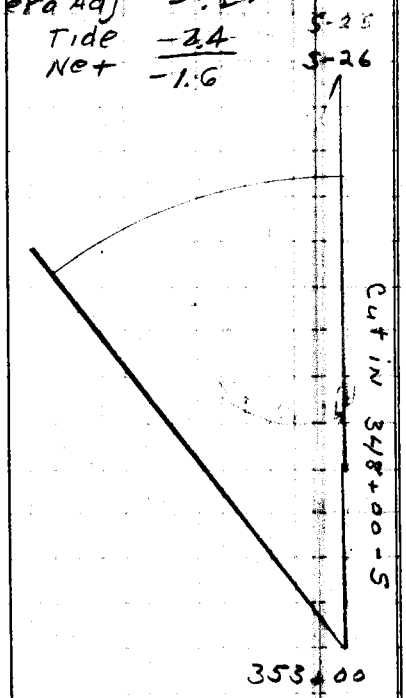
STATION	B. S.	H. I.		F. S.	ELEV.		
Inst. Sight At On	#	Color		Time	Hor. Ang.		
	1	~~28.5~~ Void		9-29	66° 07'	1129	✓
	2	27.1	25.5		64° 17'	1038	✓
	3	25.5	23.9		62° 48'	973	✓
	4	24.1	22.5		61° 05'	905	✓
	5	22.7	21.1		59° 15'	840	✓
	6	21.4	19.8		57° 06'	774	✓
	7	20.6	19.0		54° 50'	710	✓
	8	19.3	17.7		52° 57'	662	✓
	9	17.8	16.2		50° 41'	611	✓
	10	15.8	14.2		47° 40'	549	✓
	11	13.6	12.0		43° 56'	482	
	12	11.6	10.0		40° 15'	423	✓
	13	9.3	7.7		35° 50'	361	✓
	14	7.6	6.0		32° 15'	315	✓
	15	6.3	4.7		27° 12'	257	✓
	16	5.4	3.8	9-32	24° 07'	224	✓

Remarks Boat +1.0
Zero Adj -.2
Tide -2.4
Net -1.6





353+00-S

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 111
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes J. H. Date 7-26-55
No. Date Date Map No. Indexed G. Johnson Date

F. B. 1509 Pg. 112 Job No. 0300 02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion studies Date 7-26-55 Date No.

Survey by Van Deren Notes Henderson Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

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

Do not extend notes this side of this line.

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

761.298 307 8-53

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. 1509 Pg.

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

F. B. 1509 Pg.

July 27, 1955

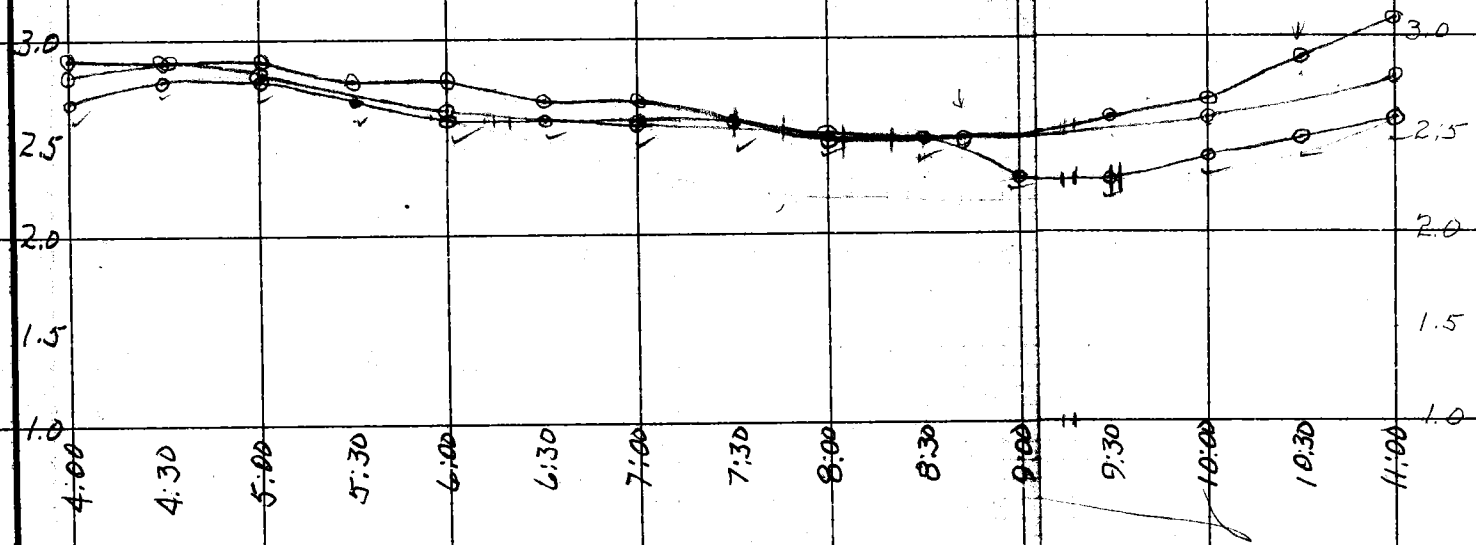
TIDE GAGE

Red Curve copied from Hendry Tide Book

Blue Curve from USC&GS Tide Tables

Standard Time

July 27, 1955



Hour	Tide
4:00 ✓	2.7
4:30	2.8
5:00	2.8
5:30	2.7
6:00	2.6
6:30	2.6
7:00	2.6
7:30	2.6
8:00	2.5
8:30	2.5
9:00	2.3
9:30	2.3
10:00	2.4
10:30	2.5
11:00	2.6

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

Do not extend notes this side of this line.

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76L298 307 8-53

5.14
10.88 (16.06 Pipe el.

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

7.57
2.43
5.14 Pipe

Do not extend notes this side of this line.

Cut-in ∡

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at S-25		Sight on 343+00	
S-25	7 23	18 61		10.88				
343+00			3 46	15 15	1X2			
16' R.			1 2	[illegible]			B.K.	
47' R			0 [illegible]	[illegible] 5		[illegible]	B.B.	Dist
			4 6	14 0	9° [illegible]	88°05		21
			8 0	10 6	[illegible]	79°28		40
	2 59	1 [illegible]	12 10	[illegible] 51	[illegible]	66 09		71
			7 7	1 7	[illegible]	51 18		115
			~~[illegible]~~	~~-0 7~~				
			9 6	-0 5	51 09	46 51		131
			9 2	-0 1	62 [illegible]	35 31		188
			10 5	-1 4	69 [illegible]	28 50		238
			13 8	-4 7	78 56	19 04		369
			18 0	-8 4	83 [illegible]	14 31		487

S-25 is Sta. 344+23.01

Inshore
S. 343+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 113
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes Ed. Date 7-27-55
No. ____ Date ____ Date ____ Map No. ____ Date ____

F. B. 1509 Pg. 114 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

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

Indexed Date Date Date No.

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

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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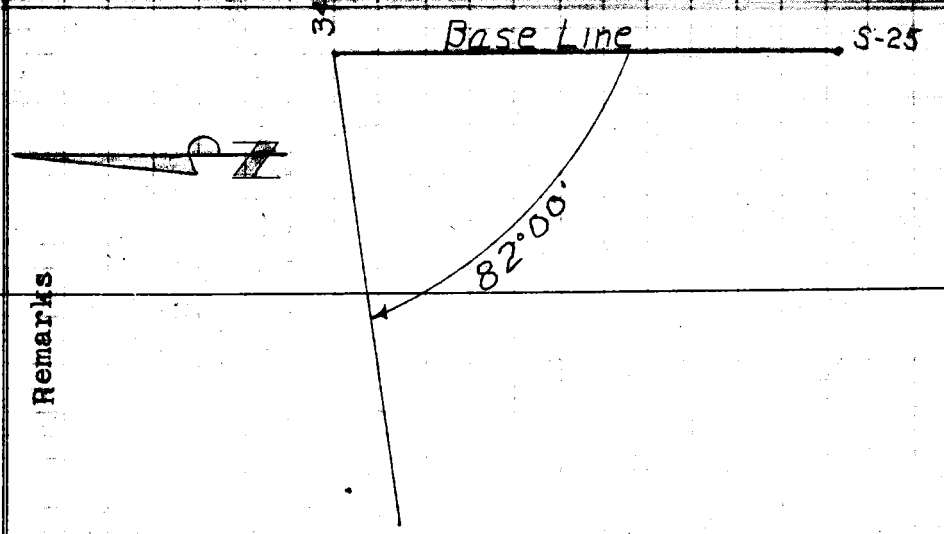
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 1509	Pg. 115
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J. H.	Date 7-27-55	
No.	Date	Date	Map No.	Indexed Johnson	Date	

Range Line 343+00-S



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OH	#	Color	Time	Hor. Ang.	
	1		5-55	82°00'	
	2			82°00'	
	3			82°00'	
	4			82°00'	
	5			82°00'	
	6			82°00'	
	7			82°00'	
	8			82°00'	
	9			82°00'	
	10			82°00'	
	11			82°00'	
	12			82°00'	
	13			82°00'	
	14			82°00'	
	15			82°00'	
	16			82°00'	
	17			82°00'	
	18			82°00'	
	19			82°00'	
	20			82°00'	

S-25

343+00

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 4-50

F. B. 1509 Pg. 116 | Job No. 0300.02 Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion | Date 7-55 | Date | No.

Survey by Van Deren | Notes HENDERSON | Notes Chkd. | Checked | X-Sec.

Indexed L. O. Johnson | Date | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
343+00	21		5-59	82° 00'	
S-25	22			82° 00'	Range 343+00-S

Do not extend notes this side of this line.

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76L298 307 4-50

76L298 307 8-53

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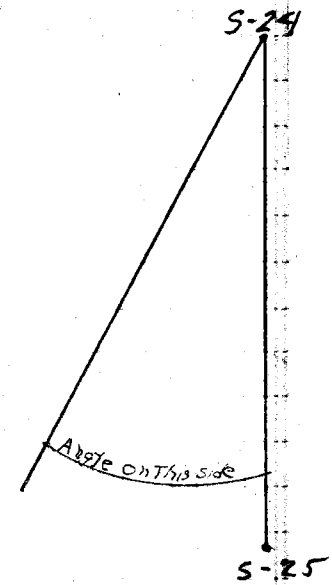
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.		Remarks
Inst. Sight At / On	#	Color		Time	Hor. Ang.		
	1	35.8	33.7	5:55	61° 53'	1520	
	2	34.2	32.1		60° 29'	1402	
	3	32.2	30.1		59° 00'	1294	
	4	30.6	28.5		57° 34'	1204	
	5	29.3	27.2		56° 42'	1153	
	6	28.4	26.3		55° 45'	1100	
S-24 / S-25	7	27.2	25.1		54° 43'	1051	
	8	26.0	23.9		53° 27'	990	
	9	25.0	22.9		51° 43'	920	
	10	23.8	21.7		50° 37'	872	
	11	23.0	20.9		48° 55'	815	
	12	22.0	19.9		47° 13'	760	
	13	20.8	18.7		45° 39'	710	
	14	19.1	17.0		43° 53'	660	
	15	17.1	15.0		41° 44'	606	
	16	15.6	13.5		39° 26'	555	
	17	14.1	12.0		37° 05'	545	
	18	12.7	10.6		34° 32'	452	
	19	10.8	8.7		31° 56'	407	
	20	8.7	6.6		29° 03'	359	

Boat +1.0
Zero Adj -.5
Tide -2.6 2.8
Net -2.1



Cut in 343+00-S

Profile Notes Red. Plotted Job No. 03002 Division No. 10 F. B. 1509 Pg. 117
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 7-27-55
No. Date Date Map No. Edited Johnson Date

F. B. 1509 Pg. 118 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 7-27-55 Date No.

Survey by van Doren Notes R.T. Notes Chkd. Checked X-Sec.

Indexed C. Johnson Date Date Date No.

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.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
S-24		21	6.4 4.3		25° 52'	Cut in 343+00-S
S-25		22	5.0 2.9	5:59	21° 21'	310 247

76L298 307 8-53

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Do not extend notes this side of this line.

Cut-in ∡

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 338+00		Sight on 340+50	
343+00	7 66	22 81		[illegible]	[illegible]			
340+50	1 35	[illegible]	[illegible]	[illegible]	Nail			
20' L			[illegible]	[illegible]			[illegible]	Dist
			[illegible]	13 4	12° 54'	69	06	58
	[illegible]	[illegible]	14 67	7 26	20 [illegible]	62	40	93
			7 3	1 6	28 35	53	25	149
			8 7	[illegible]	35 56	46	04	204
			10 5	-1 6	42 [illegible]	39	55	261
			13 9	-5 0	47 [illegible]	34	27	326
			17 0	-8 [illegible]	51 21	32	39	383

Inshore
S. 340+50

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes Ed. Date 7-27-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F. B. Pg. 119

F. B. 1509 PG. 120 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Studies. Date Date No.

Survey by English Notes Ed. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

Do not extend notes this side of this line.

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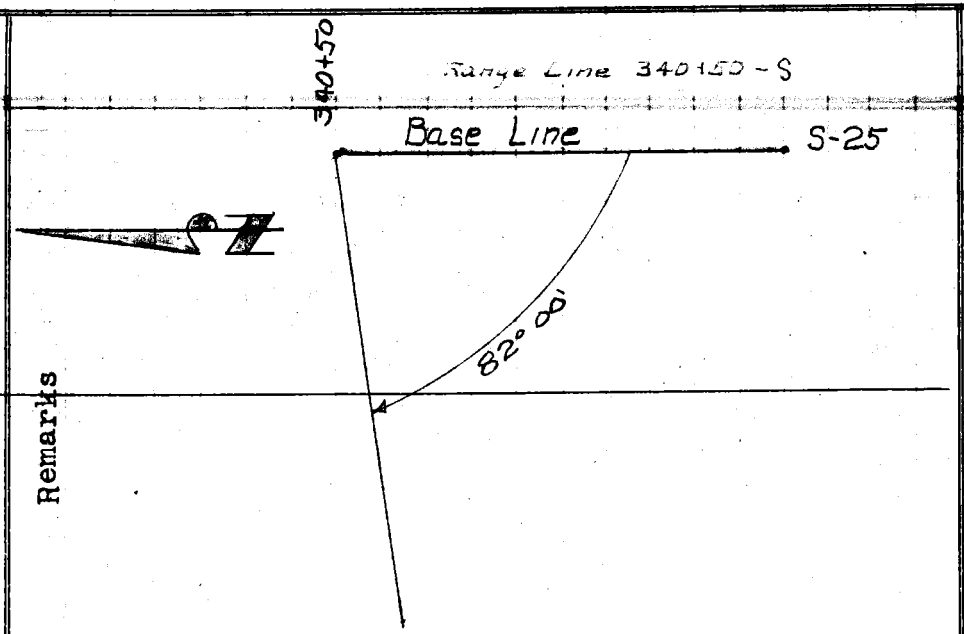
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

76L298 307 8-53

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 1509	Pg. 121
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.H.	Date 7-27-55	
No.	Date	Date	Map No.	Indexed E. C. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OR	#	Color	Time	Hor. Ang.	
340+50 S-25	1		6-11	82° 00'	
	2			82° 00'	
	3			82° 00'	
	4			82° 00'	
	5			82° 00'	
	6			82° 00'	
	7			82° 00'	
	8			82° 00'	
	9			82° 00'	
	10			82° 00'	
	11			82° 00'	
	12			82° 00'	
	13			82° 00'	
	14			82° 00'	
	15			82° 00'	
	16			82° 00'	
	17			82° 00'	
	18			82° 00'	
	19			82° 00'	
	20		6-15	82° 00'	

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LOS ANGELES COUNTY SURVEYOR
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76L298 307 4-50

F. B. 1509 PG. 122

Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date 7-27-55 Date _____ No. _____

Survey by Van Deren Notes HENDERSON Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L298 307 4-50

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

Do not extend notes this side of this line.

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

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

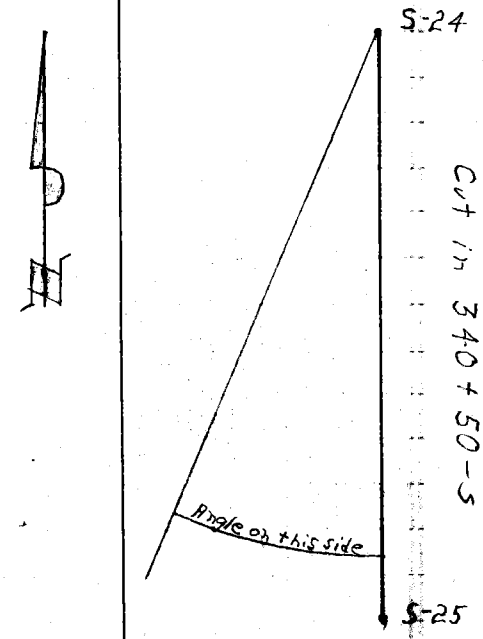
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.		F. S.	ELEV.	
Inst. Sight At On	#	Color		Time	Hor. Ang.	
	1	33.2	31.1	6:11	68° 40'	1372
	2	32.0	29.9		67° 42'	1273
	3	30.5	28.4		67° 16'	1231
	4	29.3	27.2		66° 32'	1171
	5	27.8	25.7		65° 50'	1120
	6	26.4	24.3		64° 53'	1050
	7	25.1	23.0		63° 31'	956
S-24 S-25	8	23.2	21.1		62° 16'	891
	9	21.9	19.8		60° 29'	810
	10	20.6	18.5		59° 07'	750
	11	19.2	17.1		57° 32'	690
	12	17.4	15.3		55° 34'	628
	13	15.7	13.6		53° 40'	575
	14	13.5	11.4		51° 26'	520
	15	11.6	9.5		48° 31'	460
	16	9.7	7.6		46° 13'	418
	17	7.9	5.8		43° 06'	363
	18	6.5	4.4	6:15	38° 03'	300

Remarks

Boat +1.0
Zero Adj -.5
Tide -2.6 2.8
Net -2.1



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 123
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 7-27-55
No. Date Date Map No. Indexed Johnson Date

F. B. 1509 PG. 124 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 7-27-55 Date No.

Survey by Van Deren Notes R. T. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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761.298 307 8-53

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

Cut-in ∡

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 340+50		Sight on 338+00	
340+50	6 50	[illegible] 88		20 38	Nail			
338+00	1 55	[illegible] 91	4 52	22 3[illegible]	N.&T.			
12' ∡			1 5	22 3		Comp	T.B.	Dist
			7 0	[illegible] 9	6° 22'	91 38	B.B.	28
			10 [illegible]	13 6	16 32	81 28	B.R.	72
			13 [illegible]	[illegible]	22 [illegible]	75 28	"	99
	1 [illegible]	1[illegible]	[illegible]	[illegible] 95	2[illegible] [illegible]	73 11		110
			6 [illegible]	3 2	36 [illegible]	61 16		171
			12 1	[illegible]	[illegible] 42	48 18		255
			14 [illegible]	[illegible]	6[illegible] 35	30 25		456
338+00	1 55	23 91		22 36	N.&T.			
S-24	4 41	26 32	2 00	21 91	S-24, el = 2[illegible]		F.B. [illegible]	157
335+00			5 37	[illegible] 95	N.&T.			

Inshore
S. 338+00

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F.B. 1509 Pg. 125
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by English Notes Ed. Date 7-27-55
No. Date Date Map No. Indexed Johnson Date

F. B. 1509 Pg. 126 | Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by English Notes Ed. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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761.298 307 8-53

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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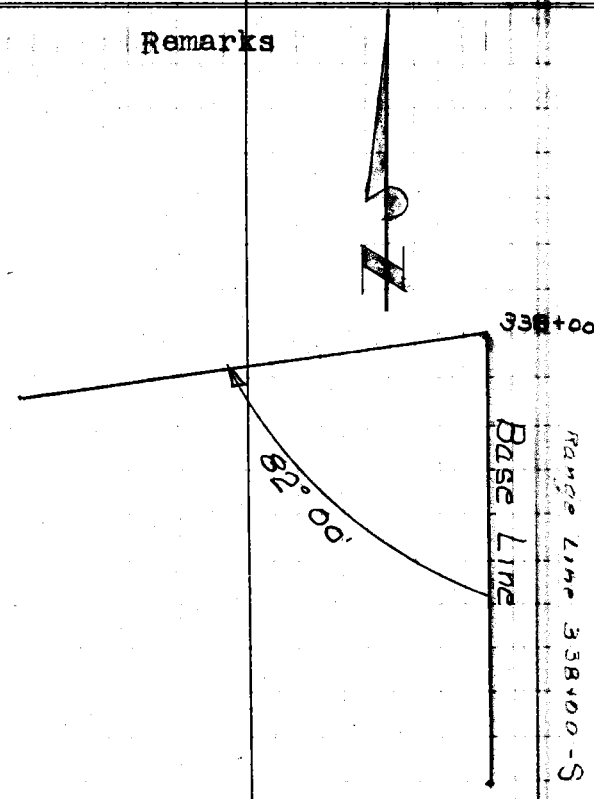
Profile Notes Red ____ Plotted ____ Job No. 0390.02 Division No. 10 F. B. 1509 Pg. 127
No. ____ Date ____ Date ____ Survey of Beach Erosion
X-Sec. Notes Chkd ____ Checked ____ Survey by Van Doren Notes J. H. Date 7-27-58
No. ____ Date ____ Date ____ Map No. ____ Index Johnson Date ____

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
338+00 S-25	1		6-25	82°00'		
	2			82°00'		
	3			82°00'		
	4			82°00'		
	5			82°00'		
	6			82°00'		
	7			82°00'		
	8			82°00'		
	9			82°00'		
	10			82°00'		
	11			82°00'		
	12			82°00'		
	13			82°00'		
	14			82°00'		
	15			82°00'		
	16			82°00'		
	17			82°00'		
	18			82°00'		
	19			82°00'		
	20			82°00'		



F. B. 1509 Pg. 128

Job No. 0300DV Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date 7-27-55 Date _____ No. _____

Survey by Van Deren Notes HENDERSON Notes Chkd. _____ Checked _____ X-Sec.

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

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
338+00 S-25	21		6-29	82° 00'		Range line 338+00-S

76L298 307 8-53

PLEASE RETURN TO
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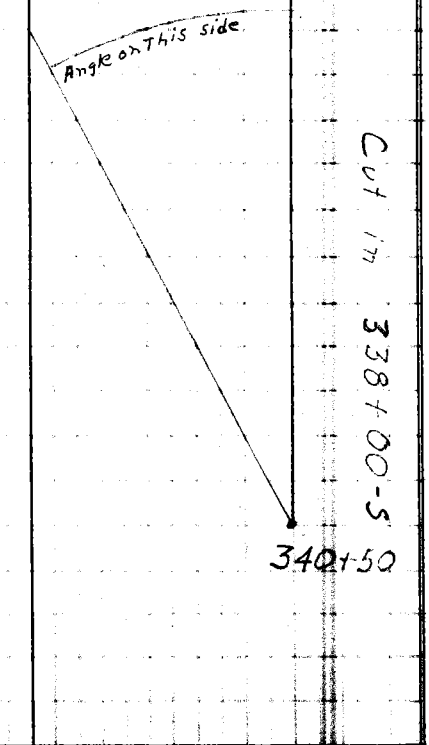
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8300.02 Division No. 10 F. B. 1509 Pg. 129
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion
Notes Chkd ____ Checked ____ Survey by Van Perch Notes RT Date 7-27-55
Date ____ Date ____ Map No. ____ Checked Johnson Date ____

STATION Inst. Sight At	Ch	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.	1423 Comp't		Remarks
		1	33.5	31.4	6:25	87° 53'	1007	1422	Bogt 41.0
									zero Adj -.5
									Tide -2.6 = 2.7
									Net -2.1
		2	31.6	29.5		87° 37'	1023	1386	
		3	30.9	28.8		87° 24'	1036	1358	
		4	29.7	27.6		86° 46'	1114	1281	
		5	28.9	26.8		85° 49'	1211	1182	
		6	27.7	25.6		85° 11'	1249	1123	
		7	26.6	24.5		84° 39'	1321	1078	
		8	25.5	23.4		83° 44'	1416	1008	
		9	24.2	22.1		82° 51'	1509	949	
		10	23.4	21.3		81° 58'	1602	896	
		11	22.0	20.0		81° 16'	1644	858	
		12	21.0	18.9		80° 18'	1742	811	
		13	19.8	17.7		79° 25'	1835	771	
		14	18.1	16.0		77° 46'	2014	706	
		15	16.8	14.7		76° 13'	2147	654	
		16	15.4	13.3		74° 46'	2314	611	
		17	13.5	11.4		73° 03'	2457	567	
		18	12.0	9.9		70° 48'	2712	517	
		19	10.1	8.0		68° 16'	2944	468	
		20	8.5	6.4		65° 35	3225	425	



340+50 S-24

F. B. 1909 Pg. 130 Job No. 230.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 7-27-55 Date No.

Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

340+50

S-24

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At	#	Color	Time	Hor. Ang.	
OH	21	Void	6.29	61° 02	Cut in 338+00-S

761.298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 8-53

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Cut-in ∡

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at S-23		Sight on 335+00
335+00	1 44	22 39		20 95	N&T		
11' R			1 5	20 9			T.B.
			6 1	16 3	10 39	30	B.B.
			8 4	14 0	21 41	63	
			10 8	11 6	30 05	91	
	0 79	8 37	15 01	7 38	39 53	132	
			7 1	1 3	47 38	186	
			9 1	0 3	57 17	246	
			12 6	-4 2	67 41	385	
			18 0	-9	70 04	436	
335+00	1 44	22 39		20 95	N&T		
S-23	1.2 3	21 29	2 33	20 06	S-23, c/s 20.069, F.B. 2180-157		
333+00			1 23	20 06			

Inshore
S. 335+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 131
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes Ed. Date 7-27-55
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

F. B. 1509 Pg. 132 | 0300.02 Job No. Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by English Notes Ed. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

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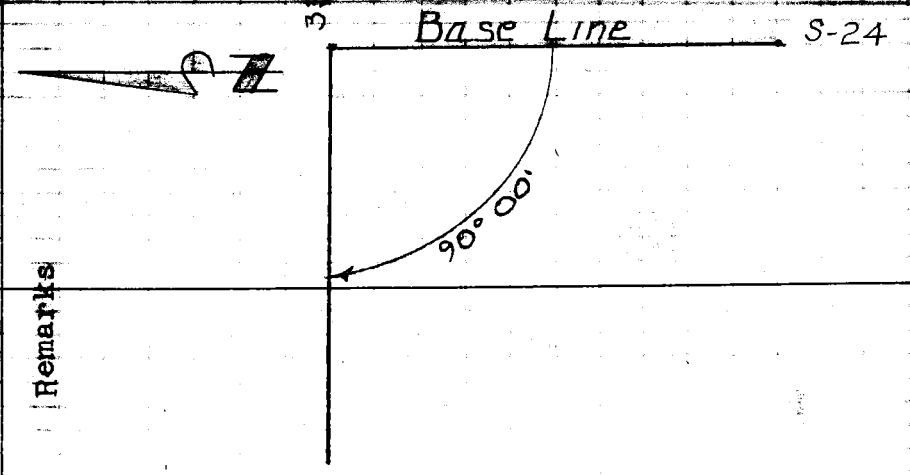
76L298 307 8-53

Profile	Notes Red.	Plotted	Job No. 0300.02 Division No. 10	F. B. 1508 PG. 133
No.	Date	Date	Survey of Beach Erosion	
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren Notes J. H. Date 7-27-55	
No.	Date	Date	Map No. A. C. Johnson Indexed Date	

Range Line 335+00-S



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OR	#	Color	Time	Hor. Ang.	
	1		6-41	90° 00'	
	2			90° 00'	
	3			90° 00'	
	4			90° 00'	
	5			90° 00'	
	6			90° 00'	
	7			90° 00'	
	8			90° 00'	
	9			90° 00'	
	10			90° 00'	
	11			90° 00'	
	12			90° 00'	
	13			90° 00'	
	14			90° 00'	
	15			90° 00'	
	16			90° 00'	
	17			90° 00'	
	18			90° 00'	
	19			90° 00'	
	20			6-45	90° 00'

S-24

335+00

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76L298 307 4-50

F. B. 1509 PG. 134

Job No. 0300 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by Van Deren Notes HENDERSON Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

76L298 307 4-50

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

76L298 307 8-53

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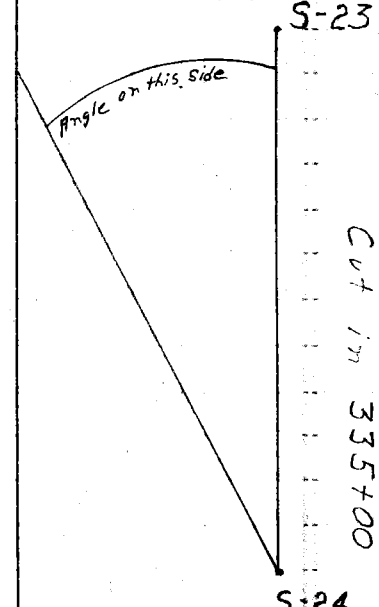
Do not extend notes this side of this line.

STATION	B. S.	H. I.		F. S.	ELEV.		
Inst. At / Sight On	#	Color		Time	Hor. Ang.		Remarks
	1	32.0	29.9	6:41	81° 04'	1358	
	2	30.3	28.2		80° 23'	1260	
	3	29.0	26.9		79° 48'	1186	
	4	27.8	25.7		78° 59'	1096	
	5	25.9	23.8		78° 36'	1059	
	6	24.6	22.5		77° 51'	991	
	7	23.4	21.3		77° 08'	935	
	8	22.4	20.3		76° 09'	866	
S-24 S-23	9	21.2	19.1		75° 07'	803	
	10	19.7	17.6		73° 44'	732	
	11	18.1	16.0		72° 18'	669	
	12	16.7	14.6		71° 38'	643	
	13	15.3	13.2		70° 34'	605	
	14	13.7	11.6		68° 26'	540	
	15	12.2	10.1		67° 04'	505	
	16	10.4	8.3		65° 37'	471	
	17	8.0	5.9		63° 09'	422	
	18	6.3	4.2		60° 32'	378	
	19	4.7	2.6	6:45	67° 24'	513	334?

Feet
Boat +1.0
zero Adj. .5
tide -2.6 -2.7
Net -2.1



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 135
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 7-27-
No. Date Date Map No. Checked Johnson Date

F. B. 1509 Pg. 136 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 7-27-55 Date No.

Survey by Van Doren Notes R.T. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

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76L298 307 8-53

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 1509	Pg. 137
No.	Date	Date	Survey of Beach Erosion Studies			
X-Sec.	Notes Chkd.	Checked	Survey by English	Notes Ed.	Date 7-27-55	
No.	Date	Date	Map No.	Indexed Johnson	Date	

Inshore

S. 333+00

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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Cut-in 4

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 338+00	Sighton 333
333+00	1.23	21.29		20.06	Sak.	
16' R			1.1	20.[illegible]		Erk.
28' R			5.5	15.[illegible]		
60' R			0.[illegible]	1[illegible]		
95' R			7.5	1[illegible]		
			7.8	9.5	18°18' 99	
			14.[illegible]	[illegible]	23.39 125	
	0.96	7.38	14.87	6.93	23.44 132	
			6.2	1.[illegible]	30.09 174	
			7.0	0.[illegible]	35.58 218	
			9.9	-2.5	40.[illegible] 286	
			12.8	-5.[illegible]	51.1[illegible] 374	
			17.0	-9.[illegible]	55.45 441	

76L298 307 8-53

F. B. 1509 Pg. 138 | 0300.02 Job No. Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by English Notes Ed. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

76L298 307 8-53

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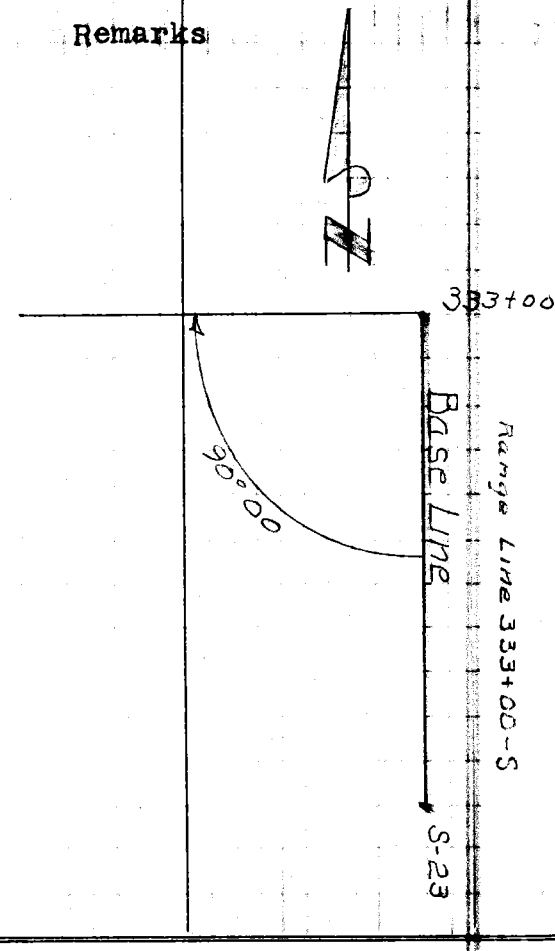
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. Sight At On	#	Color	Time	Hor. Ang.
333+00 S-23	1		7-01	90° 00'
	2			90° 00'
	3			90° 00'
	4			90° 00'
	5			90° 00'
	6			90° 00'
	7			90° 00'
	8			90° 00'
	9			90° 00'
	10			90° 00'
	11			90° 00'
	12			90° 00'
	13			90° 00'
	14			90° 00'
	15			90° 00'
	16			90° 00'
	17			90° 00'
	18			90° 00'
	19			90° 00'
	20			90° 00'

Remarks



Profile No. ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 03000.02 Division No. 10 Survey of Beach Erosion

X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by Van Deren Notes J. H. Date 7-27-55 Map No. ____ Indexed C. Johnson Date ____

F. B. 1509 Pg. 139

F. B. 1509 PG. 140 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Date 7-27-55 Date No.
Survey by Van Deren Notes Henderson Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

761298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
333+00	S-23	20			90° 00'		
		21			90° 00'		
		22			90° 00'		
		23			90° 00'	Range 333+00-S	
		24			90° 00'		
		25			90° 00'		
		26			90° 00'		
		27			90° 00'		
		28			90° 00'		
		29			90° 00'		
		30			90° 00'		
		31			90° 00'		
		32			90° 00'		
		33			90° 00'		
		34			90° 00'		
		35			90° 00'		
		36			90° 00'		
		37			90° 00'		
		38			90° 00'		
		39			90° 00'		
		40		7-10	90° 00'		

76L298 307 8-53

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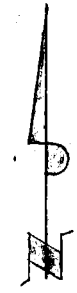
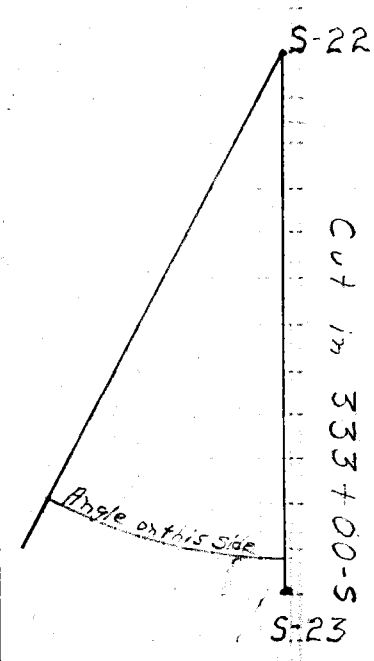
Do not extend notes this side of this line.

STATION	B. S.	H. I.		F. S.	ELEV.		Remarks
Inst. Sight At On	#	Color		Time	Hor. Ang.		
	1	49.8	47.6	7:01	71° 24'	2890	
	2	47.4	45.2		70° 30'	2746	
	3	46.8	44.6		69° 54'	2658	
	4	46.2	44.0		69° 12'	2560	
	5	44.1 / 46.1	41.9 / 44.4		68° 17'	2442	
	6	45.4	43.7				
	7	44.3	42.6				
	8	43.6	41.9		65° 32	2137	
	9	42.7	41.0		65° 00'	2086	
	10	41.3	39.6		64° 23'	2028	
	11	40.7	39.0		63° 30'	1951	
	12	39.7	38.0		62° 45'	1888	
	13	38.7	37.0		62° 06'	1837	
	14	38.4	36.7		61° 20'	1779	
	15	37.6	35.9		60° 13'	1699	
	16	36.8	35.1		59° 08'	1627	
	17	36.3	34.6		58° 23'	1580	
	18	35.2	33.5		57° 29'	1526	
	19	33.8	32.1		56° 07'	1448	
	20	32.7	31.0		54° 53'	1383	

S-22 S-23

Fathom	Feet
Boat +1.0	Boat +1.0
Zero −0.6	Zero −0.1
Tide −2.6	Tide −2.6
−2.2	−1.7





Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F.B. 1509 Pg. 141
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes RT Date 7-27-55
No. Date Date Map No. Indexed Johnson 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.			
Inst. At	Sight On	#	Color		Time	Hor. Ang.		Remarks	
		21	32.0	30.3		53°	35'	1318 ✓	Cut in 333+00
		22	30.7	29.0		52°	06'	1249 ✓	
		23	29.4	27.7		50°	27'	1178 ✓	
		24	28.3	26.6		49°	08'	1124 ✓	
		25	27.4	25.7		47°	28'	1060 ✓	
		26	26.3	24.6		46°	04'	1009 ✓	
		27	25.0	23.3		44°	09'	944 ✓	
		28	23.7	22.0		42°	28'	890 ✓	
		29	22.3	20.6		40°	46'	838 ✓	
		30	21.2	19.5		39°	09'	792 ✓	
		31	20.0	18.3		37°	18'	741 ✓	
S-22	S-23	32	18.8	17.1		35°	28'	693 ✓	
		33	17.7	16.0		33°	33'	645 ✓	
		34	16.4	14.7		31°	26'	594 ✓	
		35	14.8	13.1		29°	23'	548 ✓	
		36	12.8	11.1		27°	03'	497 ✓	
		37	10.8	9.1		24°	55'	452 ✓	
		38	8.8	7.1		22°	25'	401 ✓	
		39	6.8	5.1		20°	20'	360 ✓	
		40	5.7	4.0	7:10	18°	54'	333 ✓	

F. B. 1509 Pg. 142 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 7-27-55 Date No.
Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

76L298 307 8-53

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Cut-in ∡

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at. 328+30		Sight on. 330+00
333+00	4 31	24 37		20 06			
330+00	1 15	21 62	3 90	20 47	N.&T.		
16' R.			0 8	20 8			T.E.
			8 0	13 6	10° 12'	31	
			[illegible]	10 [illegible]	24 24	77	
			13 9	[illegible]	32 08	107	
	1 14	7 90	[illegible]	6 16	33 31	113	
			6 1	1 8	41 [illegible]	153	
			7 2	0 7	50 [illegible]	208	
			[illegible] 0	-2 1	[illegible]	287	
			14 0	-6 1	[illegible]	332	
			17 0	-9 1	[illegible]	379	

Inshore

S. 330+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 143
No. ____ Date ____ Date ____ Survey of Beach Erosion Studios
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes Ed. Date 7-27-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F. B. 1509 Pg. 144 | 0300.02 Job No. Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by English Notes Ed. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

761298 307 8-53

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76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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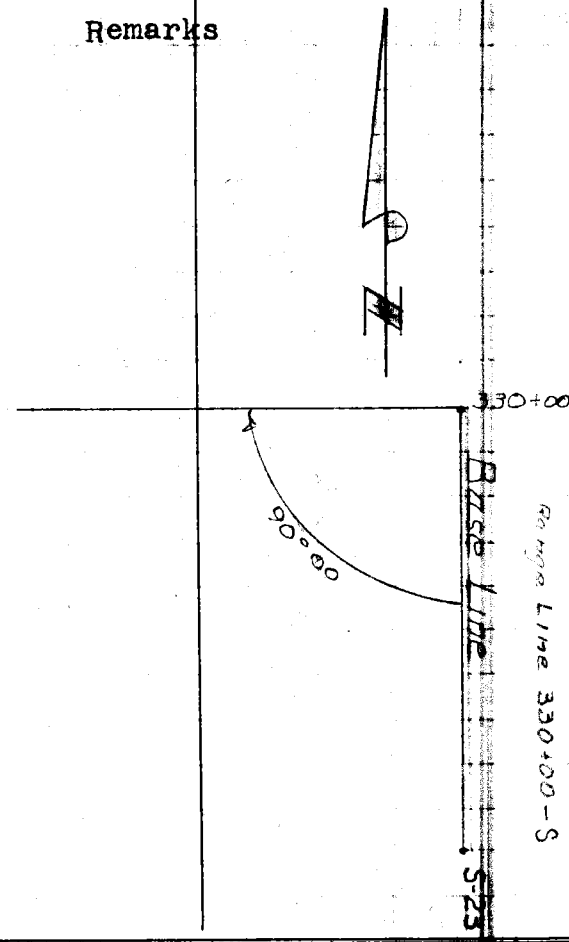
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.		Remarks
330+00 S-23	1		7-31	90° 00'		
	2			90° 00'		
	3			90° 00'		
	4			90° 00'		
	5			90° 00'		
	6			90° 00'		
	7			90° 00'		
	8			90° 00'		
	9			90° 00'		
	10			90° 00'		
	11			90° 00'		
	12			90° 00'		
	13			90° 00'		
	14			90° 00'		
	15			90° 00'		
	16			90° 00'		
	17			90° 00'		
	18			90° 00'		
	19			90° 00'		
	20			90° 00'		



Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 10
Date ____ Date ____ Survey of Beach Erosion
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by Van Deren Notes J. H. Date 7-27-55
Date ____ Date ____ Map No. ____ Inspected Johnson Date ____

F. B. 1509 PG. 145

76U298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
330+00	S-23	21			90° 00'		
		22			90° 00'		
		23			90° 00'		
		24			90° 00'	Range 330+00-S	
		25			90° 00'		
		26			90° 00'		
		27			90° 00'		
		28			90° 00'		
		29			90° 00'		
		30			90° 00'		
		31			90° 00'		
		32			90° 00'		
		33			90° 00'		
		34			90° 00'		
		35			90° 00'		
		36			90° 00'		
		37			90° 00'		
		38			90° 00'		
		39		7-46	90° 00'		
		40			90° 00'		

F. B. 1509 PG. 196
Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Date 7-27-55 Date No.
Survey by Van Deren Notes HENDERSON Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date No.

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 1509	PG. 147
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes	Date 7-27-55	
No.	Date	Date	Map No.	Indexed A. C. Johnson	Date	

Range 330+00-S.

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

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STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OR	#	Color	Time	Hor. Ang.	
	41			90° 00'	
	42			90° 00'	
	43			90° 00'	
	44			90° 00'	
	45			90° 00'	
	46			90° 00'	
	47			90° 00'	
	48			90° 00'	
	49			90° 00'	
	50			90° 00'	
	51			90° 00'	
	52			90° 00'	
	53		7-46	90° 00'	

5-23

330+00

76L298 307 4-50

F. B. 1509 PG. 198 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Studies Date 7-27-55 Date _____ No. _____

Survey by VanDeren Notes J. H. Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L298 307 4-50

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Do not extend notes this side of this line.

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

Profile Notes Red. ___ Plotted ___ Job No. ___ Division No. 10 F.B. 1509 Pg. [illegible]
No. ___ Date ___ Date ___ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ___ Checked ___ Survey by [illegible] Date [illegible]
No. ___ Date ___ Date ___ Map No. ___ Indexed ___ Date ___

76L298 307 4-50

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

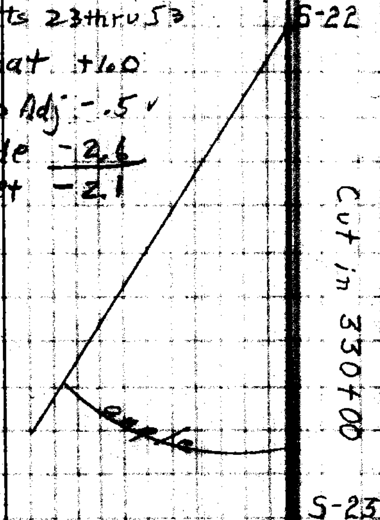
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B.S. #	H.I. Color		F.S. Time	ELEV. Hor. Ang.			Remarks
S-22	S-23	1	135.6	134.0	7:31	78° 43'	3371	✓	
		2	123.6	122.0		78° 16'	3238	✓	
		3	114.6	113.0		77° 56'	3146	✓	
		4	103.2	101.6		77° 33'	3046	✓	
		5	72.0	70.4		77° 10'	2952	✓	
		6	60.0	58.4		76° 53'	2886	✓	
		7	57.0	55.4		76° 33'	2812	✓	
		8	54.6	53.0		76° 14'	2745	✓	
		9	52.2	50.6		76° 05'	2714	✓	
		10	51.0	49.4		75° 51'	2668	✓	
		11	49.2	47.6		75° 34'	2613	✓	
		12	48.0 / 50.5	46.4 / 48.9		75° 11'	2543	✓	
		13	49.9	48.3		74° 56'	2498	✓	
		14	48.9	47.3		74° 24'	2409	✓	
		15	47.8	46.2		73° 56'	2335	✓	
		16	46.8	45.2		73° 29'	2268	✓	
		17	45.3	43.7		72° 56'	2191	✓	
		18	43.9	42.3		72° 38'	2150	✓	
		19	43.0	41.4		72° 10'	2107	✓	
		20	42.3	40.7		71° 57'	[illegible]	✓	

Remarks:

	Fathom	Feet
Boat zero Adj.	0.0	0.0
Tide	-2.6	-2.6
Net	-1.6	-1.6

Shots 23 thru 53
Boat +1.0
zero Adj. -.5
Tide -2.6
Net -2.1



76L298 307 4-50

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

Do not extend notes this side of this line.

F.B. 1506 Pg. 130 Job No. 1 Division No. 10 Notes Red 7-27-56 Plotted Profile
Survey of Grade Erosion Study Date Notes No. X-Sec.
Survey by Vol. Dept. Notes Chkd. Checked
Indexed K. C. Johnson Date Date Date No.

STATION Inst. Sight At	On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks
		21	40.8	39.2		70° 55'	1944 ✓	cut in 330+00
		22	VOID ~~41.0~~			70° 23'	1887 ✓	
New start after delay		★ 23	40.3	38.2		70° 30'	1899 ✓	
		24	39.5	37.4		69° 48'	1828 ✓	
		25	39.1	37.0		69° 06'	1761 ✓	
		26	38.3	36.2		68° 08'	1676 ✓	
		27	37.3	35.2		67° 22'	1613 ✓	
S-22	S-23	28	36.8	34.7		66° 32'	1549 ✓	
		29	36.5	34.4		65° 40'	1487 ✓	
		30	35.8	33.7		64° 48'	1429 ✓	
		31	35.0	32.9		63° 49'	1368 ✓	
		32	34.2	32.1		62° 55'	1315 ✓	
		33	33.3	31.2		61° 58'	1263 ✓	
		34	32.5	30.4		60° 58'	1205 ✓	
		35	31.2	29.1		59° 24'	1137 ✓	
		36	30.0	27.9		58° 08'	1082 ✓	
		37	28.7	26.6		56° 36'	1020 ✓	
		38	27.6	25.5		55° 03'	962 ✓	
		39	26.0	23.9		53° 22'	904 ✓	
		40	24.5	22.4		51° 45'	853 ✓	

76L298 307 4-50

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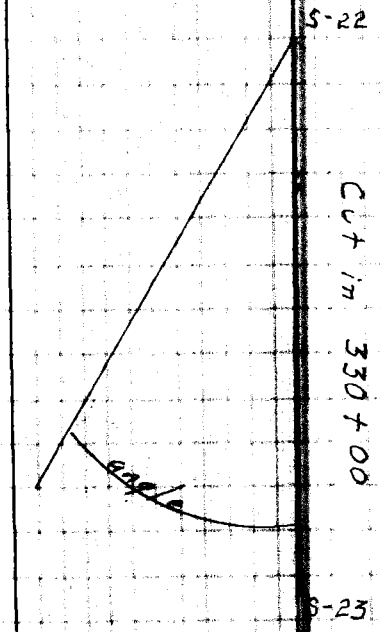
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Color		Time	Hor. Ang.		Remarks
		41	23.5	21.4		50° 15'	809	
		42	22.1	20.0		48° 26'	758	
		43	20.9	18.8		46° 30'	709	
		44	19.8	17.7		44° 28'	660	
		45	18.6	16.5		42° 07'	608	
		46	17.4	15.3		40° 20'	571	
		47	15.8	13.7		38° 10'	529	
S-22	S-23	48	14.0	11.9		35° 50'	486	
		49	11.9	9.8		33° 05'	438	
		50	9.8	7.7		30° 04'	389	
		51	8.2	6.1		27° 25'	349	
		52	6.4	4.3		24° 20'	304	
		53	4.9	2.8	7:46	21° 05'	259	



Profile Notes Red. Plotted Job No. Division No. 10 F. B. 1509 Pg. 157
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Ken Notes J.T. Date 7-[illegible]-55
No. Date Date Map No. Marked Johnson Date

F.B. 1509 Pg. 152

Job No. 030402 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by Van Deren Notes R. T. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

761.298 307 4-56

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Do not extend notes this side of this line.

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

Profile No. ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 153

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

Survey by English Notes Ed. Date 7-27-55

Map No. ____ Indexed C. Johnson Date ____

Inshore

328+45 S. ~~330+15~~

S. Side Groin #3

Cut-in 4

Inst. at 330+00 Sighton 328+45

STATION	B. S.	H. I.	F. S.	ELEV.		
330+00	5 15	25.62		20 47		
328+45	1 07	22 40	4.27	21 33		
16' R.			0.9	21 54		
			[illegible]	15 5	10 25	28
			9 5	12 9	22 12	63
			13 8	8 6	29 32	88
	0 69	8 27	19 82	7 58	32 15	98
			[illegible]	[illegible]	45 25	157
			[illegible]	[illegible]	50 42	190
			8 2	[illegible]	57 51	247
			11 0	-2 7	65 52	346
			-14 7	-6 4	74 16	550

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328 30

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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.

76L298 307 8-53

F. B. 1509 Pg. 154 | 0300.02 Job No. Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by English Notes Ed. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

761298 307 8-53

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76L298 307 4-50

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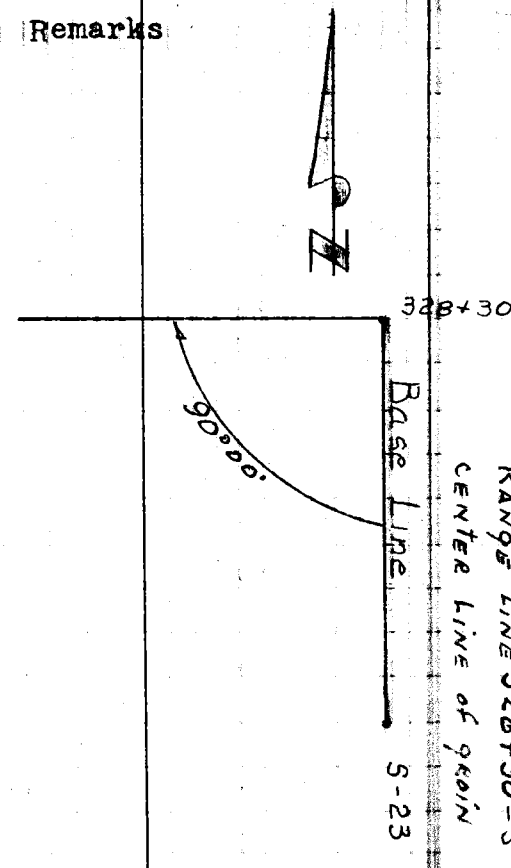
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
328+30	S-23	1		8-04	90°00'		
		2			90°00'		
		3			90°00'		
		4			90°00'		
		5			90°00'		
		6			90°00'		
		7			90°00'		
		8			90°00'		
		9			90°00'		
		10			90°00'		
		11			90°00'		
		12			90°00'		
		13			90°00'		
		14			90°00'		
		15			90°00'		
		16			90°00'		
		17			90°00'		
		18			90°00'		
		19			90°00'		
		20			90°00'		



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 155
No. ____ Date ____ Date ____ Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes J. H. Date 7-27-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

76L298 307 4-50

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
328+30	S-23	21			90° 00'		
		22			90° 00'	Range 328+30-S	
		23			90° 00'		
		24			90° 00'		
		25			90° 00'		
		26			90° 00'		
		27			90° 00'		
		28			90° 00'		
		29			90° 00'		
		30			90° 00'		
		31			90° 00'		
		32			90° 00'		
		33			90° 00'		
		34			90° 00'		
		35			90° 00'		
		36			90° 00'		
		37			90° 00'		
		38			90° 00'		
		39			90° 00'		
		40			90° 00'		

F. B. 1509 PG. 156
Job No. 0300.02 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Date 7-27-55 Date No.
Survey by Van Deren Notes HENDERSON Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

76L298 307 4-50

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks	
328+30	S-23	41			90° 00'		
		42			90° 00'		
		43			90° 00'		
		44			90° 00'		
		45			90° 00'		
		46			90° 00'		
		47			90° 00'		
		48			90° 00'		
		49			90° 00'		
		50			90° 00'		
		51			90° 00'		
		52			90° 00'		
		53			90° 00'		
		54			90° 00'		
		55			90° 00'		
		56			90° 00'		
		57			90° 00'		
		58			90° 00'		
		59			90° 00'		
		60			90° 00'		

Range 328+30 - S

Profile Notes Red. ____ Plotted ____ Job No. 8300.02 Division No. 10 F. B. 1509 Pg. 157
No. ____ Date ____ Date ____ Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Decker Notes J. H. Date 7-53
No. ____ Date ____ Date ____ Map No. ____ Index Johnson Date ____

76L298 307 4-50

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
328+30 S-23	61			90° 00'		
	62			90° 00'	Range 328+30-S	
	63			90° 00'		
	64			90° 00'		
	65			90° 00'		
	66			90° 00'		
	67			90° 00'		
	68			90° 00'		
	69			90° 00'		
	70			90° 00'		
	71		8-20	90° 00'		

F. B. 1509 Pg. 158

Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date 7-27-55 Date No. X-Sec.

Survey by Van Deren Notes J.H. Notes Chkd. Checked No.

Indexed R. C. Johnson Date Date Date

96L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

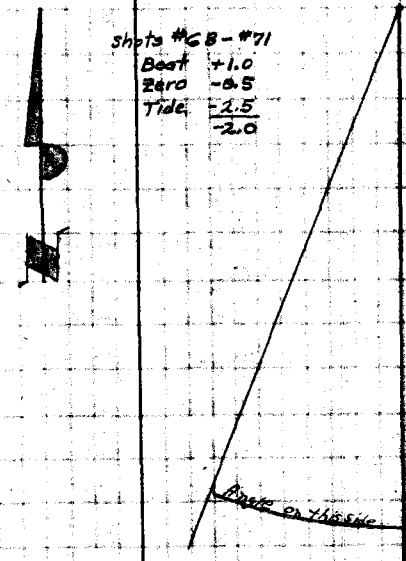
Do not extend notes this side of this line.

Inst. Sight At	On	#	Color	Time	Hor. Ang.			Remarks
		1	void	8:04	82° 52'	4016	✓	
		2	void		82° 49'	3987	✓	
		3	void		82° 25'	3775	✓	
		4	void		82° 04'	3606	✓	
		5	void		81° 45'	3466	✓	
		6	void		81° 28'	3349	✓	
		7	178.2 ✓ 29.7 172.5		81° 05'	3203	✓	
		8	135.0 ✓ 22.5 129.3		80° 48'	3103	✓	
		9	122.0 ✓ 20.3 117.3		80° 37'	3041	✓	
		10	114.6 ✓ 19.1 108.9		80° 25'	2977	✓	
		11	108.9 ✓ 18.15 103.2		80° 18'	2940	✓	
		12	102.6 ✓ 17.1 96.9		80° 07'	2884	✓	
		13	void		80° 01'	2855	✓	
		14	90.0 ✓ 15.0 84.3		79° 55'	2826	✓	
		15	81.0 ✓ 13.5 75.3		79° 49'	2798	✓	
		16	73.2 ✓ 12.2 67.5		79° 40'	2756	✓	
		17	67.2 ✓ 11.2 61.5		79° 27'	2698	✓	
		18	64.2 ✓ 10.7 58.5		79° 14'	2643	✓	
		19	61.2 ✓ 10.2 55.6		79° 02'	[illegible]	✓	
		20	[illegible]		78° 50'	[illegible]	✓	

	Feet	Feet
Boat	+1.0	+1.0
Zero Adj	-8.2	-7.7
Tide	-2.5	-2.5
Net	-5.7	-2.2

-2.22

Shots #68 - #71
Boat +1.0
Zero -0.5
Tide -2.5
-2.0



S-22 S-23

Profile No. ____ Notes Red ____ Plotted ____ Job No. ____ Division No. 14 F.B. 1562 Pg. 133
Tabs. ____ Date ____ Date ____ Survey of Beach Erosion Study
No. ____ Notes Chkd. ____ Checked ____ Survey by Veh. Crews Rt. Date 7-2-7
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.			
Inst. At	Sight On	#	Color		Time	Hor. Ang.		Remarks	
		21	56.4	9.4 50.7		78° 41'	2511.	Cut in	328+30±
		22	55.8	9.3 50.1		78° 31'	2474		
		23	54.0	9.0 48.3		78° 17'	2423		
		24	52.8	8.8 47.1		76° 04'	2378		
		25	51.6	8.6 45.9		77° 53'	2341		
		26	50.4	8.4 44.7		77° 41'	2302		
		27	49.2	8.2 43.5		77° 26'	2254		
		28	48.0	8.0 42.3		77° 13'	2215		
S-22	S-23	29	43.8 44.4	7.3 38.1 42.2		76° 58'	2171		
		30	44.2	42.0		76° 29'	2091		
		31	44.2	42.0		76° 27'	2085		
		32	43.2	41.0		76° 24'	2077		
		33	42.7	40.5		75° 57'	2008		
		34	41.3	39.1		75° 17'	1913		
		35	41.1	38.9		75° 00'	1876		
		36	40.4	38.2		74° 35'	1822		
		37	40.3	38.1		74° 26'	1804		
		38	40.3	38.1		74° 05'	1762		
		39	40.0	37.8		73° 39'	1713		
		40	39.7	37.5		73° 09'	1659		

F. B. 1509 PG. 160 Job No. 030002 Division No. 10 Notes Red Plotted Profile
Survey of Beach Erosion Study Date 7-27-55 Date No.
Survey by Van Deren Notes M.T. Notes Chkd. Checked X-Sec.
Indexed K. C. Johnson Date Date No.

76L298 307 4-50

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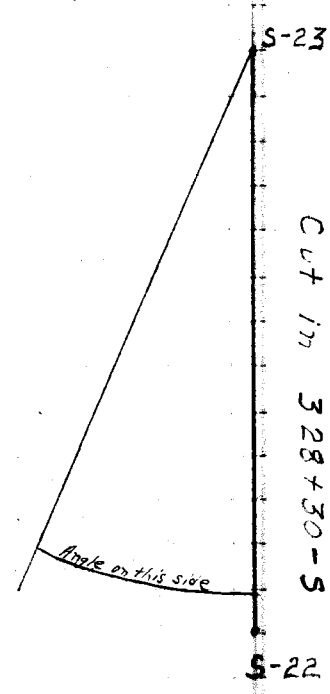
Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Color		Time	Hor. Ang.		Remarks
		41	39.7	37.5		72° 40'	1610	✓
		42	39.4	37.2		72° 03'	1551	✓
		43	38.9	36.7		71° 31'	1503	✓
		44	38.2	36.0		70° 55'	1453	✓
		45	37.5	35.3		70° 13'	1397	✓
		46	36.7	34.5		69° 42'	1359	✓
		47	35.9	33.7		68° 50'	1298	✓
S-22	S-23	48	34.5	32.3		67° 52'	1236	✓
		49	33.4	31.2		66° 50'	1174	✓
		50	31.6	29.4		65° 14'	1089	✓
		51	30.6	28.4		64° 23'	1048	✓
		52	28.6	26.4		62° 40'	972	✓
		53	27.2	25.0		61° 35'	929	✓
		54	25.4	23.2		59° 47'	863	✓
		55	23.7	21.5		57° 46'	797	✓
		56	21.9	19.7		55° 45'	738	✓
		57	20.9	18.7		54° 02'	693	✓
		58	19.2	17.0		51° 55'	641	✓
		59	18.1	15.9		49° 35'	590	✓
		60	16.5	14.3		47° 36'	550	✓



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 161
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 7-27-55
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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STATION Inst. At	Sight On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.			Remarks
S-22	S-23	61	14.9	12.7		45° 16'	507	✓	Cut in 328+30-S
		62	13.3	11.1		43° 29'	477	✓	
		63	11.9	9.7		41° 06'	438	✓	
		64	10.9	8.7		38° 13'	396	✓	
		65	void			35° 36'	360	✓	
		66	void			32° 27'	320	✓	
		67	void			28° 23'	272	✓	
		68	9.8	7.8		36° 52'	377	✓	
		69	8.4	6.4		34° 56'	351	✓	
		70	7.0	5.0		32° 28'	320	✓	
		71	5.8	3.8	8:20	28° 58'	278	✓	

F. B. 1509 Pg. 162 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 7-27-55 Date No. X-Sec.
Survey by Van Deren Notes R.T. 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.

Cut-in ∡

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 330+00		Sight on 328+15
328+45			Same	21 [illegible]			
328+15	1 07	22 40		21 33			
16' R.			0 9	21 5			
			7 8	1[illegible] 6	9° 55'	32	
			9 5	12 9	15 29	51	
	2 08	[illegible] 42	15 00	7 40	21 23	72	
			6 3	1 2	30 03	107	
			6 9	0 6	33 35	123	
			2 6	-0 1	46 13	193	
			12 2	-4 7	58 37	303	
			17 0	-9 5	66 51	433	

328+15
328+15 S.

Inshore
~~329+85~~
N. Side
Groin #3

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 163
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by English Notes Ed. Date 9-27-55
No. Date Date Map No. Indexed C. Johnson Date

F. B. 1509 Pg. 164 | 0300.02

Job No. _____ Division No. 10 Notes Red. _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 8-53

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

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

F. B. 1509 PG.

July 28, 1955

TIDE GAGE READING

Standard Time

Time	Tide
5:00	2.8
5:30	2.9
6:00	3.0
6:30	3.0
7:00	3.1
7:30	3.0
8:00	2.9
8:30	2.8
9:00	2.8
9:30	2.8
10:00	2.7
10:30	2.7
11:00	2.8
11:30	2.9
12:00	3.1

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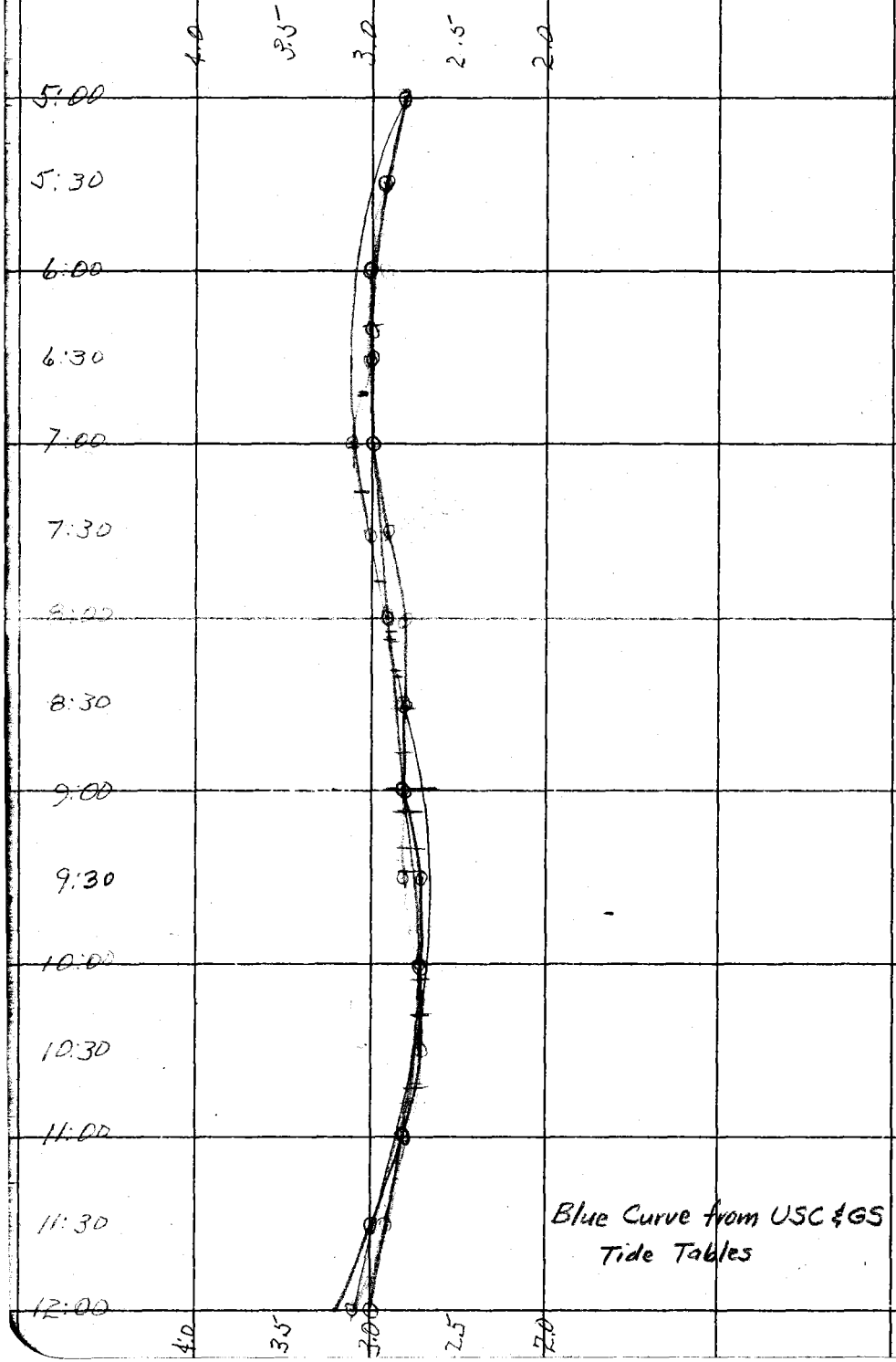
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3095 247 4-53

F. B. 1509 FG.

Red Curve copied from Hendry Tide Book



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LOS ANGELES COUNTY SURVEYOR
724 LOS ANGELES COUNTY
ENGINEERING BLDG.
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1509

F. B. _____ Pg. _____

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

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

July 28, 1955

Time	Tide
5:00	2.8
5:30	2.9
6:00	3.0
6:30	3.0
7:00	3.1
7:30	3.0
8:00	2.9
8:30	2.8
9:00	2.8
9:30	2.8
10:00	2.7
10:30	2.7
11:00	2.8
11:30	2.9
12:00	3.1

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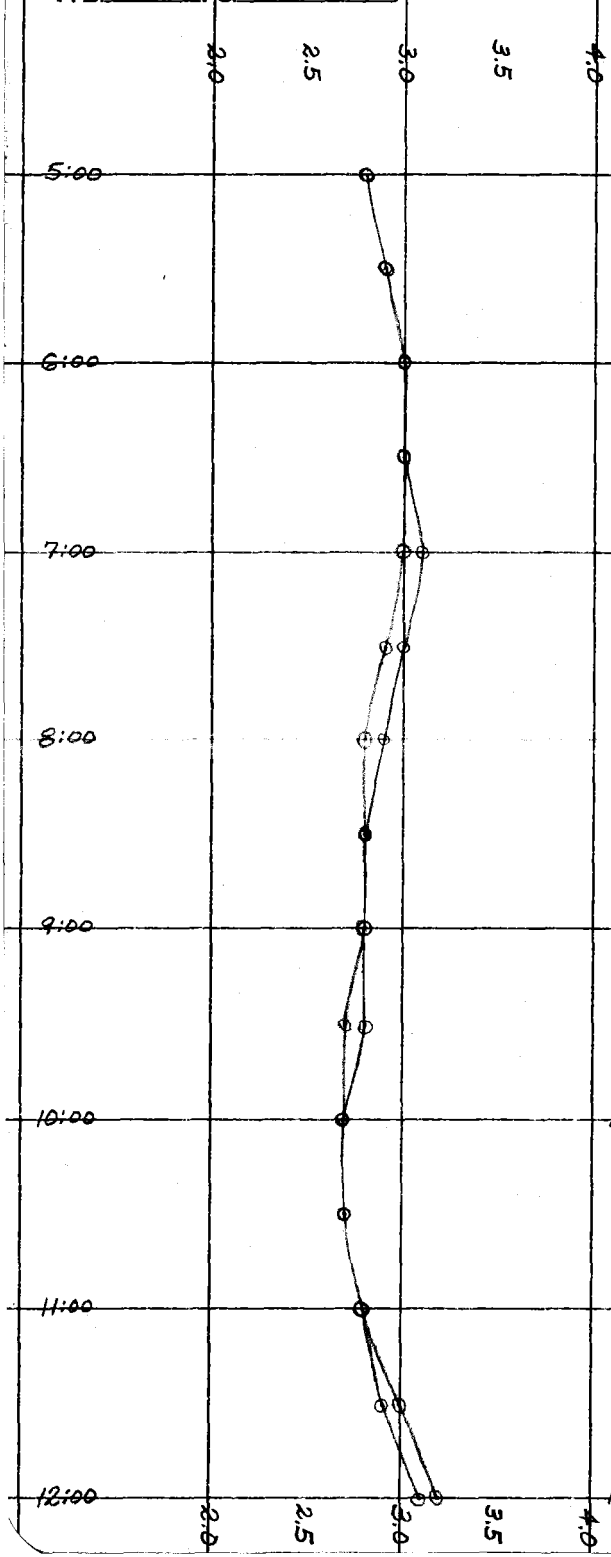
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F309S S&E #247. 8-54

Blue Curve from U.S.C & G.S. Tide Tables

F. B._____ PG._____



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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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Profile	Notes Red.	Plotted	Job No. 2300.02	Division No. 10	F. B. 1509 Pg. 165
No.	Date	Date	Survey of [illegible]		
X-Sec.	Notes Chkd.	Checked	Survey by English	Notes Ed.	Date 7-28-55
No.	Date	Date	Map No.	Indexed C. Johnson	Date

Inshore

S. 327+00

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

Sht in A

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 330+00	Sight on 327+00
328+15	5.12	26.45		21.33		
327+00	1.42	23.41	4.46	21.99	N.&T.	
16' R			1.3	22.1		
			10.1	13.3	6°34'	35
	[illegible]	8.81	14.80	8.61	11.52	63
			[illegible]	1.4	19.25	106
			9.0	-0.2	29.13	168
			10.2	-1.4	38.31	239
			13.7	-4.9	49.36	352
			18.0	-9.2	55.20	434

76L298 307 8-53

F. B. 1509 Pg. 166 | Job No. 0300.02 | Division No. 10 | Notes Red. | Plotted | Profile

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

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

Indexed | Date | Date | Date | No.

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

Do not extend notes this side of this line.

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76L298 307 4-50

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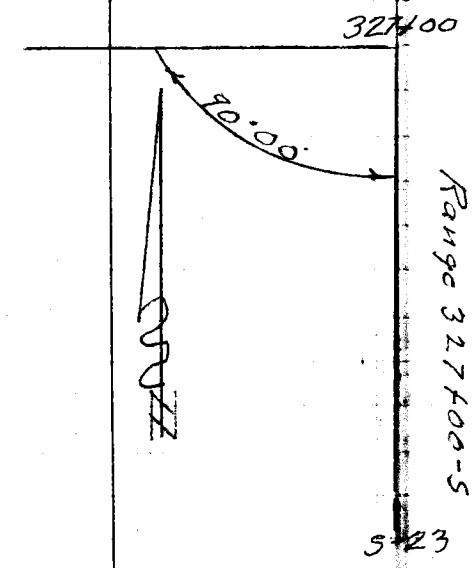
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	1		6-41	90° 00'		
	2			90° 00'		
	3			90° 00'		
	4			90° 00'		
	5			90° 00'		
	6			90° 00'		
	7			90° 00'		
	8			90° 00'		
327+00 S-23	9			90° 00'		
	10			90° 00'		
	11			90° 00'		
	12			90° 00'		
	13			90° 00'		
	14			90° 00'		
	15			90° 00'		
	16			90° 00'		
	17			90° 00'		
	18			90° 00'		
	19			90° 00'		
	20			90° 00'		



Profile No. ____ Date ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 03000 Division No. 10 Survey of Beach Erosion Studies Survey by Van Deren Notes J.M. Date 7-28-55 Map No. ____ Date ____ Checked ____ Date ____ Date ____

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

F. B. 1509 Pg. 167

76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21			90° 00'		
		22			90° 00'	Range 327+00-S	
		23			90° 00		
		24			90° 00'		
		25			90° 00'		
		26			90° 00'		
		27			90° 00'		
		28			90° 00'		
327+00	S-23	29			90° 00'		
		30			90° 00		
		31			90° 00'		
		32			90° 00'		
		33			90° 00'		
		34			90° 00		
		35			90° 00		
		36			90° 00		
		37			90° 00'		
		38			90° 00'		
		39			90° 00'		
		40			90° 00'		

F. B. 1509 Pg. 168 Job No. 030002 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date 7-28-55 Date No.
Survey by Van Deren Notes Henderson Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

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.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	41			90° 00'	Range 327+00-S	
	42			90° 00'		
	43			90° 00'		
	44			90° 00'		
	45			90° 00'		
	46			90° 00'		
	47			90° 00'		
	48			90° 00'		
	49			90° 00'		
327+00 S-23	60			90° 00'		
	51			90° 00'		
	52			90° 00'		
	53			90° 00'		
	54			90° 00'		
	55			90° 00'		
	56			90° 00'		
	57			90° 00'		
	58			90° 00'		
	59			90° 00'		
	60			90° 00'		

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chkd. ____ Checked ____ Survey by H. Elmorhill Notes J.H. Date 7-28-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Van Dyke Johnson Date ____

F. B. 1509 PG. 169

F. B. 1509 Pg. 170 Job No. 2412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION STUDY Date 7-24-55 Date _____ No. _____

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

Indexed ~~C. Johnson~~ VAN DEREN Date _____ Date _____ Date _____ No. _____

327+00
S-23

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At	#	Color	Time	Hor. Ang.	Remarks
On	61		7-02	90°00'	Range 327+00-S

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761.298 307 8-53

76L298 307 4-50

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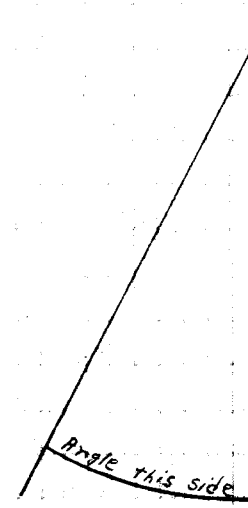
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.			Fathom	Feet
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks	Boat +1.0	+1.0
								Zero Adj -4.2	-.7
								Tide -3.1	-3.1
								Net -6.3	-2.8
		1	void	6:41	83° 57'	3515	✓		
		2	void		83° 55'	3496	✓		
		3	void		83° 49'	3439	✓		
		4	void		83° 44'	3393	✓		
		5	184.8 30.8 178.5		83° 36'	3321	✓		
		6	174.0 29.0 167.7		83° 30'	3270	✓		
		7	161.4 26.9 155.1		83° 21'	3195	✓		
		8	15[illegible] 25.1 147.9		83° 16'	3156	✓		
		9	148.2 24.7 141.9		83° 06'	3079	✓		
		10	138.0 23.0 131.7		82° 50'	2963	✓		
		11	120.6 20.1 114.3		82° 36'	2868	✓		
		12	110.4 18.4 104.1						
		13	195.0 32.5 188.7		83° 45'	3402	✓		
		14	163.2 27.2 156.9		83° 13'	3132	✓		
		15	153.0 25.5 146.7		83° 05'	3071	✓		
		16	147.0 24.5 140.7		82° 59'	3027	✓		
		17	137.4 22.9 131.1		82° 55'	2998	✓		
		18	124.2 20.7 117.9		82° 46'	2935	✓		
		19	99.9 16.5 92.7		82° 15'	2737	✓		
		20	85.2 14.2 78.9		81° 59'	2645	✓		

S-22

S-23



Cut in 327+00-S

Profile Notes Red. Plotted Job No. 03000.02 Division No. 10 F. B. 1509 Pg. 171
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 7-28-55
No. Date Date Map No. Indexed Johnson Date

76L298 307 4-50

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F. B. 1509 Pg. 172 Job No. 0328.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 7-28-55 Date No.
Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.
Indexed K. C. Johnson Date Date Date No.

STATION		B. S.	H. I.		F. S.	ELEV.			Remarks
Inst. Sight At	On	#	Color		Time	Her. Ang.			
		21	76.8	12.8 7.5		81° 44'	2564	✓	Cut in 327+00-S
		22	63.0	10.5 56.7		81° 33'	2508	✓	
		23	57.0	9.5 50.7		81° 23'	2459	✓	
		24	52.8	8.8 46.5		81° 16'	2425	✓	
		25	52.6	49.8		81° 03'	2366	✓	
		26	51.4	48.6		80° 46'	2292	✓	
		27	49.7	46.9		80° 34'	2242	✓	
		28	48.2	45.4		80° 16'	2172	✓	
S-22	S-23	29	46.6	43.8		79° 56'	2099	✓	
		30	45.3	42.5		79° 34'	2023	✓	
		31	44.8	42.0		79° 16'	1965	✓	
		32	44.7	41.9		78° 38'	1853	✓	
		33	44.0	41.2		78° 13'	1786	✓	
		34	43.3	40.5		77° 35'	1692	✓	
		35	43.3	40.5		77° 29'	1678	✓	
		36	43.5	40.7		76° 40'	1572	✓	
		37	43.1	40.3		75° 49'	1474	✓	
		38	42.2	39.4		74° 57'	1386	✓	
		39	40.7	37.9		74° 11'	1315	✓	
		40	39.5	36.7		73° 16'	1239	✓	
			37.2	34.4					

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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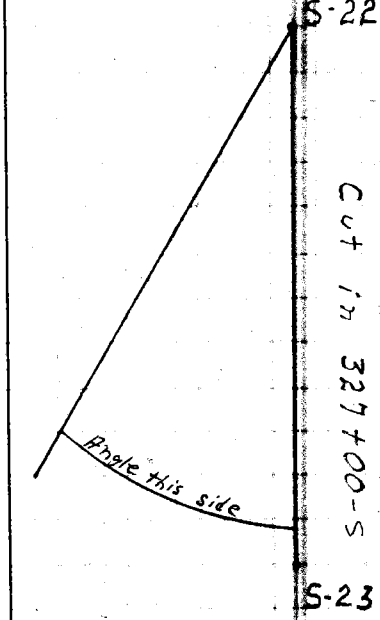
Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At.	Sight On	#	Color		Time	Hor. Ang.		Remarks
		41	35.2	32.4		72° 20'	1170	✓
		42	33.9	31.1		71° 18'	1101	✓
		43	31.8	29.0		70° 14'	1037	✓
		44	30.5	27.7		69° 25'	992	✓
		45	29.5	26.7		68° 09'	929	✓
		46	28.0	25.2		67° 08'	883	✓
		47	25.5	22.7		65° 17'	809	✓
S-22	S-23	48	23.9	21.1		64° 08'	768	✓
		49	22.1	19.3		62° 16'	709	✓
		50	20.1	17.3		60° 22'	655	✓
		51	18.7	15.9		58° 46'	614	✓
		52	17.5	14.7		56° 48'	569	✓
		53	16.3	13.5		54° 57'	531	✓
		54	15.4	12.6		53° 32'	504	✓
		55	14.2	11.4		51° 42'	472	✓
		56	13.0	10.2		49° 32'	437	✓
		57	11.5	8.7		47° 15'	403	✓
		58	10.2	7.4		45° 13'	375	✓
		59	8.7	5.9		42° 25'	340	✓
		60	7.4	4.6		38° 55'	301	✓
		61	6.2	3.4	7:02	34° 16'	254	✓



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 173
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Oeren Notes R.T. Date 7-28-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F. B. 1509 Pg. 174

Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 7-28-55 Date No.

Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

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

76L298 307 8-53

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Do not extend notes this side of this line. Cut-in ∡

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 324+00		Sight on 325+50
327+00	4 54	26 53		21.99			
325+50	0 64	22 01	5 16	21 37	S.&T.		
12' R			1 3	20 7			T.B.
			9 0	13 0	12 03	32	
			12 9	9 1	20 18	55	
	1 08	8 27	14 82	7 19	25 31	72	
			6 9	1 [illegible]	36 28	111	
			8 3	0 0	46 06	156	
			9 0	[illegible]	54 10	208	
			12 [illegible]	[illegible]	62 30	288	
			15 5	-7 [illegible]	67 [illegible]	365	

Inshore
S. 325+50

Profile Notes Red. ____ Plotted ____ Job No. 030002 Division No. 10 F. B. 1509 Pg. 175
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes Ed. Date 2-28-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F. B. 1509 Pg. 176 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by English Notes Ed Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

Do not extend notes this side of this line.

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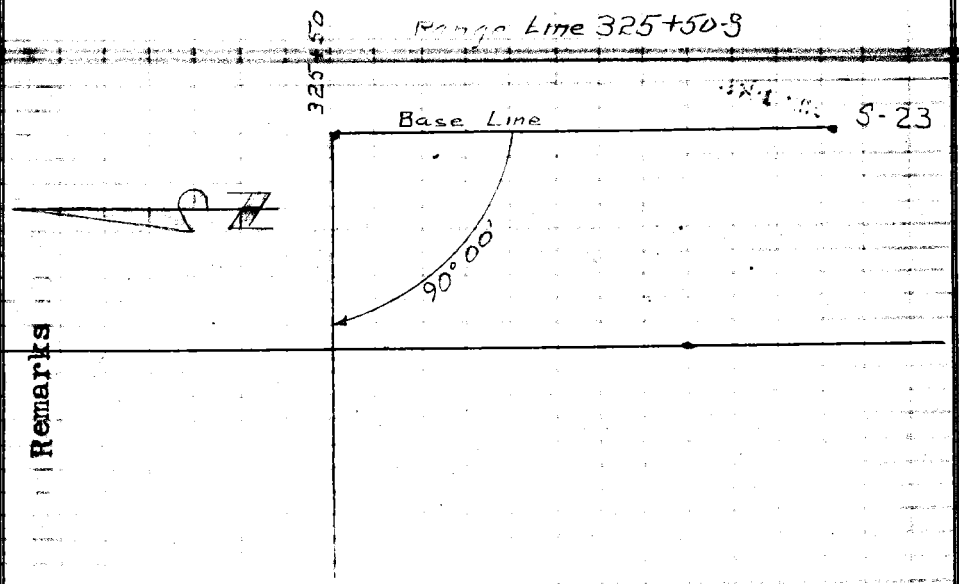
76L298 307 6-53

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 1509	Pg. 177
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes T.H.	Date 7-28-55	
No.	Date	Date	Map No.	Indexed E. C. Johnson	Date	



STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		7-16	90°00'	
	2			90°00'	
	3			90°00'	
	4			90°00'	
	5			90°00'	
	6			90°00'	
	7			90°00'	
	8			90°00'	
	9			90°00'	
	10			90°00'	
	11			90°00'	
	12			90°00'	
	13			90°00'	
	14			90°00'	
	15			90°00'	
	16			90°00'	
	17			90°00'	
	18			90°00'	
	19			90°00'	
	20			90°00'	
S-23					
325+50					

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76L298 307 4-50

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21			90° 00'	Range line	325+50-S
	22			90° 00'		
	23			90° 00'		
	24			90° 00'		
	25			90° 00'		
	26			90° 00'		
	27			90° 00'		
	28			90° 00'		
	29			90° 00'		
	30			90° 00'		
	31			90° 00'		
	32			90° 00'		
	33			90° 00'		
	34			90° 00'		
	35			90° 00'		
	36			90° 00'		
	37			90° 00'		
	38			90° 00'		
	39			90° 00'		
	40			90° 00'		

F. B. 1509 Pg. 178
Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Date 7-55 Date No.
Survey by Van Deren Notes HENDERSON Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

Profile	Notes Red.	Plotted	Job No. 030002	Division No. 10	F. B. 1509 Pg. 179
No.	Date	Date	Survey of		
X-Sec.	Notes Chkd.	Checked	Survey by ~~F. H. [illegible]~~ VAN DEREN	J.H.	Date 7-28-55
No.	Date	Date	Map No.	Indexed ~~C. Johnson~~	Date

RANGE LINE 325+50-S

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	41			90°00'	
	42			90°00'	
	43			90°00'	
	44			90°00'	
	45			90°00'	
	46			90°00'	
	47			90°00'	
	48			90°00'	
	49			90°00'	
	50			90°00'	
	51		7-47	90°00'	

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76L298 307 8-53

F. B. 1509 PG. 180 Job No. 0300 02 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION STUDY Date 7-28-55 Date No.

Survey by VAN DEREN Notes HENDERSON Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

76L298 307 8-53

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

76L298 307 4-50

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Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. 10 F.B. 1208 Pg. 18
No. ____ Date ____ Date ____ Survey of Beach Erosion
Misc. Notes Chkd. ____ Checked ____ Survey Date ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Date ____

STATION		B. S.	H. I.	F. S.	ELEV.				Remarks
Inst. Sight At	On	#	Color	Time	Hor. Ang.				
		1	void	7:16	84° 00'	4281	✓		
		2			83° 42'	4076	✓		
		3			83° 34'	3991	✓		
		4			83° 29'	3939	✓		
		5	void		83° 31'	3960	✓		
		6	void		83° 25'	3899	✓		
		7	void		83° 05'	3710	✓		
		8	364 44.0 257.8		82° 47'	3554	✓		
		9	238.8 39.8 232.6		82° 26'	3388	✓		
		10	220.2 36.7 214.0		82° 09'	3264	✓		
		11	204.0 34.0 197.8		82° 00'	3202	✓		
		12	192.6 32.1 186.4		82° 02'	3215	✓		
		13	191.4 31.9 185.2		81° 55'	3168	✓		
		14	188.4 31.4 182.2		81° 44'	3097	✓		
		15	173.4 28.9 167.2		81° 36'	3047	✓		
		16	157.2 26.2 151.0		81° 28'	2999	✓		
		17	144 24.0 137.8		80° 52'	2799	✓		
		18	134.4 22.4 128.2		80° 34'	2708	✓		
		19	120 20.0 113.8		80° 18'	2633	✓		
		20	108.8 18.8 94.6		80° 16'	2623	✓		

Fathoms Feet
Door +10 +10
Zero Adj. -0.1 -0.1
Tide -3.0 -3.0
Net +6.9 -2.9

S-22

Cut in 325+50-S

330+00

Keep this side

330+00

330+00 S-22

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.		Remarks
		21	80.4 13.4 74.2		80° 09	2592 ✓	Cut in 325+50-S
		22	62.4 10.4 56.2		80° 01	2556 ✓	
		23	57.6 9.6 51.4		79° 34'	2444 ✓	
		24	55.2 9.2 49.0		79° 03'	2326 ✓	
		25	52.8 8.8 46.6		78° 36'	2232 ✓	
		26	51.0 8.5 44.8 / 50.9 48.2		78° 08'	21[illegible] ✓	2141
		27	49.7 47.0		77° 36'	2047 ✓	
330+00	S-22	28	48.7 46.0		77° 08'	1970 ✓	
		29	48.5 45.8		76° 23'	1858 ✓	
		30	49.0 46.3		74° 31'	1624 ✓	
		31	47.5 44.8		72° 28'	1424 ✓	
		32	44.7 42.0		71° 23'	1336 ✓	
		33	41.1 38.4		69° 52'	1227 ✓	
		34	36.2 33.5		68° 07'	1120 ✓	
		35	30.2 27.5		66° 27'	1032 ✓	
		36	28.4 25.7		64° 11'	930 ✓	
		37	27.1 24.4		62° 05'	849 ✓	
		38	23.2 20.5		58° 30'	734 ✓	
		* 39	19.8 17.1		56° 07'	670 ✓	
		40	26.4 23.7		61° 30'	829 ✓	

F. B. 1509 Pg. 182 Job No. 030203 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 7-28-55 Date No.
Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.
Indexed [illegible] C. Johnson Date Date No.

761.298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.			
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks	
		41	23.0 20.3		58° 12'	726	✓	
Changed Battery		42	19.7 Changed Battery 17.0		56° 22'	676	✓	
		★ 43	19.6 16.9	7:37	52° 43'	591	✓	S-22
New Start		44	New start	7:44	58° 52'	745	✓	
		45			56° 16'	674	✓	Angle this side
		46	VOID		51° 50'	573	✓	
		47			48° 12'	503	✓	
330+00	S-22	48			43° 29'	427	✓	Cut 1m325+50-S
		49			39° 01'	365	✓	
		50			28° 20'	243	✓	
		51		7:47	25° 30'	215	✓	330+00

Profile Notes Red ____ Plotted ____ Job No. 6500.02 Division No. 10 F. B. 1509 Pg. 183
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
N. Sec. Notes Chkd. ____ Checked ____ Survey by Ken Geren Notes P.T. Date 2-28-55
No. ____ Date ____ Date ____ Map No. ____ Date ____

F. B. 1509 PG. 184 Job No. 0300.02 Division No. 12 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 7-28-55 Date No.

Survey by Van Dersh Notes R.T. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

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76L298 307 4-56

76L298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at. 325+50		Sighton. 324+00
325+50	4 46	25 83		21 37			
324+00	0 33	21 20	4 96	20 87			
8' R			0 4	20 8			T.B.
			10 2	11 0	11° 18'	30'	
			~~13 2~~	~~8 0~~			
	1 22	7 49	14 93	6 27	23 58	67	
		7 5	6 3	1 2	35 54	109	
			7 8	-0 3	46 36	159	
			9 1	-1 6	55 29	218	
			13 0	-5 5	63 33	301	
			16 5	-9 0	68 50	387	
324+00	0 33	21 20		20 87			
S-22			0 56	20 64	S-22, el.=20.610, F.B. 2100 157		

Inshore
S. 329+00
324+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F.B. 1589 Pg. 1-185
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by Engr. Notes Ed. Date 9-28-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F. B. 1509 Pg. 186 | Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beachemston Studies Date Date No.

Survey by English Notes Ed. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

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76L298 307 8-53

76L298 307 4-50

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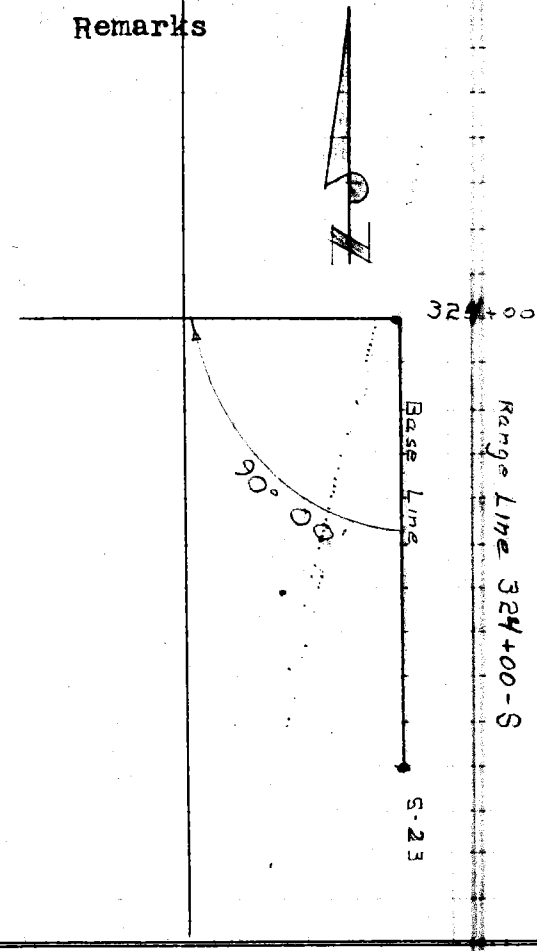
Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 187
No. ____ Date ____ Date ____ Survey of Sea[illegible]
X-Sec. Notes Chkd ____ Checked ____ Survey by Van Dereer Notes J.H. Date 7-28-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
324+00	S-23	1		8-07	90° 00'		
		2			90° 00'		
		3			90° 00'		
		4			90° 00'		
		5			90° 00'		
		6			90° 00'		
		7			90° 00'		
		8			90° 00'		
		9			90° 00'		
		10			90° 00'		
		11			90° 00'		
		12			90° 00'		
		13			90° 00'		
		14			90° 00'		
		15			90° 00'		
		16			90° 00'		
		17			90° 00'		
		18			90° 00'		
		19			90° 00'		
		20			90° 00'		



76L298 307 4-50

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STATION Inst. Sight At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
		21			90° 00'	Range line 324+00-S
		22			90° 00'	
		23			90° 00'	
		24			90° 00'	
		25			90° 00'	
		26			90° 00'	
		27			90° 00'	
324+00	S-23	28			90° 00'	
		29			90° 00'	
		30			90° 00'	
		31		8-23	90° 00'	

F. B. 1509 Pg. 188 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Date 7-28-55 Date No.
Survey by Van Deren Notes HENDERSON Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

9-6L398 307 4-50

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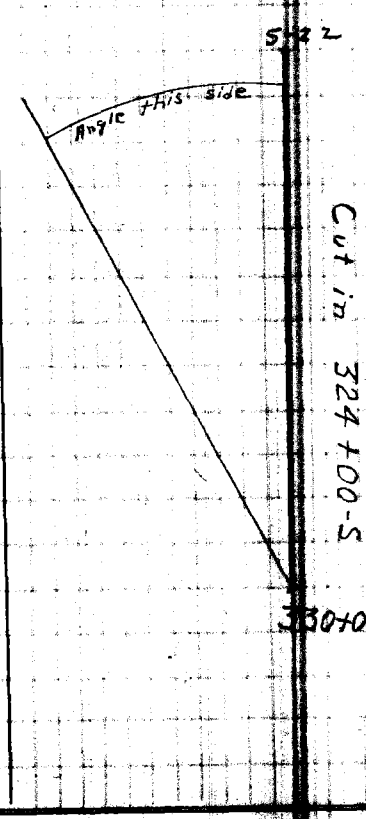
Profile Notes Red ____ Plotted ____ Job No. ____ Division No. 10 F.B. 7609
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
Sheet ____ Notes Checked ____ Survey Notes Checked ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Checked ____ Date ____

STATION	B. S.	H. I.	F. S.	ELEV.			Remarks	Equipment	Error
Inst. Sight At ON	#	Color	Time	Hor. Ang.					
		132.2 22.8 127.1						Boat +1.0	+1.0
	1	111.0 18.3 106.1	8:07	77° 54'	2799	✓		zero Adj −3.0 ✓	−.5
	2	93.0 15.5 88.1		77° 37'	2733	✓		Tide −2.9 ✓	−2.9
	3	84.0 14.0 79.1		77° 18'	2662	✓		Net −4.9 ✓	−2.4
	4	75.0 12.5 70.1		76° 56'	2585	✓			5+22
	5	68.4 11.4 63.5		76° 36'	2499	✓			
	6	69.8 10.8 59.9		76° 13'	2446	✓			
	7	69.0 11.5 64.1		75° 45'	2363	✓			
	8	66.6 11.1 61.7		74° 28'	2159	✓			
330+00	9	63.6 10.6 58.7		73° 55'	2081	✓			
S-22	10	62.4 10.4 57.5		72° 56'	1954	✓			
	11	63.0 10.5 58.1		72° [illegible]	1871	✓			
	12	63.0 10.5 58.1		71° 00'	1743	✓			
	13	58.2 9.7 53.3		69° 45'	1626	✓			
	14	59.4 9.9 54.5		68° 22'	1513	✓			
	15	57.0 9.5 52.1		66° 30'	1380	✓			
	16	50.4 8.4 45.5		64° 17'	1246	✓			
	17	49.0 46.6		62° 29'	1152	✓			
	18	45.6 43.2		60° 58'	1081	✓			
	19	40.0 37.6		59° 18'	1011	✓			
	20	33.8 31.4		54° 40'	846	✓			



76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

CUT → 8°

STATION Inst. At	Sight On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks
		21	28.5	26.1		53° 21'	806 ✓	Cut in 324+00-S
		22	26.7	24.3		52° 56'	794 ✓	
		23	26.6	24.2		50° 34'	730 ✓	
		24	23.7	21.3		48° 17'	673 ✓	
		25	20.7	18.3		46° 00'	621 ✓	
330+00	S-22	26	17.2	14.8		43° 00'	560 ✓	
		27	15.1	12.7		40° 22'	510 ✓	
		28	12.7	10.3		35° 58'	435 ✓	
		29	11.3	8.9		32° 19'	380 ✓	
		30	8.4	6.0		27° 46'	316 ✓	
		31	6.4 ?	4.0	8:23	23° 30'	261 ✓	

F. B. 1509 Pg. 190 Job No. 0500.02 Division No. 10 Notes Red Plotted Profile
Survey of Beach Erosion Study Date 7-28-55 Date No.
Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.
Indexed 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. Cut-in ∡

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 320+50			Sight on 323+00
S-22	4 46	25 07		20 61				
323+00	0 13	20 64	4 56	20 51	S.&T.			
8' R			0 6	20 0				T.B.
21' R			9 6	11 0		Comp	Dist	B.B.
			12 5	8 1	9° 15'	73°00'	42	
	0 98	6 68	14 94	5 70	14 47	67°28'	69	
			5 0	1 7	20 42	61°33'	101	
			6 4	0 3	28 03	54°12'	145	
			8 0	-1 3	34 14	48°01'	189	
			11 9	-5 2	45 26	36°49'	297	
			16 5	-9 8	52 47	29°28'	405	

Inshore
S. 323+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 1509 Rg. 191
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes Ed. Date 7-28-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F. B. 1509 Pg. 192 | 0300.02 Job No. Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by English Notes Ed. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

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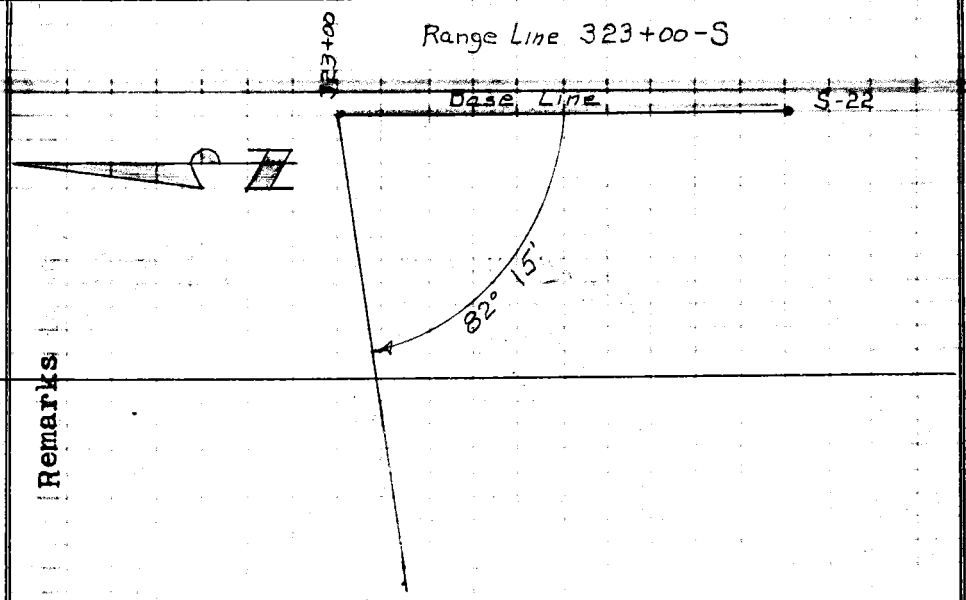
76L298 307 8-53

Profile	Notes Red.	Plotted	Job No. 030002	Division No. 10	F. B. 1509	Pg. 193
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J. H.	Date 7-28-55	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OH	#	Color	Time	Hor. Ang.	
	1		8-32	82° 15'	
	2			82° 15'	
	3			82° 15'	
	4			82° 15'	
	5			82° 15'	
	6			82° 15'	
	7			82° 15'	
	8			82° 15'	
	9			82° 15'	
	10			82° 15'	
	11			82° 15'	
	12			82° 15'	
	13			82° 15'	
	14			82° 15'	
	15			82° 15'	
	16			82° 15'	
	17			82° 15'	
	18			82° 15'	
	19			82° 15'	
	20			82° 15'	

S-22

323+00

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76L298 307 4-50

76L298 307 4-50

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F. B. 1609 Pg. 194 Job No. 8300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Date 7-28-55 Date No.
Survey by Van Deren Notes HENDERSON Notes Chkd. Checked X-Sec.
Indexed R. C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21			82°15'		
	22					
	23			82°15'		
	24			82°15'		
	25			82°15'		
	26			82°15'		
323+00 S-22	27			82°15'		
	28			82°15'		
	29			82°15'		
	30			82°15'		
	31			82°15'		
	32			82°15'		
	33			82°15'		
	34			82°15'		
	35		8-46	82°15'		

76L298 307 4-50

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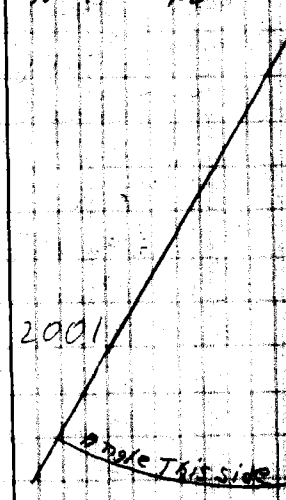
Do not extend notes this side of this line.

STATION		B. S.	H. I.			F. S.	ELEV.		
Inst. At	Sight On	#	Color			Time	Hor. Ang.		Remarks
		1	177.1	28.7	167.4	8:32	73° 14'	30[illegible]	
		2	124.8	20.8	120.0		72° 45'	2883	
		3	105.2	17.7	101.4		72° 29'	2[illegible]40	
		4	101.4	16.9	96.6		72° 13'	2750	
		5	91.8	15.3	87.0		71° 41'	2580	
		6	89.4	14.9	84.6		71° 19'	2490	
		7	87.0	14.5	82.2		71° 00'	24[illegible]	
		8	85.8	14.3	81.0		70° 33'	2315	
S-21	S-22	9	91.2	15.2	86.4		69° 46'	2155	
		10	110.4	18.4	105.6		68° 51'	1990	
		11	107.4	17.9	102.6		68° 05'	1880	
		12	106.8	17.8	102.0		67° 30'	1800	
		13	104.4	17.4	99.6		66° 40'	1700	
		14	82.8	13.8	78.0		65° 45'	1600	
		15	74.4	12.4	69.6		64° 42'	1500	
		16	75.6	12.6	70.8		63° 18'	1373	
		17	69.0	11.5	64.2		61° 38'	1249	
		18	54.0	9.0	49.2		60° 03'	1140	
		19	57.0	9.5	52.2		58° 09'	104[illegible]	
		20	[illegible]	8.1	43.8		56° 25'	[illegible]	

Fathoms Feet
Boat +1.0 [illegible]
Zero Adj -3.0 [illegible]
Tide -2.8 -2.8
Net -4.8 -2[illegible]



Cut in 323+00-S

Profile No. ____ Notes Red. ____ Plotted ____ Job No. [illegible] Division No. 10 F.B. 1509 No. 173
Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by [illegible] Date [illegible]
Date ____ Date ____ Map No. ____ Date ____

76L298 307 4-50

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STATION		B. S.	-2.3 H. I.		F. S.	ELEV.			
Inst. At	Sight On	#	Color		Time	Hor. Ang.		Remarks	
		21	35.5	33.2		53° 51	850	Cut in	323+00-s
		22	31.5	29.2					
		23	25.0	22.7		49° 52'	712		
		24	28.9	26.6		52° 04	785		
		25	25.2	22.9		49° 23'	700		
		26	19.1	16.8		47° 21'	640		
		27	16.7	14.4		45° 15'	589		
		28	14.8	12.5		42° 22'	520		
S-21	S-22	29	14.0	11.7		40° 51'	492		
		30	13.1	10.8		39° 27'	468		
		31	12.2	9.9		36° 56'	422		
		32	11.4	9.1		33° 50'	371		
		33	9.1	6.8		30° 08'	331		
		34	7.7	5.4		27° 14'	283		
		35	5.9	3.6	8:46	22° 58'	225		

F. S. 1509 Pg. 196 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 7-28-55 Date No.
Survey by Van Deren Notes P.T. Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date No.

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 319+00		Sight on 322+00
323+00	4 56	25 07		20 51	S.&T.	distance	
322+00	0 68	20 79	4 96	20 11	S.&T.		
14' R			0 6	20 2			T.B.
			9 6	11 2	6° 05'	32	
			13 5	7 3	10 46	58	
	2 01	8 00	14 80	5 99	12 53	70	
			6 3	1 7	18 17	104	
			8 9	-0 9	27 53	177	
			12 6	-4 6	38 09	277	
			17 8	-9 8	45 09	370	

Inshore
S. 322+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 197
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes Ed. Date 7-28-55
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

F. B. 1509 Pg. 198 | 0300.02 Job No. Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by English Notes Ed. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

761298 307 8-53

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726 Los Angeles County Engineering Bldg.

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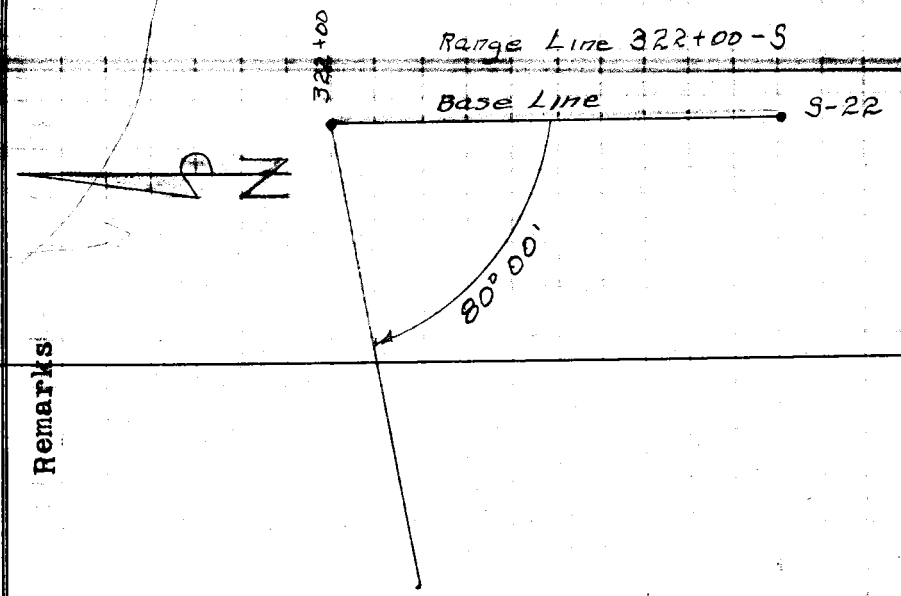
Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 1509	Pg. 149
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.H.	Date [illegible]	
No.	Date	Date	Map No. [illegible]	Indexed Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OH	#	Color	Time	Hor. Ang.	
	1		9-00	80° 00'	
	2			80° 00'	
	3			80° 00'	
	4			80° 00'	
	5			80° 00'	
	6			80° 00'	
	7			80° 00'	
	8			80° 00'	
	9			80° 00'	
	10			80° 00'	
	11			80° 00'	
	12			80° 00'	
	13			80° 00'	
	14			80° 00'	
	15			80° 00'	
	16			80° 00'	
	17			80° 00'	
	18			80° 00'	
	19			80° 00'	
	20			80° 00'	
S-22					
322+00					

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 4-50

76L298 307 4-50

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

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
		21			80° 00'	Range line 322+00-S
		22			80° 00'	
		23			80° 00'	
		24			80° 00'	
		25			80° 00'	
		26			80° 00'	
322+00	S-22	27		9-08	80° 00'	

F. B. 1509 Pg. 200

Job No. 0300 OV Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date 7-28-55 Date No.

Survey by Van Deren Notes Henderson Notes Chkd. Checked X-Sec.

Indexed C. Johnson Date Date Date No.

76L298 307 4-50

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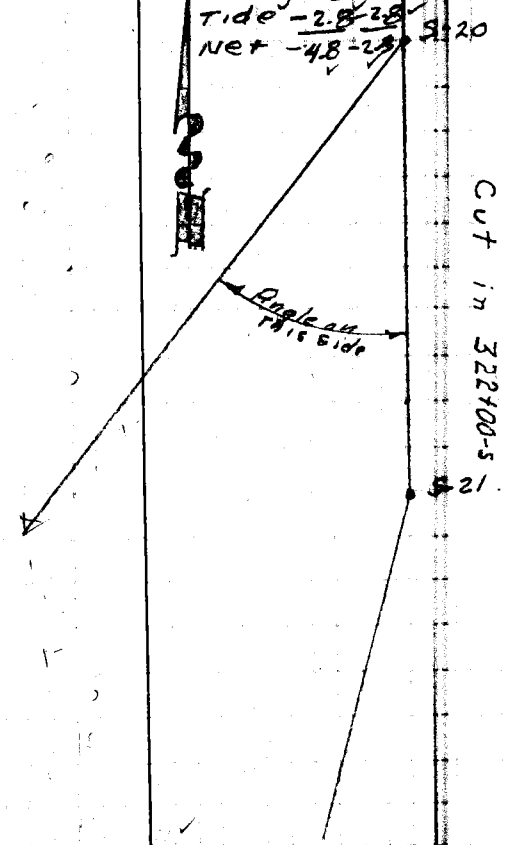
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. Sight At / On	#	# Color	Time	Hor. Ang.		
	1	147.0 24.5 142.2 / 165.0 27.5 160.2	9:00	69° 45'	3043	
	2	132.0 22.0 127.2 / 135.0 22.5 130.2		69° 08'	2920	
	3	105.0 17.5 100.2		68° 30'	2810	
	4	102.0 17.0 97.2		67° 50'	2704	
	5	93.6 15.6 88.8		67° 16'	2623	
	6	90.0 15.0 85.2		66° 26'	2500	
	7	88.8 14.8 84.0		65° 51'	2422	
	8	87.6 14.6 82.8		65° 00'	2316	
	9	VOID 20?		63° 16'	2131	
	10	VOID		61° 11'	1925	
	11	96.0 16.0 91.2		57° 31'	1633	
	12	81.0 13.5 76.2		56° 13'	1548	
	13	81.0 13.5 76.2		54° 38'	1448	
	14	VOID 13.7		52° 35'	1331	
	15	66.0 11.0 61.2		50° 18'	1214	
	16	66.0 11.0 61.2 / 69.6 64.8 / half way between 16		47° 34'	1092	
	17	66.0 11.0 61.2		45° 13'	998	
	18	39.9 6.5 34.2 / 29.5? 27.2		41° 00'	848	
	19	26.4 24.1		37° 10'	720	
	20	24.1 21.8		35° 46'	684	

Fathom Feet
Boat +1.0 +1.0
Zero Adj -3.0 -.5
Tide -2.8 -2.8
Net -4.8 -2.3



S-20

S-21

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 201
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 7-28-56
No. ____ Date ____ Date ____ Map No. ____ Inst. Johnson Date ____

76L298 307 4-50

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STATION		B. S.	H. I.		F. S.	ELEV.		
INST AT	SIGHT AT	#	Color		TIME	Horz Ang.		Remarks
		21	21.2	18.9		33°37'	626	
		22	18.0	15.7		30°36'	550	Cut in 322+00-S
		23	15.5	13.2		27°36'	479	
		24	13.3	11.0		24°42'	413	
		25	10.4	8.1		21°31'	344	
		26	6.0	3.7		16°45'	250	
		27	4.4	2.1	9:08	13°53'	195	
S-20	S-21							

F. B. 1509 PG. 204 Job No. 0300.00 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 7-28-55 Date No.
Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.
Indexed R. C. Johnson Date Date Date No.

76L298 307 8-53

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CUT IN ∡

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT S-21		SIGHT ON 320+50
322+00	0 68	20 79		20 11			
320+50	1 24	20 74	1 29	19 50	S.&T.		
14' R.			0 6	20 1			T.B.
			9 2	11 5	7° 40'	33	
			11 9	8 8	12 10	55	
	2 04	7 78	15 00	5 74	17 02	82	
			6 7	1 1	22 49	118	
			8 2	-5 4	30 24	170	
			10 7	-2 9	38 51	245	
			15 0	-7 7	47 03	358	

Inshore
S. 320+50

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 203
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies.
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes Ed. Date 7-28-55
No. ____ Date ____ Date ____ Map No. ____ Date ____

F. B. 1509 Pg. 204 | 0300.02

Job No. Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by English Notes Ed. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

76L298 307 8-53

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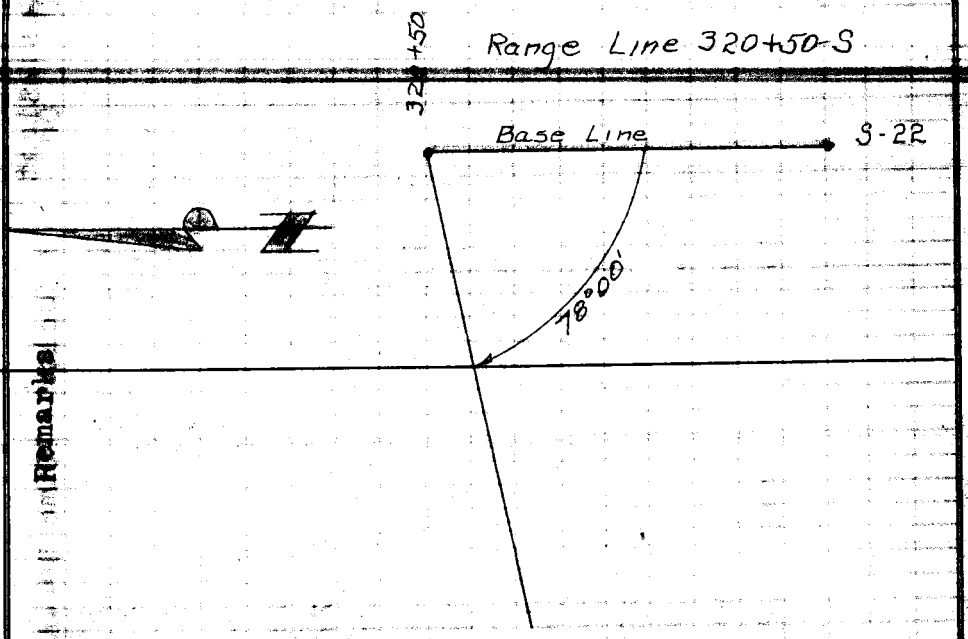
Profile No. ____ Notes Red. ____ Plotted ____ Job No. [illegible] Division No. 10 F.B. 1509 PG. 203

Date ____ Date ____ Survey of Beach Erosion

X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date [illegible]

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



STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At OH	#	Color	Time	Hor. Ang.	
	1		9-21	78°00'	
	2			78°00'	
	3			78°00'	
	4			78°00'	
	5			78°00'	
	6			78°00'	
	7			78°00'	
	8			78°00'	
	9			78°00'	
	10			78°00'	
	11			78°00'	
	12			78°00'	
	13			78°00'	
	14			78°00'	
	15			78°00'	
	16			78°00'	
	17			78°00'	
	18			78°00'	
	19			78°00'	
	20			78°00'	

S-22

320+50

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[illegible] 307 4-50

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21			78° 00'		
	22			78° 00'	Range line 320+50-S	
	23			78° 00'		
	24			78° 00'		
	25			78° 00'		
	26			78° 00'		
	27			78° 00'		
	28			78° 00'		
	29			78° 00'		
	30			78° 00'		
	31			78° 00'		
	32			78° 00'		
	33			78° 00'		
	34			78° 00'		
	35			78° 00'		
	36		9-28	78° 00'		

Profile
Job No. 7509 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Date 7-24-58 Date No.
Survey by Van Deren Notes Henderson Notes Chkd. Checked X-Sec.
Indexed R. C. Johnson Date Date Date No.

761.398 307 4-50

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.				Fathoms	Feet
Inst. Sight At / On	#	Color / Time	Hor. Ang.			Remarks	Boat	+1.0	+4.0
							Zero Adj	-1.0	-3
							Tide	-2.0	-2.0
							Net	-4.0	-2.3
	1	123.9 20.6 119.1 / 9:21	69° 40'	2890					5-20
	2	113.4 18.9 108.6	69° 18'	2830					
	3	113.4 18.9 108.6	68° 54'	2755					
	4	108.0 18.0 103.2	68° 28'	2090		266			
	5	101.4 16.9 96.6	67° 59'	2580					
	6	111.0 18.5 106.2	67° 50'	2560					
	7	108.0 18.0 103.2	67° 26'	2495					
	8	105.0 17.5 100.2	66° 57'	2420					
5-20 5-21	9	102.0 17.0 97.2	66° 12'	2310					
	10	120.0 20.0 115.2	65° 07'	2172					
	11	126.0 21.0 121.2							
	12	138.0 23.0 133.2	63° 06'	1950					
	13	139.2 23.2 134.4	62° 28'	1890					
	14	136.8 22.8 132.0	61° 57'	1825					
	15	126.0 21.0 121.2	60° 28'	1705					
	16	111.0 18.5 106.2	59° 06'	1600					
	17	103.2 17.2 98.4	57° 52'	1510					
	18	94.2 15.7 89.4	56° 04'	1390					
	19	85.8 14.3 81.0	54° 52'	1320					
	20	76.8 12.8 72.0	52° 30'	1125					

Cut in 320+50-5

Angle This Side not Other Side

S-21

Profile No. ____ Notes Red. ____ Plotted ____ Job No. Sanitary Division No. 16
Date ____ Date ____ Survey of Beach Erosion Study
Name Chief ____ Checked ____ Surveyed by ____ Notes ____
No. ____ Date ____ Date ____ Map No. ____ Index ____ Date ____

76L298 307 4-50

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

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

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. -2.3 Color		F. S. Time	ELEV. Hor. Ang.	Remarks
		21	89.4	14.9 84.6		50° 02'	1080 Cut in 320+50-S
		22	81.0	13.5 76.2		48° 01'	995
		23	69-11.5 55.0?	69.7 52.7?		44° 19'	861
		24	39.0	36.7		42° 03'	790
		25	34.5	32.2		40° 58'	758
		26	29.4	27.1		38° 41'	690
		27	24.6	22.3			
S-20	S-21	28	20.0	17.7		33° 25'	553
		29	17.8	15.5		31° 36'	511
		30	15.0	12.7			
		31	11.5	9.2		25° 00'	375
		32	16.2	13.9		29° 26'	468
		33	12.9	10.6		26° 05'	400
		34	10.1	7.8		23° 06'	340
		35	8.2	5.9		19° 56'	281
		36	6.1	3.8	9:28	15° 42'	210

Profile No. X-Sec. No.
Plotted Date
Notes Red Date 7-28-55
Notes Chkd. Checked Date
Job No. 0306.02 Division No. 10
Survey of Beach Erosion Study
Survey by Van Deren Notes R.T.
Indexed K. C. Johnson Date
F.S. 1508 Pg. 208

76L298 307 8-53

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Do not extend notes this side of this line. CUT IN ∡

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT 322+00		SIGHT ON 319+00
320+50	1 29	20 74		19 50			
319+00	1 58	20 52	1 80	18 94			
15' R			1 3	19 2			T.B.
			9 0	11 5	7° 01'	37	
			11 7	8 8	11 42	59	
	1 72	7 28	14 96	5 56	17 19	89	
			5 5	1 8	22 47	118	
			7 8	-0 5	32 40	171	
			10 4	-3 1	43 05	240	
			14 9	-7 6	53 03	321	
319+00	1 58	20 52		18 94			
S-21			2 02	18 50	S-21, el = 18.500,		F.B. 2100-158

Inshore
S. 319+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 60 F. B. 1509 Pg. 209
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes Ed. Date 7-28-55
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____
C. Johnson

F. B. 1509 Pg. 210 | 0300.02

Job No. Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by English Notes Ed. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

Do not extend notes this side of this line.

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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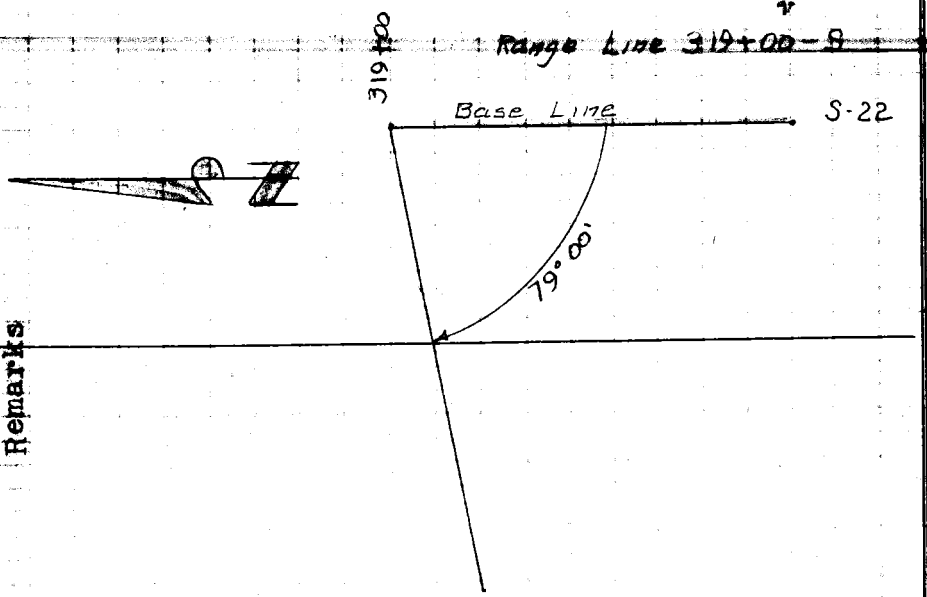
761298 307 8-53

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 1509	Pg. 211
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.H.	Date 7-[illegible]-55	
No.	Date	Date	Map No.	Indexed A. G. Johnson	Date	

Range Line 319+00 - S



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OH	#	Color	Time	Hor. Ang.	
	1		9-59	79°00'	
	2			79°00'	
	3			79°00'	
	4			79°00'	
	5			79°00'	
	6			79°00'	
	7			79°00'	
	8			79°00'	
	9			79°00'	
	10			79°00'	
	11			79°00'	
	12			79°00'	
	13			79°00'	
	14			79°00'	
	15			79°00'	
	16			79°00'	
	17			79°00'	
	18			79°00'	
	19			79°00'	
	20		10-06	79°00'	

S-22

319+00

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 4-50

F. B. 1509 Pg. 212

Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date 7-28-55 Date No.

Survey by Van Deren Notes HENDERSON Notes Chkd. Checked X-Sec.

Indexed C. Johnson Date Date Date No.

76L298 307 4-50

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
319+00 S-22						

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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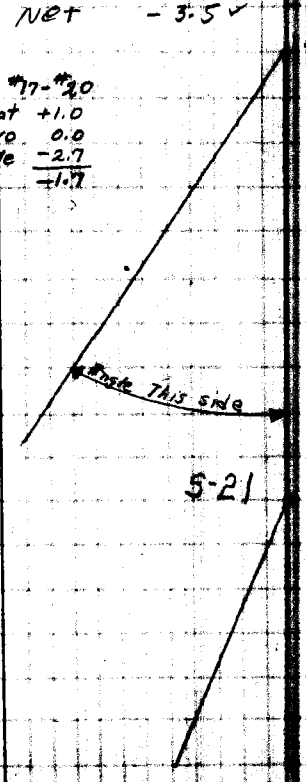
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.		
		1	147.0 24.5 143.5 void	9:59	66° 57'	1940	
		2	145.2 24.2 141.7		66° 03'	1830	
		3	135.0 22.5 131.5		64° 52'	1712	
		4	void		63° 06'	1565	
		5	void		61° 46'	1468	
		6	126.0 21.0 122.5		59° 48'	1339	
		7	117.0 19.5 113.5		57° 42'	1220	
		8	105.0 17.5 101.5		56° 07	1139	
		9	90.0 15.0 86.5		53° 17'	1013	
		10	72.0 12.0 68.5		50° 20'	900	
		11	54.0 9.0 50.5 / 52.5? 50.5		46° 50'	790	
		12	47.2 45.2		44° 12'	712	
		13	31.2 29.2		41° 45'	650	
		14	24.0 22.0		38° 36'	574	
		15	20.0 18.0		36° 30'	529	
		16	18.0 16.0		34° 24'	489	
		17	12.5 10.8		31° 52'	440	
		18	10.4 8.7		28° 43'	387	
		19	8.6 6.9		25° 27'	331	
		20	void	10:06	21° 29'	[illegible]	

	Fathoms	Feet
Boat	+1.0	+1.0
Zero Adj	-1.8	-.3
Tide	-2.7	-2.7
Net	-3.5	-2.0

Shots #17-#20
Boat +1.0
Zero 0.0
Tide -2.7
-1.7



S-20 S-21

Profile Notes Red. Plotted Job No. [illegible] Division No. 10 F.S. 1509 Pg. 213
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by [illegible] Date 7-28-[illegible]
No. Date Date Map No. [illegible] Date

F. B. 1509 Pg. 214 Job No. [illegible] Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date 7-29-[illegible] Date _____ No. _____

Survey by Van Doren Notes R.T. Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
~~Instrument~~ At On	#	Color	Time	Her. Ang.	

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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.

76L 298 307 4-50

Profile No. ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 0300.02 Division No. 10 F. B. 1509 PG. 215

X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of Beach Erosion Studies Survey by English Notes Ed. Date 7-28-55 Map No. ____ Indexed K. C. Johnson Date ____

Inshore

S. 317+00

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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. CUT IN 4

STATION	B. S.	H. I.	F. S.	ELEV.	Inst at 315+40	Sight on 317+00
S-21	2 03	20 53		18 50		
317+00	1 33	19 47	2 39	18 14		
14' R			0 9	18 6		
			7 9	11 6	10° 31' 75° 21' 30	T.B.
			10 7	8 8	19 47 66 05 59	
			4 96	4 51	27 29 58 23 87	
	2 76	7 27	7 0	0 3	36 01 49 51 123	
			10 6	-3 3	51 49 34 03 225	
			16 5	-9 2	60 03 25 49 318	

76L298 307 8-53

F. B. 1509 Pg. 216 | 0300.02

Job No. _____ Division No. 10 _____ Notes Red. _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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76L298 307 8-53

76L298 307 4-50

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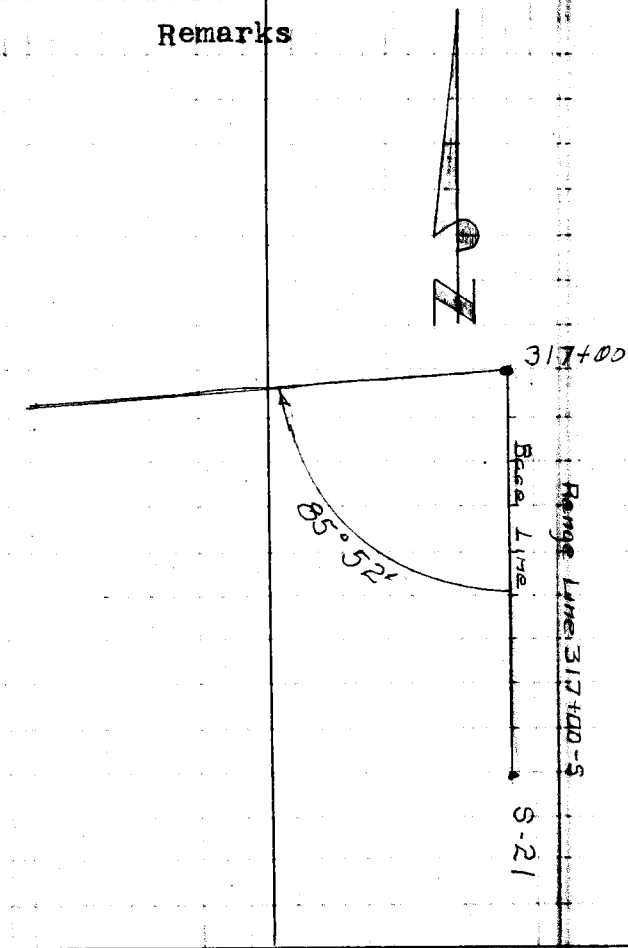
Do not extend notes this side of this line.

Profile No. ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 03000 Division No. 10 Survey of Beach Erosion Survey by Van Deren Notes J.H. Date 7-28-65 F. B. 15509 Pg. 217

X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Map No. ____ Inspector Johnson Date ____

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
317+00	S-21	1		10-18	85° 52'	
		2			85° 52'	
		3			85° 52'	
		4			85° 52'	
		5			85° 52'	
		6			85° 52'	
		7			85° 52'	
		8			85° 52'	
		9			85° 52'	
		10			85° 52'	
		11			85° 52'	
		12			85° 52'	
		13			85° 52'	
		14			85° 52'	
		15			85° 52'	
		16			85° 52'	
		17			85° 52'	
		18			85° 52'	
		19			85° 52'	
		20			85° 52'	



76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F. B. 1509 Pg. 218 | Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Date 7-28-55 Date No. X-Sec.
Survey by VanDeren Notes Henderson Notes Chkd. Checked
Indexed K. C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21			85° 52'		
	22			85° 52'	Range 317+00-S	
	23			85° 52'		
	24			85° 52'		
	25			85° 52'		
	26			85° 52'		
317+00	27			85° 52'		
	28			85° 52'		
S-21	29		1044	85° 52'		

76L398 307 4-50

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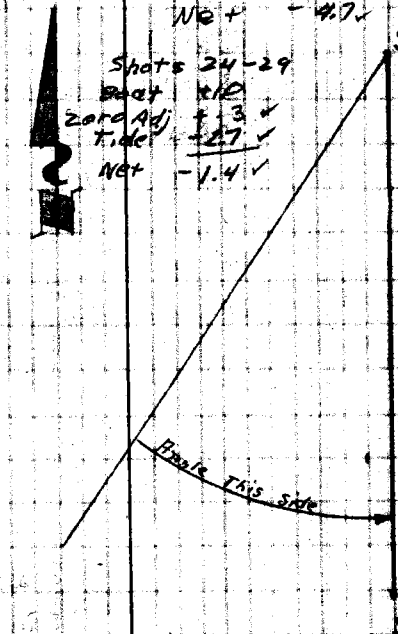
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
		1	void	10:18	72° 45'	2092	
		2	void		72° 07'	1990	
		3	void		71° 21'	1878	
		4	void		70° 32'	1768	
		5	void		69° 26'	1638	
		6	void		68° 15'	1520	
		7	void		66° 31'	1370	
		8	129.0 21.5 124.3		64° 08'	1205	
S-20	S-21	9	115.2 19.2 110.5		63° 00'	1130	
		10	91.8 15.3 87.1		61° 49'	1070	
		11	81.0 13.5 76.3		59° 47'	971	
		12	75.6 12.6 70.9		57° 32'	880	
		13	57.0 9.5 52.3		55° 00'	791	
		14	36.6 34.7				
		15	30.9 29.0		51° 11'	680	
		16	27.5 25.6		49° 29'	631	
		17	25.2 23.3		47° 18'	580	
		18	21.6 19.7		44° 52'	528	
		19	19.0 17.2		42° 58'	495	
		20	void		46° 51'	571	

	Fathom	Feet
Boat	+1.0	+1.0
Zero Adj	-3.0	-.2
Tide	-2.7	-2.7
Net	-4.7	-1.9

Shots 24-29
Boat +1.0
Zero Adj +.3
Tide -2.7
Net -1.4



Cut in 317+00-S

Profile Notes Red. ____ Plotted ____ Job No. 25-2-28 Division No. 10 F.B. 1509 Pg. 219
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deusen Notes R.T. Dep. 2-[illegible]
No. ____ Date ____ Date ____ Map No. [illegible] Date ____

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
		21	void		44° 10'	516 Cut in 317+00-S
		22	void		41° 09'	461
		23	void changed Battery	10:30	36° 40'	390
		24	15.2 Start 13.8	10:42	38° 52'	424
		25	12.3 10.9		36° 15'	383
		26	10.7 9.3		33° 32'	343
		27	9.7 8.3		31° 05'	310
		28	8.5 7.1		28° 15'	275
S-20	S-21	29	7.6 6.2	10:44	25° 53'	248

F. B. 1809 Pg. 220 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 7-28-55 Date No. X-Sec.
Survey by Van Deren Notes R.T. Notes Chkd. Checked
Indexed C. Johnson Date Date No.

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. CUT IN ∡

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT S-21		SIGHT ON 316+00
317+00	1 33	19 47		18 14			
316+00	1 22	18 92	1 77	17 70			
14' R			0 7	18 2			T.B.
			7 5	11 4	8° 25'	30	
			10 5	8 4	16 04	54	
	3 00	7 02	14 90	4 02	24 48	89	
			5 8	1 2	31 32	111	
			10 0	-3 0	45 52	190	190
			16 5	~~8 5~~ -9.5	60 10	305	

Inshore
S. 316+00

Profile Notes Red. ____ Plotted ____ Job No. 03000 Division No. 10 F. B. 1509 Pg. 221
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by ENGLISH Notes ED Date 7-28-50
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____
C. Johnson

F. B. 1509 Pg. 222 Job No. 0300102 Division No. 15 Notes Red. Plotted Profile

Survey of BEACH [illegible] Date Date No.

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

Indexed Date Date Date No.

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

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.

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1509

F.B. _____ PG. _____

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

July 29, 1955

No reading. Tide Gage not working.

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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RETURN TO
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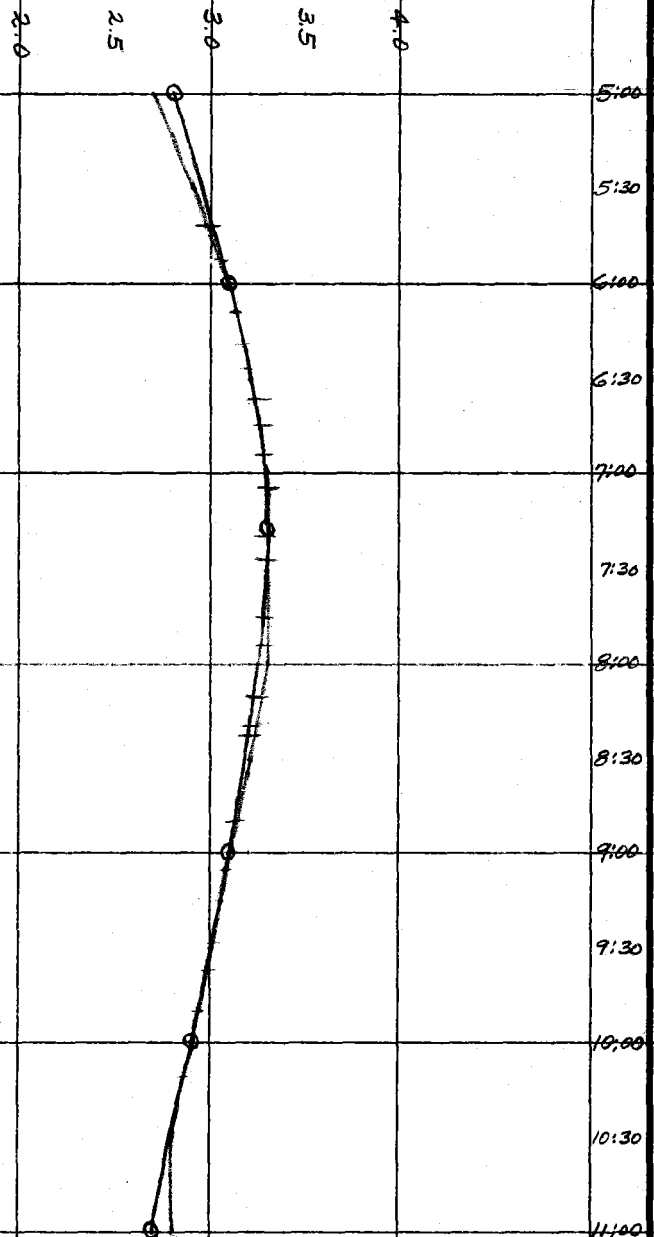
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

78F3088 247 4-53

F. B. _____ PG. _____

Red Curve copied from Hendry Tide Book
for July 29, 1955



Blue Curve from USC & GS Tide Tables

RETURN TO
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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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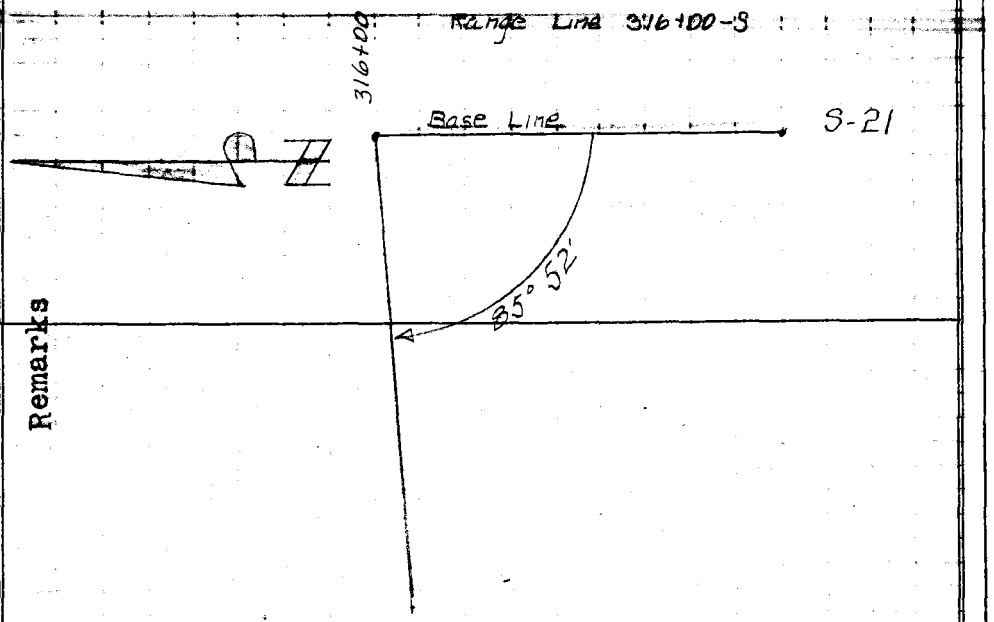
Profile	Notes Red.	Plotted	Job No. 2300.02	Division No. 10	F. B. 1509	Pg. 223
No.	Date	Date	Survey of			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.H.	Date 7-29-55	
No.	Date	Date	Map No.	Indexed Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		5-41	85° 52'	
	2			85° 52'	
	3			85° 52'	
	4			85° 52'	
	5			85° 52'	
	6			85° 52'	
	7			85° 52'	
	8			85° 52'	
	9			85° 52'	
	10			85° 52'	
	11			85° 52'	
	12			85° 52'	
	13			85° 52'	
	14			85° 52'	
	15			85° 52'	
	16			85° 52'	
	17			85° 52'	
	18			85° 52'	
	19			85° 52'	
	20			85° 52'	

S-21

316+00

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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.

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.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21			85° 52'		
	22			85° 52'	Range 316+00-S	
	23			85° 52'		
	24			85° 52'		
	25			85° 52'		
	26			85° 52'		
	27			85° 52'		
	28			85° 52'		
316+00 S-21	29			85° 52'		
	30			85° 52'		
	31			85° 52'		
	32			85° 52'		
	33			85° 52'		
	34			85° 52'		
	35			85° 52'		
	36		5-52	85° 52'		

F. B. 1509 Pg. 124 Job No. 030002 Division No. 10 Notes Red. Plotted No. Profile
Survey of Beach Erosion Date 7-29-55 Date X-Sec.
Survey by Kim Oberlin Notes Henderson Notes Chkd. Checked No.
Indexed C. Johnson Date Date Date

76L298 307 4-50

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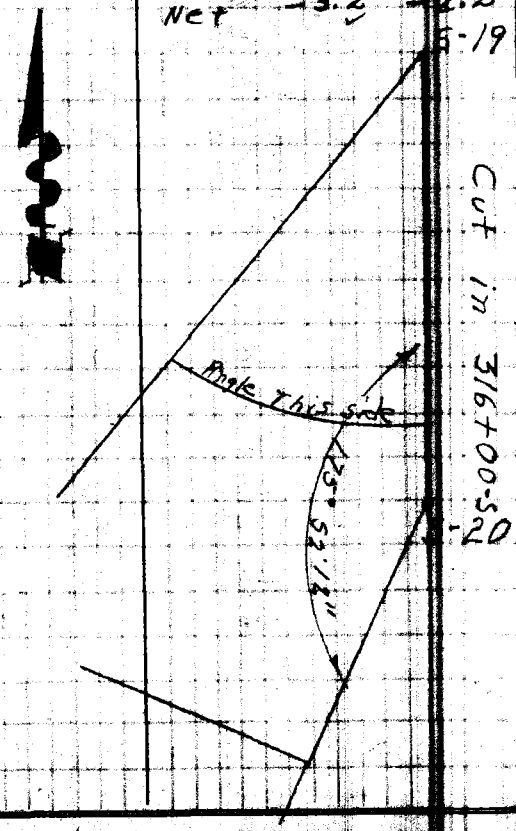
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.		
		1	VOID	5:41	70° 39'	2900	
		2			69° 29'	2712	
		3			67° 36'	2460	
		4			65° 09'	2190	
		5	VOID		61° 42'	1870	
		6	171.0 28.5 167.8		57° 27'	1579	
		7	157.2 26.2 154.0		55° 39'	1475	
		8	148.2 24.7 145.0		53° 49'	1376	
S-19	S-20	9	141.6 23.6 138.4		52° 36'	1310	
		10	132.0 22.0 128.8		51° 10'	1245	
		11	124.2 20.7 121.0		49° 48'	1187	
		12	115.2 19.2 112.0		48° 12'	1116	
		13	108.0 18.0 104.8		46° 46'	1060	
		14	96.0 16.0 92.8		45° 02'	998	
		15	84.0 14.0 80.8		43° 04'	930	
		16	63.0 10.5 59.8		40° 36'	852	
		17	54.0 9.0 50.8 / 52.0 49.8		38° 55'	800	
		18	48.7 46.5		37° 41'	764	
		19	46.0 43.8		36° 47'	736	
		20	42.0 39.8		35° 40'	708	

	Fathoms	Feet
Boat	+1.0	+1.0
Zero Adj	-1.2	-0.2
Tide	-3.0	-3.0
Net	-3.2	-2.2



Profile No. ____ Date ____ Notes Red. ____ Plotted ____ Date ____ Job No. ____ Survey of Beach Erosion Study
X-Sec. No. ____ Date ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by ____ Map No. ____ Date ____

76L298 307 4-50

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

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STATION Inst. Sight At	STATION Inst. Sight On	S. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks	
		21	39.4 / 37.2		34° 33'	678	Cut in 316+00-S
		22	35.5 / 33.3		33° 35'	653	
		23	31.5 / 29.3		32° 23'	620	
		24	26.9 / 24.7		30° 26'	572	
		25	24.9 / 22.7		29° 52'	560	
		26	23.5 / 21.3		28° 45'	540	
		27	21.2 / 19.0		27° 20'	501	
		28	19.5 / 17.3		26° 14'	478	
S-19	S-20	29	18.0 / 15.8		24° 42'	442	
		30	16.4 / 14.2		23° 37'	420	
		31	14.8 / 12.6		22° 05'	388	
		32	13.7 / 11.5		20° 36'	357	
		33	12.0 / 9.8		19° 03'	325	
		34	10.6 / 8.4		17° 30'	295	
		35	9.0 / 6.8		15° 57'	263	
		36	VOID	5.52	14° 33'	239	

22

Profile No. X-Sec. No.
Plotted Date 7-29-55 Checked Date
Notes Red Date Notes Chkd Date
Job No. 0300-42 Division No. 10
Survey of Beach Erosion Study
Survey by Van Deren Notes R.T.
Indexed C. Johnson Date
Pg. 126

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. CUT IN ∡

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT. S-21		SIGHT ON 315+40
316+00	1 22	18 92		17 70			
315+40	0 97	18 45	1 44	17 48			
15' R			0 9	17 6			T.B.
			4 9	13 6	5° 53'	27	
			6 7	11 8	10 25	47	
	1 34	7 02	12 77	5 68	17 42	81	
			[illegible] 6	[illegible]	26 54	131	
			9 7	-2 7	35 48	186	
			12 4	-5 4	43 41	245	
			16 0	-9 0	50 55	316	

Inshore
S. 315+40
S. Side
Grain #2

Profile Notes Red. Plotted Job No. 6300.02 Division No. 10 F. B. 1509 Pg. 227
No. Date Date Survey of BLACK [illegible]
X-Sec. Notes Chkd. Checked Survey by ENGLISH Notes ED Date 7-28-50
No. Date Date Map No. X Indexed C. Johnson Date

F. B. 1509 PG. 228 Job No. 0300.22 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date 7-28-55 Date No.

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

Indexed Date Date Date No.

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

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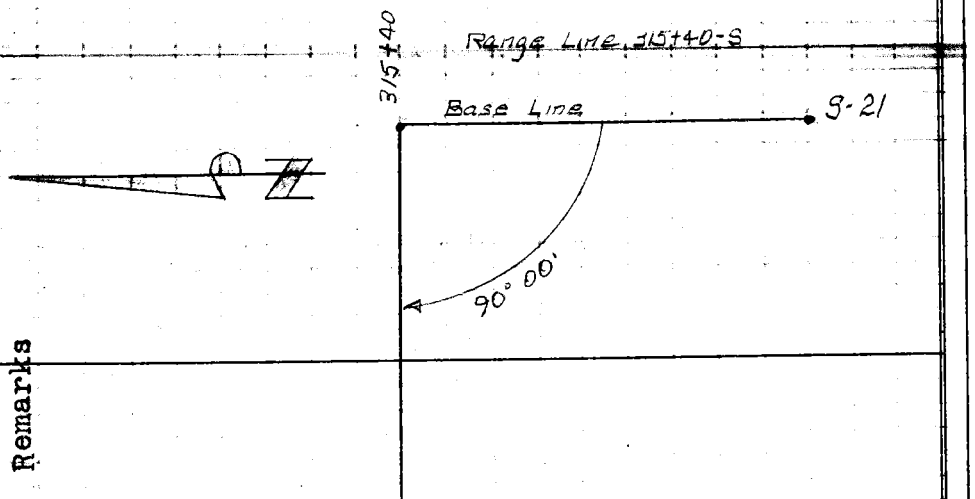
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 1509	Pg. 229
No.	Date	Date	Survey of [illegible]			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deeanu	Notes T. H.	Date 7-29-55	
No.	Date	Date	Map No.	Indexed A. G. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OH	#	Color	Time	Hor. Ang.	
	1		6-01	90° 00'	
	2			90° 00'	
	3			90° 00'	
	4			90° 00'	
	5			90° 00'	
	6			90° 00'	
	7			90° 00'	
	8			90° 00'	
	9			90° 00'	
	10			90° 00'	
	11			90° 00'	
	12			90° 00'	
	13			90° 00'	
	14			90° 00'	
	15			90° 00'	
	16			90° 00'	
	17			90° 00'	
	18			90° 00'	
	19			90° 00'	
	20			90° 00'	

S-21

315+40

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

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F. B. 1509 PG. 230

Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION STUDY Date 7-29-55 Date No.

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

Indexed E. C. Johnson Date Date Date No.

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.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
315+40-S	21			90° 00'		
S-21	22			90° 00'		
	23			90° 00'		Range 315+40-S
	24			90° 00'		
	25			90° 00'		
	26			90° 00'		
	27			90° 00'		
	28			90° 00'		
	29			90° 00'		
	30		6-09	90° 00'		

76L298 307 4-50

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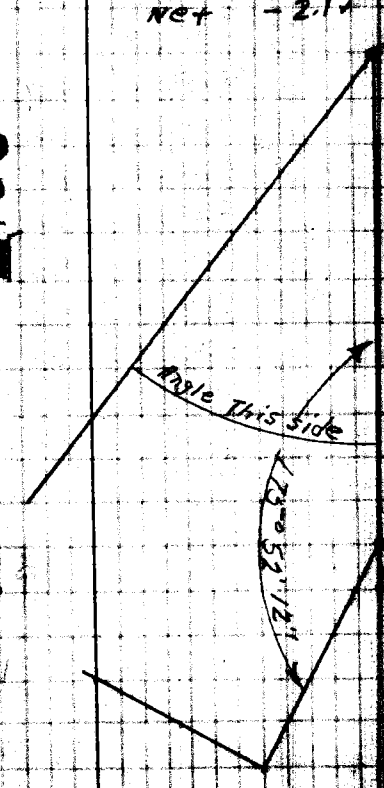
Do not extend notes this side of this line.

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. 10 F.B. 1209 Pg. 231
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
Spec. ____ Chief ____ Checked ____ Survey Made ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

STATION		B. S.	H. I.			F. S.	ELEV.			Fathoms	Feet
Inst. Sight At	On	#	Color			Time	Hor. Ang.		Remarks	Boat	41.0
									zero	Adj	0.0
		1	void			6:01	68° 34'	2062		Tide	-3.1
		2	212.4	35.4	210.3		67° 08'	1950		Net	-2.1
		3	202.8	33.8	200.7		66° 24'	1887			S-19
		4	195.0	32.5	192.9		64° 52'	1765			
		5	186.0	31.0	183.9		63° 41'	1695			
		6	178.8	29.8	176.7		62° 13'	1602			
		7	172.8	28.8	170.7		61° 03'	1520			
		8	162.6	27.1	160.5		59° 30'	1435			
		9	156.0	26.0	153.9		58° 02'	1363			
		10	144.0	24.0	141.9		56° 01'	1267			
		11	127.8	21.3	125.7		53° 42'	1173			
		12	114.0	19.0	111.9		51° 29'	1091			
		13	102.0	17.0	99.9		48° 42'	992			
		14	91.8	15.3	89.7		46° 46'	933			
		15	78.0	13.0	75.9		44° 43'	869			-20
		16	66.0	11.0	63.9		42° 30'	809			
		17	55.2	9.2	53.1		40° 19'	751			
		18	51.3		49.2		36° 07'	646			
		19	43.2		41.1		34° 09'	600			
		20	34.0		31.9		32° 48'	572			
S-19	S-20										



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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STATION Inst. At	Sight On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks
		21	27.2	25.1		31° 17'	541	Cut in 315+40-S
		22	23.9	21.8		29° 53'	510	
		23	20.9	18.8		28° 15'	476	
		24	18.0	15.9		26° 42'	444	
		25	16.4	14.3		24° 57'	410	
		26	14.9	12.8		23° 24'	382	
		27	13.2	11.1		21° 36'	348	
S-19	S-20	28	11.4	9.3		19° 56'	320	
		29	9.7	7.6		17° 58'	282	
		30	6.5	4.4	6:09	14° 47	223	

F. B. 1509 Pg. 232 Job No. 030042 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 7-29-55 Date No. X-Sec.
Survey by Van Deren Notes R.T. Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.

76L298 307 8-53

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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. CUT IN ∡

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT S-21		SIGHT ON 315+10
315+40	1 44	18 92		17 48			
315+10	1 12	18 45	1 59	17 33			
15' R			0 8	17 7			T.B.
			5 3	13 2	5° 42'	29	
			9 4	9 1	10 50	55	
	3 18	6 66	14 97	3 48	17 23	90	
			6 0	0 7	21 01	110	
			8 2	-1 5	28 46	158	
			12 0	-5 3	40 34	246	
			16 0	-9 3	47 19	312	

Inshore
S. 315+10
N. side
Groin #2

Profile Notes Red. ____ Plotted ____ Job No. 030002 Division No. 10 F. B. 1509 Pg. 133
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by ENGLISH Notes ED Date 7-28-55
No. ____ Date ____ Date ____ Map No. ____ Indexed X C Johnson Date ____

F. B. 1509 Pg. 234 | Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date 7-28-53 Date No.

Survey by ENGLISH Notes LD Notes Chkd. Checked X-Sec.

Indexed Date Date Date Date No.

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

Do not extend notes this side of this line.

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 8-53

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Do not extend notes this side of this line. CUT IN ∡

STATION	B. S.	H. I.	F. S.	ELEV.	INST. AT 312+65		SIGHT ON 314+65
315+10	0 84	18 17		17 33			
314+65	0 93	18 17	0 93	17 24			
15' R			0 6	17 6			T.B.
			7 3	10 9	8° 52'	31	
	0 38	7 24	11 31	6 86	16 44	60	
			5 2	2 0	27 05	103	
			8 2	-1 0	37 11	158	
			12 2	-5 0	50 43	265	
			16 0	-8 8	54 50	312	

Inshore
S. 314+65

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 235
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes Ed. Date 7-29-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F. B. 1509 Pg. 236 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSIN Date Date No.

Survey by ENGLISH Notes ED Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

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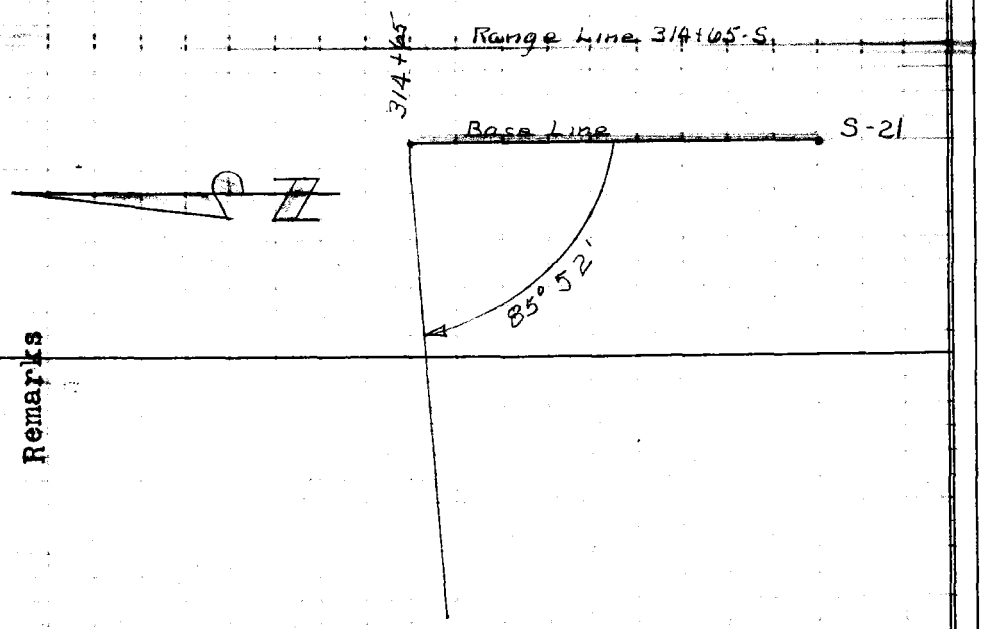
Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 237

Date ____ Date ____ Survey of BEACH EROSION STUDY

X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by E. VAN DEEN, J.H. Date 7-29-55

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



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OH	#	Color	Time	Hor. Ang.	
	1		6-19	85° 52'	
	2			85° 52'	
	3			85° 52'	
	4			85° 52'	
	5			85° 52'	
	6			85° 52'	
	7			85° 52'	
	8			85° 52'	
	9			85° 52'	
	10			85° 52'	
	11			85° 52'	
	12			85° 52'	
	13			85° 52'	
	14			85° 52'	
	15			85° 52'	
	16			85° 52'	
	17			85° 52'	
	18			85° 52'	
	19			85° 52'	
	20			85° 52'	

S-21

314+65

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21			85° 52'		
	22			85° 52'		
	23			85° 52'		
	24			85° 52'		
	25			85° 52'		
	26			85° 52'	Range Line 314+65 S	
	27			85° 52'		
314+65 S-21	28			85° 52'		
	29			85° 52'		
	30			85° 52'		
	31			85° 52'		
	32		6-27	85° 52'		

Profile
E. B. 1509 PG. 238
Job No. 0300.02 Division No. 10 Notes Red. Plotted
Survey of BEACH BRIDGE STUDY Date 7-29-55 Date No.
Survey by Notes HENDERSON Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

76L298 307 4-80

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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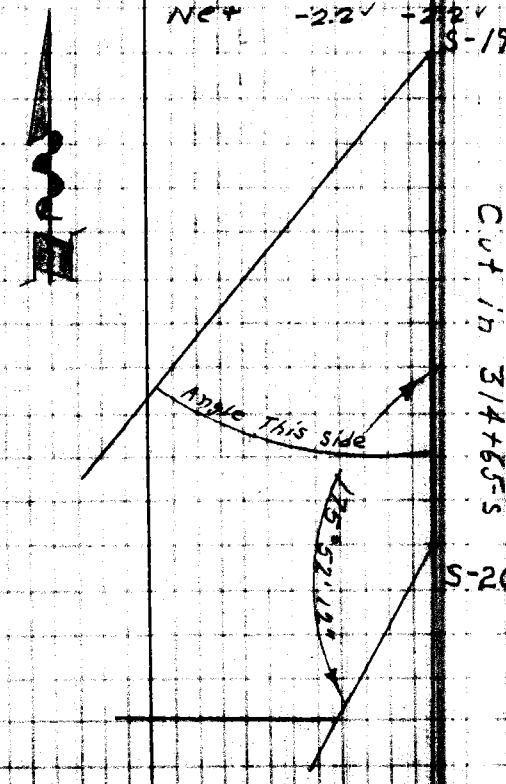
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At	On	#	Color	Time	Hor. Ang.		Remarks
		1	211.8 35.3 209.6	6:19	65° 13'	1920	✓
		2	204.0 34.0 201.8		64° 36'	1860	✓
		3	187.2 31.2 185.0		63° 40'	1789	✓
		4	177.6 29.6 175.4		62° 38'	1709	✓
		5	165.6 27.6 163.4		61° 12'	1606	✓
		6	159.0 26.5 156.8		60° 04'	1532	✓
		7	153.0 25.5 150.8		58° 39'	1450	✓
S-19	S-20	8	150.0 25.0 147.8		57° 21'	1376	✓
		9	145.2 24.2 143.0		56° 24'	1327	✓
		10	139.2 23.2 137.0		54° 59'	1257	✓
		11	126.0 21.0 123.8		53° 28'	1189	✓
		12	118.2 19.7 116.0		52° 08'	1127	✓
		13	108.0 18.0 105.8		50° 15'	1055	✓
		14	98.4 16.4 96.2		48° 13'	981	✓
		15	84.0 14.0 81.8		46° 00'	905	✓
		16	72.0 12.0 69.8		43° 51'	839	✓
		17	61.2 10.2 59.0		41° 58'	785	✓
		18	57.6 9.6 55.4		39° 55'	727	✓
		19	52.2 8.7 50.0		38° 06'	681	✓
		20	48.6 8.1 46.4 / 52.0 ✓ 49.8		35° 29'	618	✓

	Fathoms	Feet
Boat	+1.0	+1.0
Zero Adj	0.0 ✓	0.0 ✓
Tide	-3.2 ✓	-3.2 ✓
Net	-2.2 ✓	-2.2 ✓



Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. 10 F.B. 1509 Pg. 139
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
N-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes P.T. Date 7-08
No. ____ Date ____ Date ____ Map No. ____ Date ____

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		S. S.	H. I.		F. S.	ELEV.			
Inst. At	Sight On	#	Color		Time	Hor. Ang.			Remarks
		21	33.5	31.3		33° 00'	560	✓	Cut in 314+65-S
		22	26.9	24.7		31° 33'	527	✓	
		23	23.5	21.3		30° 16'	502	✓	
		24	21.0	18.8		28° 49'	473	✓	
		25	18.8	16.6		27° 45'	451	✓	
		26	16.7	14.5		26° 34'	429	✓	
		27	14.8	12.6		25° 03'	399	✓	
		28	13.5	11.3		23° 45'	375	✓	
S-19	S-20	29	12.2	10.0		21° 57'	340	✓	
		30	10.6	8.4		20° 30'	315	✓	
		31	9.2	7.0		18° 52'	287	✓	
		32	8.1	5.9	6:27	17° 12'	258	✓	

F. B. 1509 Pg. 240 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 7-29-55 Date No.
Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date No.

76L298 307 8-53

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S-20 312+01.57

Do not extend notes this side of this line. CUT IN ∡

STATION	B. S.	H. I.	F. S.	ELEV.	INST. AT 314+65	SIGHT ON 312+65
314+65	4 56	21 80		17 24		
312+65	0 35	17 49	4 66	17 14		
14' R			1 1	16 4		T.B. (Wood Wall)
15' R			4 6	12 9		B.B.
			7 7	9 8	10° 35' 38	
	2 20	8 05	11 64	5 85	17 54 62	
			7 2	0 8	29 52 111	
			10 8	-2 8	48 45 210	
			16 0	-8 0	57 48 283	
312+65	4 66	21 80		17 14		
S-20			4 39	17 41	S-20, el=17.400, F.B. 2100-158	

Inshore S. 312+65

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 241
No. ____ Date ____ Date ____ Survey of BEACH EROSION
X-Sec. Notes Chkd. ____ Checked ____ Survey by ENGLISH Notes E.D. Date 7-29-55
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1509 Pg. 142 Job No. 030002 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L298 307 8-53

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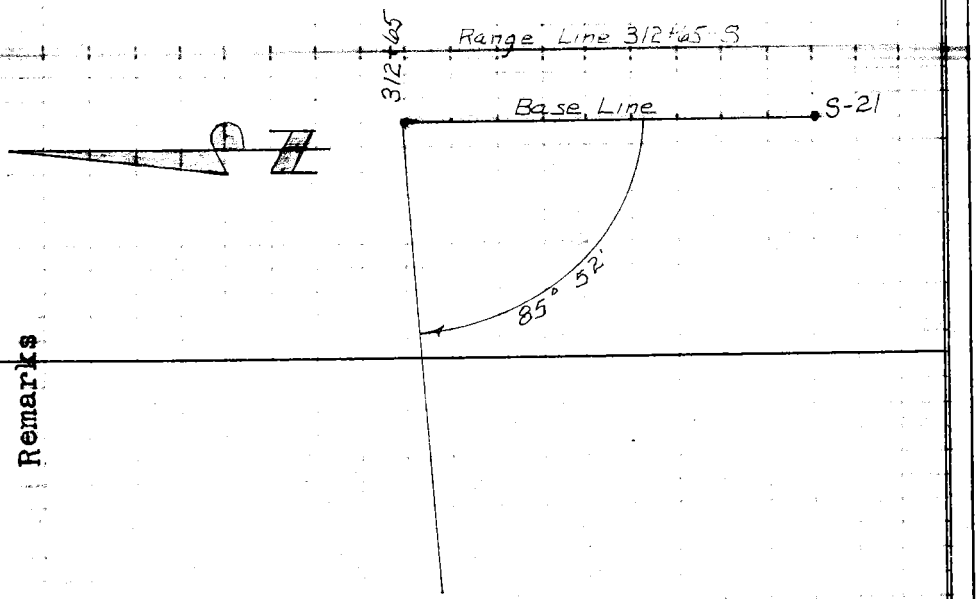
F. B. 1509 Pg. 243

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 030002 Division No. 10
Date ____ Date ____ Survey of Beach Erosion
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by Van Deren Notes J.H. Date 7-29-55
Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At	#	Color	Time	Hor. Ang.	
	1			85° 52'	
	2			85° 52'	
	3			85° 52'	
	4			85° 52'	
	5			85° 52'	
	6			85° 52'	
	7			85° 52'	
	8			85° 52'	
	9			85° 52'	
	10			85° 52'	
	11			85° 52'	
	12			85° 52'	
	13			85° 52'	
	14			85° 52'	
	15			85° 52'	
	16			85° 52'	
	17			85° 52'	
	18			85° 52'	
	19			85° 52'	
	20			85° 52'	

S-21

312+65

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

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761.298 307 8-53

76L298 307 8-53

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E.B. 1509 Pg. 144 Job No. 830002 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Date 7-29-55 Date No. X-Sec.
Survey by Van Deren Notes HENDERSON Notes Chkd. Checked
Indexed L. C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks	
	21			85° 52'		
	22			85° 52		
	23			85° 52'		
	24			85° 52		
	25			85° 52	Range Line 312+65-S	
	26			85° 52'		
	27			85° 52'		
	28			85° 52		
312+65 S-21	29		6-44	85° 52		

761.298 307 4-50

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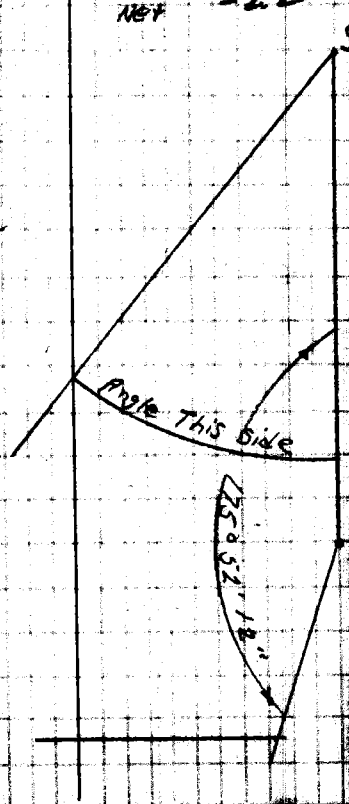
Profile Notes Red. Plotted Job No. 2300.02 Division No. 10 F.B. 7/309 Pg. 3

No. Date Date Survey of Beach Erosion Study

No. Date Map No. Date

STATION		B. S.	H. I.	F. S.	ELEV.			Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.			
		1	213.6 35.6? 211.4	6:36	71° 16'	2050		
		2	207.0 34.5? 204.8		70° 27'	1951		
		3	195.0 32.5 192.8		68° 53'	1791		
		4	180.0 30.0 177.8		66° 44'	1610		
		5	165.0 27.5 162.8		65° 34'	1520		
		6	162.0 27.0 159.8		64° 31'	1450		
		7	150.0 25.0 147.8		63° 17'	1370		
		8	136.2 22.7 134.0		60° 57'	1240		
		9	126.0 21.0 123.8		59° 12'	1160		
		10	114.0 19.0 111.8		57° 46'	1093		
		11	105.0 17.5 102.8		55° 05'	989		
		12	96.0 16.0 93.8		52° 56'	911		
		13	87.0 14.5 84.8		51° 15'	857		
		14	75.0 12.5 72.8		49° 52'	813		
		15	66.0 11.0 63.8		46° 45'	728		
		16	54.0 9.0 51.8		44° 26'	671		
		17	41.5 39.3		40° 29'	583		
		18	33.1 30.9		39° 10'	558		
		19	29.3 27.1		37° 55'	530		
		20	[illegible] 23.1		36° 26'	504		

	Fathom	Feet
Boat +	+1.0	+1.0
Zero Adj	0.0	0.0
Tide	-3.2	-3.2
Net	-2.2	-2.2



76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION Inst. At	STATION Sight On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks
		21	22.0	19.8		34° 45'	473	Cut in 312+65-S
		22	19.3	17.1		32° 55'	442	
		23	17.1	14.9		30° 46'	407	
		24	15.6	13.4		29° 00'	380	
		25	13.7	11.5		26° 58'	345	
		26	11.9	9.7		24° 55'	315	
		27	10.6	8.4		23° 01'	289	
S-19	S-20	28	9.4	7.2		21° 06'	261	
		29	8.0	5.8	6:44	19° 34	241	

F. B. 1509 Pg. 246 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 7-29-55 Date No.
Survey by Van Deren Notes P.T. Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

Profile	Notes Red.	Plotted	Job No. 030002	Division No. 10	F. B. 1509	Pg. 247
No.	Date	Date	Survey of BEACH EROSION			
X-Sec.	Notes Chkd.	Checked	Survey by ENGLISH	Notes ED	Date 7-29-55	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	

Inshore

S. 310+65

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT 308+65	SIGHT ON 310+65
S-20	4 92	22 32		17 40		
310+65	1 71	19 72	4 31	18 01		
13' R			1 1	18 6		T.B.
			6 9	12 8	7° 57'	28
			10 6	9 1	13 32	48
			14 50	5 22	20 01	73
	2 80	1 02	7 1	0 9	28 24	108
			10 2	-2 2	38 19	158
			13 0	-5 0	47 19	217
			17 0	-9 0	53 55	274

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76L298 307 8-53

F. B. 1509 PG. 248 Job No. 030002 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION Date Date No.

Survey by ENGLISH Notes ED Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

Do not extend notes this side of this line.

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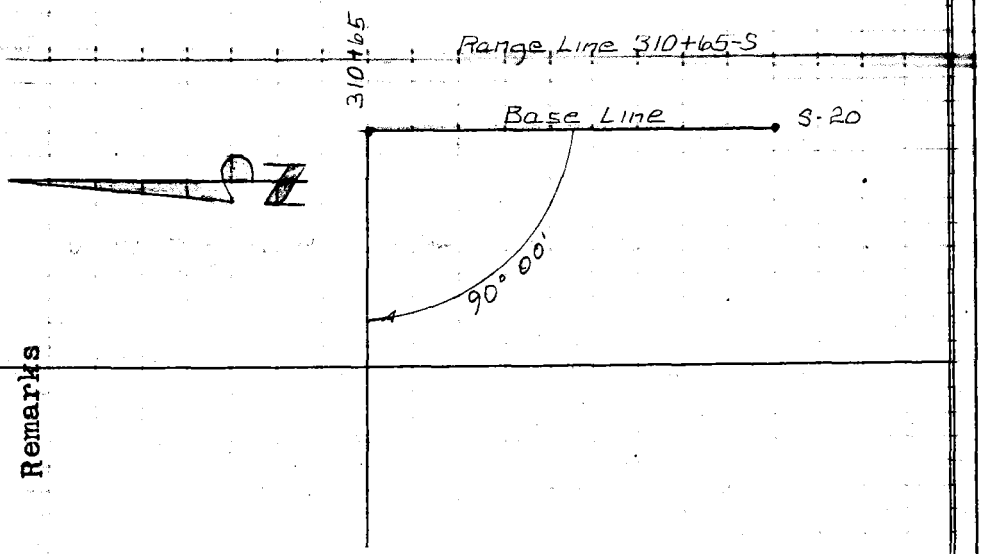
76L298 307 8-53

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 1509	Pg. 249
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J. H.	Date 7-29-55	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		6-54	90° 00'	
	2			90° 00'	
	3			90° 00'	
	4			90° 00'	
	5			90° 00'	
	6			90° 00'	
	7			90° 00'	
	8			90° 00'	
	9			90° 00'	
	10			90° 00'	
	11			90° 00'	
	12			90° 00'	
	13			90° 00'	
	14			90° 00'	
	15			90° 00'	
	16			90° 00'	
	17			90° 00'	
	18			90° 00'	
	19			90° 00'	
	20			90° 00'	

S-20

310+65

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

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76L298 307 8-53

F. B. 1509 Pg. 250 | Job No. 830002 | Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion | Date 7-29-55 | Date | No.

Survey by Van Deren | Notes Henderson | Notes Chkd. | Checked | X-Sec.

Indexed L. C. Johnson | Date | Date | Date | No.

761.298 307 8-53

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Hor. Ang.	Remarks
Inst. Sight At	#	Color	Time			
310+65					90° 00'	
5-20	31				90° 00'	
	32				90° 00'	
	33				90° 00'	
	34				90° 00'	Range Line 310+65-5.
	35				90° 00'	
	36				90° 00'	
	37				90° 00'	
	38				90° 00'	
	39				90° 00'	
	40				90° 00'	
	41				90° 00'	
	42		7-04		90° 00'	

76L298 307 4-50

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Profile Notes Red. ____ Plotted ____ Job No. 0100.02 Division No. 10 F.B. 1809 Pg. 47
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
Notes Chkd. ____ Checked ____ Survey by Area Mar. 25, 26
No. ____ Date ____ Date ____ Map No. ____ Engineer Johnson Date ____

STATION	B. S.	H. I.	F. S.	ELEV.			Fathoms	Feet
Inst. Sight At / On	#	Color	Time	Hor. Ang.		Remarks	Boat +1.0	3.10
							Zero Adj 0.0 ✓	0.0 ✓
							Tide −3.3 ✓	−3.3 ✓
							Net −2.3 ✓	−2.3 ✓
	1	219.0 36.5 216.7	6:54	77° 13'	2170 ✓			S-19
	2	214.8 35.8 212.5		76° 50'	2105 ✓			
	3	212.4 35.4 210.1		76° 25'	2038 ✓			
	4	209.4 34.9 207.1		76° 01'	1977 ✓			
	5	204.0 34.0 201.7		75° 33'	1911 ✓			
	6	203.4 33.9 201.1		75° 15'	1870 ✓			
S-19 S-20	7	198.0 33.0 195.7		74° 42'	[illegible]			
	8	186.0 31.0 183.7		73° 50'	1698 ✓			
	9	180.0 30.0 177.7 void		73° 12'	1631 ✓			
	10	171.0 28.5 168.7 void		72° 30'	1561 ✓			
	11	165.0 27.5 162.7 void		71° 52'	1503 ✓			
	12	159.0 26.5 156.7		70° 48'	1414 ✓			
	13	144.0 24.0 141.7		69° 32'	1319 ✓			
	14	141.0 23.5 138.7		68° 37'	1257 ✓			
	15	129.0 21.5 126.7		67° 28'	1187 ✓			
	16	121.2 20.2 118.9		66° 23'	1126 ✓			S-20
	17	117.0 19.5 114.7		65° 19'	1071 ✓			
	18	113.4 18.9 111.1		64° 23'	1027 ✓			
	19	108.0 18.0 105.7		63° 25'	984 ✓			
	20	97.2 16.2 94.9		62° 12'	934 ✓			

Cut in 310+65-S

Angle This Side

76L298 307 4-50

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Pg. 252 Job No. 6Wbs82 Division No. 12 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 7-29-58 Date No. X-Sec.
Survey by Van Dorsen Notes P.T. Notes Chkd. Checked
Indexed R. C. Johnson Date Date No.

STATION		B. S.	H. I.			F. S.	ELEV.			
Inst. Sight At	On	#	Color			Time	Hor. Ang.		Remarks	
		21	90.0	15.0	87.7		60° 53'	884	Cut in	310+65-S
		22	85.2	14.2	82.9		59° 48'	846		
		23	78.0	13.0	75.7		58° 35'	806		
		24	72.0	12.0	69.7		57° 00'	758		
		25	63.6	10.6	61.3		55° 04'	705		
		26	59.4	9.9	57.1		53° 29'	665		
		27	54.6	9.1	52.3		51° 23'	616		
		28	50.0		47.7		49° 32'	577		
		29	39.2		36.9		48° 03'	548		
S-19	S-20	30	30.9		28.6		46° 52'	526		
		31	25.8		23.5		45° 36'	503		
		32	22.7		20.4		44° 10'	478		
		33	20.3		18.0		42° 37'	453		
		34	17.7		15.4		40° 40'	423		
		35	16.3		14.0		38° 43'	395		
		36	14.8		12.5		36° 36'	366		
		37	13.5		11.2		34° 40'	340		
		38	12.1		9.8		32° 12'	310		
		39	10.3		8.0		29° 42'	281		
		40	8.5		6.2		27° 11'	253		
		41	7.2		4.9		24° 05'	220		
		42	void			7:04	21° 37'	195		

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 1509	Pg. 253
No.	Date	Date	Survey of BEACH, EROSION			
X-Sec.	Notes Chkd.	Checked	Survey by ENGLISH	Notes EP	Date 7-29-55	
No.	Date	Date	Map No.	Indexed X. C. Johnson	Date	

Inshore

S. 308+65

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT 306+65	SIGHT ON 308+65
310+65	5.11	23.12		18.01		
308+65	0.29	19.18	4.23	18.89		
14' R			0.0	19.2		T.B.
29' R			6.9	12.3		
58' R			10.0	9.2		
	2.47	7.25	14.90	4.28	26°42'	101
			7.0	0.2	37.05	151
			10.0	-2.8	47.03	215
			13.9	-6.7	55.04	286

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76L298 307 8-53

F. B. 1509 PG. 254 Job No. 1300.93 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

761298 307 8-53

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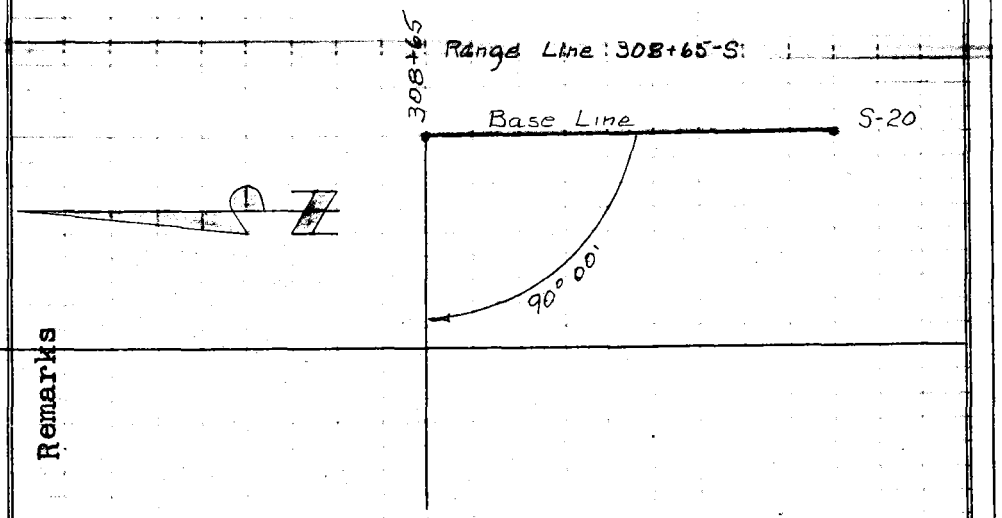
Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 1509	Pg. 255
No.	Date	Date	Survey of			
X-Sec.	Notes Chkd.	Checked	Survey By VanDeren	Notes J. J. E	Date 7-29-55	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	



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

S-20

308-65

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

76L298 307 8-53

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.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21			90°00'		
		22			90°00'		
		23			90°00'	Range Line 308+65-S	
		24			90°00'		
		25			90°00'		
		26			90°00'		
308+65-S		27			90°00'		
		28			90°00'		
	S-20	29			90°00'		
		30			90°00'		
		31			90°00'		
		32			90°00'		
		33			90°00'		
		34			90°00'		
		35			90°00'		
		36			90°00'		
		37			90°00'		
		38			90°00'		
		39		7-27	90°00		

F. B. 1509 PG. 256 Job No. 0300.002 Division No. 10 Notes Red. Plotted Profile
Survey of [illegible] STUDY Date 7-29-57 Date No.
Survey by Van Deren Notes J.J.E. Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

76L298 307 4-50

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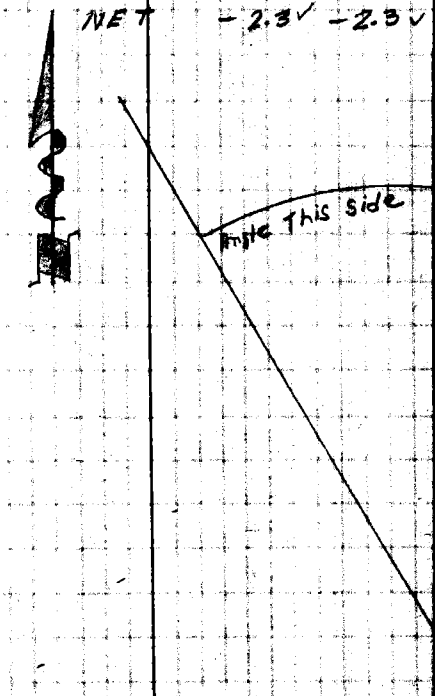
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.			Fathoms	Feet
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Boat	+1.0	+1.0
							Remarks		
		1	198.6 33.1 196.3	7:19	79° 58'	1902 ✓	Zero Adj	0.0 ✓	0.0 ✓
		2	197.4 32.9 195.1		79° 46'	1864 ✓	TIDE	-3.3 ✓	-3.3 ✓
		3	192.6 32.1 190.3		79° 36'	1834 ✓	NET	-2.3 ✓	-2.3 ✓
		4	189.0 31.5 186.7		79° 23'	1796 ✓			
		5	183.0 30.5 180.7		79° 03'	1740 ✓			
		6	178.8 29.8 176.5		78° 48'	1700 ✓			
		7	174.6 29.1 172.3		78° 33'	1662 ✓			
		8	168.0 28.0 165.7		78° 08'	1602 ✓			
		9	165.0 27.5 162.7		77° 39'	1537 ✓			
		10	160.2 26.7 157.9		77° 15'	1487 ✓			
		11	156.6 26.1 154.3		76° 54'	1446 ✓			
		12	151.8 25.3 149.5		76° 29'	1400 ✓			
		13	146.4 24.4 144.1		75° 56'	1343 ✓			
		14	143.4 23.9 141.1		75° 31'	1303 ✓			
		15	139.8 23.3 137.5		74° 50'	1242 ✓			
		16	126.0 21.0 123.7		73° 35'	1142 ✓			
		17	115.2 19.2 112.9		72° 48'	1087 ✓			
		18	105.0 17.5 102.7		71° 44'	1020 ✓			
		19	96.0 16.0 93.7		71° 00'	977 ✓			
		20	87.0 14.5 84.7		69° 55'	921 ✓			



S-19

S-20

Cut in 308+65-S

S-20

S-19

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. 10 F.B. 1969 Pg. 157
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Vab Oeven Nunn R.T. Date 7-29-55
No. ____ Date ____ Date ____ Map No. ____ Date ____

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

Profile ____ Plotted ____ Notes Red ____ Job No. 8108.03 Division No. 10 Notes Chkd. ____ Date ____ Checked ____ Date ____ Date ____ Date ____ Date ____ No. ____ X-Sec. ____ No. ____

Pg. 157 Survey of Beach Erosion Study Date 7-29-55 Notes ____ Survey by Van Deren Notes ____ Indexed C. Johnson

STATION At	STATION On	S. S. #	H. I. Color	H. I.	H. I.	F. S. Time	ELEV. Hor. Ang.		Remarks
		21	75.0	12.5	72.7		68° 25'	851 ✓	Cut in 308+65-S
		22	66.0	11.0	63.7		66° 32'	775 ✓	
		23	57.0	9.5	54.7		64° 23'	702 ✓	
		24	51.6	8.6	49.3		62° 32'	647 ✓	
		25	50.0 ✓		47.7		61° 53'	630 ✓	
		26	43.0 ✓		40.7		60° 48'	602 ✓	
		27	36.2 ✓		33.9		59° 26'	570 ✓	
S-20	S-19	28	30.6		28.3		57° 57'	538 ✓	
		29	25.5 ✓		23.2		56° 15'	504 ✓	
		30	22.1 ✓		19.8		55° 01'	481 ✓	
		31	19.4 ✓		17.1		53° 00'	447 ✓	
		32	16.8 ✓		14.5		51° 00'	416 ✓	
		33	15.2 ✓		12.9		49° 12'	390 ✓	
		34	13.3 ✓		11.0		46° 53'	359 ✓	
		35	11.7 ✓		9.4		43° 48'	323 ✓	
		36	10.3 ✓		8.0		41° 22'	296 ✓	
		37	8.0 ✓		5.7		48° 05'	375 ✓? 264 ✓? 8805	
		38	6.3 ✓		4.0		34° 32'	232 ✓	
		39	5.0 ✓		2.7	7:27	31° 02'	203 ✓	

76L298 307 8-53

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line. CUT IN ∡ 5-19 305+72.[illegible]

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT 308+65	SIGHT ON 306+[illegible]
308+65	5 78	24 67		18 89		
306+65	1 62	22 42	3 87	20 80		
14' R			1 6	20 8		T.B.
48' R			11 6	10 8		
90' R			13 3	9 1		
	1 19	8 71	14 90	7 52	24° 29' 91'	
			8 3	0 4	35 10 141	
			11 4	-2 7	46 [illegible] 211	
			16 0	[illegible]	55 14 288	
306+65	1.6.2	22 42		20 80		
S-19			0 86	21 56	S-19, el=21.565,	F.B. 2100-158

Inshore
S 306+65

Profile Notes Red. ____ Plotted ____ Job No. 30002 Division No. 10 F. B. 1509 Pg. 259
No. ____ Date ____ Date ____ Survey of BEACH EROSION
X-Sec. Notes Chkd. ____ Checked ____ Survey by ENGLISH Notes ED Date 7-29-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F. B. 1509 Pg. 260 Job No. 03000 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION Date Date No.

Survey by ENGLISH Notes ED Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

761298 307 8-53

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LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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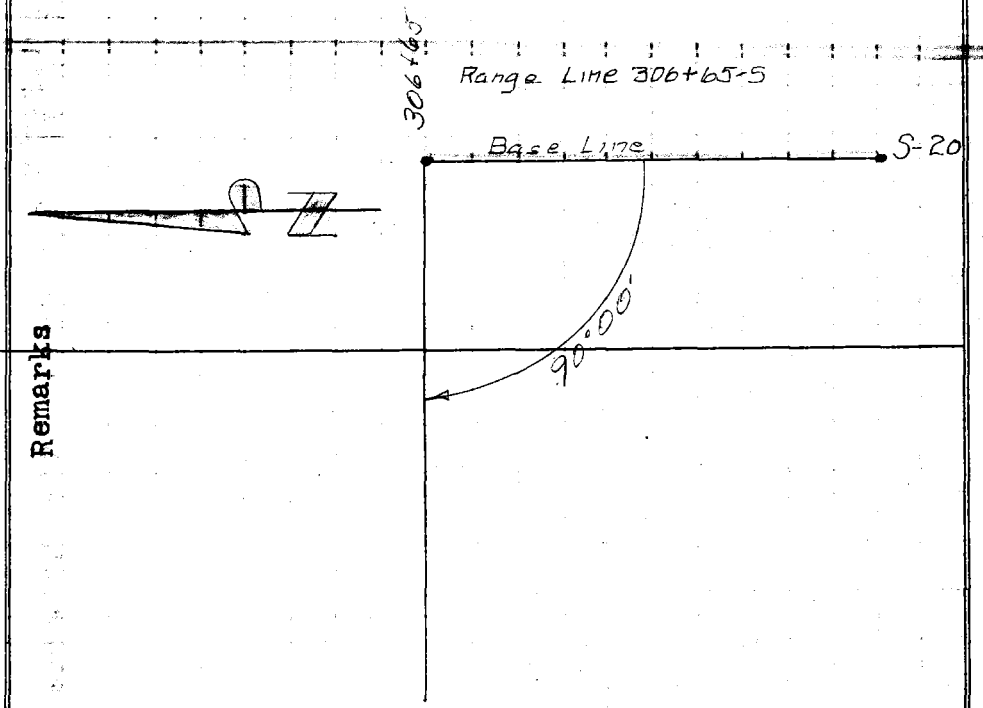
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Profile	Notes Red.	Plotted	Job No. 8300.02	Division No. 10	F. B. 1509	Pg. 261
No.	Date	Date	Survey of Beach Erosion Study			
X-Sec.	Notes Chkd.	Checked	Survey by Van Doren	Notes J.J.E.	Date 7-29-53	
No.	Date	Date	Map No.	Indexed X C Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OH	#	Color	Time	Hor. Ang.	
	1			90°00'	
	2			90°00'	
	3			90°00'	
	4			90°00'	
	5			90°00'	
	6			90°00'	
	7			90°00'	
	8			90°00'	
	9			90°00'	
	10			90°00'	
	11			90°00'	
	12			90°00'	
	13			90°00'	
	14			90°00'	
	15			90°00'	
	16			90°00'	
	17			90°00'	
	18			90°00'	
	19			90°00'	
	20			90°00'	

S-20

306+65

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

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76L298 307 8-53

76L298 307 8-53

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21			90° 00'		
		22			90° 00'	Range 306+65-S	
		23			90° 00'		
		24			90° 00'		
		25			90° 00'		
		26			90° 00'		
		27			90° 00'		
306+65	S-20	28			90° 00'		
		29			90° 00'		
		30			90° 00'		
		31			90° 00'		
		32			90° 00'		
		33			90° 00'		
		34			90° 00'		
		35			90° 00'		
		36			90° 00'		
		37			90° 00'		
		38			90° 00'		
		39			90° 00'		
		40			90° 00'		
		41			90° 00'		
		42			90° 00'		
		43			90° 00'		
		44			90° 00'		

F. B. 1509 Pg. 262
Job No. 0300.026 Division No. 10 Notes Red Plotted
Survey of BEACH EROSION STUDY Date 7-29-53 Date No.
Survey by Van Deren Notes J.J.E. Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.
Profile

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.			Fathom	Feet
Inst. Sight At	On	#	Color	Time	Hor. Ang.		Remarks	Boat +1.0	+1.0
		1	216 36 213.7 void	7:45	77° 35'	2437	✓	Zero Adj 0.0	-.1
		2	211.2 35.2 208.9		77° 03'	2333	✓	Tide -3.3	-3.3
		3	207.0 34.5 204.7		76° 30'	2235	✓	Net -2.3	-2.4
		4	205.8 34.3 203.5		76° 13'	2187	✓		
		5	201.0 33.5 198.9		75° 52'	2131	✓		
		6	196.2 32.7 193.9		75° 41'	2103	✓		
		7	191.4 31.9 189.1		75° 20'	2050	✓		
		8	187.8 31.3 185.5		75° 02'	2007	✓		
S-20	S-19	9	183.0 30.5 180.7		74° 30'	1935	✓		
		10	180.0 30.0 177.7		73° 47'	1845	✓		
		11	183.0 30.5 180.7		73° 25'	1802	✓		
		12	180.0 30.0 177.7		72° 45'	1728	✓		
		13	165.6 27.6 163.3		72° 09'	1666	✓		
		14	162.0 27.0 159.7		71° 32'	1607	✓		
		15	159.6 26.6 157.3		70° 46'	1538	✓		
		16	160.8 26.8 158.5		70° 23'	1506	✓		
		17	157.2 26.2 154.9		69° 41'	1449	✓		
		18	148.8 24.8 146.5		68° 47'	1382	✓		
		19	141.0 23.5 138.7		67° 41'	[illegible]	✓		
		20	132.0 22.0 129.7		66° 42'	1246	✓		

Angle This side

Cut in 306+65-S

S-20

Profile Notes Red. ____ Plotted ____ Job No. [illegible] Division No. 10 F.B. 1509 Pg. [illegible]
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Veh. [illegible] Notes Rot. [illegible]
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. Color			F. S. Time	ELEV. Hor. Ang.		Remarks
		21	127.8	21.3	125.5		65°	55'	1200 ✓ Cut in 306+65-S
		22	121.2	20.2	118.9		65°	00'	1151 ✓
		23	111.6	18.6	109.3		63°	36'	1081 ✓
		24	105.0	17.5	102.7		62°	22'	1025 ✓
		25	87.0	14.5	84.7		61°	11'	975 ✓
		26	75.0	12.5	72.7		59°	16'	903 ✓
		27	61.2	10.2	58.9		57°	16'	835 ✓
		28	52.8	8.8	50.5		55°	10'	771 ✓
S-20	S-19	29	49.5		47.1		54°	00'	739 ✓
		30	44.5		42.1		52°	44'	705 ✓
		31	38.2		35.8		51°	14'	668 ✓
		32	32.1		29.7		49°	37'	631 ✓
		33	29.2		26.8		48°	21'	603 ✓
		34	25.7		23.3		46°	55'	574 ✓
		35	24.0		21.6		45°	16'	542 ✓
		36	21.5		19.1		43°	15'	505 ✓
		37	19.6		17.2		41°	31'	475 ✓
		38	17.9		15.5		40°	00'	450 ✓
		39	16.5		14.1		37°	36'	413 ✓
		40	15.2		12.8		35°	44'	386 ✓
		41	13.5		11.1		33°	15'	352 ✓
		42	11.4		9.0		30°	08'	311 ✓
		43	9.3		6.9		27°	30'	279 ✓
		44	7.5		5.1	7:55	24°	47'	248 ✓

F. B. 1509 Pg. 264 Job No. [illegible] Division No. 10 Notes Red Plotted Profile
Survey of Beach Erosion Study Date 7-29-55 Date No.
Survey by Van Deren Notes M.T. 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.

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

Do not extend notes this side of this line. CUT IN ∡

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT S-19	SIGHT ON 302+12
S-19	3 84	25 40		21 56		
302+02	1.64	13 79	13 25	12 15	L&T	
74' L		[illegible]	2 0	11 8		
37' L			3 5	10 3		
302+12			5 7	8 1		
47' R	4 00	5 [illegible]	12 00	1 79		
		[illegible]	7 4	-1 6	13° 31' 98'	
			9 4	-[illegible] 6	20 16 155	
			12 6	-6 8	25 27 207	
			16 5	-10 7	30 48 270	

Inshore
S. 302+12
S. side
Groin #1

Profile Notes Red. Plotted Job No. 03000-2 Division No. 10 F. B. 1509 Pg. 265
No. Date Date Survey of BEACH EROSION
X-Sec. Notes Chkd. Checked Survey by ENGLISH Notes ED Date 7-29-55
No. Date Date Map No. Indexed Johnson Date

F. B. 1509 Pg. 166 Job No. 230003 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION Date Date No.

Survey by ENGLISH Notes ED Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

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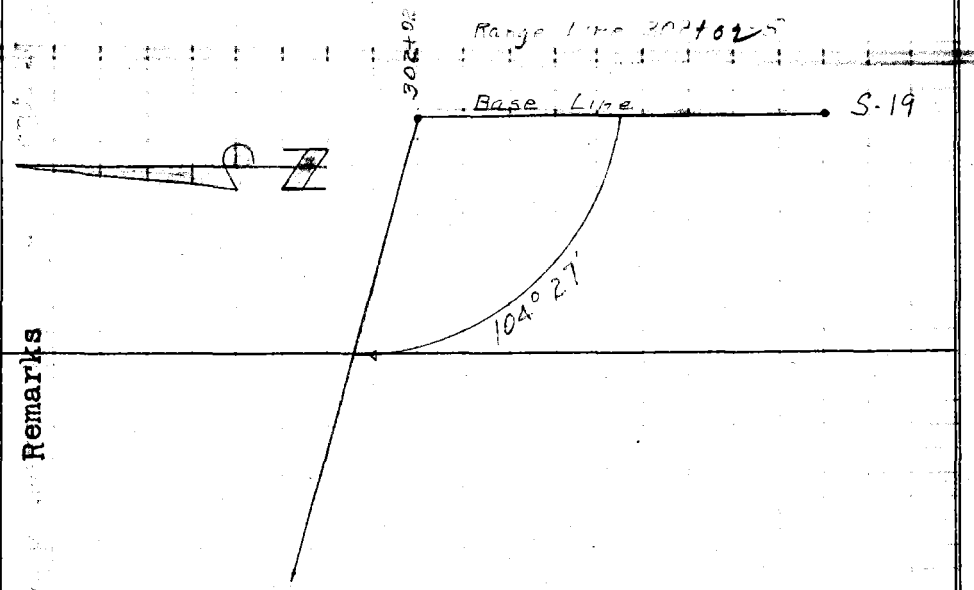
Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 1509	Pg. 267
No.	Date	Date	Survey of Beach Erosion Study			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes	Date 7-29-55	
No.	Date	Date	Map No.	Indexed Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At	#	Color	Time	Hor. Ang.	
	1		8.10	104° 27'	
	2			104° 27'	
	3			104° 27'	
	4			104° 27'	
	5			104° 27'	
	6			104° 27'	
	7			104° 27'	
	8			104° 27'	
	9			104° 27'	
	10			104° 27'	
	11			104° 27'	
	12			104° 27'	
	13			104° 27'	
	14			104° 27'	
	15			104° 27'	
	16			104° 27'	
	17			104° 27'	
	18			104° 27'	
	19			104° 27'	
	20			104° 27'	

S-19

302+02-S

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76L298 307 8-53

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
	S	21			104° 27'	Range line	
		22			104° 27'	302+02 – S	
		23			104° 27'		
		24			104° 27'		
		25			104° 27'		
302+02	S-19	26			104° 27'		
		27			104° 27'		
		28			104° 27'		
		29			104° 27'		
		30			104° 27'		
		31			104° 27'		
		33			104° 27'		
		34			104° 27'		
		35			104° 27'		
		36			104° 27'		
		37			104° 27'		
		38			104° 27'		
		39			104° 27'		
		40			104° 27°		

F. B. 1509 Pg. 268 Job No. 8300.02 Division No. 10 Notes Red. Plotted Profile
Survey of BEACH EXCISION STUDY Date 7-29-57 Date No.
Survey by Van Deren Notes Notes Chkd. Checked X-Sec.
Indexed K. C. Johnson Date Date Date No.

Profile	Notes Red.	Plotted	Job No. 030002	Division No. 10	F. B. 1509	Pg. 269
No.	Date	Date	Survey of Beach Erosion Study			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes JOE	Date 7-29-55	
No.	Date	Date	Map No. ~~X~~	Indexed ~~C. Johnson~~	Date	

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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OR	#	Color	Time	Hor. Ang.	
	41			104° 27'	Range line
	42			104° 27'	302+02 - S
	43			104° 27'	
	44			104° 27'	
	45			104° 27'	
	46			104° 27'	
	47			104° 27'	
	48			104° 27'	
	49			104° 27'	
	50		8.22	104° 27'	

S-19

302+02 -S

76L298 307 8-53

F. B. 1509 Pg. 270 | Job No. 8300.02 Division No. 10 | Notes Red. | Plotted | Profile

Survey of BEACH EROSION STUDY | Date 7-29-55 | Date | No.

Survey by F. VanDeren | Notes JJE | 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.	

761.298 307 8-53

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 207 4-50

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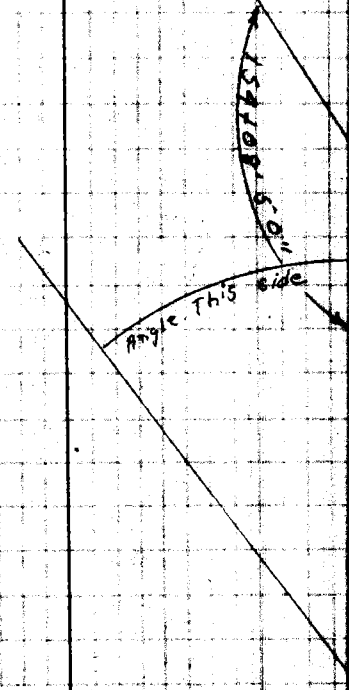
Profile No. ____ Date ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 4Fcm-18 Division No. 18 Survey of Beach Erosion Study
Map Cited ____ Date ____ Checked ____ Date ____ Survey by ____ Date ____

STATION		B. S.	H. I.	F. S.	ELEV.				
Inst. Sight At	On	#	Color	Time	Hor. Ang.				Remarks
		1	VOID	8:10	80° 33'	2600	✓		
		2	VOID		79° 48'	2500	✓		
		3	225.0 32.5 221.6		78° 47'	2375	✓		
		4	213.0 35.5 209.6		77° 53'	2275	✓		
		5	213.0 35.5 209.6		77° 14'	2210	✓		
		6	213.0 35.5 209.6		76° 43'	2160	✓		
		7	207.0 34.5 203.6		76° 04'	2092	✓		
		8	204.0 34.0 200.6		75° 33'	2050	✓		
		9	198.0 33.0 194.6		74° 50'	1987	✓		
		10	190.8 31.8 187.4		74° 11'	1933	✓		
		11	187.2 31.2 183.8		73° 36'	1886	✓		
		12	184.2 30.7 180.8		72° 46'	1821	✓		
		13	180.0 30.0 176.6		72° 03'	1772	✓		
		14	177.0 29.5 173.6		71° 13'	1711	✓		
		15	VOID		70° 20'	1654	✓		
		16	168.0 28.0 164.6		69° 29'	1600	✓		
		17	159.0 26.5 155.6		68° 31'	1541	✓		
		18	153.0 25.5 149.6		67° 39'	1493	✓		
		19	[illegible].0 25.0 146.6		66° 51'	1450	✓		
		20	144.0 24.0 140.6		64° 54'	1351	✓		

	Feet	Feet
Boat		+10
Zero Adj		
Tide		
Net		-2.4



S-19 Cut In 302 F02-3

S-20

S-20 S-19

76L298 307 4-50

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Profile No. ____ X-Sec. No. ____

Job No. 8008 Division No. 10 Notes Bd. ____ Plotted ____
Survey of Beach Erosion Study Date 7-27-55 Date ____
Survey by Lab. Dept. Notes Chief ____ Checked ____
Indexed K. C. Job Date ____ Date ____ No. ____

STATION		B. S.	H. I.		F. S.	ELEV.			
Inst. Sight At	On	#	Color	Time		Hor. Ang.		Remarks	
		21	139.8	23.3 136.4		64° 52'	1350 ✓	Cut in	302+02-S
		22	137.4	22.9 134.0		63° 44'	1298 ✓		
		23	132.0	22.0 128.6		62° 38'	1247 ✓		
		24	126.0	21.0 122.6		61° 27'	1197 ✓		
		25	120.0	20.0 116.6		60° 05'	1141 ✓		
		26	114.0	19.0 110.6		58° 46'	1091 ✓		
		27	109.2	18.2 105.8		57° 22'	1041 ✓		
S-20	S-19	28	105.0	17.5 101.6		55° 57'	992 ✓		
		29	99.0	16.5 95.6		54° 16'	938 ✓		
		30	90.0	15.0 86.6		52° 40'	888 ✓		
		31	84.0	14.0 80.6		50° 52'	835 ✓		
		32	78.0	13.0 74.6		48° 46'	779 ✓		
		33	72.0	12.0 68.6		46° 38'	720 ✓		
		34	63.0	10.5 59.6		44° 42'	672 ✓		
		35	56.4	9.4 53.0		42° 55'	631 ✓		
		36	51.6 / 53.0	8.6 48.2 / 50.6		41° 08'	590 ✓		
		37	46.5 ✓	43.1		39° 29'	552 ✓		
		38	37.2 ✓	34.8		34° 20'	444 ✓		
		39	31.5 ✓	29.1		32° 56'	417 ✓		
		40	27.8 ✓	24.9		35° 07'	460 ✓		

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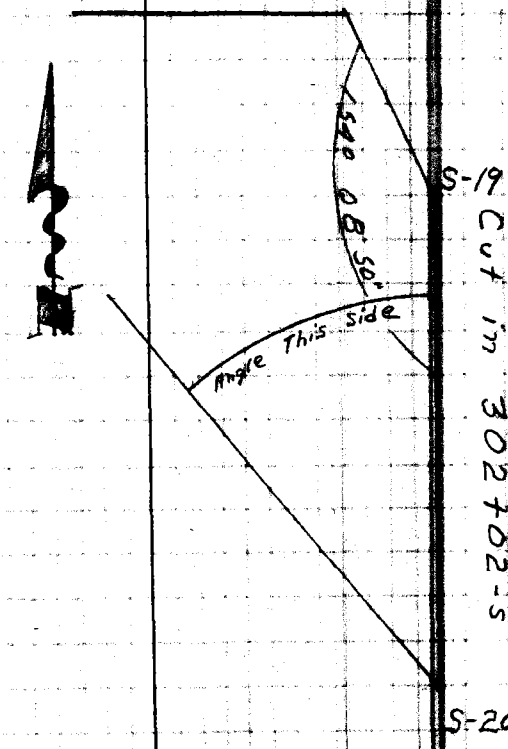
STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Color		Time	Hor. Ang.		Remarks
		41	23.6 ✓	21.2		33° 32'	428 ✓	
		42	21.0 ✓	18.6		31° 48'	395 ✓	
		43	19.1 ✓	16.7		30° 36'	371 ✓	
		44	17.2 ✓	14.8		28° 48'	337 ✓	
		45	15.4 ✓	13.0		27° 12'	309 ✓	
		46	14.0 ✓	11.6		25° 44'	281 ✓	
		47	12.9 ✓	10.5		24° 08'	252 ✓	
		48	11.3 ✓	8.9		22° 06'	214 ✓	
		49	9.2 ✓	6.8		20° 18'	185 ✓	
S-20	S-19	50	7.4 ✓	5.0	8:22	18° 50'	159 ✓	



Profile Notes Red Plotted Job No. 4 Division No. 10 F.B. 1509 Pg. 2[illegible]
No. Date Date Survey of Beach Erosion Study
No. Date Checked Survey by Dean Date 7-29-66
Date Map No. Date

F. B. 1509 Pg. 174 Job No. 030002 Division No. 10 Notes Red Plotted Profile

Survey of Beach Erosion Study Date 7-29-55 Date No.

Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

76L298 307 8-53

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S-18 301+70.95

Do not extend notes this side of this line. CUT IN ∡

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT S-19	SIGHT ON 301+92
S-19	3 84	25 40		21 56		
302+02	1 64	13 79	13 25	12 15	L.&T.	
79' L		13	1 6	12 2		
37' L			3 1	10 7		
301+92			5 7	8 1		
47' R	3 70	6 19	11 30	2 49		
63' R			7 5	-1 3		
			7 5	-1 3	13° 28' 99	

Inshore
S. 301+92
N. side
Groin #1

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 275
No. ____ Date ____ Date ____ Survey of BEACH EROSION
X-Sec. Notes Chkd. ____ Checked ____ Survey by ENGLISH Notes ED Date 7-29-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F. B. 1509 Pg. 276 | Job No. 0300.02 | Division No. 10 | Notes Red. | Plotted | Profile

Survey of BEACH EROSION | Date | Date | No.

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

Indexed | Date | Date | Date | No.

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

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76L298 307 8-53

76L298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.	INST AT	SIGHT ON
302+02				12 15	L.&T.	
S-17	6 14	26.05 ~~25.05~~		19 91	S-17, el.-19.906, F.B. 2100- 159	
300+65	0 0	21.0 ~~20.0~~	5 00	21 05 ~~20.05~~	S.&T.	
11' R			5 5	15.5 ~~14.5~~	Top rocks	
T.P.	2 7	15.1 ~~14.1~~	8 6	12.4 ~~11.4~~		
35' R			12.8	2.3 ~~1.3~~	Bot. rocks	

Inshore
S. 300+65

Profile Notes Red. ____ Plotted ____ Job No. 200.02 Division No. 10 F.B. 1509 Pg. 277
No. ____ Date ____ Date ____ Survey of BEACH EROSION
X-Sec. Notes Chkd. ____ Checked ____ Survey by ENGLISH Notes ED Date 7-29-55
No. ____ Date ____ Date ____ Map No. ____ Index Johnson Date ____

F. B. 1509 Pg. 278 Job No. 0300.0 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION Date Date No.

Survey by ENGLISH Notes ED Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

761298 307 8-53

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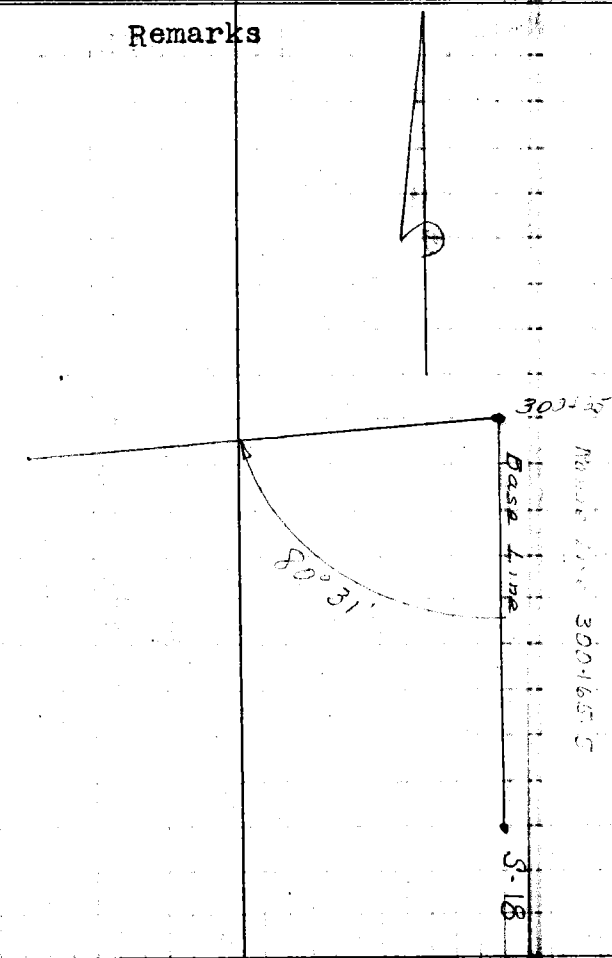
STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
S-300+65	S-18	1	void	8.39	80° 31'		
		2	void		80 31'		
		3	void		80 31'		
		4	void		80° 31'		
		5	void		80° 31'		
		6	32.5 ✓		80° 31'		
		7	31.5 ✓		80° 31'		
		8	31.0 ✓		80° 31'		
		9	30.0 ✓		80° 31'		
		10	void 27.5?		80° 31'		
		11	26.5 ✓		80° 31'		
		12	26.0 ✓		80° 31'		
		13	void 24.5?		80° 31'		
		14	24.0 ✓		80° 31'		
		15	22.5 ✓		80° 31'		
		16	21.0 ✓		80° 31'		
		17	20.0 ✓		80° 31'		
		18	19.0 ✓		80° 31'		
		19	17.5 ✓		80° 31'		
		20	16.5 ✓		80° 31'		



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 279
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes Tracy Date 7-29-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
		21	15.5 ✓		80° 31'	Range	
		22	14.0 ✓		80° 31'	300+65-S	
		23	12.7 ✓		80° 31'		
		24	11.7 ✓		80° 31'	S-1B	
		25	11.0 ✓		80° 31'		
		26	9.8 ✓		80° 31'		
		27	50.0 ✓		80° 31'		
		28	41.3 ✓		80° 31'		
300+65	S-1B	29	33.1 ✓		80° 31'		
		30	27.9 ✓		80° 31'		
		31	24.1 ✓		80° 31'		
		32	21.6 ✓		80° 31'		
		33	18.9 ✓		80° 31'		
		34	17.0 ✓		80° 31'		
		35	15.5 ✓		80° 31'		
		36	13.8 ✓		80° 31'		
		37	11.8 ✓	8.49	80° 31'		

F. Bk. 1509 Pg. 280 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date 7-29-55 Date No.
Survey by Van Deren Notes Toney Notes Chkd. Checked X-Sec.
Indexed A. C. Johnson Date Date Date No.

76L298 307 4-50

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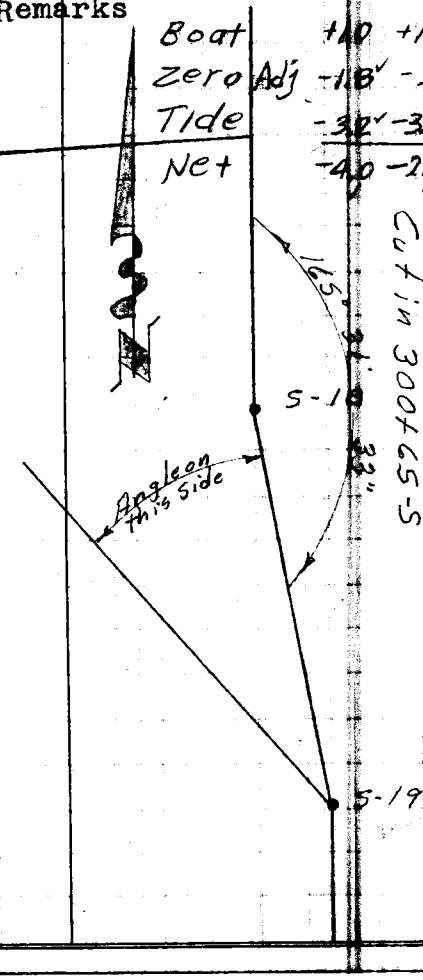
STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. Sight At / On	#	Color	Time	Hor. Ang.		
	1	void	8:19	74° 51'	2800	
	2	void		74° 04'	2600	
	3	void		73° 22'	2430	
	4	void		72° 22'	2222	
	5	void		71° 12'	2030	
	6	195.0 32.5 191.0		69° 50'	1830	
	7	189.0 31.5 185.0		69° 08'	1740	
	8	186.0 31.0 182.0		68° 30'	1670	
	9	180.0 30.0 176.0		67° 47'	1610	
	10	void		67° 16'	1550	
	11	159.0 26.5 155.0		66° 44'	1500	
	12	156.0 26.0 152.0		65° 57'	1440	
	13	147.0 24.5 143.0		65° 02'	1360	
	14	144.0 24.0 140.0		64° 14'	1305	
	15	135.0 22.5 131.0		63° 04'	1220	
	16	126.0 21.0 122.0		62° 07	1168	
	17	118.2 19.7 114.2		60° 31'	1080	
	18	111.0 18.5 107.0		59° 16'	1030	
	19	105.0 17.5 101.0		57° 54'	961	
	20	99.6 16.6 95.6		56° 30'	903	

S-19 S-18

	Fat	Feet
Boat	+1.0	+1.0
Zero Adj	-1.8	-.3
Tide	-3.2	-3.2
Net	-4.0	-2.5



Profile Notes Red. ____ Plotted ____ Job No. 0300-02 Division No. 10 F. B. 1509 Pg. 281
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 7-29-55
No. ____ Date ____ Date ____ Map No. ____ Entered Johnson Date ____

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STATION		B. S.	H. I.			F. S.	ELEV.		
inst. at	sight	#				Time	Horz ang		
	on	21	93.0	15.5	89.0		55° 08'	860	Cut in 300+65-S
		22	84.0	14.0	80.0		53° 48'	820	
		23	76.2	12.7	72.2		52° 20'	773	
		24	69.0	11.5	65.0		50° 37'	721	
		25	66.0	11.0	62.0		48° 59'	679	
		26	58.8	9.8	54.8		47° 11'	635	
		27	50.5	49.8			44° 58'	585	
		28	40.6		38.1		43° 23'	551	
	S-18	29	33.0		30.5		41° 21'	512	
S-19		30	27.9		25.4		38° 30'	469	
		31	24.2		21.7		37° 10'	440	
		32	21.5		19.0		34° 36'	400	
		33	19.0		16.5		32° 30'	370	
		34	17.1		14.6		29° 59'	335	
		35	15.4		12.9		27° 43'	308	
		36	13.8		11.3		24° 47'	272	
		37	11.7		9.2	8:49	21° 38'	232	

F. B. 1509 Pg. 282 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 7-29-55 Date No.
Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date No.

Profile	Notes Red.	Plotted	Job No. 0300.03	Division No. 10	F. B. 1509	Pg. 283
No.	Date	Date	Survey of BEACH EROSION			
X-Sec.	Notes Chkd.	Checked	Survey by ENGLISH	Notes E.D.	Date 7-29-55	
No.	Date	Date	Map No.	Indexed A. C. Johnson	Date	

Inshore
S. 298+65

S-17 298+38.22

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STATION	B. S.	H. I.	F. S.	ELEV.	INST AT	SIGHT ON
S-17	6 14	26 05 ~~25 05~~		19 91		
298+65			503	21 02 ~~20 02~~		
10' R	1 0	14.9 ~~13.9~~	122	13.9 ~~12.9~~	Top rocks	
34' R			154	-0 5	bot. "	

76L298 307 8-53

F. B. 1509 Pg. 284 Job No. 03002 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION Date Date No.

Survey by ENGLISH Notes ED Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

761-298 307 8-53

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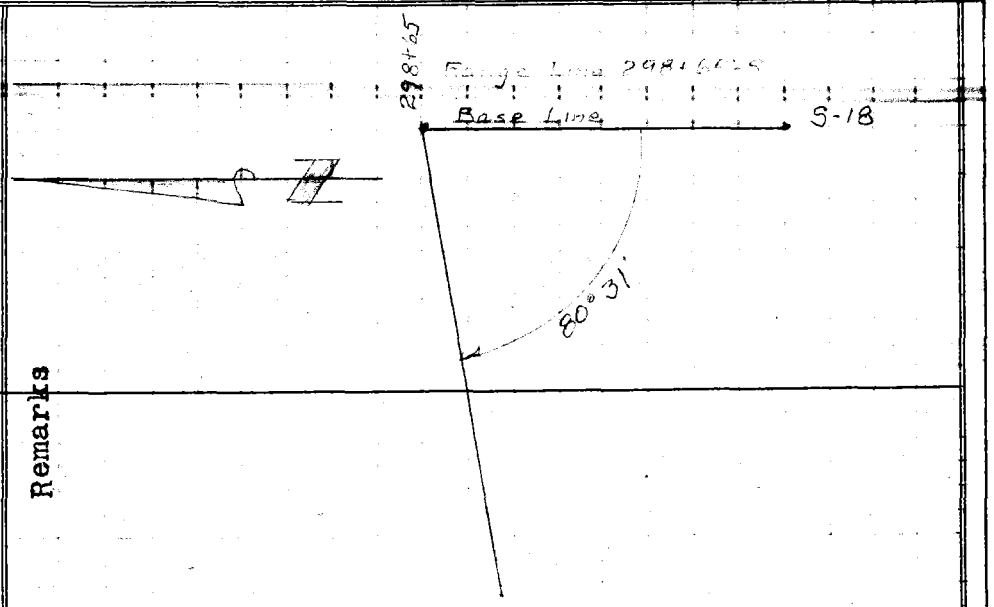
Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 1509	Pg. 285
No.	Date	Date	Survey of Beach Erosion Studies			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes	Date 7-29-55	
No.	Date	Date	Map No.	Indexed A. C. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		9-05	80°31'	
	2			80°31'	
	3			80°31'	
	4			80°31'	
	5			80°31'	
	6			80°31'	
	7			80°31'	
	8			80°31'	
	9			80°31'	
	10			80°31'	
	11			80°31'	
	12			80°31'	
	13			80°31'	
	14			80°31'	
	15			80°31'	
	16			80°31'	
	17			80°31'	
	18			80°31'	
	19			80°31'	
	20			80°31'	

S-18

298+65

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 8-53

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21			80° 31'		
		22			80° 31'		
		23			80° 31'		
		24			80° 31'	Range Line 298+65-S	
		25			80° 31'		
		26			80° 31'		
		27			80° 31'		
298+65		28			80° 31'		
	S-18	29			80° 31'		
		30			80° 31'		
		31			80° 31'		
		32			80° 31'		
		33			80° 31'		
		34			80° 31'		
		35			80° 31'		
		36			80° 31'		
		37		9:15	80° 31'		

F.B. 1509 PG. 286 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date 7-29-55 Date No.
Survey by Van Deren Notes Notes Chkd. Checked X-Sec.
Indexed E. C. Johnson Date Date Date No.

761.298 307 4-50

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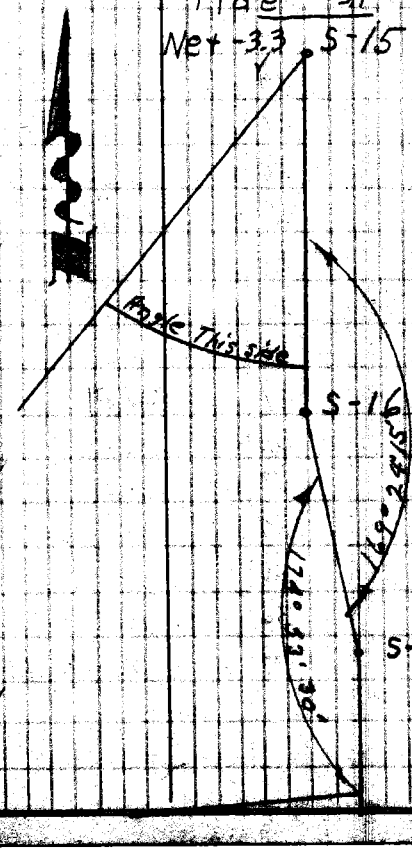
Do not extend notes this side of this line.

Profile No. _____ Plotted _____ Job No. 0700-[illegible] Station No. 10
Notes Red _____ Date _____ Date _____ Survey of Beach Erosion Study
Notes Blue _____ Notes Chkd _____ Checked _____ Survey by [illegible] Date 7-23-[illegible]
No. _____ Date _____ Date _____ Map No. _____ Date _____

STATION	B. S.	H. I.	F. S.	ELEV.		Fathoms	Feet
Inst. Sight At / On	#	Color / Time / Hor. Ang.				Remarks	
	1	213.0 35.5 209.7 / 9:05 / 55° 25'		2400	✓	Boat + 1.0'	1.0
	2	210.0 35.0 206.7 / 54° 35'		2290	✓	Zero Adj - .2 ✓	.2 ✓
	3	205.2 34.7 201.9 / 54° 02'		2220	✓	Tide - 3.1 ✓	3.1 ✓
	4	199.8 33.3 196.5 / 53° 08'		2110	✓	Net - 3.3 ✓	2.3 ✓
	5	186.6 31.1 183.3 / 52° 10'		2001	✓		
	6	180.0 30.0 176.7 / 50° 45'		1852	✓		
	7	172.2 28.7 168.9 / 49° 46'		1772	✓		
	8	168.0 28.0 164.7 / 48° 52'		1693	✓		
	9	162.0 27.0 158.7 / 48° 22'		1653	✓		
	10	156.0 26.0 152.7 / 47° 49'		1612	✓		
	11	150.0 25.0 146.7 / 46° 48'		15[illegible]	✓		
	12	145.2 24.2 141.9 / 45° 54'		1473	✓		
	13	139.2 23.2 135.9 / 45° 00'		1415	✓		
	14	132.0 22.0 128.7 / 43° 26'		1320	✓		
	15	123.0 20.5 119.7 / 42° 20'		1257	✓		
	16	115.2 19.2 111.9 / 40° 36'		1168	✓		
	17	108.0 18.0 104.7 / 39° 16'		1101	✓		
	18	100.8 16.8 97.5 / 37° 38'		1031	✓		
	19	93.0 15.5 89.7 / 35° 58'		961	✓		
	20	83.0 14.5 83.7 / 34° 17'		895	✓		



S-15

S-16

Cut in 298765-5

76L298 307 4-50

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Page 2 of 69 Job No. Division No. 10 Notes Red Plotted Profile
Survey of Beach Erosion Study Date 5-29-58 Date No. X-Sec.
Survey by Van Deren Notes RT Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.

STATION		S. S.	H. I.	F. S.	ELEV.			
Inst. At	Sight On	#	Color	Time	Hor. Ang.			Remarks
		21	75.0 12.5 71.7		32° 38'	835	✓	Cut in 298+65-S
		22	64.2 10.7 60.9		30° 58'	781	✓	
		23	57.0 9.5 53.7		29° 11'	721	✓	
		24	48.5 54.5 8.0 to 9.0 fathoms 52.5 50.2		27° 43'	677	✓	
		25	42.7 ✓ 40.4		26° 19'	640	✓	
		26	34.9 ✓ 32.6		25° 07'	604	✓	
		27	29.7 ✓ 27.4		23° 46'	570	✓	
S-15	S-16	28	26.8 ✓ 24.5		22° 30'	538	✓	
		29	23.4 ✓ 21.1		20° 49'	494	✓	
		30	21.5 ✓ 19.2		19° 07'	453	✓	
		31	19.2 ✓ 16.9		17° 03'	407	✓	
		32	18.2 ✓ 15.9		15° 14'	369	✓	
		33	17.7 ✓ 15.4		13° 56'	341	✓	36
		34	15.5 ✓ 13.2		12° 13'	305	✓	36
		35	14.0 ✓ 11.7		10° 20'	269	✓	
		36	12.8 ✓ 10.5			233		computed by constant speed
		37	10.6 ✓ 8.3	9:15		197		see sounder record

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 1509 Pg. 289
No.	Date	Date	Survey of Beach Erosion Studies		
X-Sec.	Notes Chkd.	Checked	Survey by English Notes Ed.	Date 7-29-55	
No.	Date	Date	Map No. A. C. Johnson Indexed	Date	

Inshore

S 296+65

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT	SIGHT ON
S-17	5 47	25 38 ~~24 38~~		19 91		
296+65	0 0	21 0 ~~20 0~~	4 37	21 01 ~~20 01~~		
85' R	2 0	17 5 ~~16 5~~	5 5	15 5 ~~14 5~~		Top rocks
29' R			15 8	1 2 ~~0 7~~		Bot. rocks

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76L298 307 8-53

F. B. 1509 Pg. 290 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

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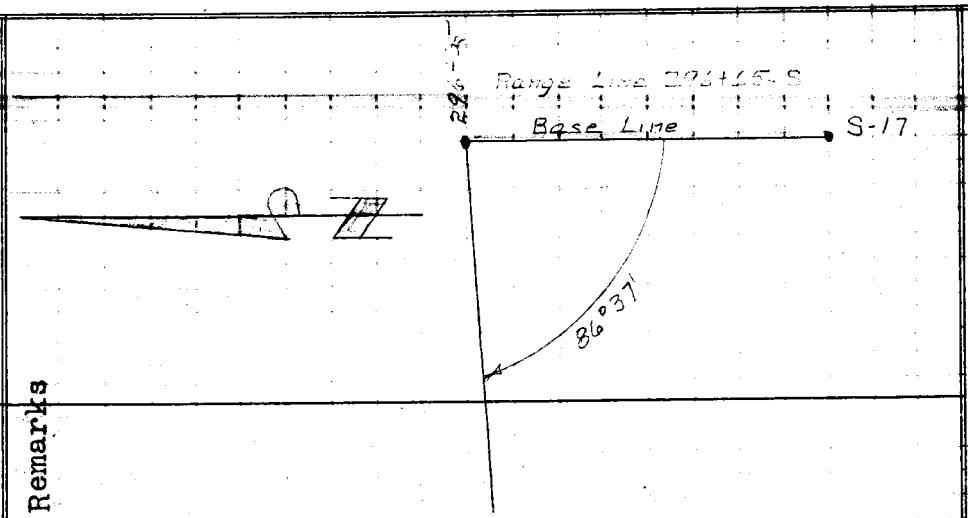
76L298 307 8-53

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 1509 Pg. 291
No.	Date	Date	Survey of BEACH EROSION STUDIES		
X-Sec.	Notes Chkd.	Checked	Survey by E. Van Deren	Notes	Date 7-29-55
No.	Date	Date	Map No.	Indexed C. Johnson	Date



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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 OH	#	Color	Time	Hor. Ang.	
	1		9-28	86°37'	
	2			86°37'	
	3			86°37'	
	4			86°37'	
	5			86°37'	
	6			86°37'	
	7			86°37'	
	8			86°37'	
	9			86°37'	
	10			86°37'	
	11			86°37'	
	12			86°37'	
	13			86°37'	
	14			86°37'	
	15			86°37'	
	16			86°37'	
	17			86°37'	
	18			86°37'	
	19			86°37'	
	20			86°37'	

S-17

396+65-S

76L298 307 8-53

76L298 307 8-53

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21			86° 31'		
		22			86° 31'		
		23			86° 31'	Range Line	396+65-S
		24			86° 31'		
		25			86° 31'		
		26			86° 31'		
		27			86° 31'		
396+65-S	5-17	28			86° 31'		
		29			86° 31'		
		30			86° 31'		
		31			86° 31'		
		32			86° 31'		
		33			86° 31'		
		34			86° 31'		
		35		9-38	86° 31'		

F. B. 1509 PG. 292 Job No. 0300.02 Division No. 10 Notes Red. Plotted No. Profile
Survey of BEACH EROSION STUDIES Date 7-29-55 Date X-Sec.
Survey by Van Deren Notes Chkd. Checked
Indexed C. Johnson Date Date No.

761.298 307 4-50

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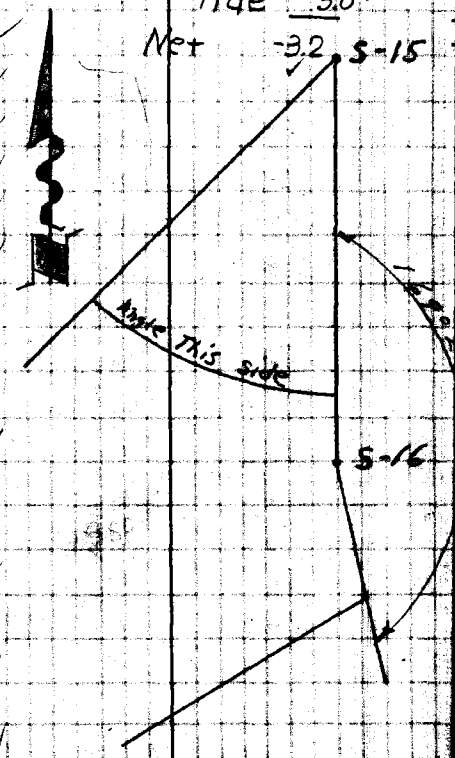
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.			
Inst. Sight At	Sight On	#	Color	Time	Hor. Ang.			
		1	void	9:28	59° 03'	2238	✓	
		2	135.0 22.5 131.8		58° 01'	2091	✓	
		3	129.0 21.5 125.8		57° 19'	2000	✓	
		4	138.2 23 135.0		56° 41'	1923	✓	
		5	141.0 23.5 137.8		55° 46'	1823	✓	
		6	141.0 23.5 137.8		55° 03'	1751	✓	
		7	156.0 26.0 152.8		54° 08'	1653	✓	
S-15	S-16	8	150.0 25.0 146.8		53° 12'	1581	✓	
		9	144.0 24.0 140.8		52° 19'	1508	✓	
		10	void		50° 35'	1382	✓	
		11	121.8 20.3 118.6		48° 10'	1230	✓	
		12	114.0 19.0 110.8		46° 41'	1150	✓	
		13	104.4 17.4 101.2		45° 03'	1068	✓	
		14	98.4 16.4 95.2		43° 17'	980		
		15	93.0 15.5 89.8		41° 48'	927	✓	
		16	75.0 12.5 71.8		39° 49'	851	✓	
		17	57.0 9.5 53.8		37° 48'	783	✓	
		18	48.0 8.0 44.8 / 46.0 43.8		36° 05'	727	✓	
		19	41.2 39.0		34° 53'	688	✓	
		20	35.5 33.3		33° 54'	660	✓	

Remarks

	Fathoms	Feet
Boat	+1.0	+1.0
Zero Adj	-1.2 ✓	-.2 ✓
Tide	-3.0 ✓	-3.0 ✓
Net	-3.2 ✓	-2.2 ✓



Cut in 296+65-S

Profile Notes Red. Plotted Job No. Division No. 10 F.B. 1809 Pg. 243
No. Date Date Survey of Beach Erosion Study
T. Sec. Notes Chkd. Checked Survey by H.A. Johnson A.E. Date
No. Date Date Map No. Date

76L298 307 4-50

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F. B. 1507 PG. 299 Profile

Job No. 8700.02 Division No. 12 Notes Red. Plotted No.

Survey of Beach Erosion Study Date 7-27-55 Date X-Sec. No.

Survey by Wm. Oppen Notes R.T. Notes Chkd. Checked

Indexed C. Johnson Date Date

STATION		B. S.	H. I.	F. S.	ELEV.			Remarks
Inst. Sight At	On	#	Color	Time	Hor. Ang.			
		21	31.4 / 29.2		32° 30'	625	✓	Cut in 296+65-5
		22	27.7 / 25.5		30° 51'	582	✓	
		23	25.0 / 22.8		29° 15'	544	✓	
		24	23.4 / 21.2		27° 51'	510	✓	
		25	21.6 / 19.4		26° 18'	478	✓	
		26	20.6 / 18.4		24° 31'	440	✓	
		27	19.2 / 17.0		22° 35'	401	✓	
S-15	S-16	28	17.6 / 15.4		21° 33'	381	✓	
		29	15.9 / 13.7		19° 27'	342	✓	
		30	15.8 / 13.6		17° 02'	301	✓	
		31	14.5 / 12.3		15° 40'	278	✓	
		32	13.2 / 11.0		14° 22'	256	✓	
		33	11.8 / 9.6		12° 00'	218	✓	
		34	10.1 / 7.9		9° 40'	183	✓	
		35	8.1 / 5.9		6 33	139	✓	
		36	6.1 / 3.9	9:38				

76L298 307 8-53

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S-16 294+10.94

Do not extend notes this side of this line. CUT IN ∡

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT	SIGHT ON
S-17	5 47	25 30 ~~21 38~~		19 91		
294+65	0 0	20.5 ~~19 5~~	4 92	20 46 ~~19 46~~		
11 5 R	1 0	15.8 ~~14 8~~	5 7	14.8 ~~13 8~~	To p. rocks	
30' R			13 0	2 8 ~~1 7~~	Bot. "	
294+65	5 20	24 66		19 46		
S-16			6 26	18 40	S-16, el. 18.396, F.B. 2100-159	

Inshore
S. 294+65

Profile Notes Red. ____ Plotted ____ Job No. 0300.09 Division No. 10 F. B. 1509 Pg. 295
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes Ed. Date 7-29-55
No. ____ Date ____ Date ____ Map No. ____ Indexed E. C. Johnson Date ____

F. B. 1509 Pg. 196 | Job No. 0300.02 | Division No. 10 | Notes Red. | Plotted | Profile

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

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

Indexed | Date | Date | Date | No.

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

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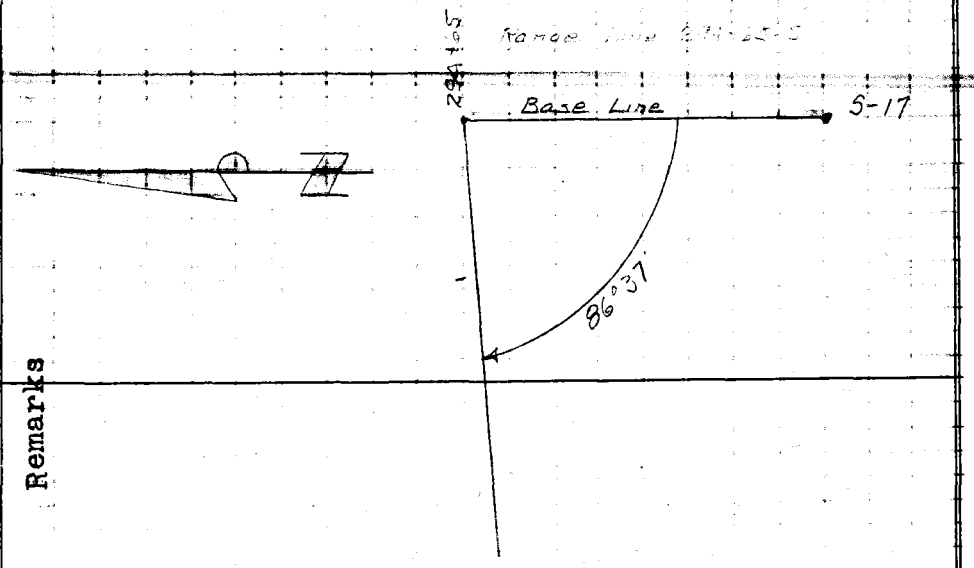
76L298 307 8-53

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 11	F. B. 1509	Pg. 297
No.	Date	Date	Survey of BEACH EROSION STUDIES			
X-Sec.	Notes Chkd.	Checked	Survey By Van Deren	Notes	Date 7-29-55	
No.	Date	Date	Map No.	Indexed G. Johnson	Date	



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STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OH	#	Color	Time	Hor. Ang.	
	1		9-30	86°37'	
	2			86°37'	
	3			86°37'	
	4			86°37'	
	5			86°37'	
	6			86°37'	
	7			86°37'	
	8			86°37'	
	9			86°37'	
	10			86°37'	
	11			86°37'	
	12			86°37'	
	13			86°37'	
	14			86°37'	
	15			86°37'	
	16			86°37'	
	17			86°37'	
	18			86°37'	
	19			86°37'	
	20			86°37'	

S-17

294+65

76L298 307 8-53

76L298 307 8-53

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21			8[illegible]37'		
		22			8[illegible]37'	Range Line 294+65-S	
		23			8[illegible]37'		
		24			[illegible]37'		
		25			[illegible]37'		
		26			8[illegible]37'		
		27			8[illegible]7'		
		28			8[illegible]7'		
294+65	S-17	29			8[illegible]37'		
		30			8[illegible]37'		
		31			8[illegible]37'		
		32			8[illegible]37'		
		33			8[illegible]7'		
		34			8[illegible]37'		
		35			8[illegible]7'		
		36			8[illegible]7'		
		37			8[illegible]		
		38		10-01	8[illegible]37'		

F. B. 1509 PG. 298 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date 7-29-55 Date No.
Survey by Van Deren Notes Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date No.

76L298 307 4-50

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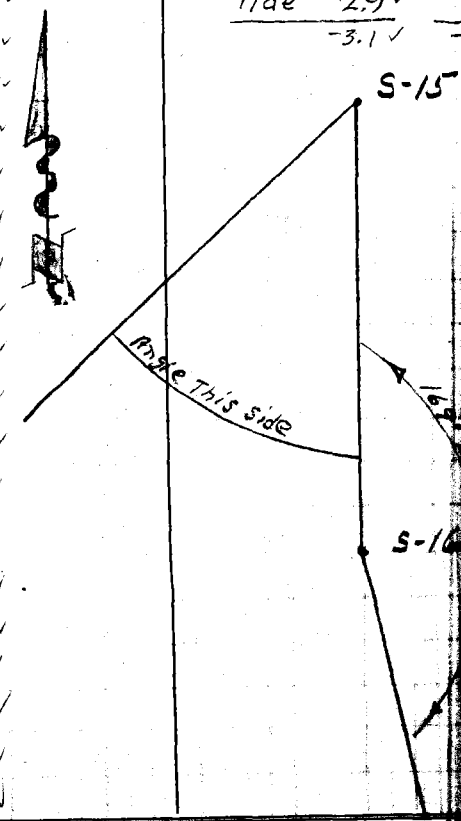
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.		
S-15	S-16	1	81.0 13.5 77.9	9:50	64° 56'	2620	
		2	87.0 14.5 83.9		64° 42'	2570	
		3	88.2 14.7 85.1		64° 23'	2486	
		4	91.8 15.3 88.7		64° 06'	2429	
		5	96.0 16.0 92.9		63° 40'	2333	
		6	84.0 14.0 80.9		63° 16'	2253	
		7	78.0 13.0 74.9		62° 52'	2180	
		8	76.8 12.8 73.7		62° 15'	2067	
		9	81.0 13.5 77.9		61° 50'	2001	
		10	81.0 13.5 77.9		61° 15'	1918	
		11	84.0 14.0 80.9		60° 36'	1828	
		12	120.0 20.0 116.9		59° 56'	1742	
		13	129.0 21.5 125.9		59° 04'	1642	
		14	120.0 20.0 116.9		58° 22'	1570	
		15	102.0 17.0 98.9		57° 51'	1520	
		16	90.0 15.0 86.9		56° 59'	1439	
		17	81.0 13.5 77.9		56° 03'	1365	
		18	69.0 11.5 65.9		54° 59'	1280	
		19	67.8 11.3 64.7		53° 58'	1212	
		20	69.0 11.5 65.9		52° 28'	1121	

	Fathoms	Feet
Boat	+1.0	±1.0
Zero Adj	-1.2	-.2
Tide	-2.9	-2.9
	-3.1	-2.1



Cut in 294+65-S

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 1509 Pg. 299
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 7-29-55
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

1509

Profile

Plotted

Date

Checked

Date

Notes Red. 10

Date 7-29-55

Notes Chkd.

Date

Notes Red.

Date

Notes

Date

Survey of Beach Erosion Study

Survey by Van Deren

Notes R.T.

Date

Station At	Station On	#	Color		Time	Horizontal Angle		Remarks
		21	72.0	13.0 68.9		51° 41'	1078	Cut in 294+65-S
		22	78.0	13.0 74.9		49° 36'	976	
		23	72.0	12.0 68.9		47° 47'	893	
		24	61.8	10.3 58.7		45° 53'	821	
		25	54.0	9.0 50.9		41° 45'	750	
		26	[illegible]	35.4		41° 57'	690	
		27	30.2	28.1		40° 00'	640	
S-15	S-16	28	25.8	23.7		38° 17'	595	
		29	23.6	21.5		36° 35'	554	
		30	21.9	19.8		34° 52'	518	
		31	20.1	18.0		33° 08'	481	
		32	18.6	16.5		30° 41'	434	
		33	17.5	15.7		28° 57'	403	
		34	16.6	14.5		26° 46'	369	
		35	14.9	12.8		24° 12'	330	
		36	12.9	10.8		21° 15'	288	
		37	11.0	8.9		18° 58'	256	
		38	9.0	6.9	10:01	15° 40'	273	