F.B. 2301 PG. 5

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 4-9-56

BEACH EROSION STUDIES

— SOUNDINGS —

J.N. 0300.02

Aug 9-1955 To Aug 12-1955

From 97+50-S To 60+00-N

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

Microfilmed Feb '86

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

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

Do not extend notes this side of this line.

F.B. 2301 PG. 6

F. B. 2301 PG. 6A

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

Survey of Beach Erosion
W. O. Tape No. St'd. °F
Surveyed by Van Doren
Notes J. R. E. Date 8-9-55
Indexed C. Johnson

August 9, 1955

Time	Tide	Standard Time
5:00	1.6	
5:30	1.5	
6:00	1.4	
6:30	1.6	
7:00	1.8	
7:30	2.0	
8:00	2.4	
8:30	2.8	
9:00	3.2	
9:30	3.6	
10:00	3.9	
10:30	4.4	
11:00	4.8	

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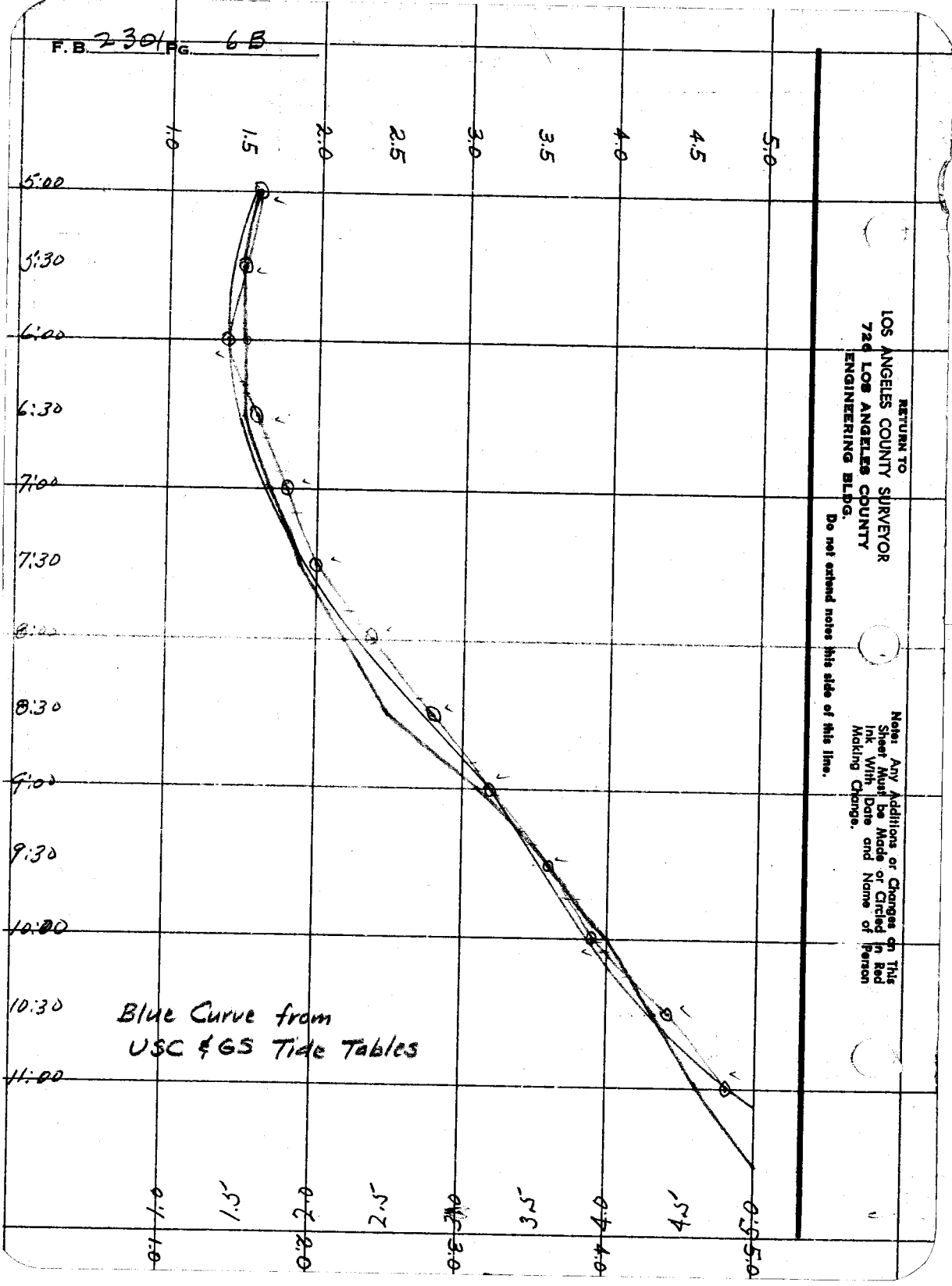
ENGINEERING BLDG.

76-3095 247 4-53

F.B. 2301 PG. 6B



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76L298 307 10-51

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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 S-5	Sight on 97+50
102+50						
T.P. 245 FT R.	14 49	22 48		7 99		
T.P.	7 03	29 25	0 26	22 22		
T.P. S-5	8 00	33 07	4 21	25 ~~04~~ 07	S-5 FO 2" I.P. CONC.	CTR. & SPK ELEV. 25.069
97+50			5 30	27 77		
12 FT. LEFT			5 2	27 9	E. EDGE PARKING AREA AT	BASE OF RETAINING WALL
31 FT. RIGHT			6 0	27 1	W. " " "	
35 " "			6 9	26 2		TOP SLOPE
T.P.	0 08	19 19	13 96	19 11		
70 FT. R			3 4	15 8		TOE SLOPE
100 " "			3 9	15 3		
160 " "			5 3	13 9		BRK
200 " "			8 0	11 2		
246 " "			11 2	8 0		BRK
257 " "			11 6	7 6		"
T.P. 300 " "	1 06	5 89	14 36	4 83		
		5	4 3	1 6	50° 39' 360	
			5 9	0 0	54 56 418	
			8 0	-2 1	59 04 492	
			11 3	-5 4	63 04 581	
			14 7	-8 8	66 04 665	
			17 2	-11 3	67 46 722	
			19 5	-13 6	70 31 834	

Inshore
S. 97+50

Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 7
X-Sec. ____ Date ____ Survey of BEACH EROSION STUDIES
No. ____ Date ____ Notes Chkd. ____ Checked ____ Survey by DREIER ENGLISH Notes C.E.D. & E.D. Date 8-9-55
Map No. ____ Date ____ Indexed Johnson Date ____

F.B. 2301 PG. 8 | Job No. 0300.02 | Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion | Date | Date | No.

Survey by E.E. & G.D. | Notes E.E. & G.D. | Notes Chkd. | Checked | X-Sec.

Indexed | Date | Date | Date | No.

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

761.298 307 10-51

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ENGINEERING BLDG.

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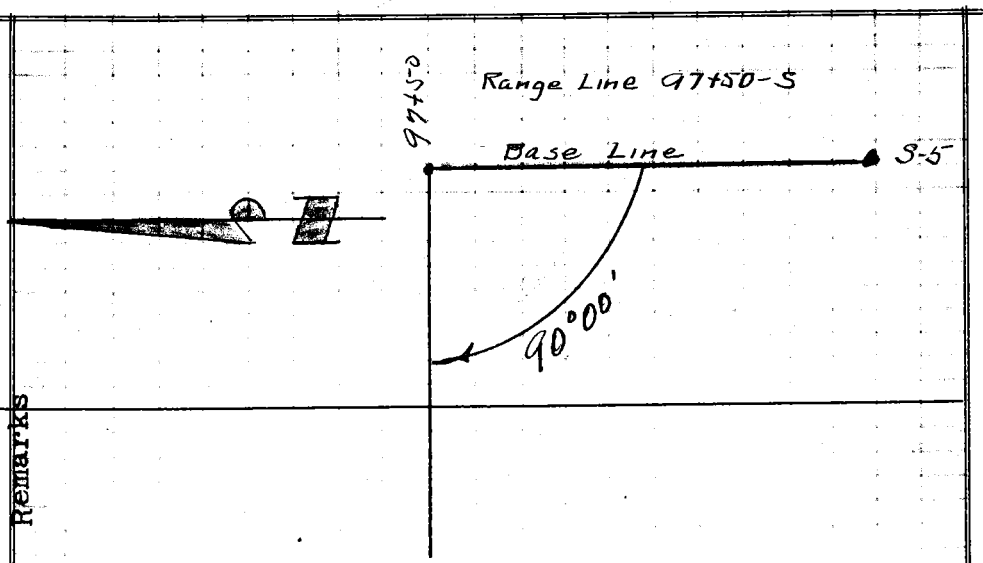
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301 Pg. 9
No.	Date	Date	Survey of Beach Erosion		
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.J.E.	Date 8-9-55
No.	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		5:59	90°	
	2			90°	
	3			90°	
	4			90°	
	5			90°	
	6			90°	
	7			90°	
	8			90°	
	9			90°	
	10			90°	
	11			90°	
	12			90°	
	13			90°	
	14			90°	
	15			90°	
	16			90°	
	17			90°	
	18			90°	
	19			90°	
	20			90°	

S-5

97+50

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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°		
		22			90°		
		23			90°	Range Line 97+50-S	
		24		6:05	90°		
97+50	5-5						

F. B. 2301 PG. 10 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Date Date No.
Survey by VanDeren Notes J. J. E. Notes Chkd. Checked X-Sec.
Indexed ~~R. C. Johnson~~ Date Date Date No.

76L298 307 8-53

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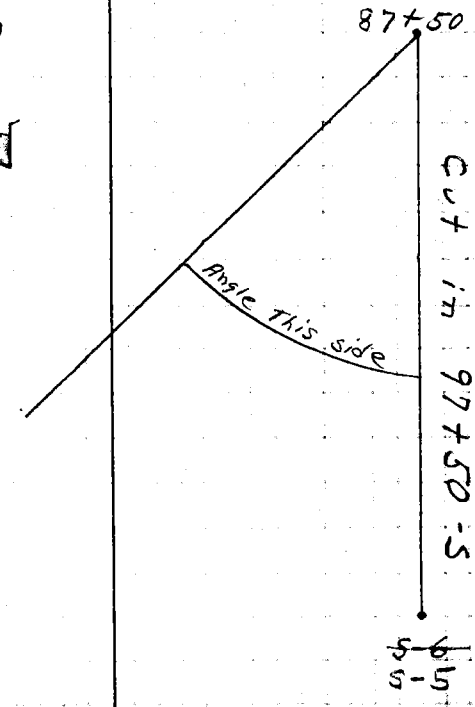
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. Sight At	On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks
		1	30.2	29.1	5.59	66° 40'	2318	
		2	29.6	28.5		65° 00'	2145	
		3	28.8	27.7		64° 10'	2066	
		4	28.3	27.2		62 29'	1920	
		5	27.5	26.4		61° 39'	1853	
		6	27.1	26.0		60° 24'	1760	
		7	26.2	25.1		58° 50'	1653	
87+50	~~5-6~~ 5-5	8	25.2	24.1		57° 00'	1540	
		9	24.3	23.2		55° 15'	1442	
		10	23.4	22.3		53° 33'	1354	
		11	22.8	21.7		51° 47'	1270	
		12	21.4	20.3		49° 48'	1183	
		13	21.3	20.2		47° 55'	1107	
		14	20.2	19.1		46° 47'	1064	
		15	19.2	18.1		45° 15'	1009	
		16	18.3	17.2		43° 20'	943	
		17	16.7	15.6		41° 17'	878	
		18	15.5	14.4		39° 59'	839	
		19	14.5	13.4		38° 37'	799	
		20	13.2	12.1		37° 15'	760	

Zero Adj. -0.7
Boat Adj. +1.0
Tide -1.4
-1.1



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 11
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-9-55
No. Date Date Map No. Indexed Job Date

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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F. B. 2301 PG. 12 Job No. 8300.02 Division No. 10 Notes Red. 8-9-55 Plotted
Survey of Beach Erosion Study Date Date No.
Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.
Indexed K. C. Johnson Date Date Date No.

Profile

STATION Inst. At	Sight On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks
		21	11.9	10.8		35° 35'	715	Cut in 97+50-S
		22	void	—		31° 15'	607	
		23	6.2	5.1		30° 22'	586	
		24	5.7	4.6	6.05	29° 25'	564	
87+50	S-6							

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

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

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 87+50		Sight on 92+50
97+50							
T.P. 300 FT. R.	13 64	18 47		4 83			
T.P.	1 50	19 15	0 82	17 65			
92+50			+89	280			
5 FT L.			+87	278	TOE SLOPE		
30 FT. RIGHT			+101	292			TOP SLOPE
56 " "			11	180			TOE SLOPE
100 " "			40	151			
153 " "			44	147			BRK
200 " "			77	114			
260 " "			114	77			
300 " "			141	50			
T.P. 315 " "	100	5 60	14 55	460			
					° ′		
			40	16	35 54	362	
			59	-03	40 49	432	
			90	-34	47 03	537	
			153	-97	53 50	684	
			195	-139	58 34	818	

Inshore
S. 92+50

Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 13
X-Sec. ____ Date ____ Survey of BEACH EROSION STUDIES
No. ____ Date ____ Notes Chkd ____ Checked ____ Survey by DREIER ENGLISH Notes G.E.D.&E.D. Date 8-9-55
Map No. ____ Date ____ Indexed ____ Date ____

F.B. 2301 PG. 14 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by E.E. & G.D. Notes E.E. & G.D. Notes Chkd. Checked X-Sec.

Indexed Date 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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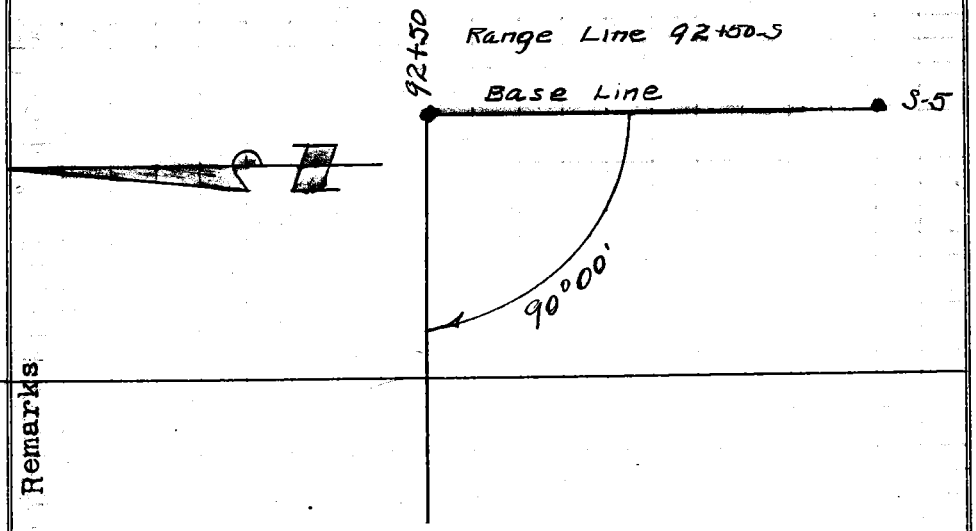
76L298 307 10-51

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301	Pg. 15
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.N.E.	Date 8-9-55	
No.	Date	Date	Map No.	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.

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726 Los Angeles County Engineering Bldg.

Do not extend notes this side of this line.

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

S-5

92+50

76L298 307 8-53

F. B. 2301 Pg. 16 | Job No. 8300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

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

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

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
92+50					
5-5					
Inst. Sight At	#	Color	Time	Hor. Ang.	
	21			90°	
	22			90°	
	23			90°	
	24			90°	
			6:22		
					Range Line 92+50-S

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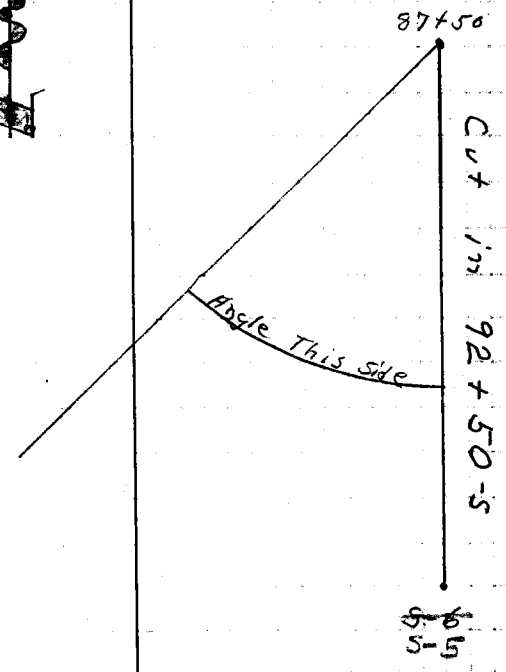
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks
		1	29.3	28.1	6:17	77° 10'	2195	
		2	28.7	27.5		76° 52'	2143	
		3	28.2	27.0		76° 19'	2054	
		4	27.6	26.4		75° 24'	1920	
		5	26.9	25.7		74° 28'	1798	
		6	26.3	25.1		73° 50'	1725	
		7	25.4	24.2		72° 42'	1605	
		8	24.6	23.4		71° 41'	1510	
87+50	~~S-6~~ S-5	9	23.9	22.7		70° 36'	1420	
		10	22.8	21.6		69° 05'	1308	
		11	21.7	20.5		67° 37'	1214	
		12	20.7	19.5		65° 55'	1119	
		13	19.2	18.0		63° 42'	1012	
		14	18.4	17.2		62° 39'	967	
		15	16.9	15.7		61° 14'	911	
		16	16.2	15.0		60° 08'	871	
		17	14.9	13.7		58° 55'	829	
		18	13.8	12.6		57° 57'	799	
		19	12.9	11.7		56° 34'	757	
		20	11.9	10.7		55° 21'	723	

Zero Adj. -0.7
Boat Adj. +1.0
Tide -1.5
-1.2



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 17
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-9-55
No. Date Date Map No. Indexed Johnson Date

F.B. 2301 Pg. 10 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-9-55 Date _____ No. _____

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

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

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
87+50					
S-6					
~~Inst. Sight~~ At On # Color Time Hor. Ang.					
	10.7	9.5			
	10.1	8.9			
	8.9	7.7			
	7.6	6.4	6.22		
				690	Cut 12
				665	
				635	
				604	
					92+50-S

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76L298 307 8-53

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 92+50		Sight on 87+50
92+50 T.P. 315 FT. R	1392	18 52		4 60			
T.P.	063.	18 15	1 00	17 52			
87+50			+9 8	27 9			
10 FT LEFT			+10 6	28 7	TOE SLOPE		
32 " RIGHT			+8 4	26 5			TOP SLOPE
58 " "			0 8	17 3			TOE SLOPE
100 " "			2 6	15 5			
136 " "			3 3	14 8			BRK
200 " "			7 3	10 8			
257 " "			10 4	7 7			BRK
300 " "			13 3	4 8			
T.P. 310 " "	1 24	5 86	13 53	4 62			
		[illegible] 9	4 3	1 6	36° 03'	364	
			6 0	-0 1	40 17	424	
			8 0	-2 1	45 17	505	
			10 6	-4 7	49 23	583	
			14 0	-8 1	53 02	664	
			17 1	-11 2	56 35	758	

Inshore
S, 87+50

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

Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 10
Date ____ Date ____ Survey of BEACH EROSION STUDIES
Notes Chkd. ____ Checked ____ Survey by DREIER ENGLISH Note GEO & ED Date 8-9-55
Date ____ Date ____ Map No. ____ Index Johnson Date ____

F.B. 2301 Pg. 19

F.B. 2301 PG. 20 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by E.E. & G.D. Notes Notes Chkd. Checked X-Sec.

Indexed Date Date Date Date No.

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

761298 307 10-51

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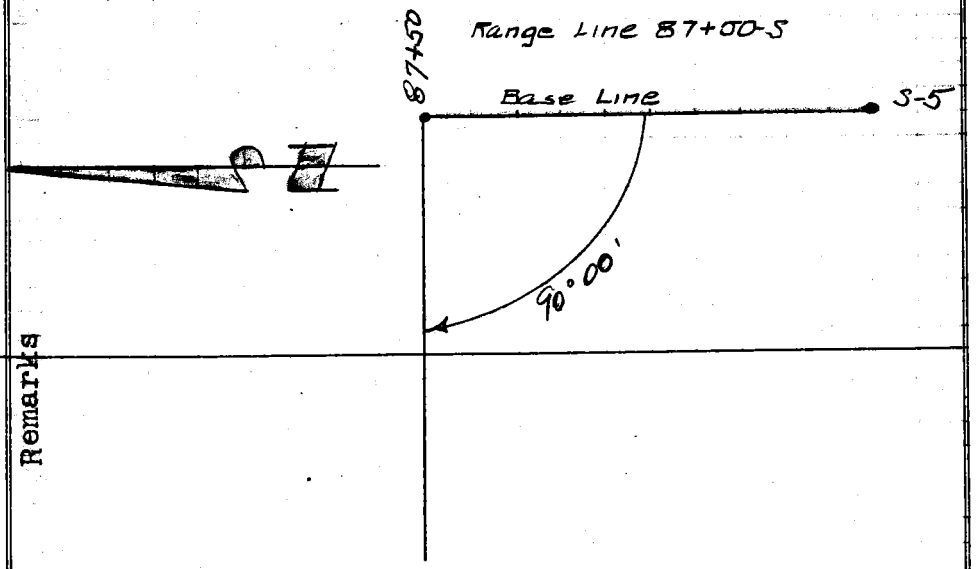
Profile No. ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 6300.62 Division No. 10 | F. B. 230' Pg. 21

X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of Beach Erosion Survey by VanDeren Notes J.J.E. Date 8-9-53 Map No. ____ Indexed C. Johnson Date ____



STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At	#	Color	Time	Hor. Ang.	
	1		6:34	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-5

87+50

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

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76L198 307 8-53

F. B. 2301 Pg. 22 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

Survey by Van Doren Notes J.J.E. Notes Chkd. _____ Checked _____ X-Sec.

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

STATION	B. S.	H. I.	F. S.	ELEV.	Hor. Ang.	Remarks
87+50						
5-5						
Inst. Sight At	#	Color	Time			
	21			90.00		
	22			90.00		
	23			90.00		
	24			90.00		
	25			90.00		
	26		6:39	90.00		
						Range Line 87+50-S

76L298 307 8-53

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LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 8-53

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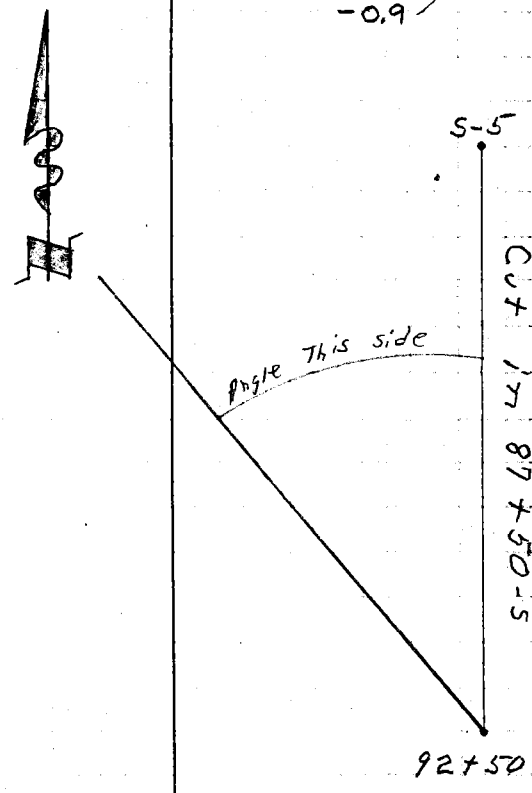
STATION Inst. At	Sight On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks
		1	29.1	28.2	6:34	77° 04'	2177	
		2	28.3	27.4		76° 26'	2072	
		3	27.9	27.0		75° 48'	1976	
		4	27.4	26.5		75° 14'	1897	
		5	27.3	26.4		74° 25'	1793	
		6	26.5	25.6		73° 58'	1740	
		7	25.5	24.6		73° 18'	1667	
		8	25.1	24.2		72° 11'	1556	
92+50	S-5	9	24.5	23.6		71° 05'	1459	
		10	23.7	22.8		70° 05'	1380	
		11	22.9	22.0		68° 43'	1284	
		12	21.8	20.9		67° 22'	1199	
		13	21.3	20.4		65° 30'	1097	
		14	20.1	19.2		64° 18'	1039	
		15	19.4	18.5		63° 36'	1007	
		16	17.9	17.0		62° 40'	967	
		17	17.2	16.3		61° 25'	918	
		18	16.0	15.1		60° 12'	873	
		19	15.2	14.3		59° 08'	837	
		20	14.2	13.3		57° 53'	797	

Zero Adj. −0.3
Boat Adj. +1.0
Tide −1.6
−0.9



Profile Notes Red. Plotted Job No. 0230002 Division No. 10 F. B. 2301 Pg. 23
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-9-55
No. Date Date Map No. Indexed Johnson Date

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F.B. 2301 Pg. 24 Job No. 2300.02 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Study Date 8-9-55 Date No.
Survey by Van Deren Notes P.T. Notes Chkd. Checked X-Sec.
Indexed K. C. Johnson Date Date Date No. Profile

STATION At	Inst. Sight On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks	
			12.7	11.8			765	Cut in	87+50-S
			11.6	10.7			721		
			10.6	9.7			693		
			9.9	9.0			655		
			8.6	7.7			635		
			7.8	6.9	6.39		612		
92+50	S-S								

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 77+50	Sight on 82+50
87+50						
T.P. 310 FT R.	14 47	19 09		4 62		
T.P.	11 75	30 64	020	18 89		FB2100-166
S-4	7 63	32 59	5 68	24 96	S-4 ELEV. 24.956	1" I.P. CONC. CTR. & TACK
82+50			28	29 8		
7 FT L.			24	30 2	TOE SLOPE	
20 " RIGHT			43	28 3		TOP SLOPE
T.P.	0 58	21 73	11 44	21 15		
54 FT. R.			45	17 2		TOE SLOPE
100 " "			59	15 8		
183 " "			83	13 4		BRK
200 " "			92	12 5		
260 " "			137	8 0		BRK
T.P. 268 " "	0 00	7 35	14 38	7 35		
T.P.	2 73	6 63	3 44	3 91		
			4 1	2 5	33° 59' 337	
			6 1	0 5	37 58 390	
			8 5	-1 9	43 10 469	
			11 3	-4 7	47 54 553	
			14 8	-8 2	51 41 633	
			17 3	-10 7	55 13 720	

Inshore
S. 82+50

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 25
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
Notes Chkd. ____ Checked ____ Survey by DREIER ENGLISH Notes GED & ED Date 8-9-55
Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F.B. 2301 PG. 26 | Job No. 0300.02 | Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion | Date | Date | No.

Survey by E.E. & G.D. | Notes E.E. & G.D. | Notes Chkd. | Checked | X-Sec.

Indexed | Date | Date | Date | No.

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

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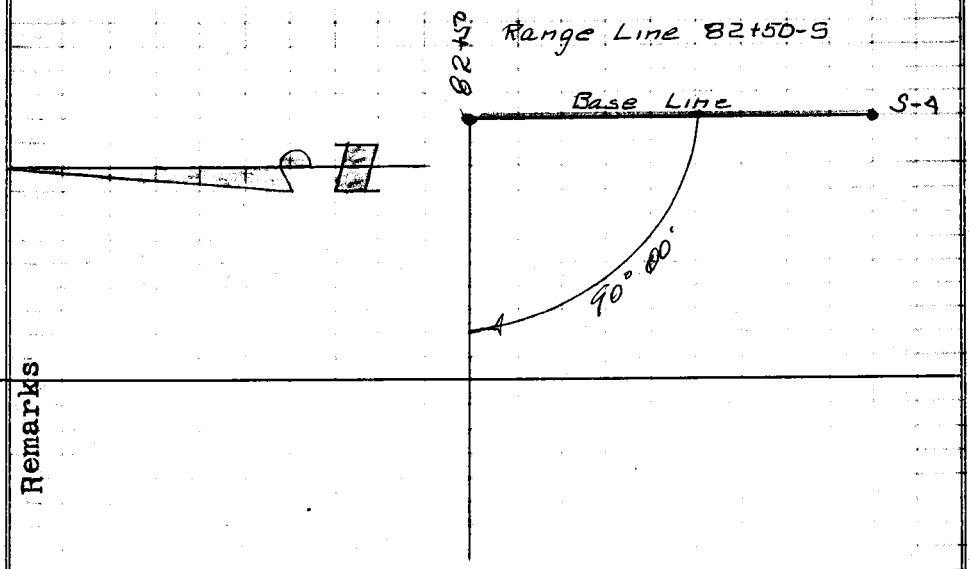
Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301 Pg. 27
No.	Date	Date	Survey of Beach Erosion		
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.J.E.	Date 8-9-52
No.	Date	Date	Map No.	~~Indexed~~ C. Johnson	Date



STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		6:53	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-4

82+50

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76L2 07 8-53

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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'		
		23			90° 00'	Range Line	82+50-S
		24			90° 00'		
		25			90° 00'		
		26			90° 00'		
		27		6.58	90° 00'		
82+50	S-4						

F. B. 2301 PG. 28 Job No. 8300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Date Date No.
Survey by Van Deren Notes J.J.E. Notes Chkd. Checked X-Sec.
Indexed A. C. Johnson Date Date Date No.

761298 307 8-53

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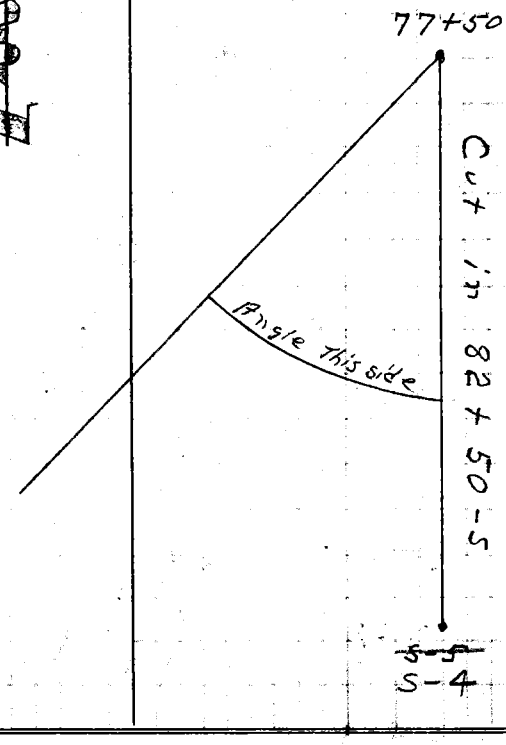
Profile No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 0100-01 Division No. 10 F.B. 2301 Pg. 29
X-Sec. No. ____ Date ____ Notes Chkd. ____ Checked ____ Date ____ Survey of Beach Erosion study Survey by Van Deren Notes R.T. Date 8-9-58 Map No. ____ Date ____

STATION Inst. Sight At	On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks
77+50	S-5 S-4	1	29.8	28.5	6:53	78° 24'	2436	Zero Adj. -0.5
		2	28.9	27.6		77° 57'	2342	Boat Adj. +1.0
		3	28.0	26.7		77° 21'	2228	Tide -1.8
		4	27.2	25.9		76° 41'	2112	-1.3
		5	26.7	25.4		75° 42'	1962	
		6	26.7	25.4		74° 37'	1817	
		7	26.2	24.9		73° 27'	1683	
		8	25.0	23.7		72° 30'	1586	
		9	24.5	23.2		71° 17'	1476	
		10	23.8	22.5		69° 59'	1373	
		11	22.7	21.4		68° 24'	1263	
		12	21.7	20.4		67° 15'	1192	
		13	20.9	19.6		66° 16'	1137	
		14	20.1	18.8		65° 07'	1078	
		15	19.5	18.2		63° 48'	1016	
		16	18.6	17.3		63° 05'	985	
		17	17.9	16.6		62° 22'	955	
		18	17.0	15.7		61° 33'	923	
		19	16.2	14.9		60° 51'	897	
		20	15.2	13.9		59° 31'	849	



F.B. 2301 Pg. 30

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

Survey of Beach Erosion Study Date 8-9-55 Date _____ No. _____

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

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

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77+50

5-5

Instr. Sight At Ob	B.S. #	H.I. Color	F.S. Time	ELEV. Hor. Ang.	Remarks
	[illegible]	14.2 12.9	[illegible]	.813	Cut in 82+50-5
	[illegible]	13.1 11.8	[illegible]	776	
	[illegible]	12.0 10.7	[illegible]	739	
	24	11.1 9.8	[illegible]	698	
	25	9.8 8.5	[illegible]	660	
	26	8.8 7.5	[illegible]	628	
	27	7.8 6.5	6.58	610	

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 82+50		Sight on 77+50
82+50 T.P. 268 FT. R	12 74	20 09		7 35			
T.P.	2 21	18 13	4 17	15 92			
77+50			+11 8	29 9			
5 FT LEFT			+12 6	30 7	TOE SLOPE		
21 FT RIGHT			+10 5	28 6			TOP SLOPE
58 " "			0 2	17 9			BOTTOM SLOPE
88 " "			2 4	15 7			BRK
100 " "			2 4	15 7			
154 " "			2 8	15 3			BRK
200 " "			6 7	11 4			
260 " "			10 7	7 4			BRK
T.P. 300 " "	1 35	6 28	13 20	4 93			
			4 5	1 8	35° 48'	361	
			7 3	-1 0	42 08	452	
			12 6	-6 3	50 18	602	
			17 2	-10 9	56 28	754	

Inshore
S. 77+50

Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 31
X-Sec. Date ____ Date ____ Survey of BEACH EROSION STUDIES
No. ____ Date ____ Notes Chkd. ____ Checked ____ Survey by DREYER ENGLISH Notes G.E.D. & ED Date 8-9-55
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 2301 PG. 32 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by E.E.&G.D. Notes E.E.&G.D. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

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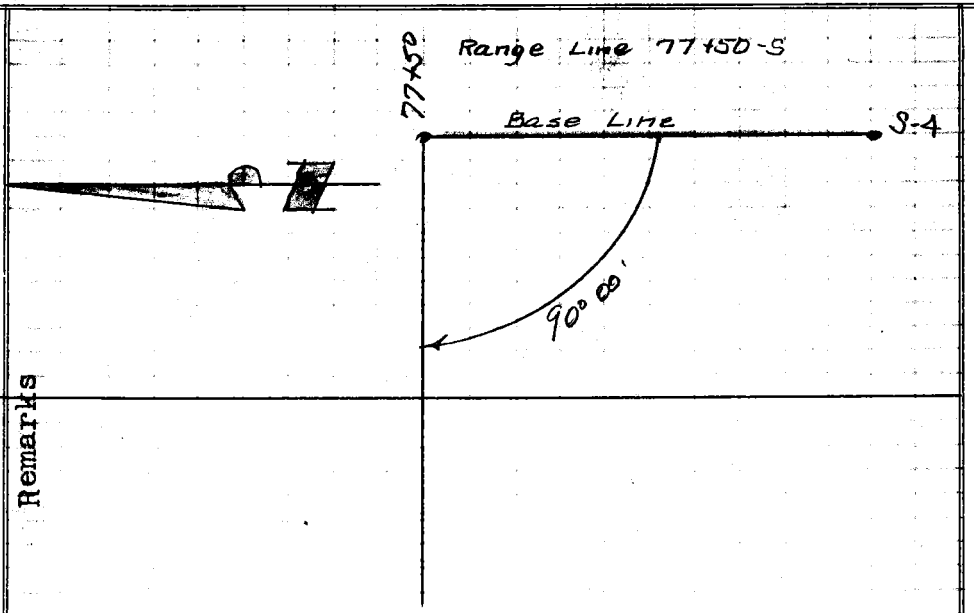
Profile No.	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301	Pg. 33
	Date	Date	Survey of Beach Erosion			
X-Sec. No.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.J.E.	Date 8-9-55	
	Date	Date	Map No.	Indexed Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight On	#	Color	Time	Hor. Ang.	
	1		7:09	90°	
	2			90°	
	3			90°	
	4			90°	
	5			90°	
	6			90°	
	7			90°	
	8			90°	
	9			90°	
	10			90°	
	11			90°	
	12			90°	
	13			90°	
	14			90°	
	15			90°	
	16			90°	
	17			90°	
	18			90°	
	19			90°	
	20			90°	
At	S-4				
	77+50				

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F. B. 2301 Pg. 34 Job No. 8300.07 Division No. 10 Notes Red. ____ Plotted ____ Profile
Survey of Beach Erosion Date ____ Date ____ No. ____
Survey by Van Deren Notes J. J. E. Notes Chkd. ____ Checked ____ X-Sec.
Indexed C. Johnson Date ____ Date ____ No. ____

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21			90°		
		22			90°		
		23			90°	Range Line	77+50-S
		24			90°		
		25			90°		
		26			90°		
77+50	S-9	27		7:14	90°		

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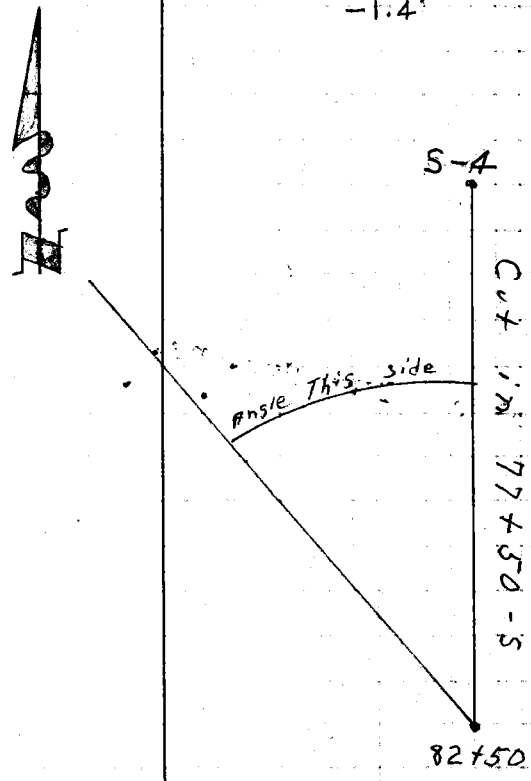
Profile No. ____ Notes Red. ____ Date ____ Plotted ____ Date ____
X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____

Job No. 2.3061 Division No. 10 Survey of Beach Erosion Study
Survey by Ken Deren Notes R.T. Date 8-9-55
Map No. ____ Checked Johnson Date ____

F.B. 2.3061 Pg. 35

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. Sight At	On	#	Color		Time	Hor. Ang.		Remarks
		1	29.9	28.5	7:09	78° 50'	2533	Zero Adj. −0.5
		2	28.9	27.5		78° 17'	2411	Boat Adj. +1.0
		3	28.2	26.8		77° 12'	2201	Tide −1.9
		4	27.5	26.1		76° 40'	2110	−1.4
		5	26.7	25.3		76° 00'	2005	
		6	26.0	24.6		75° 14'	1897	
		7	26.3	24.9		74° 15'	1773	
82+50	S-4	8	26.1	24.7		73° 36'	1699	
		9	25.4	24.0		72° 30'	1586	
		10	24.9	23.5		71° 27'	1490	
		11	24.5	23.1		70° 27'	1408	
		12	23.4	22.0		68° 40'	1280	
		13	22.4	21.0		67° 29'	1206	
		14	21.4	20.0		65° 53'	1117	
		15	20.5	19.1		64° 39'	1055	
		16	19.5	18.1		63° 33'	1005	
		17	18.2	16.8		62° 18'	952	
		18	17.4	16.0		61° 07'	906	
		19	15.9	14.5		59° 47'	859	
		20	14.9	13.5		58° 35'	819	



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STATION Inst. At	Sight On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks	
		21	13.9 ✓	12.5		5[illegible]	46	793 ✓	Cut in 77+50-S
		22	12.9 ✓	11.5		5[illegible]	[illegible]3	771 ✓	
		23	12.2 ✓	10.8		5[illegible]	53	738 ✓	
		24	10.7 ✓	9.3		54	[illegible]8	692 ✓	
		25	10.4 ✓	9.0		5[illegible]	56	662 ✓	
		26	9.3 ✓	7.9		5[illegible]	[illegible]	636 ✓	
82+50-S	S-4	27	8.1 ✓	6.7	7:14	5[illegible]	[illegible]8	613 ✓	

F.B. 2301 Pg. 36 Job No. 0300.02 Division No. 10 Notes Red. Plotted No. Profile
Survey of Beach Erosion Study Date 8-9-55 Date X-Sec.
Survey by Van Deren Notes P.T. Notes Chkd. Checked No.
Indexed C. Johnson Date Date Date

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 67+50		Sight on 72+50
77+50 T.P. 300 FT R	12 43	17 36		4 93			
T.P.	3 08	18 33	2 11	15 25			
72+50			+11 3	29 6			
14 FT L.			+11 4	29 7	TOE SLOPE		
26 FT RIGHT			+11 4	29 7			TOP SLOPE
62 " "			1 5	16 8			TOE "
100 " "			2 9	15 4			
200 " "			4 9	13 4			BRK
270 " "			10 5	7 8			
300 " "			12 6	5 7			
T.P. 311 " "	2 22	7 43	13 12	5 21			
			5 4	2 0	35° 58'	363	
			7 4	0 0	40 40	430	
			12 6	-5 2	49 19	582	
			17 0	-9 6	55 09	718	
			20 0	-12 6	57 31	785	

Inshore
S. 72+50

Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 37
X-Sec. ____ Date ____ Survey of BEACH EROSION STUDIES
No. ____ Date ____ Notes Chkd. ____ Checked ____ Survey by DREIER ENGLISH Notes G.E.D. & E.D. Date 8-9-55
Map No. ____ Date ____ Inspected ____ Date ____

F.B. 2301 PG. 38 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by E.E. & G.D. Notes E.E. & G.D. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

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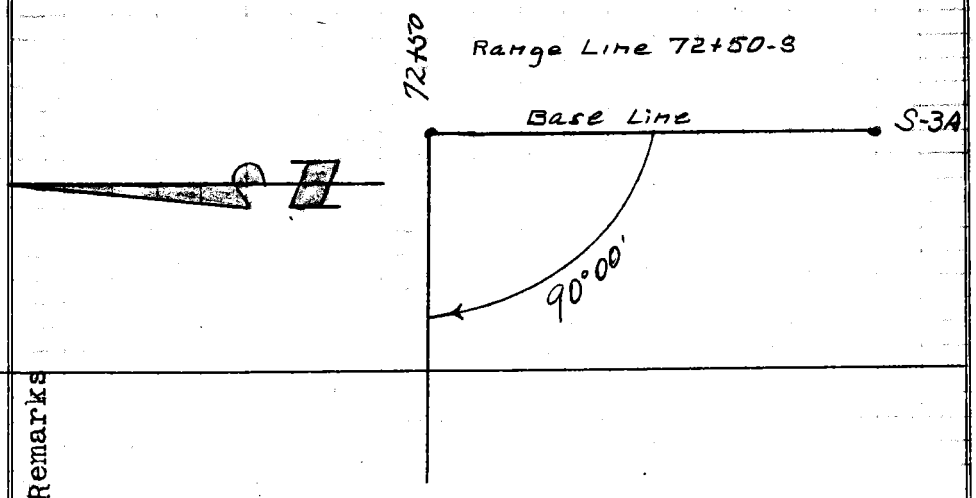
Profile	Notes Red.	Plotted	Job No. 8300.02	Division No. 10	F. B. 2301	Pg. 39
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by VanDeren	Notes J.J.E.	Date 8-9-55	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight CH	#	Color	Time	Hor. Ang.	
	1		7:29	90°	
	2			90°	
	3			90°	
	4			90°	
	5			90°	
	6			90°	
	7			90°	
	8			90°	
	9			90°	
	10			90°	
	11			90°	
	12			90°	
	13			90°	
	14			90°	
	15			90°	
	16			90°	
	17			90°	
	18			90°	
	19			90°	
	20			90°	

S-3A

72+50

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

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L398 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. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21			90°		
		22			90°		
		23			90°	Range Line	72+50-S
		24			90°		
		25			90°		
		26			90°		
72+50	S-3A	27			90°		
		28			90°		
		29		7:35	90°		

F. B. 2301 Pg. 40 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Date Date No.
Survey by Van Deren Notes J.J.E. Notes Chkd. Checked X-Sec.
Indexed A. C. Johnson Date Date Date No.

76L298 307 8-53

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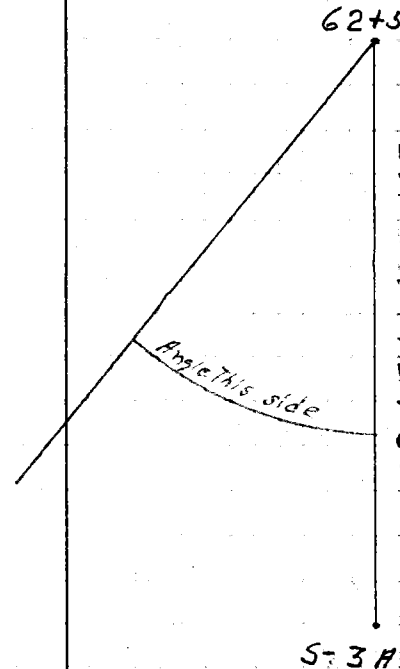
Do not extend notes this side of this line.

STATION Inst. Sight At	On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks
		1	30.9	29.4	7:29	68° 30'	2539	
		2	30.0	28.5		67° 59'	2473	
		3	29.6	28.1		67° 18'	2391	
		4	28.5	27.0		66° 23'	2287	
		5	28.4	26.9		65° 36'	2205	
		6	27.9	26.4		64° 36'	2106	
		7	26.8	25.3		63° 32'	2009	
		8	26.6	25.1		62° 43'	1939	
62+50	S-3A	9	26.9	25.4		61° 31'	1843	
		10	26.7	25.2		60° 24'	1760	
		11	26.5	25.0		59° 09'	1674	
		12	25.7	24.2		57° 20'	1560	
		13	24.9	23.4		55° 17'	1443	
		14	24.0	22.5		53° 08'	1334	
		15	23.3	21.8		51° 17'	1248	
		16	22.2	20.7		49° 07'	1155	
		17	21.2	19.7		47° 11'	1079	
		18	20.5	19.0		45° 56'	1033	
		19	19.4	17.9		44° 46'	992	
		20	18.8	17.3		43° 47'	958	

Zero Adj. −0.5
Boat Adj. +1.0
Tide −2.0
−1.5



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 41
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-9-55
No. Date Date Map No. Date

76L298 307 8-53

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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	18.0 ✓	16.5		4[illegible]	40'	922 ✓ Cut in 72+50-S
		22	17.0 ✓	15.5		41	34'	887 ✓
		23	16.0 ✓	14.5		40	41'	860 ✓
		24	14.7	13.2		39	30'	824 ✓
		25	14.1 ✓	12.6		3[illegible]	[illegible]	783 ✓
		26	12.9 ✓	11.4		~~3[illegible]~~	~~[illegible]~~	~~756 ?~~ N.G.
		27	11.5 ✓	10.0		3[illegible]	[illegible]	713 ✓
62+50	S-3A	28	10.3 ✓	8.8		33	50'	670 ✓
		29	6.5 ✓?	5.0?	7:35	3[illegible]	56'	623 ✓

F.B. 2301 Pg. 42 Job No. 0300.02 Division No. 18 Notes Red. Plotted No. Profile
Survey of Beach Erosion Study Date 8-9-55 Date No. X-Sec.
Survey by Van Deren Notes R.T. Notes Chkd. Checked No.
Indexed A. C. Johnson Date Date Date

76L2[illegible]8 307 10-51

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ENGINEERING BLDG.

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

STATION	+B. S.	H. I.	-F. S.	ELEV.	Inst. at 62+50		Sight on 67+50
72+50							
T.P. 311 FT.R	13 53	18 74		521			
T.P.	3 89	20 31	2 32	1642			
67+50			+93	296			
11 FT. L.			+100	303	TOE SLOPE		
24 FT RIGHT			+89	292			TOP SLOPE
55 " "			12	191			BOTTOM "
100 " "			48	155			BRK
200 " "			49	154			"
225 " "			67	136			"
300 " "			129	74			
T.P. 318 " "	0 30	6 57	14 04	627			
			3 6	3 0	36° 11'	366	
			6 4	0 2	41 01	435	
			7 8	-1 2	44 22	489	
			10 3	-3 7	48 59	575	
			13 4	-6 8	52 31	652	
			15 6	-9 0	54 37	704	
			17 5	-10 9	56 49	765	

Inshore
S. 67+50

Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 43
X-Sec. Notes Chkd. ____ Checked ____ Survey of BEACH EROSION STUDIES
No. ____ Date ____ Date ____ Survey by DREIER ENGLISH Notes G.E.D. & E.D. Date 8-9-55
Map No. ____ Date ____ Date ____

Inshore
S. 67+50

F.B. 2301 PG. 44 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by E.E. & G.D. Notes E.E. & G.D. 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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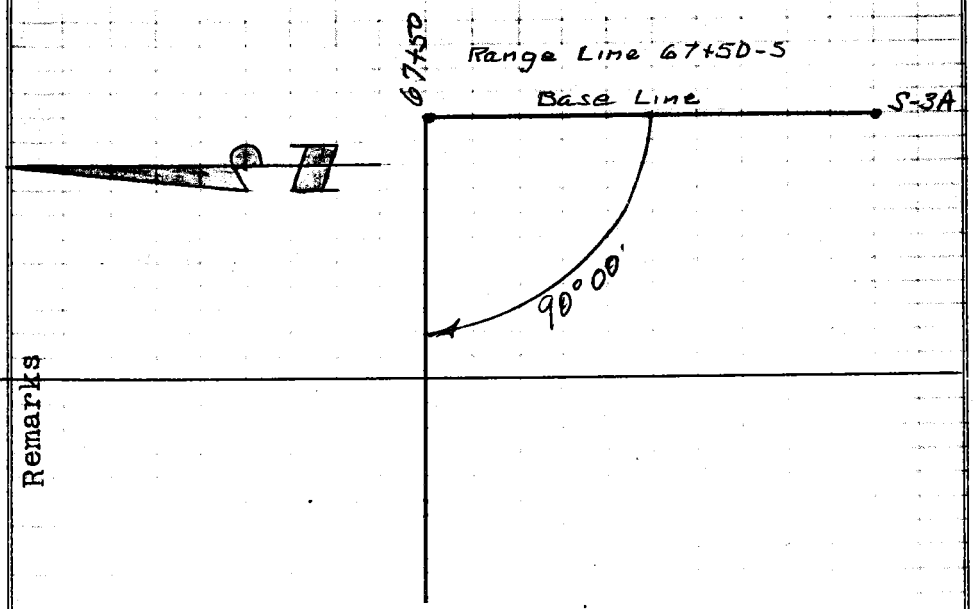
76L298 307 10-51

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301	Pg. 45
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.J.E.	Date 8-9-55	
No.	Date	Date	Map No.	Indexed Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At Ch	#	Color	Time	Hor. Ang.	
	1		7:48	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-3A

67+50

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

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76L298 307 8-53

Fr-B. 2301 Pg. 46 Job No. 030002 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

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

Indexed A. 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.

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'	
		24			90°00'	
		25		7:53	90°00'	

67+50

S-3A

Range Line 67+50

76L298 307 8-53

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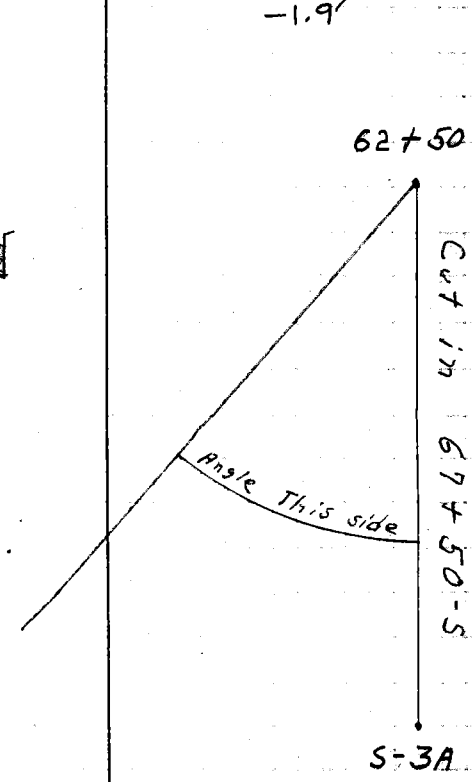
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Color AD	H. I. Color CD	F. S. Time	ELEV. Hor. Ang.		Remarks
62+50	S-3A	1	30.5	28.6	7:48	78° 53'	2545	
		2	29.7	27.8		78° 21'	2425	
		3	28.9	27.0		77° 44'	2300	
		4	28.5	26.6		77° 05'	2180	
		5	27.4	25.5		76° 23'	2064	
		6	27.8	25.9		75° 52'	1986	
		7	27.9	26.0		75° 24'	1920	
		8	27.2	25.3		74° 44'	1832	
		9	27.3	25.4		73° 48'	1721	
		10	26.8	24.9		72° 54'	1625	
		11	26.6	24.7		71° 48'	1521	
		12	25.4	23.5		70° 36'	1420	
		13	24.2	22.3		68° 53'	1295	
		14	23.0	21.1		67° 24'	1201	
		15	21.5	19.6		65° 41'	1107	
		16	20.2	18.3		64° 04'	1028	
		17	18.4	16.5		62° 17'	952	
		18	16.0	14.1		60° 00'	866	
		19	14.4	12.5		58° 21'	811	
		20	12.9	11.0		56° 36'	758	

Zero Adj. −0.6
Boat Adj. +1.0
Tide −2.3 (blue 2.1)
−1.9



Profile Notes Red ____ Plotted ____ Job No. 2300.02 Division No. 10 F. B. 2301 Pg. 47
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by VanDeren Notes R.T. Date 8-9-55
No. ____ Date ____ Date ____ Map No. ____ Date ____

76L298 307 8-53

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F.B. 2301 Pg. 46 Job No. 0304.02 Division No. 16 Notes Red. Plotted
Survey of Beach Erosion Study Date 8-9-58 Date No.
Survey by Van Dorn Notes R.T. Notes Chkd. Checked X-Sec.
Indexed L. C. Johnson Date Date Date No.
Profile

STATION	B. S.	H. I.		F. S.	ELEV.		
Inst. Sight At On	#	Color		Time	Hor. Ang.	Remarks	
	21	11.6 ✓	9.7		55° 17'	722 ✓	Cut in 67+50 -5
	22	10.3 ✓	8.4		55° 57'	684 ✓	
	23	9.0 ✓	7.1		56° 19'	647 ✓	
	24	8.1 ✓	6.2		57° 07'	620 ✓	
	25	5.7?	3.8?	7:53	58° 01'	596 ✓	
62+50							
3-A							

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 57+50		Sight on 62+50
67+50 T.P. 318 FT R.	1405	2032		627			
T.P.	461	2046	447	1585			
62+50			+83	288			
14 FT. LEFT			+90	295	BOTTOM SLOPE		
30 FT RIGHT			+73	278			TOP SLOPE
65 " "			23	182			BOTTOM "
100 " "			49	156			BRK
200 " "			48	157			"
218 " "			55	150			"
300 " "			121	84			
310 " "			125	80			
T.P. 333 " "	110	713	1443	603			
			46	25	37° 37'	385	
			73	-02	43 22	472	
			115	-44	50 24	604	
			154	-83	54 28	700	
			176	-105	56 01	742	

Inshore
S. 62+50

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 49
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by DREIER ENGLISH Notes G.E.D. & E.D. Date 8-9-55
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

F.B. 2301 PG. 50 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by E.E. & G.D. Notes E.E. & G.D. Notes Chkd. Checked X-Sec.

Indexed Date Date Date Date No.

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

761.298 307 10-51

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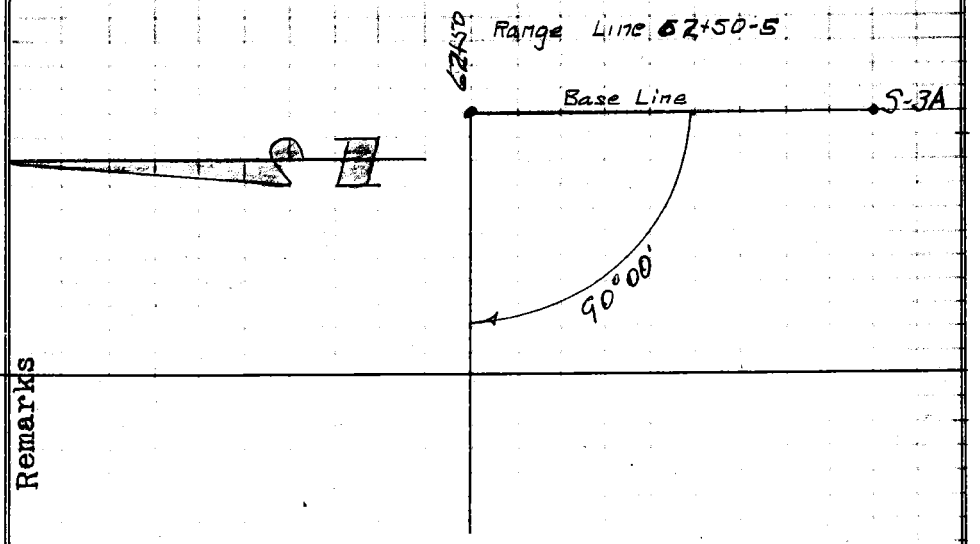
Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 51

Date ____ Date ____ Survey of Beach Erosion

X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by Van Deren Notes J.J.E. Date 8-19-55

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



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		8:05	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-3A

62+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	
	21			90° 00'		
	22			90° 00'		
	23			90° 00'	Range Line	52+50-S
	24			90° 00'		
	25			90° 00'		
	26		8:11	90° 00'		
52+50 S-3-A						

F. B. 2301 Pg. 52 Job No. 8300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Date Date No.
Survey by Van Deren Notes J. J. E. Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

76L298 307 8-53

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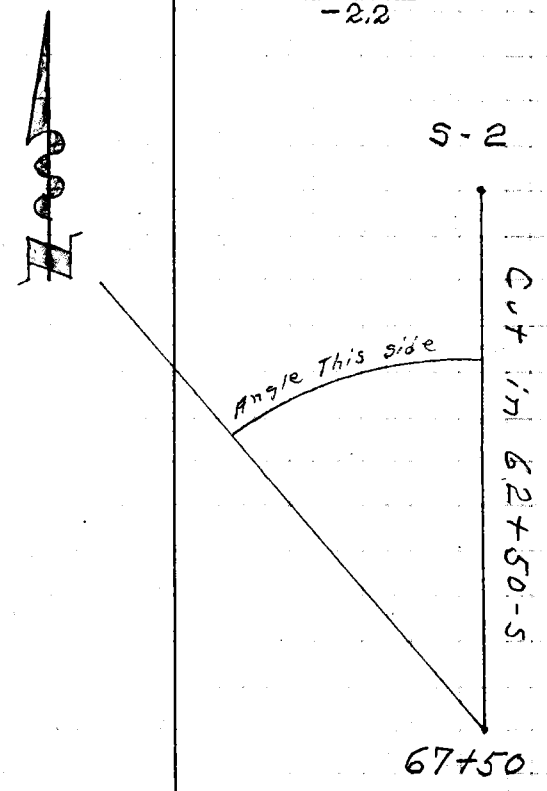
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks
		1	31.4	29.2	8:05	79° 30'	2698	Zero Adj. −0.7
		2	30.7	28.5		79° 00'	2572	Boat Adj. +1.0
		3	30.0	27.8		78° 05'	2369	Tide −2.5 (blue −2.3)
		4	29.4	27.2		77° 26'	2243	−2.2
		5	28.6	26.4		76° 32'	2088	
		6	27.9	25.7		75° 37'	1950	
		7	27.9	25.7		74° 52'	1849	
67+50	S-2	8	27.7	25.5		73° 58'	1740	
		9	27.1	24.9		73° 11'	1654	
		10	26.4	24.2		72° 00'	1539	
		11	26.1	23.9		70° 55'	1445	
		12	25.4	23.2		69° 40'	1349	
		13	24.9	22.7		68° 16'	1254	
		14	23.7	21.5		66° 31'	1151	
		15	22.1	19.9		64° 44'	1059	
		16	19.3	17.1		63° 33'	1005	
		17	18.0	15.8		62° 14'	950	
		18	17.2	15.0		61° 02'	903	
		19	16.3	14.1		59° 44'	857	
		20	15.3	13.1		59° 04'	834	



Profile Notes Red. Plotted Job No. 2301.02 Division No. 10 F.B. 2301 Pg. 53
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Ken Deren Notes P.T. Date 8-9-55
No. Date Date Map No. Date

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	13.8	11.6		[illegible]	798	Cut in 62+50-S
		22	12.6	10.4		[illegible]	759	
		23	11.6	9.4		[illegible]	718	
		24	10.6	8.4		[illegible]	664	
		25	9.9	7.7		[illegible]	657	
		26	Void		8:11	[illegible]	648	
67+50	S-2							

F.B. 2301 Pg. 59 Job No. 0300.02 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Study Date 8-9-55 Date No.
Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.
Indexed E. C. Johnson Date Date Date No.
Profile

76L298 307 8-53

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

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 62+50		Sight on 57+50
62+50 T.P. 33 FT. R.	14 50	20 53		6 03			
T.P.	1 72	19 60	2 65	17 58			
57+50			+85	28 1			
15 FT. L.			+88	28 4	TOE SLOPE		
26 FT. RIGHT			+83	27 9			BRK
38 " "			+73	26 9			TOP RETAINING WALL
39 " "			+38	23 4			SAND AT BOT. WALL
50 " "			+27	22 3			BRK
88 " "			30	16 6			"
100 " "			40	15 6			"
156 " "			52	14 4			"
200 " "			46	15 0			
224 " "			45	15 1			BRK
275 " "			81	11 5			"
300 " "			99	9 7			
322 " "			119	7 7			BRK
T.P. 357 " "	1 40	6.38 ~~5 58~~	14 62	4 98			
			4 7	1.7 ~~0 9~~	37 54	389	
			7 4	-10 ~~1 8~~	43 10	469	
			10 0	-36 ~~4 4~~	47 35	547	
			13 0	-66 ~~7 4~~	51 27	627	

INSHORE
S. 57+50

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 55
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
Notes Chkd. ____ Checked ____ Survey by DREIER ENGLISH Notes GED. & FD Date 8-9-55
Date ____ Date ____ Map No. ____ Date ____

F. B. 2301 Pg. 56 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

Survey by E.E. & G.D. Notes E.E. & G.D. Notes Chkd. _____ Checked _____ X-Sec.

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

76L298 307 8-53

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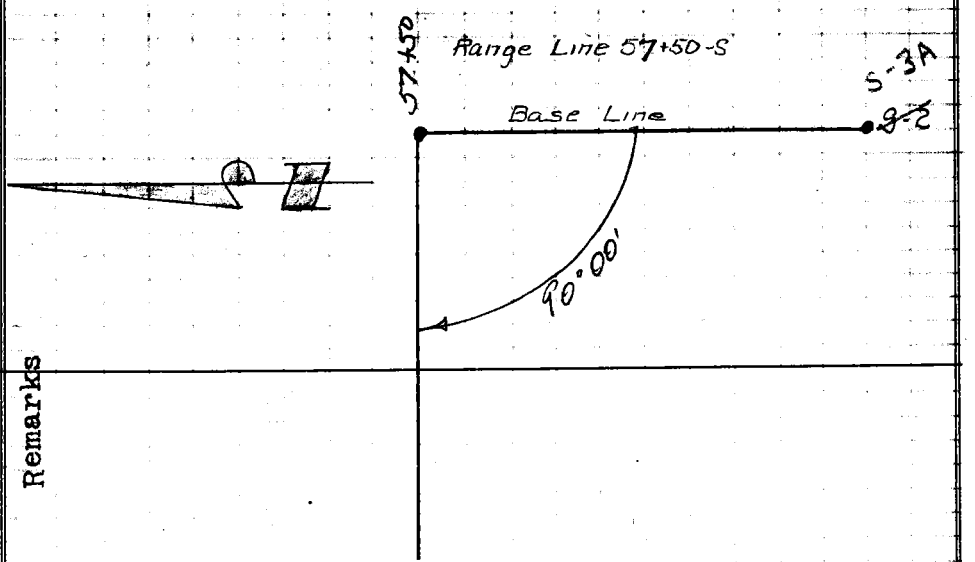
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	
		6.38			
		16.2		-9.8	
		18.5		-12.1	
				54.93	707
				57.02	771

Profile No.	Notes Red.	Plotted	Job No. 30002	Division No. 10	F. B. 2301 Pg. 57
	Date	Date	Survey of Beach Erosion		
X-Sec. No.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.E.	Date 8-9-55
	Date	Date	Map No.	Index G. Johnson	Date



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight On	#	Color	Time	Hor. Ang.	
	1			90°	
	2			90°	
	3			90°	
	4			90°	
	5			90°	
	6			90°	
	7			90°	
	8			90°	
	9			90°	
	10			90°	
	11			90°	
	12			90°	
	13			90°	
	14			90°	
	15			90°	
	16			90°	
	17			90°	
	18			90°	
	19			90°	
	29			90°	
~~S-2~~ S-3A					
57+50					

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76 298 307 8-53

76L298 307 8-53

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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			90°		
		22			90°		
		23			90°	Range Line	57+50-S
		24			90°		
		25		8:28	90°		
57+50	5-2						

F. B. 2301 Pg. 58 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Date Date No.
Survey by Van Deren Notes J.J.E. Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

761 298 307 8-53

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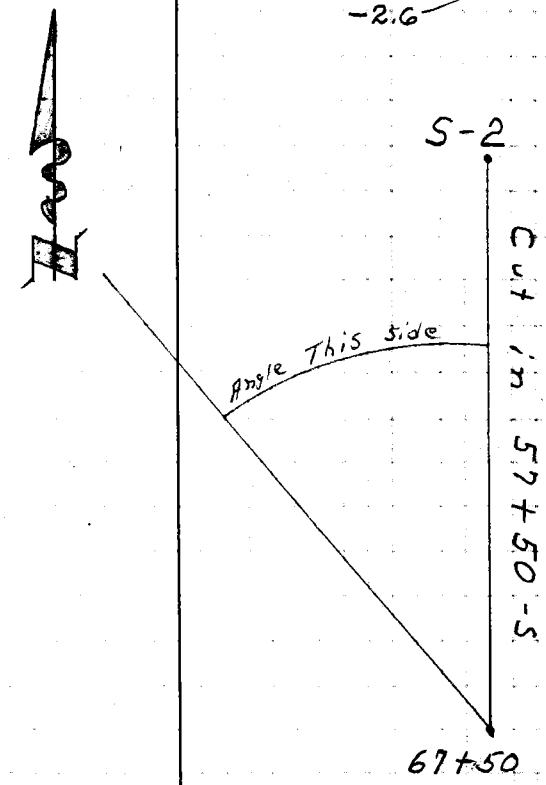
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks
		1	31.4	28.8	8:23	68° 08'	2492	
		2	30.9	28.3		66° 50'	2337	
		3	29.5	26.9		65° 46'	2222	
		4	29.5	26.9		64° 40'	2112	
		5	28.8	26.2		63° 23'	1996	
		6	28.6	26.0		62° 08'	1891	
		7	28.2	25.6		61° 16'	1824	
		8	28.0	25.4		60° 16'	1751	
67+50	S-2	9	27.6	25.0		59° 10'	1675	
		10	27.2	24.6		57° 20'	1560	
		11	26.6	24.0		55° 41'	1465	
		12	26.1	23.5		53° 54'	1371	
		13	24.8	22.2		51° 55'	1276	
		14	23.4	20.8		49° 56'	1189	
		15	22.0	19.4		47° 45'	1101	
		16	20.7	18.1		45° 52'	1031	
		17	19.2	16.6		43° 47'	958	
		18	17.3	14.7		41° 48'	894	
		19	15.6	13.0		39° 56'	837	
		20	14.2	11.6		38° 29'	795	

Zero Adj. -0.9
Boat Adj. +1.0
Tide -2.7 (blue -2.5)
-2.6



Profile Notes Red. Plotted Job No. 2300.2 Division No. 10 F.B. 2301 Pg. 59
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by VanDeren Notes R.T. Date 8-9-55
No. Date Date Map No. Indexed Date

76L298 307 8-53

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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	13.1	10.5		[illegible]	759 ✓ Cut in 57+50-S
		22	11.7	9.1		[illegible]	717 ✓
		[illegible]	10.3	7.7		[illegible]	683
		[illegible]	9.1	6.5		[illegible]	653
		[illegible]	7.4	4.8	8:28	[illegible]	598
62+50	S-2						

F. B. 2301 PG. 60 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 8-9-55 Date No.
Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.
Indexed [illegible] Date Date Date No.

761 298 307 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-2	Sight on 52+50
57+50 T.P. 357 FT. R	14 48	19 46		4 98		
T.P.	11 91	30 88	0 49	18 97		FB2100-167
S-2	4 73	33 09	2 55	28 ~~33~~ 36	S-2 ELEV 28.359	C.S. BRASS CAP MON.
52+50			4 40	28 69	PAVEMENT	
20 FT. L.			3 73	29 36	EDGE OF PAV. & TOE OF SLOPE	
32 FT. RIGHT			6 19	26 90		TOP RETAINING WALL
32.5 " "			10 2	22 9		SAND AT BOT. OF WALL
42 " "			11 4	21 7		BRK
T.P.	0 45	21 62	11 92	21 17		
68 FT. R.			34	18 2		BRK
100 " "			52	16 4		
158 " "			68	14 8		BRK - LOW
200 " "			62	15 4		" - TOP
226 " "			75	14 1		"
268 " "			107	10 9		"
300 " "			125	9 1		"
327 " "			140	7 6		"
T.P. 331 " "	0 40	7 78	14 24	7 38		
		7 8	4 3	3 5	44° 47' 370 ✓	
			5 4	2 4	47 06 401 ✓	
			7 0	0 8	50 08 447 ✓	

INSHORE
S. 52+50

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 61
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by DREIER ENGLISH Notes GEB & ED Date 8-9-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F. S. 2301 Pg. 62 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

Survey by E.E. & G.D. Notes E.E. & G.D. Notes Chkd. _____ Checked _____ X-Sec.

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

STATION	B. S.	H. I.	F. S.	ELEV.
		7		
		8		
		9		
		10		
		12		
		15		
		18		
				54 02 514
				56 53 572
				57 19 629
				61 42 693
				64 14 773

76L298 307 8-53

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726 Los Angeles County Engineering Bldg.

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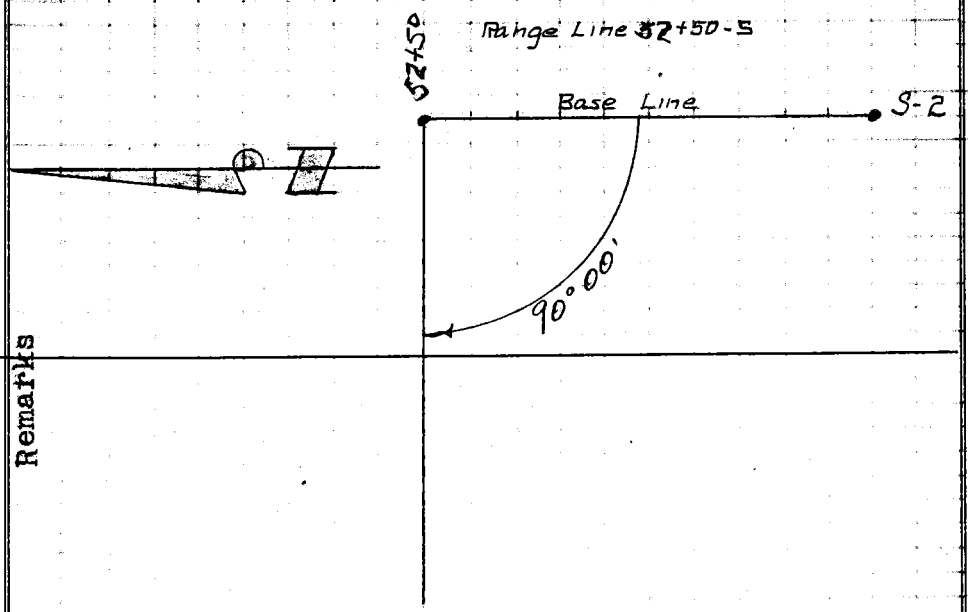
F. B. 2301 Pg. 63

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.J.E. Date 8-9-55
	Date	Date	Map No. Indexed G. Johnson Date



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

S-2

52+50

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761 298 307 8-53

F. B. 2301 Pg. 69 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by Van Deren Notes V.N.E Notes Chkd. Checked X-Sec.

Indexed A. 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.

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
52+50						
5-2	21		8:52	90°		
					Range Line 52+50-S	

761298 307 8-53

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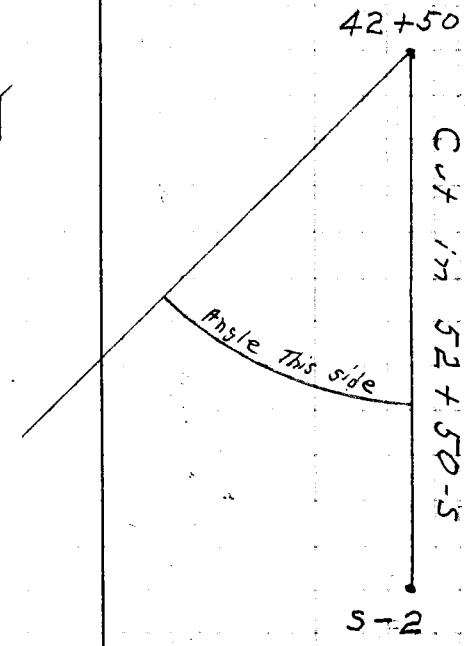
Do not extend notes this side of this line.

STATION Inst. Sight At	On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks
		1	31.0	28.0	8:48	67° 48'	2450	
		2	30.6	27.6		66° 34'	2307	
		3	29.9	26.9		65° 10'	2161	
		4	29.3	26.3		63° 30'	2006	
		5	28.7	25.7		61° 49'	1866	
		6	28.6	25.6		60° 00'	1732	
		7	27.7	24.7		57° 34'	1574	
42+50	S-2	8	26.5	23.5		54° 56'	1425	
		9	25.3	22.3		52° 07'	1285	
		10	23.5	20.5		49° 09'	1157	
		11	22.1	19.1		46° 49'	1066	
		12	20.2	17.2		44° 28'	982	
		13	18.8	15.8		42° 48'	926	
		14	17.4	14.4		41° 25'	882	
		15	16.6	13.6		40° 17'	848	
		16	15.2	12.2		39° 00'	810	
		17	13.6	10.6		37° 14'	760	
		18	12.2	9.2		35° 42'	719	
		19	10.6	7.6		34° 21'	683	
		20	9.7	6.7		33° 16'	656	

Zero Adj. -0.9
Boat Adj. +1.0
Tide -3.1 (blue -2.9)
-3.0



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 65
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-9-55
No. Date Date Map No. Date

F. B. 2301 PG. 66 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-9-55 Date No.

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

Indexed A. C. Johnson Date Date Date No.

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.	
42+50					
S-2					
	21	9.2	6.2	8:52	626 V Cut in 52+50-S

761 298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 42+50	Sight on 47+50
52+50 T.P. 331 FT.R.	12 72	20 10		7 38		
T.P.	12 02	27 07	5 05	15 05		
B.M. U.S. 3802	3 61	30 29	0 38	26 ~~69~~ 68	U.S 3802 V-767 ELEV.	23.881
47+50			1 58	28 71	PAVEMENT	2 800 26.681
20 FT. L.			0 81	29 48	EDGE OF PAV. & TOE OF	SLOPE
31 FT. RIGHT			3 20	27 09		TOP RETAINING WALL
32 " "			7 4	22 9		SAND OUTSIDE "
40 " "			8 8	21 5		BRK
62 " "			12 8	17 5		"
100 " "			14 5	15 8		
T.P.	2 79	18 51	14 57	15 72		
153 FT. R			4 2	14 3		BRK
200 " "			3 6	14 9		TOP BRK
215 " "			3 8	14 7		
262 " "			7 2	11 3		
300 " "			8 2	10 3		
T.P. 334 " "	1 82	8 60	11 73	6 75		
			5 4	3 2	36° 17' 367 ✓	
			7 7	0 9	40 32 428 ✓	
			9 8	-1 2	44 54 498 ✓	
			11 9	-3 3	48 16 561 ✓	

INSHORE
S.-47+50

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 67
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by DREIER ENGLISH Notes G.E.D. & E.D. Date 8-9-55
No. Date Date Map No. Indexed C. Johnson Date

F. B. 2301 PG. 68

Job No. 030002 Division No. 10 Notes Red. ____ Plotted ____ Profile

Survey of Beach Erosion Date ____ Date ____ No. ____

Survey by E.E. & G.D. Notes E.E. & G.D. Notes Chkd. ____ Checked ____ X-Sec.

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

STATION	B. S.	H. I.	F. S.	ELEV.
		8 6	175	-.8
			178	
			205	11 9

51° 28' 628

53 56 687

55 58 740

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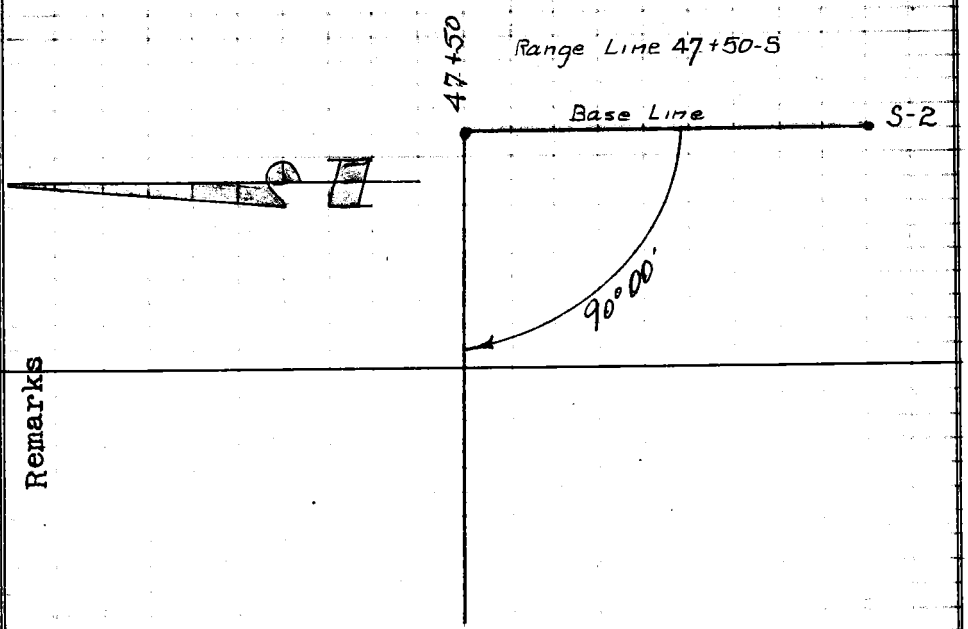
76L298 707 8-53

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301 Pg. 69
No.	Date	Date	Survey of Beach Erosion		
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.J.E.	Date 8-9-55
No.	Date	Date	Map No.	Indexed C. Johnson	Date



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At Sight On	#	Color	Time	Hor. Ang.	
	1		9:02	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-2

47+50

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

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F. B. 2301 Pg. 70 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

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

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

STATION Inst. Sight At On	B. S. # Color	H. I. Time	F. S. Hor. Ang.	ELEV.	Remarks
47+50					
S-2					
	21		9.07	90°00'	
	22			90°00'	
					Range Line 49+50-S

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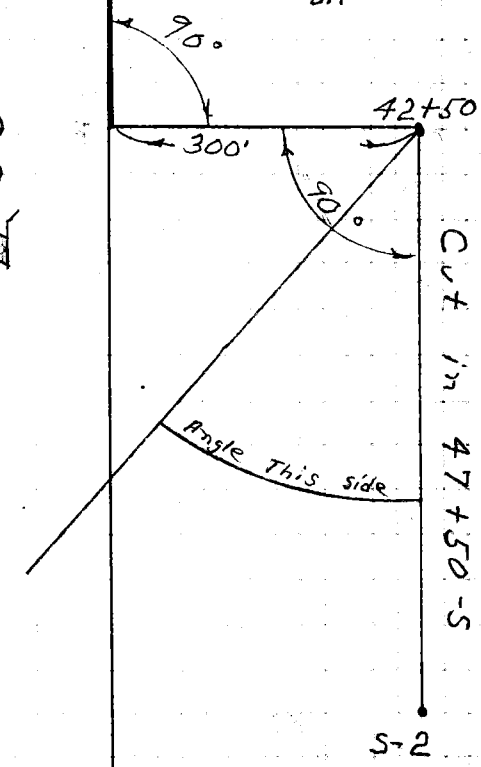
STATION At	Inst. Sight On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks
42+50	S-2	1	31.7	28.6	9:02	78° 59'	2568	Zero Adj. -0.9
		2	30.7	27.6		77° 41'	2290	Boat Adj. +1.0
		3	29.8	26.7		76° 47'	2129	Tide -3.2
		4	29.1	26.0		75° 35'	1945	-3.1
		5	28.9	25.8		74° 28'	1799	
		6	28.7	25.6		73° 10'	1653	
		7	28.0	24.9		71° 49'	1522	
		8	26.7	23.6		70° 00'	1374	
		9	25.6	22.5		68° 24'	1263	
		10	23.3	20.2		65° 48'	1113	
		11	22.3	19.2		64° 11'	1034	
		12	20.9	17.8		62° 46'	972	
		13	19.9	16.8		61° 58'	939	
		14	18.4	15.7		60° 52'	897	
		15	17.5	14.4		59° 40'	855	
		16	16.0	12.9		58° 08'	804	
		17	14.4	11.3		56° 49'	765	
		18	12.2	9.1		54° 38'	704	
		19	10.1	7.0		52° 38'	655	
		20	8.8	5.7		51° 20'	625	



Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 71
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes P.T. Date 8-9-55
No. ____ Date ____ Date ____ Map No. ____ Indexed T. Johnson Date ____

F.B. 2301 Pg. 72 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-9-55 Date No.

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

Indexed A. 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. Sight At On	#	Color	Time	Hor. Ang.		Remarks
42+50						
S-2						
	21	7.1	4.0		578	Cut in 47+50-S
	22	6.0	2.9	9:07	541	

761 298 307 8-53

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

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 37+50	Sight on 42+50
47+50					300' off	300' off
T.P. 334 FT. R.	1234	1912		678		
T.P.	1199	3082	029	1883		
42+50			225	2857	PAV.	
18 FT. L.			095	2987	EDGE PAV. & BOTTOM OF SLOPE	
31 FT. RIGHT			403	2679	TOP CONC. RETAINING WALL	
315 " "			68	240	SAND BOTTOM OF WALL	
42 " "			85	223		BRK
68 " "			133	175		"
100 " "			149	159		
T.P. " "	188	1841	1429	1653		
157 " "			39	145		BRK
200 " "			33	151		"
234 " "			53	131		"
277 " "			70	114		"
300 " "			82	102		
T.P. 319 "	-014	876	951	890		
		78	49	39	6° 12' 54 + 300	= 354
			66	22	10 47 95	395
			84	~~06~~ 04	16 07 144	444
			99	-11	21 26 196	496
			120	-32	26 57 254	554

INSHORE
S. 42+50

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 73
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by DREIER ENGLISH Notes GED & ED Date 8-9-55
No. Date Date Map No. Inspector C. Johnson Date

F. B. 2301 PG. 74 | Job No. 0300.02 | Division No. 10 | Notes Red. ____ | Plotted ____ | Profile

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

Survey by E.E. & G.D. | Notes E.E. & G.D. | Notes Chkd. ____ | Checked ____ | X-Sec.

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

STATION	B.S.	H.I.	F.S.	ELEV.	
					314 367
					614 667

Do not extend notes this side of this line.

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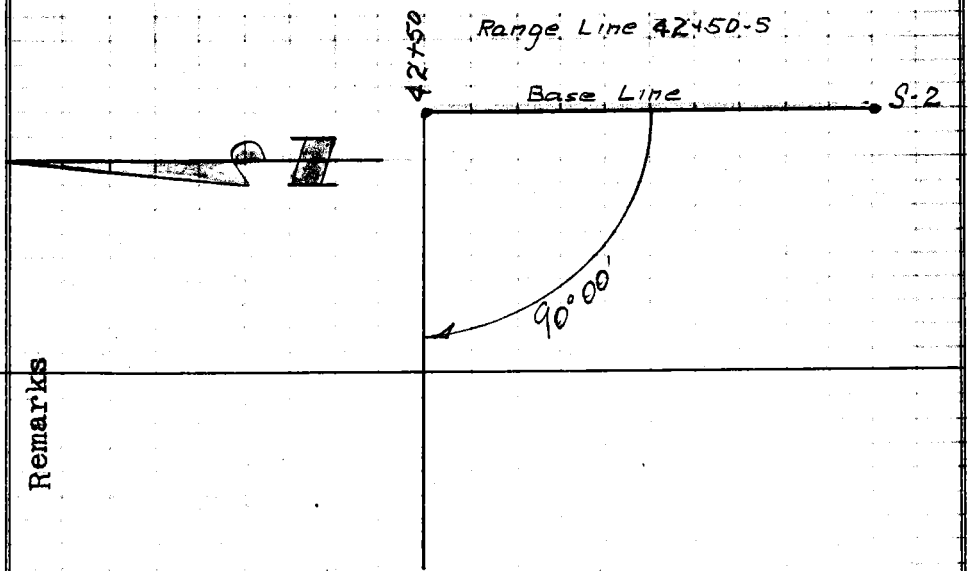
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

76L298 307 8-53

Profile	Notes Red.	Plotted	Job No. 0300-02	Division No. 10	F. B. 2301	Pg. 75
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.J.E.	Date 8-9-55	
No.	Date	Date	Map No.	Indexed G. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		9:17	90°	
	2			90°	
	3			90°	
	4			90°	
	5			90°	
	6			90°	
	7			90°	
	8			90°	
	9			90°	
	10			90°	
	11			90°	
	12			90°	
	13			90°	
	14			90°	
	15			90°	
	16			90°	
	17			90°	
	18			90°	
			9:22		

S-2

42+50

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761 298 307 8-53

F. B. 2301 Pg. 76 Job No. 8300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

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

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

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

$2+50

S-2

Range Line 42+50-S

76L298 307 8-53

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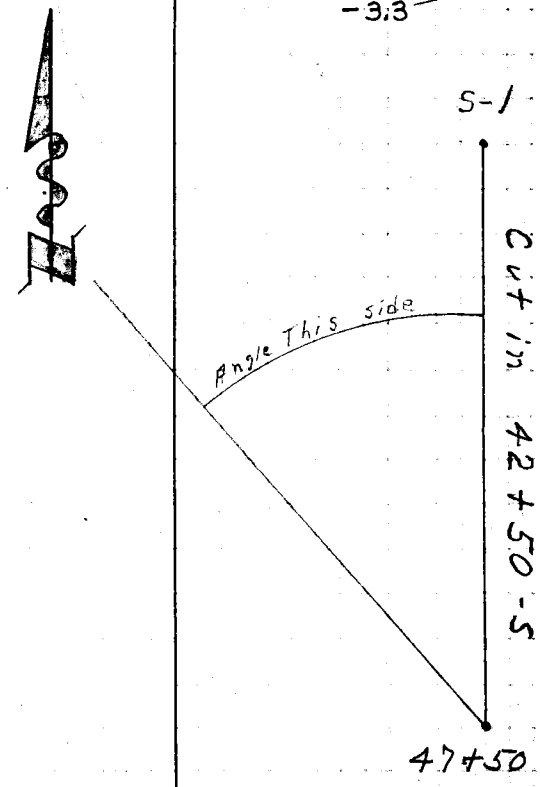
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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 Inst. At	Sight On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.	Remarks
		1	30.7	27.4	9:17	77° 20'	2225
		2	30.5	27.2		76° 43'	2118
		3	30.2	26.9		76° 03'	2013
		4	29.7	26.4		75° 08'	1884
		5	29.2	25.9		73° 41'	1708
		6	28.6	25.3		72° 20'	1570
		7	28.1	24.8		70° 49'	1437
		8	27.1	23.8		68° 54'	1296
47+50	S-1	9	25.1	21.8		66° 34'	1154
		10	22.2	18.9		63° 09'	988
		11	20.1	16.8		61° 43'	929
		12	18.7	15.4		60° 12'	873
		13	16.1	12.8		58° 06'	803
		14	14.4	11.1		56° 36'	758
		15	12.9	9.6		54° 57'	713
		16	11.4	8.1		53° 51'	684
		17	9.8	6.5		52° 28'	651
		18	8.3	5.0	9:22	50° 30'	607

Zero Adj. -0.9
Boat Adj. +1.0
Tide -3.4
-3.3



Profile Notes Red. Plotted Job No. 230002 Division No. 10 F.B. 2301 Pg. 77
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes P.T. Date 8-9-55
No. Date Date Map No. Date

F. B. 2301 Pg. 78 Job No. 0300.01 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-9-55 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
At Inst. Sight On	#	Color	Time	Hor. Ang.		

Do not extend notes this side of this line.

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76L298 307 8-53

761 298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 32+50	Sight on 37+50
42+50					300' off	300' off
T.P. 319 FT. R.	8 12	17 02		8 90		
T.P.	4 30	17 14	4 18	12 84		
37+50					STATION BACK OF FENCE ON FILL	
166 FT. RT			+64	23 5		TOP OF FILL BANK
175 " "			03	168		BOTTOM OF FILL BANK
200 " "			27	14 4		
230 " "			48	123		
300 " "			65	106		
320 " "			73	98		BRK
T.P. " "	0 29	9 15	8 28	8 86		
			6 2	3 0	9° 09' ~~81~~ 381	
			8 6	0 6	15 59 ~~143~~ 443	
			10 6	-1 4	24 28 ~~228~~ 528	
			13 4	-4 2	31 36 ~~308~~ 608	
			17 0	-7 8	37 20 ~~381~~ 681	
			20 5	-11 3	42 02 ~~451~~ 751	

INSHORE
S. 37+50

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 79
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by DREIER ENGLISH Notes G.E.D. Date 8-9-55
No. Date Date Map No. Indexed Date

Date

F. B. 2301 Pg. 80 Job No. 0300.02 Division No. 10. Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by EF & G.D. Notes E.E. & G.D. 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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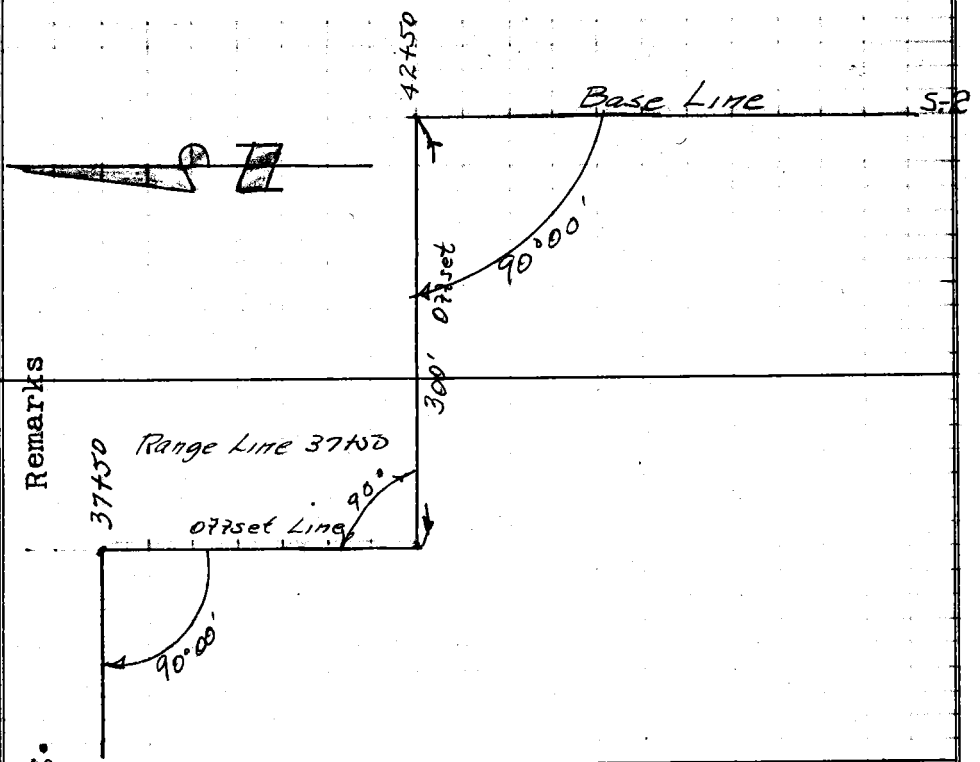
Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301	Pg. 81
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by VanDeren	Notes J.J.C.	Date 8-9-53	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		9:44	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'	
				9:48	

S-2

37+50

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

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760298 307 8-53

F.B. 2301 Pg. 82 | Job No. 9300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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76L298 307 8-53

76 298 307 8-53

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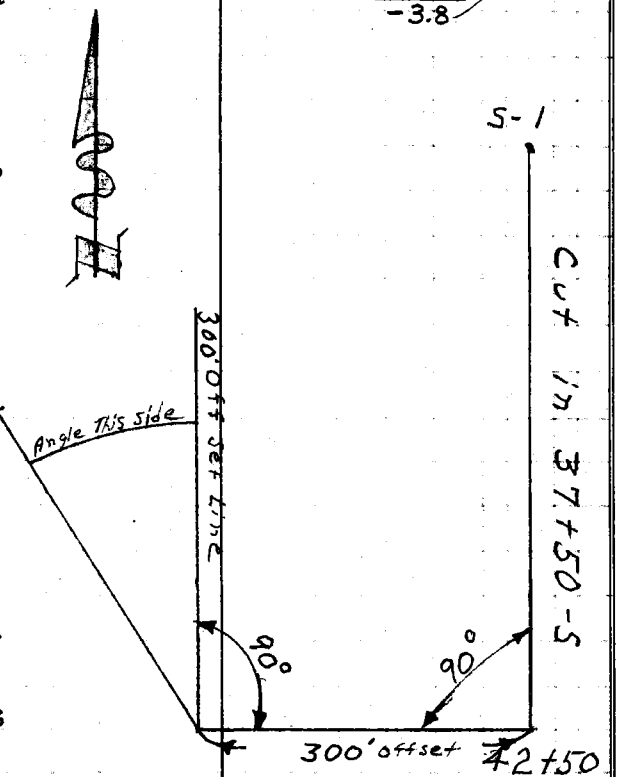
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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
								300' offset added
		1	30.7 ✓	26.9	9:44	74° 00'	~~1744~~ ✓ 2044	
		2	30.0 ✓	26.2		72° 11'	~~1556~~ ✓ 1856	
		3	29.8	26.0		70° 15'	~~1393~~ ✓ 1693	
		4	28.9 ✓	25.1		67° 44'	~~1221~~ ✓ 1521	
		5	27.8 ✓	24.0		64° 29'	~~1048~~ ✓ 1348	
		6	26.5 ✓	22.7		60° 53'	~~898~~ ✓ 1198	
		7	24.5 ✓	20.7		58° 00'	~~800~~ ✓ 1100	
42+50	S-1	8	23.0 ✓	19.2		55° 27'	~~726~~ ✓ 1026	
		9	21.7 ✓	17.9		53° 15'	~~670~~ ✓ 970	
		10	20.6 ✓	16.8		51° 18'	~~624~~ 924	
		11	19.9 ✓	16.1		49° 40'	~~589~~ ✓ 889	
		12	18.7 ✓	14.9		47° 27'	~~545~~ ✓ 845	
		13	17.3	13.5		45° 35'	~~510~~ ✓ 810	
		14	15.2 ✓	11.4		43° 04'	~~467~~ ✓ 767	
		15	13.5 ✓	9.7		40° 26'	~~426~~ ✓ 726	
		16	11.7 ✓	7.9		38° 08'	~~393~~ ✓ 693	
		17	9.8 ✓	6.0		34° 04'	~~338~~ ✓ 638	
		18	8.5 ✓	4.7	9:48	32° 23'	~~317~~ ✓ 617	
		19	7.7 ✓	3.9		28° 49'	~~275~~ ✓ 575	

Zero Adj. −1.0
Boat Adj. +1.0
Tide −3.8
−3.8



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 83
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 8-9-55
No. ____ Date ____ Date ____ Map No. ____ Date ____

F.B. 2301 PG. 84 Job No. 030002 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-9-55 Date _____ No. _____

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

Indexed _____ 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

761 298 307 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 30+00	Sight on 32+50
37+50 T.P.	8 10	16 96		8 86	300' Off	300' Off
T.P.	5 31	17 53	4 74	12 22		
32+50					STATION BACK OF FENCE IN CONSTRUCTION AREA	
162 FT. R.			+13 0	30 5		TOP FILL BANK
184 FT. R.			15	16 0		BOTTOM FILL BANK
200 " "			27	14 8		
225 " "			50	12 5		
250 " "			57	11 8		
300 " "			55	12 0		
330 " "			76	9 9		
T.P. 345 " "	0 77	9 64	8 66	8 87		
			6 8	2 8	22° 31' ~~104~~ 404	
			8 6	1 0	29 26 ~~141~~ 441	
			10 6	-1 0	37 19 ~~191~~ 491	
			11 6	-2 0	43 19 ~~236~~ 536	
			13 5	-3 9	48 08 ~~279~~ 579	
			15 9	-6 3	52 01 ~~320~~ 620	
			20 0	-10 4	55 47 ~~368~~ 668	

INSHORE
S 32+50

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 85
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by DREIER ENGLISH Notes GEO & ED Date 8-9-55
No. Date Date Map No. Indexed Johnson Date

F. B. 2301 Pg. 86 | Job No. 0300.02 | Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion | Date | Date | No.

Survey by E.E. & G.D. | Notes EE. & G.D. | 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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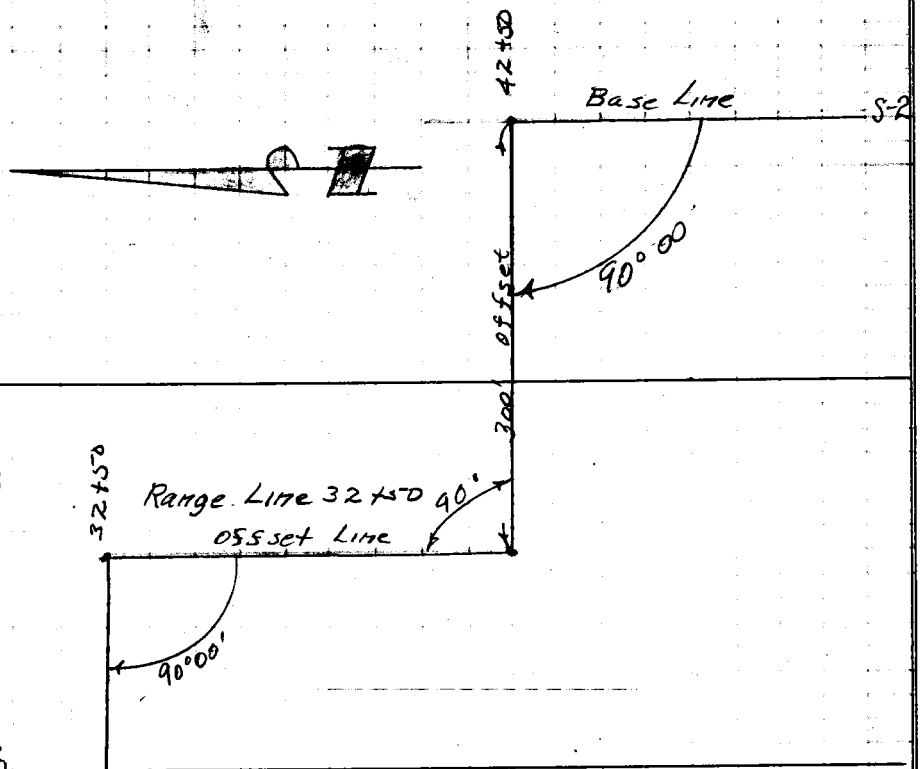
Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301	Pg. 87
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.J.E.	Date 8-9-55	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		10:01	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'	
				10:05	

S-2

32+50

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

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761 298 307 8-53

F.B. 230' PG. 88 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

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

Indexed Date Date Date No.

761.298 307 8-53

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

761298 307 8-53

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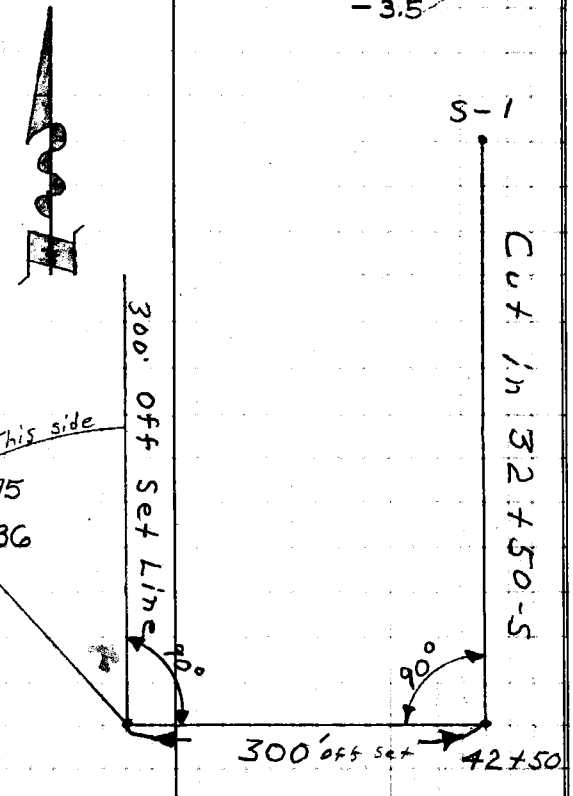
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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
42+50	S-1	1	29.8	26.3	10:01	58° 45'	~~1648~~ 1948	Zero Adj. -0.5
		2	30.0	26.5		56° 10'	~~1492~~ 1792	Boat Adj. +1.0
		3	29.7	26.2		53° 36'	~~1356~~ 1656	Tide -4.0
		4	28.9	25.4		51° 00'	~~1235~~ 1535	-3.5
		5	28.2	24.7		47° 29'	~~1091~~ 1391	
		6	27.2	23.7		44° 25'	~~980~~ 1280	
		7	25.8	22.3		40° 30'	~~854~~ 1154	
		8	23.7	20.2		37° 28'	~~766~~ 1066	
		9	22.1	18.6		34° 50'	~~696~~ 996	
		10	21.2	17.7		32° 58'	~~649~~ 949	
		11	20.3	16.8		31° 42'	~~618~~ 918	
		12	19.0	15.5		29° 54'	~~575~~ 875	
		13	17.6	14.1		28° 12'	~~536~~ 836	
		14	16.5	13.0		26° 36'	~~501~~ 801	
		15	14.9	11.4		25° 16'	~~472~~ 772	
		16	13.6	10.1		23° 37'	~~437~~ 737	
		17	11.4	7.9		21° 45'	~~399~~ 699	
		18	10.0	6.5		19° 55'	~~362~~ 662	
		19	8.5	5.0	10:05	18° 25'	~~333~~ 633	
			that's it					



Profile Notes Red ____ Plotted ____ Job No. 10002 Division No. 10 F. B. 2301
No. ____ Date ____ Date ____ Survey of Beach Erosion Study Pg. 89
X-Sec. Notes Chkd. ____ Checked ____ Survey by Ken Perry Notes F.T. Date 8-9-55
No. ____ Date ____ Date ____ Map No. ____ Index C. Johnson Date

F. B. 2301 PG. 90 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-9-55 Date _____ No. _____

Survey by Van Derer 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.		

Do not extend notes this side of this line.

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761293 3C7 8-53

761 298 307 8-53

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

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 30+00	Sight on 27+50
32+50					300' off	300' off
T.P. 345 FT. R	8 06	16 93		8 87		
	4 29	17 03	4 19	12 74		
27+50					STATION BACK OF FENCE IN CONSTRUCTION AREA	
232 FT. R			+13 6	30 6		TOP FILL BANK
256 " "			0 1	16 9		BOTTOM FILL BANK
270 " "			3 2	13 8		
285 " "			4 5	12 5		
300 " "			4 9	12 1		
335 " "			5 3	11 7		
360 " "			6 7	10 3		
360 " "			8 0	~~11 0~~ 9 0		
385 " "	0 35	8 77	8 61	8 42		
		8 8	5 9	2 9	26° 03' ~~122~~ 422	
			9 5	-0 7	90 52 ~~216~~ 516	
			13 2	-4 4	51 52 ~~318~~ 618	
			21 0	-12 2	61 51 ~~467~~ 767	

INSHORE
S. 27+50

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 91
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by DREIER ENGLISH Notes G.E.D. & E.D. Date 8-9-55
No. ____ Date ____ Date ____ Map No. ____ Date ____

F. B. 2301 Pg. 92 Job No. 0300-02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

Survey by E.E. & G.D. Notes E.E. & G.D. Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

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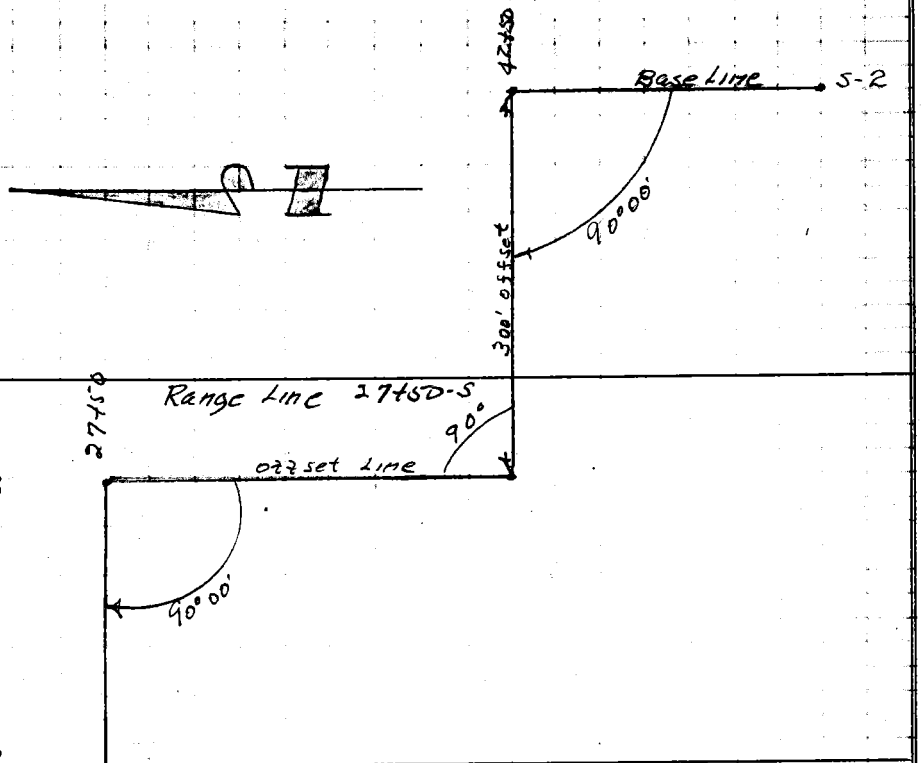
76L258 307 8-53

Profile No. ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 0300102 Division No. 10 Survey of Beach Erosion Survey by Van Deren Notes J.J.E. Date 8-9-55

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

F. B. 2301 Pg. 93



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At Ch	#	Color	Time	Hor. Ang.	
	1		10:15	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			90°00'	
	18			90°00'	
	19			90°00'	
				10:20	

S-2

27+50

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761298 307 8-53

F. B. 2301 Pg. 94 Job No. 0300.82 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L298 307 8-53

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761 298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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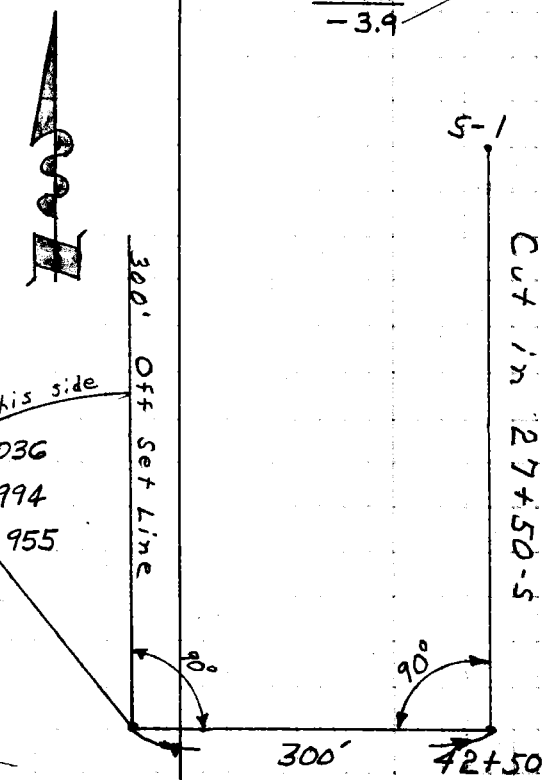
STATION Inst. Sight At	On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks
							300 OFF	
		1	30.3	26.4	10:15	51° 08'	~~1861~~	2161
		2	29.9	26.0		49° 35'	~~1761~~	2061
		3	29.6	25.7		47° 35'	~~1642~~	1942
		4	29.3	25.4		45° 38'	~~1534~~	1834
		5	29.0	25.1		43° 25'	~~1419~~	1719
		6	28.6	24.7		40° 50'	~~1296~~	1596
		7	28.2	24.3		37° 54'	~~1168~~	1468
		8	27.3	23.4		34° 34'	~~1034~~	1334
42+50	S-1	9	26.0	22.1		31° 00'	~~901~~	1201
		10	24.0	20.1		27° 56'	~~795~~	1095
		11	22.7	18.8		26° 08'	~~736~~	1036
		12	21.9	18.0		24° 49'	~~694~~	994
		13	21.0	17.1		23° 36'	~~655~~	955
300' off Set		14	19.9	16.0		22° 22'	~~617~~	917
		15	18.3	14.4		20° 48'	~~570~~	870
		16	16.7	12.8		19° 29'	~~531~~	831
		17	15.0	11.1		18° 01'	~~488~~	788
		18	12.5	8.6		16° 12'	~~436~~	736
		19	8.4	4.5	10:20	13° 12'	~~352~~	652

Zero Adj. −0.7
Boat Adj. +1.0
Tide −4.2
−3.9



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 95
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Doren Notes R.T. Date 8-9-55
No. Date Date Map No. Indexed Johnson Date

F. B. 2301 Pg. 96 Job No. 020002 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-9-55 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 On	#	Color	Time	Hor. Ang.	

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76L298 307 8-53

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 J. J. E. Date 8-10-55
Date	Indexed L. C. Johnson

F. B. 2301 PG. 96A

August 10, 1955

Time	Tide	Standard Time
5:00	2.3	
5:30	2.1	
6:00	2.0	
6:30	2.1	
7:00	2.1	
7:30	2.3	
8:00	2.3	
8:30	2.6	
9:00	2.8	
9:30	3.3	
10:00	3.6	
10:30	4.0	
11:00	4.3	
11:30	4.7	
12:00	4.9	

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
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70 FS095 247 4-53

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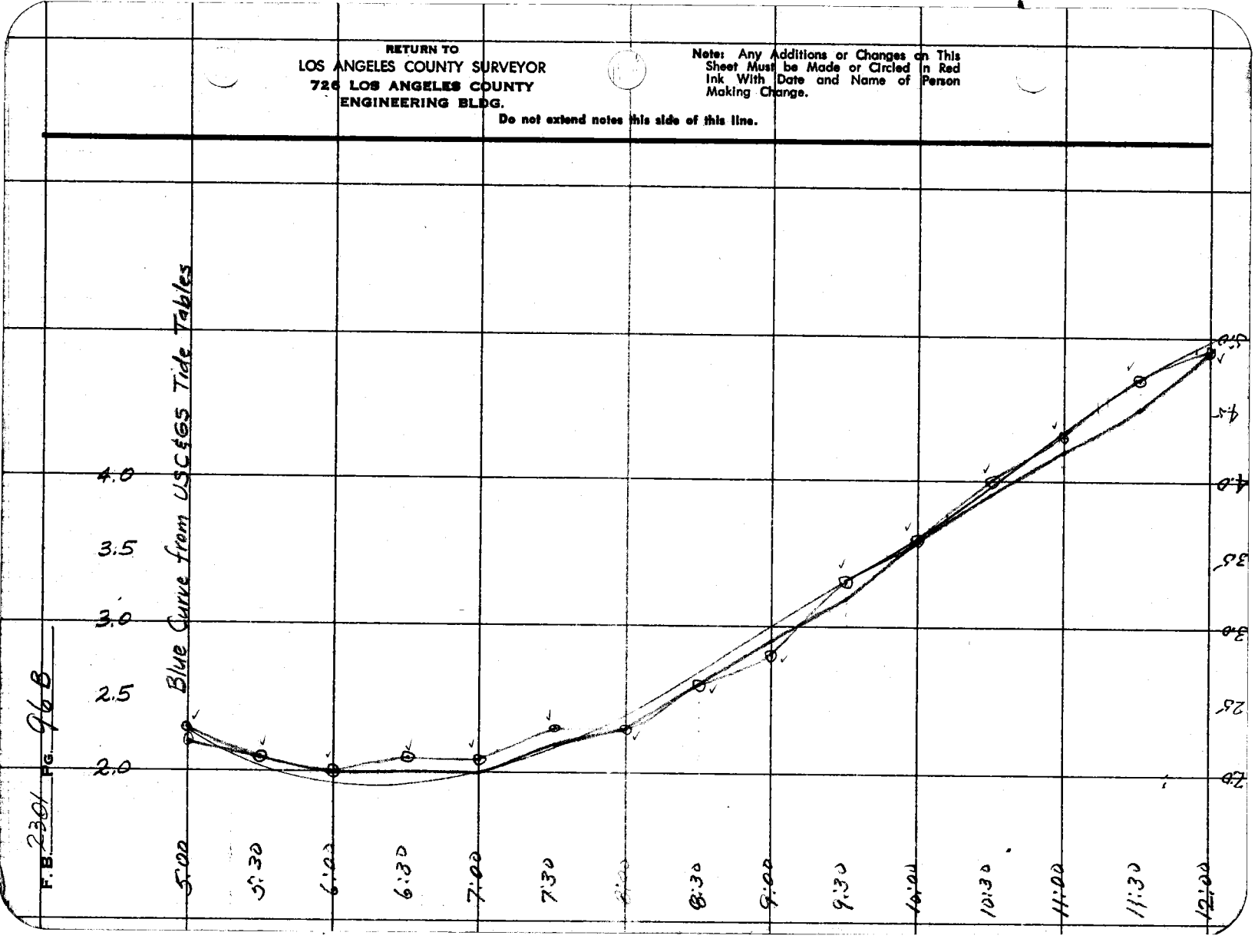

F.B. 2301 PG. 96B

761298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 20+00	Sight on 22+50
27+50 T.P. 385 FT. R.	726	1568		842	360' Off	
T.P.	165	1533	200	1368		
22+50					STATION BACK OF FENCE IN CONSTRUCTION AREA	
318 FT. R.			+74	227		TOP FILL BANK
332 FT. R.			31	122		BOTTOM FILL BANK
360 " "			30	123		OFF SET LINE
376 " "			35	118		BRK
490 " "			62	91		
T.P. 435 " "	215	[illegible]	1074	459		
			60	07	26° 23' ~~124~~ 484	
			77	-10	38 44 ~~201~~ 561	
			111	-44	49 05 ~~288~~ 648	
			151	-84	55 26 ~~363~~ 723	
			180	-113	58 32 ~~410~~ 770	

INSHORE
S. 22+50

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 97
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by OBEIER ENGLISH Notes E.E.D.C.E.D. Date 8-10-55
No. Date Date Map No. Indexed Johnson Date

F. B. 2301 Pg. 98 | Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

Survey by E.E. & G.D. Notes E.E. & G.D. Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

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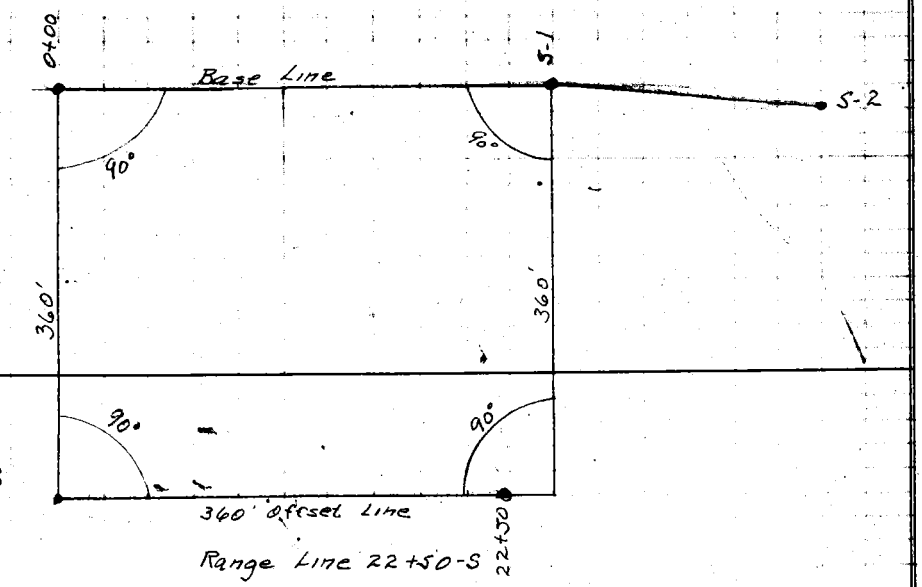
76L298 307 8-53

Profile	Notes Red	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301	Pg. 99
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.V.E.	Date 8-10-55	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	



Remarks

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. Sight At CH	#	Color	Time	Hor. Ang.
	1		9:47	90°
	2			90°
	3			90°
	4			90°
	5			90°
	6			90°
	7			90°
	8			90°
	9			90°
	10			90°
	11			90°
	12			90°
	13			90°
	14			90°
	15			90°
	16			90°
	17			90°
	18			90°
	19			90°
	20			90°
	S-1			
	22+50			

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76L298 307 8-53

F.B. 2301 PG. 100 Job No. 0300.02 Division No. 70 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by Van Deren Notes J. J. E. 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.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
22+50					
S-1					
	21			30°	Range
	22			10°	22+50-S
	23		9:52	10°	on 360' offset

76L 298 307 8-53

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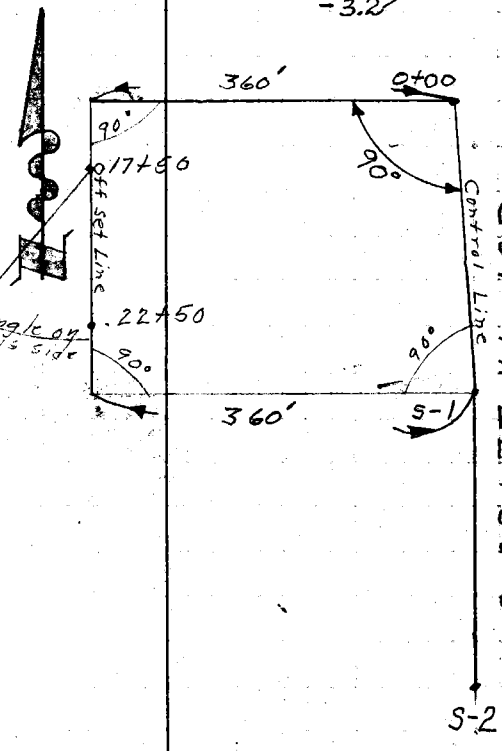
STATION	Inst. Sight At	CH	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks
17+50		S-1	1	31.0	27.8	9:47	75° 37'	~~1950~~ 2310	Zero Adj. -0.7 Boat Adj. +1.0 Tide -3.5 -3.2
			2	30.1	26.9		74° 48'	~~1840~~ 2200	
			3	29.3	26.1		73° 55'	~~1734~~ 2094	
			4	28.8	25.6		72° 52'	~~1622~~ 1982	
			5	28.5	25.3		71° 29'	~~1493~~ 1853	
			6	27.7	24.5		70° 15'	~~1393~~ 1753	
			7	27.2	24.0		68° 32'	~~1272~~ 1632	
			8	26.4	23.2		67° 54'	~~1231~~ 1591	
			9	25.7	22.5		65° 02'	~~1074~~ 1434	
			10	24.8	21.6		63° 30'	~~1003~~ 1363	
			11	23.6	20.4		61° 02'	~~903~~ 1263	
			12	22.0	18.8		56° 58'	~~769~~ 1129	
			13	20.3	17.1		52° 40'	~~656~~ 1016	
			14	19.2	16.0		50° 14'	~~601~~ 961	
			15	17.8	14.6		48° 18'	~~561~~ 921	
			16	17.0	13.8		46° 54'	~~554~~ 894	
			17	16.2	13.0		45° 35'	~~510~~ 870	
			18	15.2	12.0		43° 40'	~~477~~ 837	
			19	13.9	10.7		41° 27'	~~442~~ 802	
			20	12.6	9.4		38° 54'	~~404~~ 764	



Profile
No. Notes Red Plotted Job No. 2300 Division No. 10 F.B. 2301 Pg. 101
Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Wm. Dersen Notes P.T. Date 8-10-55
No. Date Date Map No. Notes C. Johnson Date

F. B. 2301 PG. 102

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

Survey of Beach Erosion Study Date 8-10-55 Date _____ No. _____

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

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

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.	
17+50					
S-1					
	21	10.8 7.6			~~341~~ 701 Cut in 22+50-S
	22	void			~~319~~ 679
	23	void	9:52		~~295~~ 655

761 298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 20+00		Sight on 17+50
22+50						360'	OFF
T.P. 435 FT. R	10 60	15 19		4 59			
T.P.	5 61	16 14	4 66	10 53			
T.P.	4 28	17 30	3 12	13 02			
17+50					STATION UNACCESSABLE		
332 FT. R.			17	15 6			TOP FILL BANK
341 " "			4 5	12 8			BOTTOM FILL BANK
360 " "			5 2	12 1			360 FT OFF SET
383 " "			5 1	12 2			BRK
400 " "			6 1	11 2			
427 " "			8 2	9 1			BRK
T.P. 454 " "	0 65	6 84	11 11	6 19			
			5 9	0 9	28° 35'	136 + 360	= 496
			7 6	-0 8	41 46	223 360	= 583
			11 3	-4 5	53 04	333 360	= 693
			15 6	-8 8	61 18	457 360	= 817
			19 0	-12 2	65 14	540 360	= 900

INSHORE
S. 17+50

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 103
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by DREIER ENGLISH Notes CED & ED Date 8-10-50
No. Date Date Map No. Indexed J. Johnson Date

F. B. 2301 Pg. 104 Job No. 030202 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

Survey by E.E. & G.D. Notes E.E. & G.D. Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

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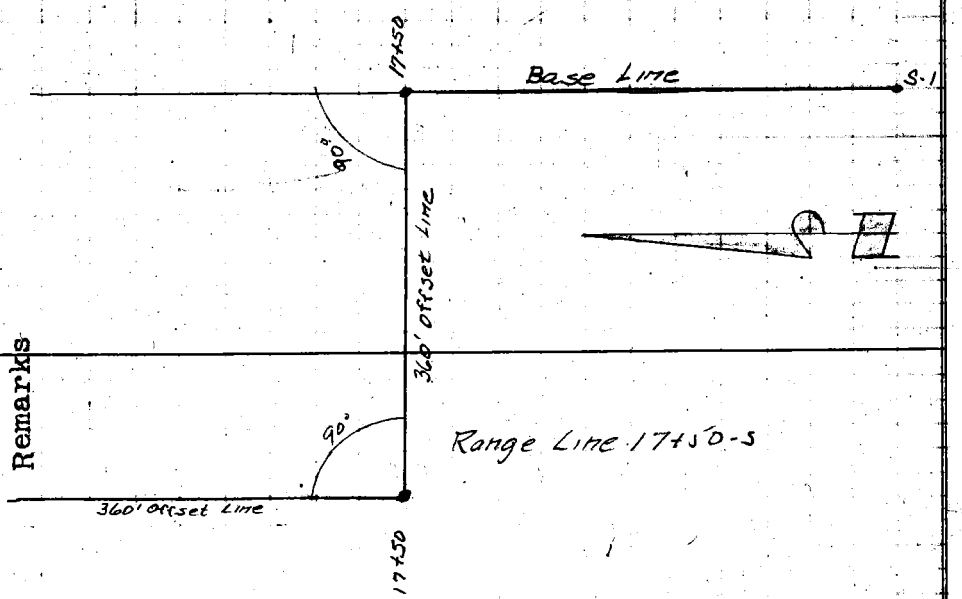
76L298 307 8-53

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301	Pg. 105
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by VanDeren	Notes J.J.E	Date 8-[illegible]-55	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	



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

17+50 on 360' Offset 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.

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76L298 307 8-53

F. B. 2301 PG. 106 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

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

Indexed A. 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.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
17+50-S on 360' offset					
S-1	21		10:12	90°	Range 17+50-S
	22			90°	S-1

76L298 307 8-53

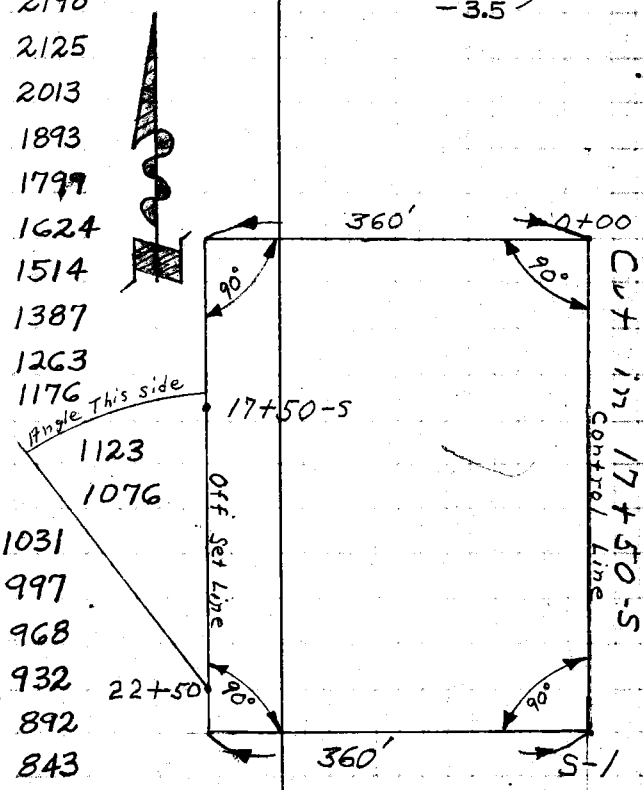
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION Inst. Sight At	On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.			Remarks
		1	29.6	26.1	10:05	74°	47'	~~1838~~	2198
		2	28.7	25.2		74°	11'	~~1765~~	2125
		3	27.9	24.4		73°	10'	~~1653~~	2013
		4	27.0	23.5		71°	56'	~~1533~~	1893
		5	26.4	22.9		70°	50'	~~1439~~	1799
		6	26.0	22.5		68°	25'	~~1264~~	1624
22+50	0+00	7	25.7	22.2		66°	34'	~~1154~~	1514
		8	24.5	21.0		64°	03'	~~1027~~	1387
		9	23.5	20.0		61°	01'	~~903~~	1263
		10	22.6	19.1		58°	30'	~~816~~	1176
		11	21.6	18.1		56°	45'	~~763~~	1123
		12	20.7	17.2		55°	05'	~~716~~	1076
		13	19.9	16.4		53°	18'	~~671~~	1031
		14	19.2	15.7		51°	52'	~~637~~	997
		15	18.5	15.0		50°	34'	~~608~~	968
		16	17.1	13.7		48°	50'	~~572~~	932
		17	16.1	12.6		46°	46'	~~532~~	892
		18	15.4? void	11.9?		44°	02'	~~483~~	843
		19	15.3	11.8		44°	30'	~~491~~	851
		20	13.3	9.8		40°	36'	~~429~~	789

Zero Adj. −0.8
Boat Adj. +1.0
Tide −3.7
−3.5



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 107
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-10-55
No. Date Date Map No. Date

F.B. 2301 Pg. 108 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-10-55 Date _____ No. _____

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

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

STATION	B. S.	H. I.	F. S.	ELEV.	Hor. Ang.	Remarks
22+50						
0+00						
Inst. Sight At OH						
#	Color	Time				
	21 void					
	22 void	10:12				
					~~363~~ 723	Cut in 17+50-S
					~~324~~ 687	

Do not extend notes this side of this line.

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

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

76L298 307 8-53

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

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

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

STATION	B. S.	H. I.	F. S.	ELEV.	Inst at 10+00	Sight on 12+50
17+50					360' Off	
T.P. 454 FT.R	10 13	16 32		6 19		
T.P.	1 87	14 85	3 34	12 98		
T.P.	4 62	10 97	8 50	6 35		
T.P.	5 68	16 33	0 32	10 65		
12+50					INSIDE STANDARD OIL INSTALATION	
140 FT.R.			+32	195	W'LY EDGE PAVED AREA OF STD. OIL INSTALL	
163 " "			40	123	SAND AT BASE OF CONC. RUBLE SEA WALL	
200 " "			52	111		
300 " "			34	129		
317 " "			31	~~192~~ 132		BRK
350 " "			45	118		"
360 " "			47	116		360 OFFSET LINE
400 " "			41	122		
421 " "			39	124		BRK
T.P. 470 FT.R	2 51	8 52	10 32	6 01		
			8 4	0 1	31° 53' 156 ✓	516
			9 7	-1 2	47 41 275 ✓	635
			13 4	-4 9	55 36 365 ✓	725
			18 5	-10 0	62 47 486 ✓	846

INSHORE
S. 12+50

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 109
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
Notes Chkd. ____ Checked ____ Survey by DREYER ENGLISH Notes G.E.D. & E.D. Date 8-10-55
Date ____ Date ____ Map No. ____ Indexed J. Johnson Date ____

F. B. 2301 Pg. 110

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

Survey of Beach Erosion Date Date No.

Survey by E.K. & G.D. Notes E.K. & G.D. 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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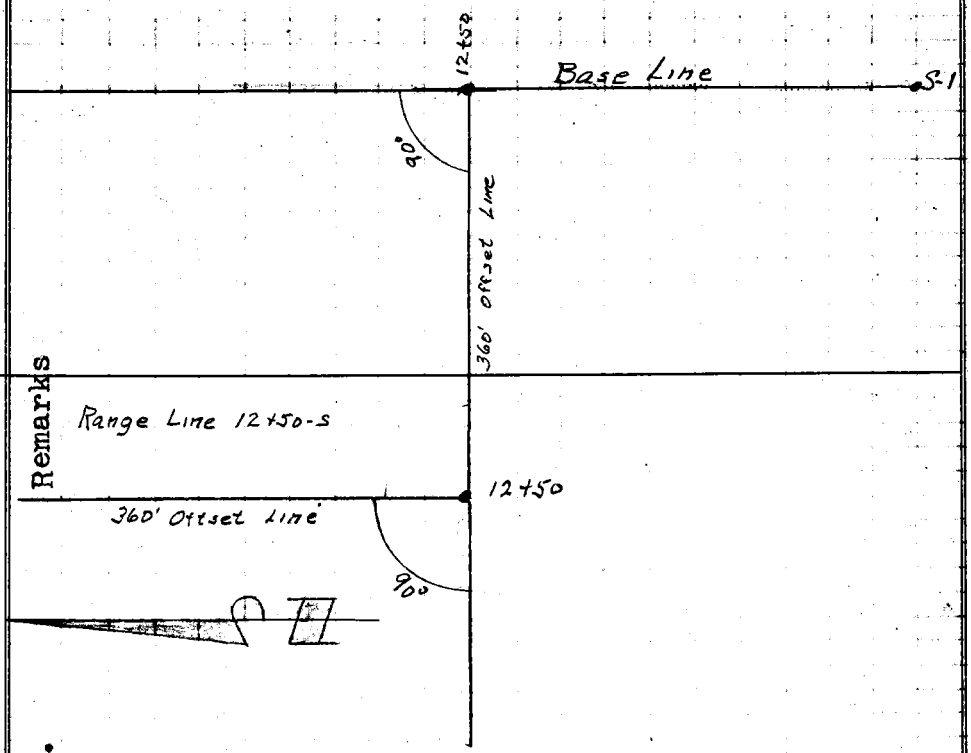
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 230'	Pg. 111
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.V.E.	Date 8-10-55	
No.	Date	Date	Map No.	Indexed G. Johnson	Date	



STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At CH	#	Color	Time	Hor. Ang.	
	1		10:45	90°	
	2			90°	
	3			90°	
	4			90°	
	5			90°	
	6			90°	
	7			90°	
	8			90°	
	9			90°	
	10			90°	
	11			90°	
	12			90°	
	13			90°	
	14			90°	
	15			90°	
	16			90°	
	17			90°	
				10:49	

S-1

12+50 - 360' Offset Line

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

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

Do not extend notes this side of this line.

761 298 307 8-53

F.B. 2301 Pg. 112 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

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

Indexed C. Johnson Date Date Date No.

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
12+50 - 360' offset line					
5-1					
					Inst. Sight At OH
	#	Color	Time	Hor. Ang.	
					Range Line 12+50-5

PLEASE RETURN TO
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.

761298 307 8-53

76L298 307 8-53

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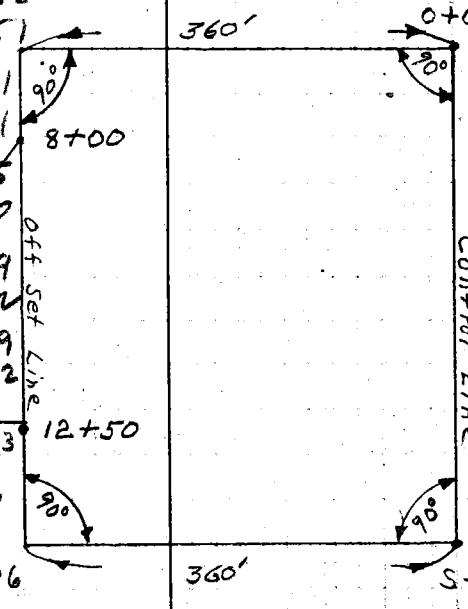
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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. Sight At Ch	#	Color		Time	Hor. Ang.			Remarks
	1	29.1	25.0	10:44	75° 55'	1794	+360 = 2154	Zero Adj. -0.9
	2	28.5	24.4		74° 30'	1623	1983	Boat Adj. +1.0
	3	28.1	24.0		72° 57'	1467	1827	Tide -4.2
	4	27.2	23.1		70° 38'	1280	1640	-4.1
	5	26.2	22.1		67° 35'	1091	1451	
	6	25.1	21.0		64° 40'	951	1311	
	7	24.2	20.1		62° 08'	851	1211	
	8	22.7	18.6		59° 51'	775	1135	
8+00 S-1	9	21.6	17.5		57° 37'	710	1070	
	10	20.4	16.3		55° 40'	659	1019	
	11	18.8	14.7		53° 40	612	972	
	12	17.6	13.5		51° 40'	569	929	
	13	16.1	12.0		49° 47'	532	892	
	14	14.6	10.5		47° 37'	493	853	
	15	13.3	9.2		45° 08'	452	812	
	16	12.1 / 10.2	8.0 / 6.1		42° 50'	418	778	
	17	void		10:49	36° 45'	336 / 360	696	



Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 113
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Ken Deren Notes R.T. Date 8-10-55
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 2301 Pg. 114 Job No. P500.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-10-55 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.	
Inst. Sign At OH	#	Color	Time	Hor. Ang.	Remarks

Do not extend notes this side of this line.

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

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

76L-~~~07 8-53

761298 307 8-53

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

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

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

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 10+00	Sight on 8+00
12+50						360' OFF
T.P. 470 FT. R	11 06	17 07		6 01		
T.P.	4 56	16 96	4 67	12 40		
T.P.	6 29	17 89	5 36	11 60		
8+00			+122	30 1	WLY EDGE PAVED RD.	TOP CUT BANK
5 FT. R.			+104	28 3		BOT. CUT BANK
16 " "			+94	27 3		ELY EDGE DIRT PARKING AREA
60 " "			+87	26 6	TOP FILL AREA	WLY " " "
78 " "			+15	19 4	BOTTOM FILL AREA,	SAND
100 " "			0 5	17 4		
200 " "			4 4	13 51		
300 " "			5 5	12 4		
360 " "			6 2	11 71		360' OFF SET LINE
400 " "			5 4	12 5		BRK
434 " "	1 64	9 52	1001	7 88		
			5 7	3 8	26° 19' 99 ✓	499
			9 2	0 3	31 49 124 ✓	484
			9 5	0 0	39 52 167 ✓	527
			11 2	-1 7	49 26 234 ✓	594
			15 0	-5 5	56 21 300 ✓	660
			17 6	-8 1	60 41 356 ✓	716
			22 0	-12 5	64 04 411 ✓	771

INSHORE
S. 8+00

Profile No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 6300.02 Division No. 10
X-Sec. No. ____ Date ____ Notes Chkd. ____ Checked ____ Survey of BEACH EROSION STUDIES
Date ____ Map No. ____ Survey by ENGLISH Notes GERDES Date 8-10-55
Interpd. J. C. P. JOHNSON Date ____

F. B. 2301 Pg. 115

F. B. 2301 Pg. 116 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

Survey by E.E. & G.D. Notes E.E. & G.D. Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

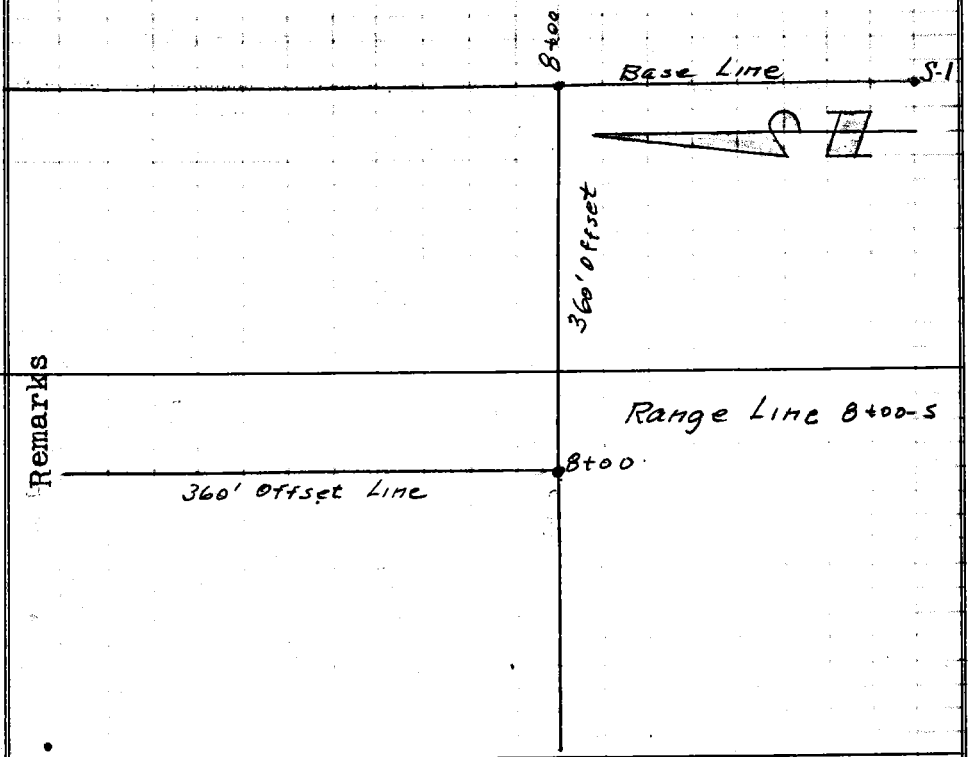
Do not extend notes this side of this line.

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.

76L298 307 8-53

Profile No.	Notes Red	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301	Pg. 117
	Date	Date	Survey of Beach Erosion			
X-Sec. No.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.V.E.	Date 8-10-51	
	Date	Date	Map No.	Indexed G. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At CH	#	Color	Time	Hor. Ang.	
	1		11:02	90°	
	2			90°	
	3			90°	
	4			90°	
	5			90°	
	6			90°	
	7			90°	
	8			90°	
	9			90°	
	10			90°	
	11			90°	
	12			90°	
	13			90°	
	14			90°	
	15			90°	
	16			90°	
	17			90°	
	18			90°	
	19		11:06	90°	
	1-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.

Do not extend notes this side of this line.

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

761 288 307 8-53

E.B. 2361 Pg. 118 Job No. 030002 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

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

Indexed A. C. Johnson Date Date Date No.

8+00 - 360' Offset Line

S-1

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

Range Line 8+00-S

76L298 307 8-53

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

761298 307 8-53

PLEASE RETURN TO
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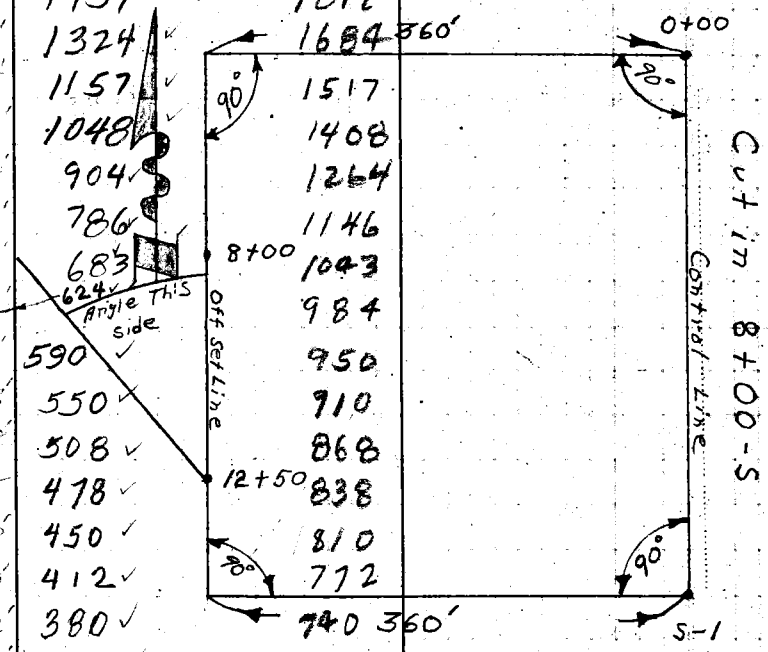
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

STATION		B. S.	H. I.		F. S.	ELEV.		Remarks
Inst. At	Sight On	#	Color		Time	Hor. Ang.		
		1	29.4	25.0	11:02	74° 44'	1649	2009
		2	28.5	24.1		73° 57'	1564	1924
		3	28.1	23.7		72° 50'	1457	1817
		4	27.9	23.5		71° 14'	1324	1684
		5	27.0	22.6		68° 45'	1157	1517
		6	26.4	22.0		66° 46'	1048	1408
		7	25.7	21.3		63° 32'	904	1264
12+50	0+00	8	24.5	20.1		60° 12'	786	1146
		9	22.8	18.4		56° 38'	683	1043
		10	21.7	17.3		54° 11'	624	984
		11	20.6	16.2		52° 46'	590	950
		12	19.3	14.9		50° 43'	550	910
		13	17.9	13.5		48° 28'	508	868
		14	16.6	12.2		46° 45'	478	838
		15	15.4	11.0		45° 00'	450	810
		16	14.2	9.8		42° 30'	412	772
		17	12.3	7.9		40° 12'	380	740
		18	11.0	6.6		36° 54'	338	698
		19	9.5	5.1	11:06	35° 25'	320	680

Zero Adj. −1.0
Boat Adj. +1.0
Tide −4.4
−4.4



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 119
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-10-55
No. Date Date Map No. Date

F. B. 2301 Pg. 120 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-10-55 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 at	Sight on	#	Color	Time	Remark

Do not extend notes this side of this line.

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

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

76L298 307 8-53

761298 307 8-53

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 2+00	Sight on 4+00
8+00					360' off	
T.P. 434 FT. R	10 32	18 20		7 88		
T.P.	674	18 86	6 08	12 12		
T.P.	11 57	29 65	0 78	18 08		
4+00			0 4	29 2		
4 FT. R.			1 7	27 9		
16 " "			2 3	27 3	TOP	BRK
23 " "			5 1	24 5	BOT.	BRK
40 " "			5 8	23 8	TOP	"
75 " "			11 7	17 9		
T.P.	0 47	18 31	11 81	17 84		
100 FT. R.			2 5	15 8		
150 " "			3 9	14 4		
200 " "			4 7	13 6		
300 " "			4 9	13 4		
330 " "			6 2	12 1		
360 " "			6 4	11 9	OFF SET LINE	
380 " "			6 2	12 1		BRK
400 " "			7 6	10 7		
T.P. 422 " "	1 35	9 95	9 71	8 60		
		[illegible]	7 5	2 5	29° 27' 113 ✓	473
			10 4	-0 4	42 38 184 ✓	544

IN SHORE
S. 4+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 121
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by DREIER ENGLISH Notes G.E.D. & E.O. Date 8-10-55
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2301 PG. 122 Job No. 0300.02 Division No. 10 Notes Red. ____ Plotted ____ Profile

Survey of Beach Erosion Date ____ Date ____ No. ____

Survey by E.E. & G.D. Notes E.E. & G.D. Notes Chkd. ____ Checked ____ X-Sec.

A. C. Johnson

Indexed ____ Date ____ Date ____ Date ____ No. ____

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

246 606
296 656
353 713

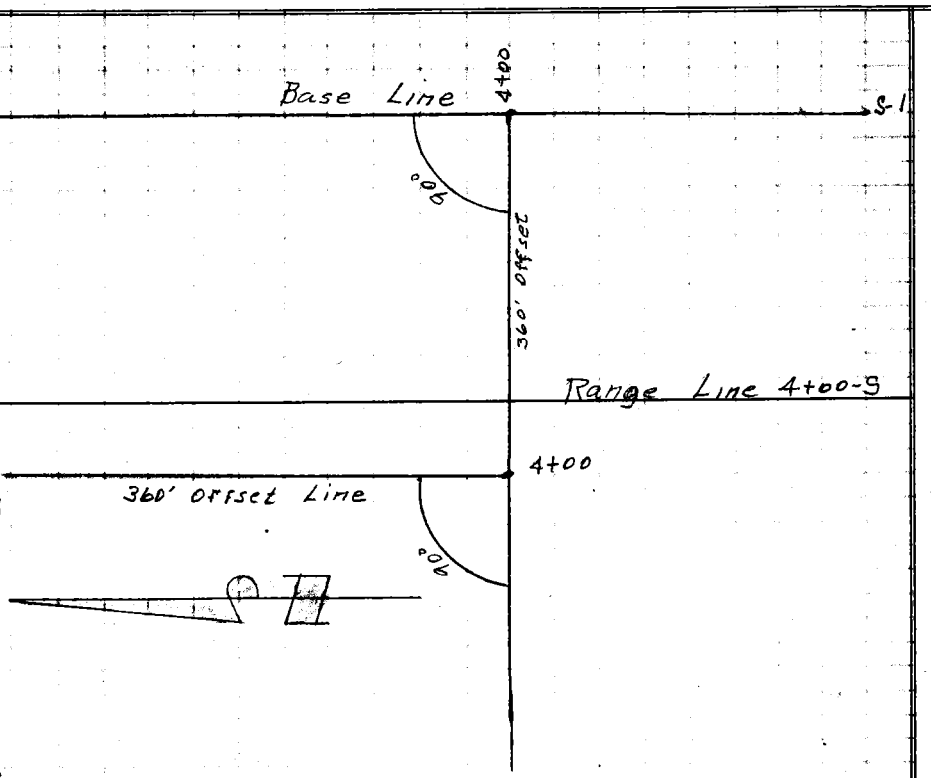
76L298 307 8-53

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

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

Do not extend notes this side of this line.

Profile No.	Notes Red.	Plotted	Job No. 9300.02	Division No. 10	F. B. 3301	Pg. 123
	Date	Date	Survey of Beach Erosion			
X-Sec. No.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.E.	Date 8-10-55	
	Date	Date	Map No.	Indexed G. Johnson	Date	



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

4+00 on 360' Offset 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.

Do not extend notes this side of this line.

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

761 298.307 8-53

F.B. 2301 PG. 124 Job No. 8300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by Van Deren Notes J.J.E. 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. Sight At On	#	Color	Time	Hor. Ang.		Remarks
4+00 on 360' offset Line						
S-1						
					Range Line 4+00-S	

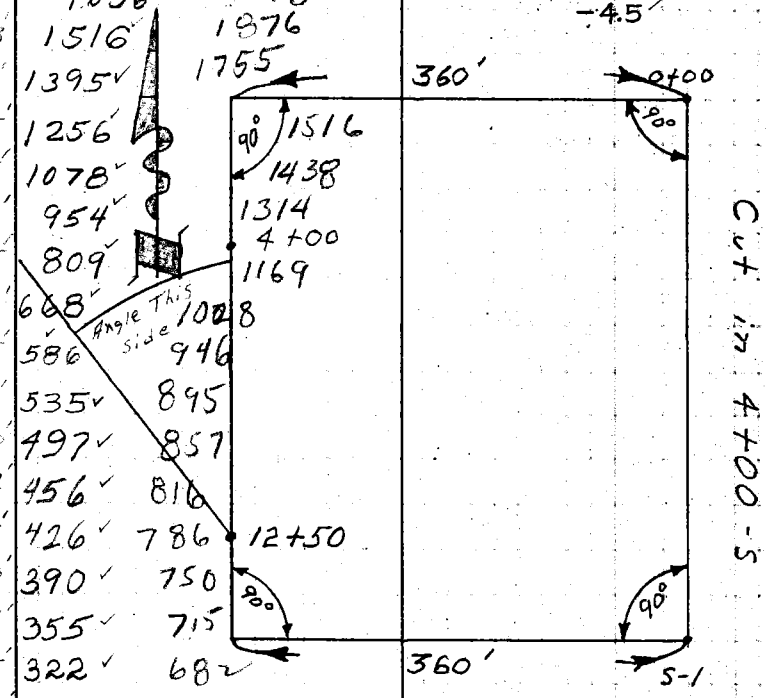
761 298 307 8-53

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

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.			Remark
Inst AT	Sight on	#	Color		Time	Hor. Ang.			
		1	29.9 ✓	25.4	11:14	64° 24'	1774 ✓	+360 = 2134	Zero Adj. -1.0
		2	29.4 ✓	24.9		62° 33'	1636 ✓	1996	Boat Adj. +1.0
		3	28.4 ✓	23.9		60° 43'	1516 ✓	1876	Tide -4.5
		4	28.1 ✓	23.6		58° 39'	1395 ✓	1755	-4.5
		5	27.7 ✓	23.2		55° 55'	1256 ✓	1516	
		6	26.9 ✓	22.4		51° 45'	1078 ✓	1438	
		7	25.9 ✓	21.4		48° 18'	954 ✓	1314	
		8	24.9 ✓	20.4		43° 35'	809 ✓	1169	
12+50	0+00	9	23.3 ✓	18.8		38° 09'	668 ✓	1028	
		10	21.5 ✓	17.0		34° 35'	586 ✓	946	
		11	19.4 ✓	14.9		32° 10'	535 ✓	895	
		12	17.9 ✓	13.4		30° 20'	497 ✓	857	
		13	16.4 ✓	11.9		28° 12'	456 ✓	816	
		14	14.9 ✓	10.4		26° 38'	426 ✓	786	
		15	13.3 ✓	8.8		24° 40'	390 ✓	750	
		16	12.1 ✓	7.6		22° 41'	355 ✓	715	
		17	10.2 ✓	5.7		20° 45'	322 ✓	682	
		18	8.8 ✓	4.3		18° 36'	286 ✓	646	
		19	8.0?	3.5		16° 40'	254 ✓	614	
					11:18		360		



Profile Notes Red ____ Plotted ____ Job No. 03000 Division No. 10 F. B. 2301 Pg. 125
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 8-10-55
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

F. B. 2301 PG. 126 Job No. 03000.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-10-55 Date _____ No. _____

Survey by Van Deren Notes R.T. 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. Sight At On	#	Color	Time	Hor. Ang.		Remarks

761 298 307 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 X

STATION	B. S.	H. I.	F. S.	ELEV.			
4+00					Inst. at 4+00		Sight on 0+00
T.P. 422 FT. R	8 92	17 52		8 60			360' OFF
T.P.	12 08	28 46	1 14	16 38			27.253
				25			2.800
U.S.	1 27	28 52	1 25	27 ~~27~~	U.S.		ELEV. 24.453 SALTWATER
							B-768 1945 N.E. COR. STD. OIL
0+00			12	27 3			
17 FT. R (WEST)			22	26 3			
55 " "			72	21 3			
85 " "			88	19 7			
100 " "			112	17 3			
T.P.	0 25	17 32	11 45	17 07			
150 FT. R (WEST)			61	11 2			
200 " "			68	10 5			
300 " "			44	~~13.9~~ 13.8			BRK
316 " "			46	12 7			"
340 " "			59	11 4			
360 " "			60	11 3			360' OFF SET LINE
400 " "			47	12 6			
406 " "			46	12 7			BRK
T.P. 430 " "	-0 2	8 8	8 27	9 06			
			6 8	2 0	34° 03'	89 ~~+35~~ ✓	+360 = 449 ~~495~~
			9 2	-0 4	46 06	146 ~~208~~ ✓	506 ~~568~~
			10 6	-1 8	55 13	202 ~~288~~ ✓	562 ~~648~~

IN SHORE
S. of N. 0+00

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 10 F.B. R301 Pg. 127
Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by DEIGE ENGLISH Notes FEDD ED Date 8-10-55
Date ____ Date ____ Map No. ____ Map ____ Date ____

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

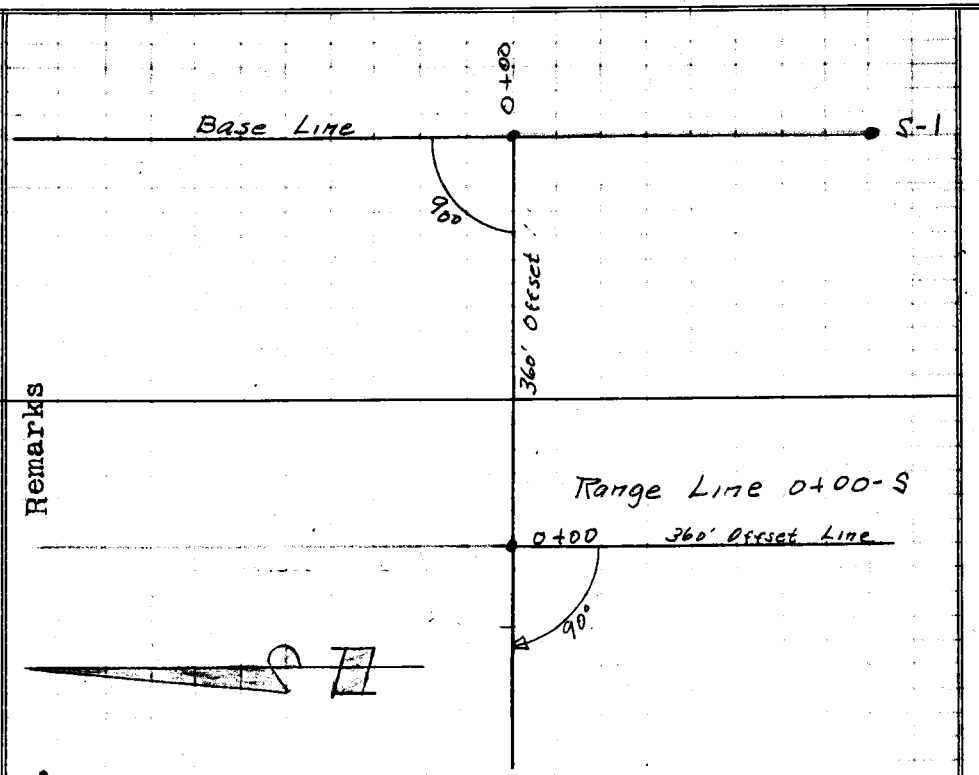
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.			
		[illegible]	14 [illegible]	[illegible]	[illegible] 0 [illegible]	304 ~~464~~ ✓	+ 360 = 664 ~~824~~
			[illegible]	[illegible]	72 [illegible]	383 ~~632~~ ✓	= 743 ~~992~~
			21 0	[illegible]	[illegible]	473 ~~871~~ ✓	833 ~~1231~~

Last six shore shots (to which angles were turned) were plotted on assumption that angles were recorded ten degrees too large

F. B. 2301 PG. 126 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Date Date No.
Survey by E.E. & G.D. Notes E.E. & G.D. Notes Chkd. Checked X-Sec.
Indexed A. C. Johnson Date Date Date No.

Profile No.	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301	Pg. 124
	Date	Date	Survey of Beach Erosion			
X-Sec. No.	Notes Chkd.	Checked	Survey by Van Deren	Notes V.V.E.	Date 8-10-75	
	Date	Date	Map No.	Field Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At CH	# Color		Time	Hor. Ang.	
	1		11:25	90°	
	2			90°	
	3			90°	
	4			90°	
	5			90°	
	6			90°	
	7			90°	
	8			90°	
	9			90°	
	10			90°	
	11			90°	
	12			90°	
	13		11:32	90°	
S-1					
0+00 360' Offset 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.

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LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

768 298.307 8-53

F. B. 2301 Pg. 150 Job No. 0300.01 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

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

Indexed A. 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.

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

0+00 on 360' offset line

S-1

76 298 307 8-53

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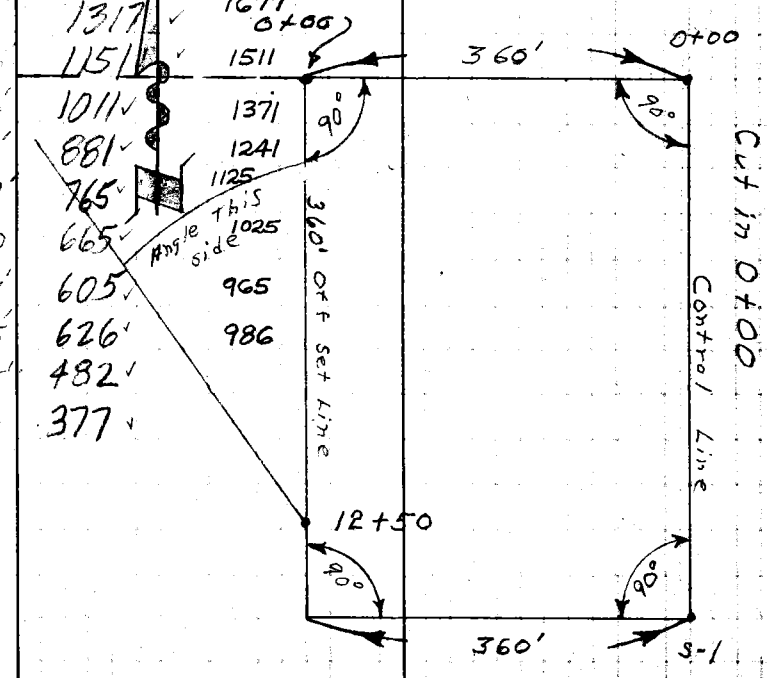
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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 Inst. At	Sight On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.			Remarks
		1	29.6	24.9	11:25	54° 42'	1766	2126	Zero Adj. -1.0
		2	29.1	24.4		52° 01'	1601	1961	Boat Adj. +1.0
		3	28.6	23.9		49° 29'	1463	1823	Tide -4.7 (blue -4.5)
		4	27.8	23.1		46° 30'	1317	1677	-4.7
		5	26.9	22.2		42° 36'	1151	1511	
		6	26.0	21.3		38° 58'	1011	1371	
		9	25.1	20.4		35° 10'	881	1241	
12+50	0+00	8	24.1	19.4		31° 27'	765	1125	
		9	22.9	18.2		28° 00	665	1025	
		10	VOID			25° 49'	605	965	
		11	VOID			26° 35'	626	986	
		12	VOID			21° 05'	482		
		13	VOID		11:32	16° 48	377		



Profile Notes Red. Plotted Job No. 2300A2 Division No. 10 F.B. 2301 Pg. 131
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-10-55
No. Date Date Map No. Indexed Johnson Date

F.B. 2301 PG. 132 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-10-55 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.

76L298 307 8-53

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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.

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 J.N.E. Date
Date	Indexed K. C. Johnson

F.B. 2301 PG. 132A

August 11, 1955

Time	Tide	Standard Time
5:00	2.8	
5:30	2.6	
6:00	2.6	
6:30	2.5	
7:00	2.5	
7:30	2.5	
8:00	2.4	
8:30	2.6	
9:00	2.7	
9:30	3.0	
10:00	3.2	
10:30	3.5	
11:00	3.9	

Note: Any Additions or Changes on This Sheet Must 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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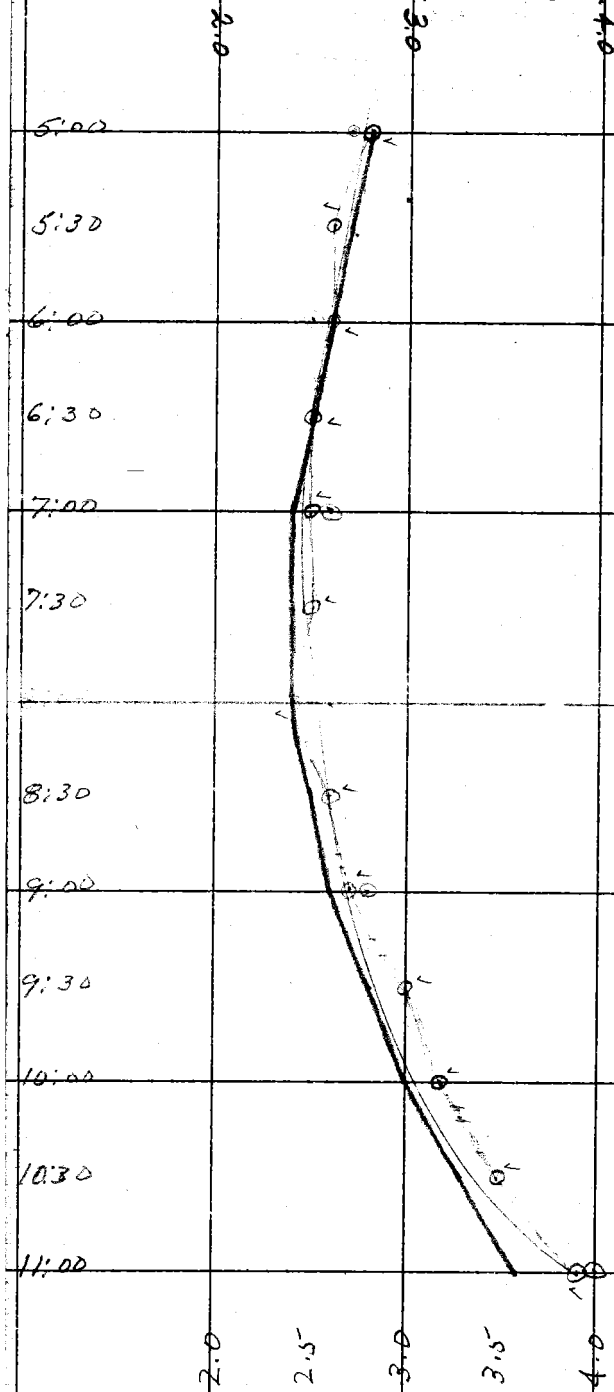
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

7 F3093 247 4-53

F.B. 2301 Pg. 132B

Blue Curve from USC&GS Tide Tables



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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.

76 298 307 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 X

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 9+00	Sight on 2+00
0+00						
T.P. 4.30 FT. R.	7 39	16 44		9 05		
N. 2+00			+98	262		
22 FT. L. (WEST)			+78	242		BRK, TOP
45 " "			+15	179		" , BOTTOM
75 " "			07	157		
100 " "			19	145		
200 " "			38	126		
300 " "			35	129		
346 " "			50	114		BRK
378 " "			49	115		"
400 " "			41	123		
415 " "			39	125		BRK
T.P. 415 " "	0 40	12 76	408	12 36		
T.P.	2 37	7 13	8 00	4 76		
			59	1 2	68° 39'	512 ✓
			78	-0 7	70 58	580 ✓
			118	-4 7	73 17	666 ✓
			210	~~-140~~ -139	77 08	876 ✓

N. 2+00 INSHORE

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 133
Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by ENGLISH Notes FEDER Date 8-11-55
Date ____ Date ____ Map No. ____ Map Ck. Johnson Date ____

F. B. 2301 Pg. 134 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by E.E.& G.D. Notes E.E.& G.D. 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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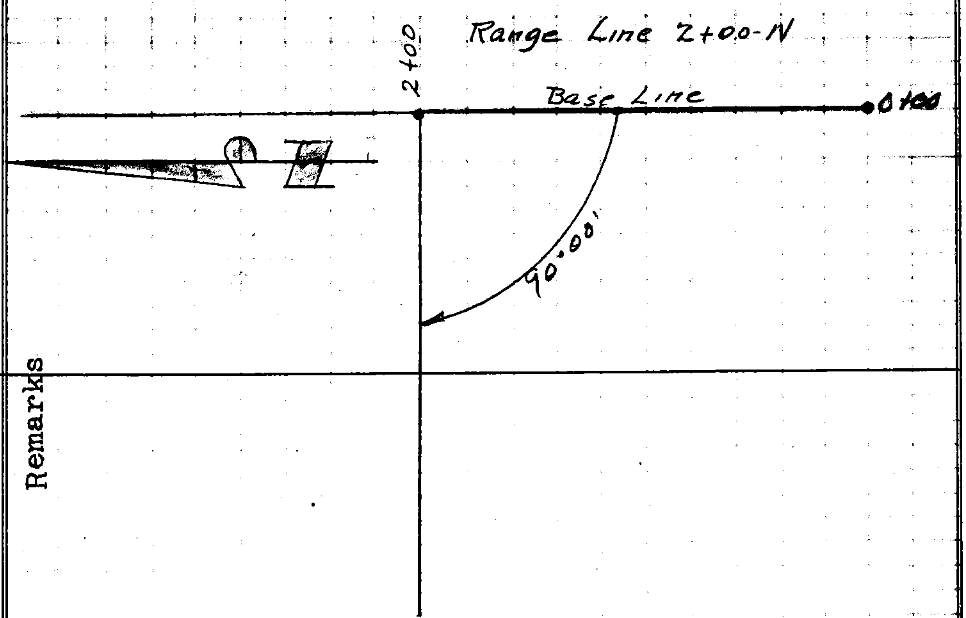
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301	Pg. 135
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J. J. E.	Date 8-16-55	
No.	Date	Date	Map No.	Indexed E. C. Johnson	Date	



Inst. At	Sight Ch	#	Color	Time	Hor. Ang.	Remarks
2+00-N	N-1A	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		3:11 … 4:21	90°00' (each)	

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

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

76298 307 8-53

F. B. 2301 PG. 136 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

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

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.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
2+00-N						
N-1A						
					Range Line 2+00-N	

76 298 307 8-53

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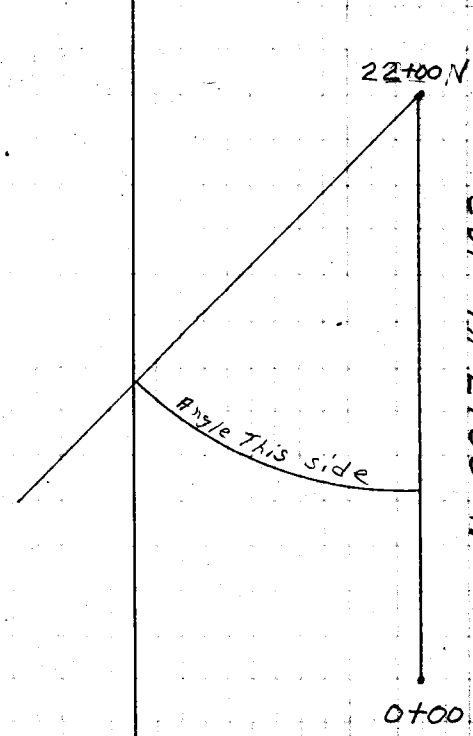
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 63242-Division No. 12 F.B. 2301 Pg. 137
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Study
Notes Chkd. ____ Checked ____ Survey by Van Dereh Notes F.T. Date 8-11-55
Date ____ Date ____ Map No. ____ Inked C. Johnson Date ____

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At Ch	#	Color	Time	Hor. Ang.		Remarks
	1	28.2 25.8	6:17	47° 36'	2190	Zero Adj. − 0.9
	2	27.6 25.2		45° 42'	2049	Boat Adj. + 1.0
	3	27.2 24.8		43° 41'	1910	Tide − 2.5
	4	26.5 24.1		41° 44'	1784	− 2.4
	5	26.0 23.6		39° 48'	1666	
	6	25.3 22.9		37° 26'	1531	
	7	24.7 22.3		35° 01'	1401	
22+00 N	8	24.1 21.7		32° 46'	1287	
0+00	9	22.9 20.5		30° 15'	1166	
	10	21.7 19.3		28° 02'	1065	
	11	20.6 18.2		27° 00'	1019	
	12	19.7 17.3		26° 14'	986	
	13	void		24° 18'	903	
	14	void		22° 54'	845	
	15	void	6:21	21° 12'	776	



F.B. 2301 PG. 138 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-11-55 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.

Do not extend notes this side of this line.

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

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

76L298 307 8-53

761 298 307 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.

out-in ∡

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 2+00		Sight on 4+00
0+00							
T.P. 100 FT. L.	13 05	30 12		17 07			
4+00			29	27 2			
9 FT. L.			25	27 6			BRK
44 " "			110	19 1			"
100 " "			130	17 1			
129 " "			138	16 3			BRK
153 " "			156	14 5			"
200 " "			164	13 7			
T.P.	6 94	20 80	16 26	13 86			
300 FT L.			81	12 7			
328 " "			82	12 6			BRK
375 " "			93	11 5			"
400 " "			94	11 4			
420 " "			92	11 6			
T.P. 463 " "	1 60	8 63	13 77	7 03			
T.P.	2 70	6 23	5 10	3 53			
			5 0	1 2	69° 44'	542 ✓	
			6 8	-0 6	71 10	586 ✓	
			9 9	-3 7	73 30	675 ✓	
			15 8	-9 6	76 49	854 ✓	
			20 5	-14 3	79 21	1064 ✓	

INSHORE
N. 4+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 139
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by DREIER ENGLISH Note FEDDED Date 8-11-55
No. ____ Date ____ Date ____ Map No. ____ Date ____
Marc C. Johnson

F. B. 2301 Pg. 140 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by E.E.& G.D. Notes E.E.& G.D. 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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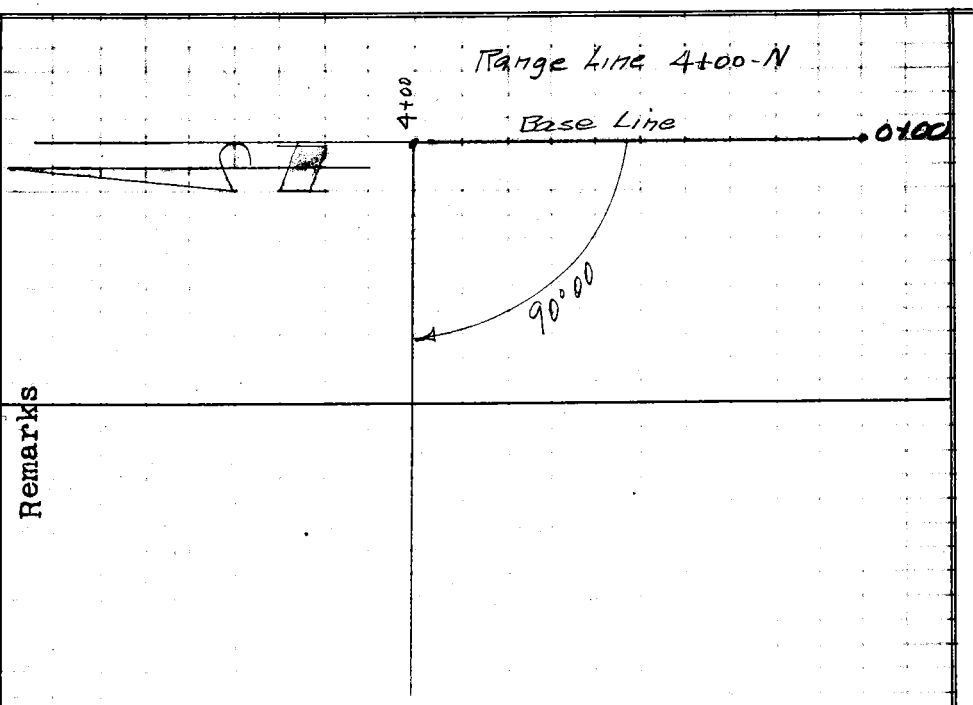
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Profile No.	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301	Pg. 141
	Date	Date	Survey of Beach Erosion			
X-Sec. No.	Notes Chkd.	Checked	Survey by Van Deren	Notes V.V.E.	Date 8-11-55	
	Date	Date	Map No.	Indexed. J. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight On	#	Color	Time	Hor. Ang.	
	1		6:30	90°00'	
	2				
	3				
	4				
	5			90°00'	
	6			90°00'	
	7			90°00'	
	8			90°00'	
	9			90°00'	
	10			90°00'	
	11				
	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'	

N-1A

4+00-N

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

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

Do not extend notes this side of this line.

761 288 307 8-53

F. B. 2301 Pg. 149 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

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

Indexed K. 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
4+00-N						
N-14						
			6:35			
						Range line 4+00-N

761298 307 8-53

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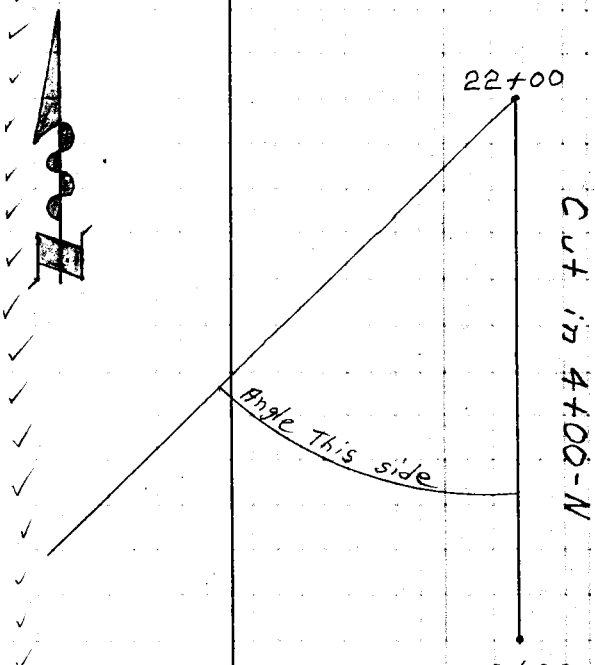
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

Profile Notes Red ____ Plotted ____ Job No. 230102-Division No. 10 F.B. 2301 Pg. 143
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 8-11-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

STATION	B. S.	H. I.		F. S.	ELEV.			
Inst. Sight At Ch	#	Color		Time	Hor. Ang.			Remarks
	1	27.8	25.3	6:30	49° 44'	2125		Zero Adj. - 1.0
	2	27.5	25.0		48° 45'	2053	✓	Boat Adj. + 1.0
	3	27.0	24.5		47° 50'	1987	✓	Tide -2.5
	4	26.7	24.2		46° 58'	1928	✓	-2.5
	5	26.6	24.1		46° 41'	1843	✓	
	6	26.3	23.8		44° 01'	1739	✓	
	7	25.8	23.3		42° 35'	1654	✓	
22+00 0+00	8	25.3	22.8		41° 09'	1573	✓	
	9	25.0	22.5		39° 24'	1479	✓	
	10	24.5	22.0		37° 32'	1383	✓	
	11	24.0	21.5		36° 05'	1308	✓	
	12	23.5	21.0		34° 30'	1237	✓	
	13	22.7	20.2		32° 49'	1161	✓	
	14	21.9	19.3		31° 07'	1087	✓	
	15	20.8	18.3		29° 56'	1036	✓	
	16	20.0	17.5		29° 08'	1003	✓	
	17	19.0	16.5		28° 27'	975	✓	
	18	18.2	15.7		27° 39'	943	✓	
	19	17.0	14.5		27° 05'	920	✓	
	20	16.0	13.5		26° 23'	893	✓	



F. B. 2301 PG. 144 Job No. 230002 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-11-55 Date _____ No. _____

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

Indexed K. 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. at	Sight on	#	Color	Time	Hor. Dis.		Remark
22+00							
0+00							
			14.3 11.8			857 ✓	Cut in 4+00-N
			12.5 10.0			827 ✓	
			11.3 8.8			796 ✓	
			9.6 7.1	6:35		762 ✓	

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301	Pg. 145
No.	Date	Date	Survey of BEACH EROSION STUDIES			
X-Sec.	Notes Chkd.	Checked	Survey by DREIER ENGLISH	Notes GED&ED	Date 8-10-55	
No.	Date	Date	Map No.	~~Indexed~~ Johnson	Date	

INSHORE

GROIN N. 6+00

PROFILE AT 5+90

Cut-in X

Inst. at 2+00

Sight on 5+90

STATION	B. S.	H. I.	F. S.	ELEV.		
4+00				703		
T.P. 463 FT.L.	1377	2080				
5+90			+45	253		
26 Ct L.			29	179		
53 " L.			12	196		
100 " "			29	179		
200 " "			63	145		
300 " "			79	129		
375 " "			85	123		
400 " "			91	117		
440 " "			84	124		
464 " "			112	96		
500 " "			152	56		
T.P. 527 " "	1 52	6 92	1540	540		
			61	0 8	58° 14'	630
			73	-0 4	60 59	703
			89	-2 0	63 23	778
			138	-6 9	65 28	854
			180	-11 1	66 35	901

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

761298 307 8-53

F. B. 2301 PG. 146 Job No. 030002 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by E.E. & G.D. Notes E.E. & G.D. 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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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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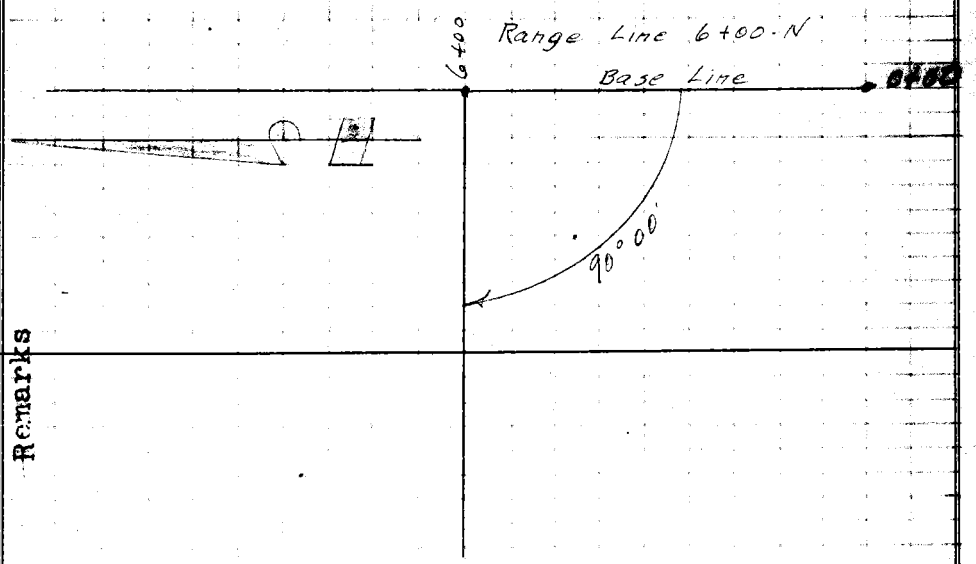
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301	Pg. 147
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.J.E.	Date 8-11-55	
No.	Date	Date	Map No.	Indexed Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	~~Color~~ A.D. C.D.	Time	Hor. Ang.	
	1	29.5		90°00'	
	2	28.8		90°00'	
	3	28.2		90°00'	
	4	27.6		90°00'	
	5	27.2		90°00'	
	6	26.4		90°00'	
	7	26.1		90°00'	
	8	25.6		90°00'	
	9	25.0		90°00'	
	10	24.2		90°00'	
	11	23.2		90°00'	
	12	22.3		90°00'	
	13	21.3		90°00'	
	14	20.4		90°00'	
	15	19.3		90°00'	
	16	18.0		90°00'	
	17	16.7		90°00'	
	18	15.4		90°00'	
	19	13.4		90°00'	
	20	11.3		90°00'	

N-1A

6+00-N

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

761 298 307 8-53

F. B. 2301 PG. 148 Job No. 030002 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

Survey by Van Dorn Notes S.J.E. Notes Chkd. _____ Checked _____ X-Sec.

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

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
~~First Sight~~ At OH	#	~~Color~~ A.D. 9.9 C.D.	Time 5:51	Hor. Ang.	
6+00-N					Range line 6+00-N
N-1A					

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

761 298 307 8-53

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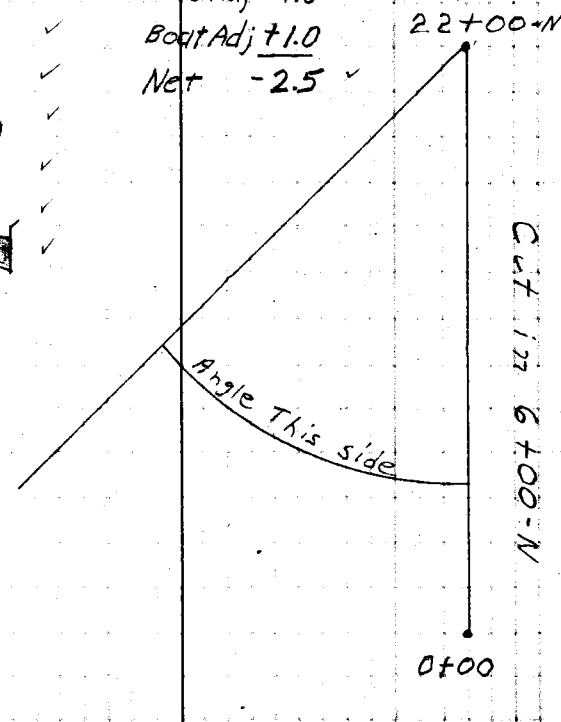
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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 Inst. at	STATION Sight on	B. S. #	H. I. A.D.	H. I. C.D.	F. S. Time	ELEV. Hor. Ang.	Corretions Remark
22+00	0+00	1	29.5	27.0	6:46'	57° 29'	2510 ✓
		2	28.8	26.3		56° 29'	2416 ✓
		3	28.2	25.7		55° 14'	2305 ✓
		4	27.6	25.1		53° 58'	2200 ✓
		5	27.2	24.7		51° 50'	2036 ✓
		6	26.4	23.9		50° 00'	1907 ✓
		7	26.1	23.6		48° 14'	1792 ✓
		8	25.6	23.1		46° 06'	1663 ✓
		9	25.0	22.5		43° 34'	1522 ✓
		10	24.2	21.7		41° 05'	1395
		11	23.2	20.7		38° 24'	1270 ✓
		12	22.3	19.8		35° 50'	1155 ✓
		13	21.3	18.8		34° 31'	1100 ✓
		14	20.4	17.9		33° 41'	1066 ✓
		15	19.3	16.8		32° 41'	1027 ✓
		16	18.0	15.5		31° 52'	995 ✓
		17	16.7	14.2		31° 03'	963 ✓
		18	15.4	12.9		30° 22'	937 ✓
		19	13.4	10.9		29° 29'	905 ✓
		20	11.3	8.8		28° 28	868 ✓

Tide -2.5 ✓
Zero Adj -1.0 ✓
Boat Adj +1.0
Net -2.5 ✓



Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 149
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 8-11-55
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 2301 PG. 150 Job No. 0310.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-11-55 Date No.

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

Indexed E. C. Johnson Date Date Date No.

STATION	B.S.	H.I.	F.S.	ELEV.	
Inst. Sight At OR	#	~~Color~~ A.D	C.D.	Time Hor. Ang.	Remarks
		9.9	7.4 6.57	2.?	847 Cut 17 6+00-N

22+00

0+00

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 8-53

761 298 307 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.

670

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
4+00 T.P. 463 FT. L.	1377	2080		703		
6+10			+45	253		BRK
26 FT L			+29	237		BRK
53 " "			12	196		"
100			30	178		
200			63	145		
300			78	130		
375 " "			80	128		BRK
400 " "			85	123		
440 " "			86	122		BRK
464 " "			81	127		"
500 " "			84	124		
6+00 500 FT. L.			88	120	TOP OF ROCK GROIN	
600 FT. L.			104	104		
6+00 600 FT. L.			85	123	TOP OF ROCK GROIN	
623 FT. L.			108	100		
6+00 " " "			89	119	TOP OF ROCK GROIN	
670 " "			158	50		
6+00 700 " "			136	72	TOP OF ROCK GROIN	
" 740 " "			139	69	" " " "	
T.P. 670 FT L.			1470	610		

INSHORE
GROIN N. 6+00
PROFILE AT 6+10

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2301 PG. 157
No. ____ Date ____ Date ____ Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by E.F.&G.D. Notes E.F.&G.D. Date 8-11-55
No. ____ Date ____ Date ____ Map No. ____ Date ____

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 2+00		Sight on 6+10	
T.P.	0 6	6 7		6 10				
			6 0	0 7	56° 40'	623	927	775
			8 4	-1 7	57 53	653		812
			12 5	-5 9	59 26	694		864
			17 0	-1 6 3	61 07	743		924
			21 0	-1 4 3	62 52	800	1190	995

F. B. 2301 Pg. 152 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Date Date No.
Survey by EE&GD Notes EE&GD Notes Chkd. Checked X-Sec.
Indexed K. C. Johnson Date Date Date No.

761 298 307 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 4+00		Sight on 8+00
6+10							
T.P. 670 FT. L.	1351	1961		610			
T.P.	1694	2923	732	1229			
8+00			23	269			
17 FT L.			28	264			BRK, TOP.
46 " "			100	192			BRK, BOT.
100 " "			124	168			
148 " "			146	146			BRK
190 " "			169	123			"
200 " "			170	122			
300 " "			160	132			
T.P.	604	1769	1758	1165			
400 FT. L.			38	139			
470 " "			62	115			BRK
500 " "			64	113			
540 " "			66	111			
T.P. 569 " "	038	660	1147	622	T.P.		
			58	08	64° 42'	846 (565	54°42'?)
			90	-24	62 27	767 ✓	
			141	-75	64 44	847 ✓	
			195	-129	65 53	894 ✓	

INSHORE
N. 8+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 153
No. ____ Date ____ Date ____ Survey of BEACH EROSION
X-Sec. Notes Chkd. ____ Checked ____ Survey by EE & GD Notes EE & GD Date 8-11-55
No. ____ Date ____ Date ____ Map No. ____ Date ____ Date ____

F. B. 2301 Pg. 154 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by E.E. & G.D. Notes E.E. & G.D. 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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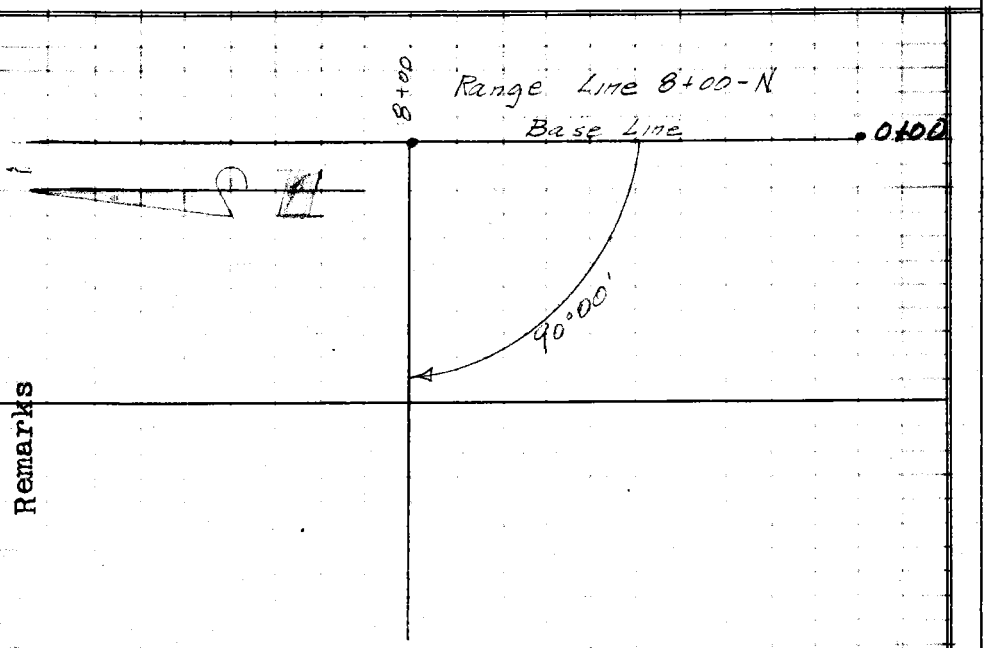
76L298 307 8-53

Profile No.	Notes Red.	Plotted	Job No. 0300.01	Division No. 10	F. B. 2301	Pg. 155
	Date	Date	Survey of Beach Erosion			
X-Sec. No.	Notes Chkd.	Checked	Survey by Van Doren	Notes J.V.E.	Date 8-11-55	
	Date	Date	Map No.	Indexed C. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At CH	#	Color	Time	Hor. Ang.	
	1	30.7	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'	

N-1A

8+00-N

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

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726 Los Angeles County Engineering Bldg.

761 298 307 8-53

E.B. 2301 PG. 156 Job No. 8300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

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

Indexed A. 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. Sight At OH	#	Color	Time	Hor. Ang.		Remarks
8+00-N						
N-19						
	24		7:07			
					Range line 8+00-N	

761 298 307 8-53

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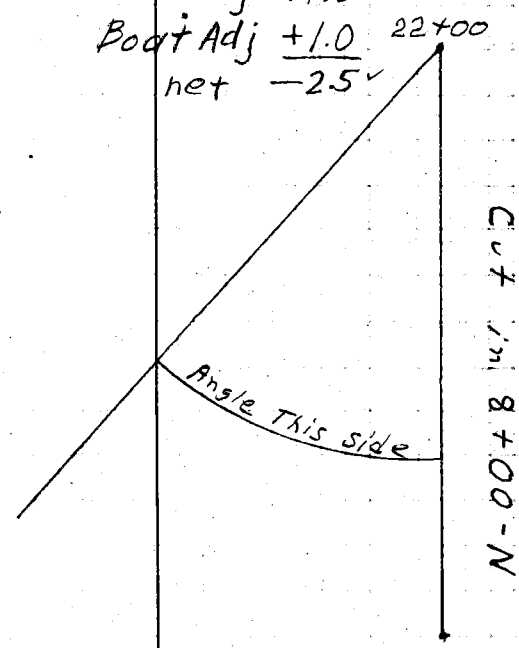
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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. At	Sight On	#	A.D. ~~Color~~	C.D.	Time	Hor. Ang.		
		1	30.5	28.0	7:01	62° 27'	2684 ✓	Tide [illegible] ✓
		2	29.3	26.8		61° 07'	2538 ✓	Zero Adj -1.0 ✓
		3	28.6	26.1		59° 26'	2370	Boat Adj +1.0
		4	27.7	25.2		57° 39'	2210 ✓	net -2.5 ✓
		5	27.1	24.6		55° 59'	2074 ✓	
		6	26.3	23.8		54° 16'	1946 ✓	
		7	25.8	23.3		52° 27'	1821 ✓	
22+00	0+00	8	25.3	22.8		50° 28'	1696 ✓	
		9	24.9	22.4		48° 47'	1598 ✓	
		10	24.2	21.7		46° 04'	1453 ✓	
		11	23.5	21.0		43° 54'	1347 ✓	
		12	22.9	20.4		42° 11'	1269 ✓	
		13	22.9	20.4		41° 18'	1230 ✓	
		14	22.6	20.1		40° 27'	1194 ✓	
		15	22.2	19.7		39° 26'	1151 ✓	
		16	21.3	18.8		38° 23'	1109 ✓	
		17	20.3	17.8		37° 26'	1072 ✓	
		18	19.3	16.8		36° 36'	1040 ✓	
		19	18.6	16.1		35° 53'	1013 ✓	
		20	17.5	15.0		35° 11'	987 ✓	



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 157
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 8-11-55
No. ____ Date ____ Date ____ Map No. ____ Date ____

76L298 307 8-53

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

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Color		Time	Hor. Ang.	Remarks	
		21	16.2	13.7		[illegible]	959 ✓	Cut in 8+00-N
		22	15.3	12.8		[illegible]	929 ✓	
		23	13.8	11.3		[illegible]	902 ✓	
		24	12.2	9.7	7:07	[illegible]	873 ✓	
22+00-N	0+00							

F.B. 2301 Pg. 158 Job No. 0300.02 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Study Date 8-11-55 Date No.
Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.
Index C. Johnson Date Date Date No.

761 298 307 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 6+00	Sight on 10+00
800 T.P. Line #2	16 94	29 23		12 29		
10+00			2 7	26 5		
22 FT L			5 0	24 2		
57 "			11 0	18 2		
129 " "			13 0	16 2		
8+00 T.P. ±300 FT L	6 04	17 69	17 58	11 65		
200 FT. L			4 7	13 0		
300 " "			3 3	14 4		
340 " "			2 6	15 1		Low
400 " "			5 3	12 4		
420 " "			5 7	12 0		
500 " "			3 9	13 8		
547 " "			3 7	14 0		BRK
568 " "			5 6	12 1		
600 " "			5 7	12 0		
635 " "			6 0	11 7		
T.P. 694 " "	3 32	6 38	14 63	3 06		
			7 4	-1 0	61 37 739	
			13 2	-6 8	64 24 835 ✓	
			18 0	-11 6	66 26 917 ✓	

INSHORE
N. 10+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 159
No. ____ Date ____ Date ____ Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by EE&GD Notes EE&GD Date 8-11-55
No. ____ Date ____ Date ____ Map No. ____ Issued C. Johnson Date ____

F. B. 2301 Pg. 160 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by E.E. & G.D. Notes E.E. & G.D. 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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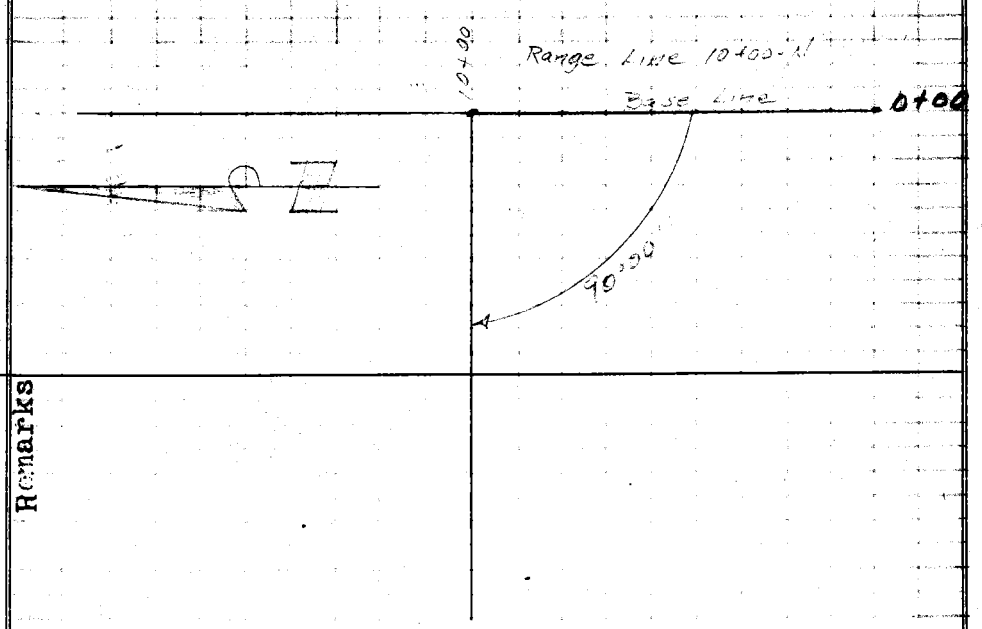
76L298 307 8-53

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301 Pg. 16 11
No.	Date	Date	Survey of Beach Erosion		
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.J.E.	Date 8-11-55
No.	Date	Date	Map No.	Indexed C. Johnson	Date



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Est. Sight 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'	

N-1A

10+00-N

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

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76L298 307 8-53

F. B. 2301 PG. 162

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

Survey of Beach Erosion Date Date No.

Survey by Van Deren Notes J.V.E. 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.	Remarks
~~Inst. Sight~~ At On	#	Color	Time	Hor. Ang.	
10+00-N					
N-1A					
	21				
	22				
	23				
	24				
	25				
	26				
			7:22		
					Range line 10+00-N

761298 307 8-53

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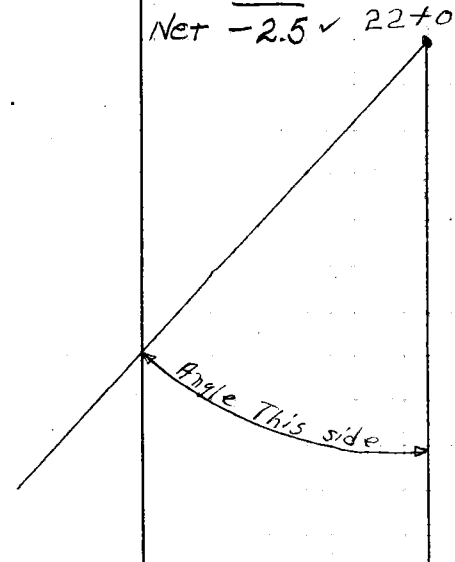
Do not extend notes this side of this line.

Profile No. ____ Date ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 03012-1 Division No. 10 Survey of Beach Erosion Study
X-Sec. No. ____ Date ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by Van Deren Notes R.T. Date 8-11-55
Map No. ____ Date ____ Chief C. Johnson Date ____
F.B. 2301 Pg. 163

STATION	B. S.	H. I.		F. S.	ELEV.		
Inst. Sight At CH	#	Color		Time	Hor. Ang.		Remarks
	1	30.0	27.5	7:16	65° 30'	2633 ✓	Tide -2.5 ✓
	2	29.2	26.7		64° 23'	2503 ✓	Boat +1.0
	3	28.2	25.7		62° 50'	2338 ✓	Zero Ad -1.0 ✓
	4	27.5	25.0		61° 29'	2209 ✓	Net -2.5 ✓
	5	26.9	24.4		59° 55'	2071 ✓	
	6	26.3	23.8		58° 18'	1943 ✓	
	7	25.8	23.3		56° 49'	1835	
	8	25.0	22.5		54° 28'	1680 ✓	
22+00	9	24.4	21.9		52° 33'	1567 ✓	
0+00	10	24.0	21.5		50° 13'	1441 ✓	
	11	23.1	20.6		47° 18'	1300 ✓	
	12	22.6	20.1		45° 22'	1237 ✓	
	13	22.0	19.5		44° 32'	1181 ✓	
	14	21.4	18.9		43° 39'	1145 ✓	
	15	20.8	18.3		42° 56'	1116 ✓	
	16	20.5	18.0		42° 06'	1084 ✓	
	17	19.6	17.1		41° 09'	1049 ✓	
	18	18.8	16.3		40° 31'	1025	
	19	18.2	15.7		39° 53'	1003 ✓	
	20	17.2	14.7		39° 06'	975 ✓	



F.B. 2301 Pg. 164 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-11-55 Date _____ No. _____

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

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

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
22+00-N						
0+00						
		16.2 13.7			948 ✓	Cut in 10+00-N
		14.5 12.0			914 ✓	
		13.6 11.1			885 ✓	
		11.5 9.0			859 ✓	
		10.0 7.5			826 ✓	
		8.1 5.6	7:22		810 ✓	

76 298 307 8-53

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

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 8+00	Sight on 12+00
8+00						
T.P. ±300 FT. L	6 04	17 69		11 65		
T.P.	14 86	28 35	4 20	13 49		
12+00			21	26 2		
50 FT. L.			8 9	19 4		
100 "			11 8	16 5		
200 " "			15 5	12 8		
300 " "			14 0	14 3		
333 " "			13 1	15 2		BRK
400 " "			16 3	12 0		
422 " "			17 0	11 3		BRK
T.P. 422 " "	7 55	19 13	16 77	11 58		
500 FT L.			5 8	13 3		
565 " "			4 8	14 3		
600 " "			7 7	11 4		
644 " "			9 3	9 8		BRK
685 " "	1 94	6 04	15 03	4 10		
			6 9	-0 9	61 33 738 ✓	
			11 2	-5 2	63 44 811 ✓	
			15 8	-9 8	64 52 853 ✓	
			18 6	-12 6	66 24 916 ✓	

INSHORE
N. 12+00

Profile Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 10 F. B. 2301 Pg. 165
No. ____ Date ____ Date ____ Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by EE&GD Notes EE&GD Date 8-11-55
No. ____ Date ____ Date ____ Map No. ____ Indexed. Johnson Date ____

F. B. 2301 Pg. 166 Job No. 2300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of [illegible] Date _____ Date _____ No. _____

Survey by E.E. & G.D. Notes E.E. & G.D. 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

761298 307 8-53

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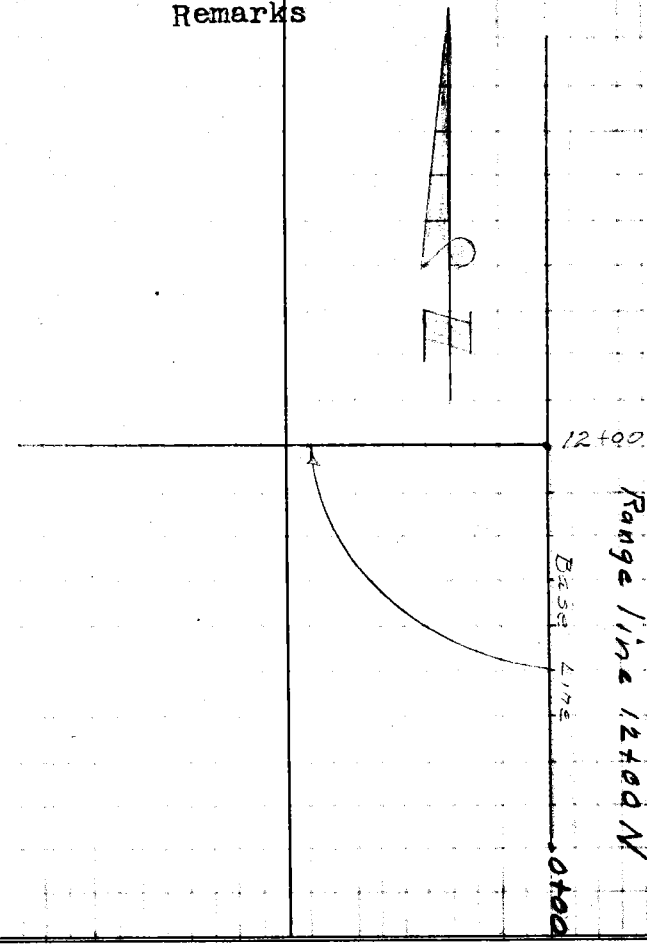
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile No.____ Date____ Notes Red.____ Date____ Plotted____ Date____ Job No. 03000 Division No. 12 Survey of Beach Erosion Survey by Wm Perry Notes J.V.E. Date 8-11-51 F. B. 2301 Pg. 167

X-Sec. No.____ Date____ Notes Chkd.____ Date____ Checked____ Date____ Map No.____ Date____

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst At / Sight On	#	Color	Time	Hor. Ang.	Remarks
	1				
	2				
	3		7:35	90° 00'	
	4			90° 00'	
	5			90° 00'	
	6			90° 00'	
	7			90° 00'	
	8			90° 00'	
	9			90° 00'	
N-14	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'	



12+00 - N

E.B. 2301 Pg. 168 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

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

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

STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At	#	Color	Time	Hor. Ang.		Remarks
12+00-N						
N-1A						
	24					
	25					
	26					
	27					
	28					
			11:45			
						Range line 12+00-N

Do not extend notes this side of this line.

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76L298 307 8-53

76 298 307 8-53

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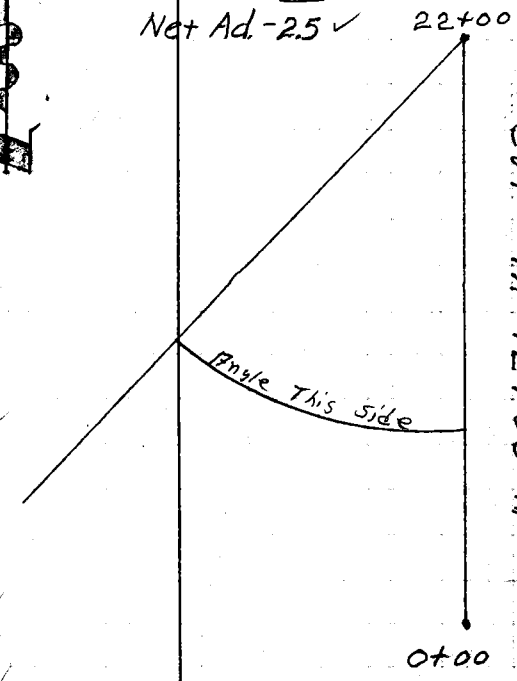
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. AD Color	H. I. CD Color	F. S. Time	ELEV. Hor. Ang.	Remarks
		1	28.4	25.9	Eng Bank		Tide -2.5 ✓
		2	28.2	25.7			Boat + 1.0
		3	29.2	26.7	71 35	68° 36'	2552 ✓ Zero Ad. -1.0 ✓
		4	28.3	25.8		67° [illegible]	2406 ✓ Net Ad. -2.5 ✓
		5	27.7	25.2		66° 00'	2246 ✓
		6	27.2	24.7		64° 23'	2086 ✓
		7	26.4	23.9		62° 59'	1961 ✓
22+00	0+00	8	25.9	23.4		61° 21'	1830 ✓
		9	25.1	22.6		59° 18'	1684 ✓
		10	24.3	21.8		57° 28'	1568 ✓
		11	23.3	20.8		54° 56'	1425 ✓
		12	23.1	20.6		53° 22'	1345 ✓
		13	22.8	20.3		52° 29'	1302 ✓
		14	22.5	20.0		51° 48'	1271 ✓
		15	22.2	19.7		50° 58'	1233
		16	22.2	19.7		50° 08'	1197 ✓
		17	21.6	19.1		49° 08'	1156 ✓
		18	21.2	18.7		48° 07'	1115 ✓
		19	20.2	17.7		47° 07'	1077 ✓
		20	19.1	16.6		45° 58'	1034 ✓



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 169
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 8-11-55
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

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F. B. 2301 PG. 170 Job No. 0380.02 Division No. 10 Notes Red. Date 6-11-55 Plotted Date Profile No.
Survey of Beach Erosion Study Notes Chkd. Checked X-Sec. No.
Survey by Van Deren Notes R.T. Date Date
Indexed C. Johnson Date Date

STATION		B. S.	H. I.		F. S.	ELEV.			
Inst. At	Sight On	#	Color		Time	Hor. Ang.		Remarks	
		21	18.1	15.6		[illegible]	1003 ✓	Cut in	12+00-N
		22	17.2	14.7		[illegible]	970 ✓		
		23	16.2	13.7		[illegible]	939 ✓		
		24	14.7	12.2		[illegible]	905 ✓		
		25	13.2	10.7		[illegible]	874 ✓		
22+00-N		26	11.5	9.0		[illegible]	844 ✓		
	0+00	27	10.0	7.5		[illegible]	821 ✓		
		28	8.5?	6.0	7:41	[illegible]	798 ✓		

761 298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 10+00	Sight on 14+00
N 12+00						
T.P. (LINE #2)	14 86	28 35		13 49		
14+00			1 7	26 6		
60 FT. L.			9 8	18 5		
100			11 5	16 8		
200			15 4	12 9		
300			14 3	14 0		
330			13 6	14 7		
400			15 7	12 6		
T.P. + 422 FT. L.	7 55	19 13	16 77	11 58		
422 FT. L.			7 8	11 3		
500 "			5 6	13 5		
565 " "			4 2	14 9		
600 "			6 3	12 8		
633			7 4	11 71		BRK. TO WATER
T.P. 685 FT. L.	7 40	11 50	15 03	4 10		
T.P.	4 60	7 6	8 5	3 0		
			8 7	-1 1	61° 33' 738	
			13 6	-6 0	63 31 806	
			19 0	-11 4	65 14 867	

INSHORE
N. 14+00

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 171
No. Date Date Survey of Beach Erosion
X-Sec. Notes Chkd. Checked Survey by EE&G.D. Notes EE&G.D. Date 8-11-55
No. Date Date Map No. Date

F. B. 2301 Pg. 172 | Job No. 0300.02 | Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion | Date | Date | No.

Survey by E.F. & G.D. | Notes E.F. & G.D. | 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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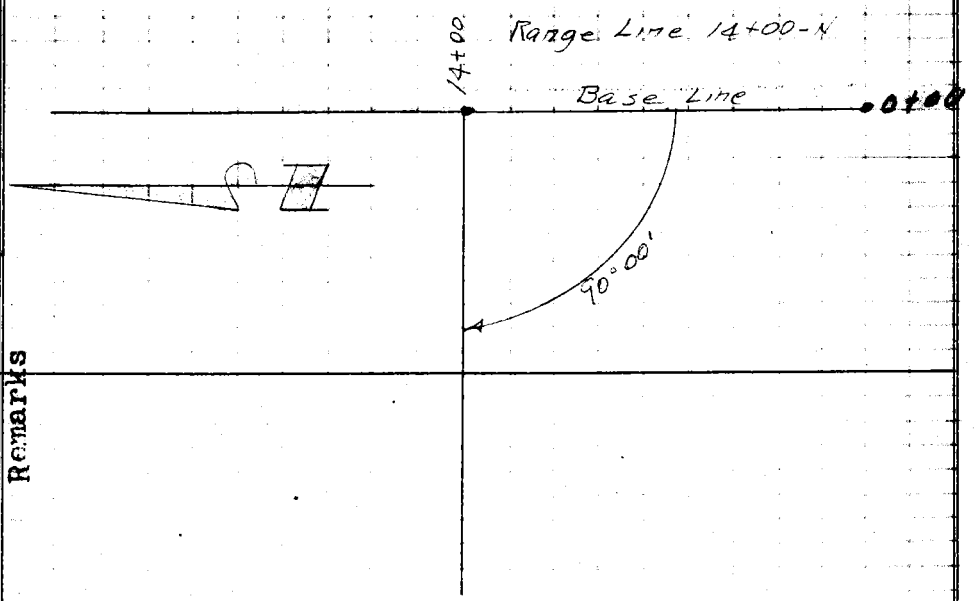
Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301	Pg. 173
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.J.S.	Date 8-11-55	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		7:59	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'	
				8:04	

N-1A

14+00-N

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76L298 307 8-53

F. B. 2301 PG. 174 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

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

Indexed A. C. Johnson Date Date Date No.

76L298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
14+00-N						
N-1A						
					Range Line 14+00-N	

761 298 307 8-53

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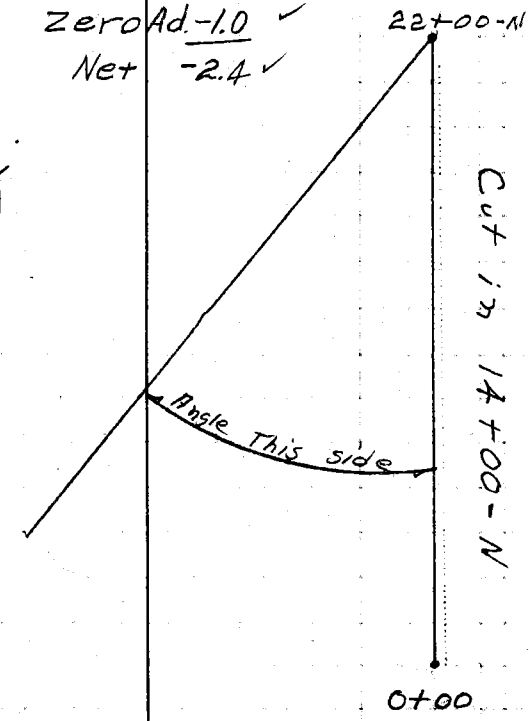
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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 A.D.	C.D.	Time	Hor. Ang.		Remarks
		1	29.7	27.3	7:59	[illegible]	2517 ✓	Tide -2.4 ✓
		2	28.3	25.9		[illegible]	2341 ✓	Boat +1.0
		3	27.5	25.1		[illegible]	2222 ✓	Zero Ad. -1.0 ✓
		4	26.9	24.5		69° 23'	2126 ✓	Net -2.4 ✓
		5	26.4	24.0		[illegible]	2027 ✓	
		6	25.6	23.2		66° 56'	1870 ✓	
		7	24.7	22.3		64° 56'	1710 ✓	
22+00-N	0+00	8	23.8	21.4		63° 09'	1580 ✓	
		9	23.1	20.7		61° 02'	1445 ✓	
		10	22.3	19.9		58° 39'	1313 ✓	
		11	21.1	18.7		53° 56'	1183 ✓	
		12	20.4	18.0		[illegible]	1094 ✓	
		13	19.1	16.7		[illegible]	1030 ✓	
		14	18.6	16.2		51° 23'	1002 ✓	
		15	17.5	15.1		51° 33'	1008 ✓	
		16	16.2	13.8		[illegible]	936 ✓	
		17	14.2	11.8		47° 57'	887 ✓	
		18	12.0	9.6		46° 46'	851 ✓	
		19	10.0	7.6		45° 53'	825 ✓	
		20	7.7	5.3	8:04	45° 06'	803 ✓	



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 175
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-11-55
No. Date Date Map No. Inspected C. Johnson Date

F. B. 2301 Pg. 176 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-11-55 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	#	Color	Time	Hor. Ang.		

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

761298 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 12+00	Sight on 16+00
14+00						
T.P. ± 422 Ft. L.	7 55	19 13		11 58		
T.P.	14 60	28 41	5 32	13 81		
16+00			1 1	2 73		
66 Ft. L.			10 4	18 0		
100 " "			11 3	17 1		
200 " "			15 0	13 4		
300 " "			14 4	14 0		
T.P. 300 " "	5 58	19 62	14 37	14 04		
354 Ft. L.			5 2	14 4		
400 " "			7 0	12 6		
433 " "			8 0	11 6		
500 " "			6 6	13 0		
565 " "			5 4	14 2		
600 " "			7 9	11 7		
659 " "			9 8	9.8 ~~10 1~~		
T.P. 687 " "	1 73	7 78	13 57	6 05		
			8 0	-0 2	61° 10' 727	
			11 8	-4 0	63 14 793	
			15 8	-8 0	64 29 838	
			18 6	-10 8	65 14 867	

N. 16+00 INSHORE

Profile Notes Red ____ Plotted ____ Job No. 030002 Division No. 10 F. B. 2301 Pg. 177
No. ____ Date ____ Date ____ Survey of Parcel Exp. 3/30/61
X-Sec. Notes Chkd. ____ Checked ____ Survey by Exp. & G.D. Notes Exp. & G.D. Date 8-11-55
No. ____ Date ____ Date ____ Map No. ____ Map Chk. John Johnson Date

F. B. 2301 Pg. 178 Job No. 030002 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

Survey by E.E. & G.D. Notes E.E. & G.D. Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L258 307 8-53

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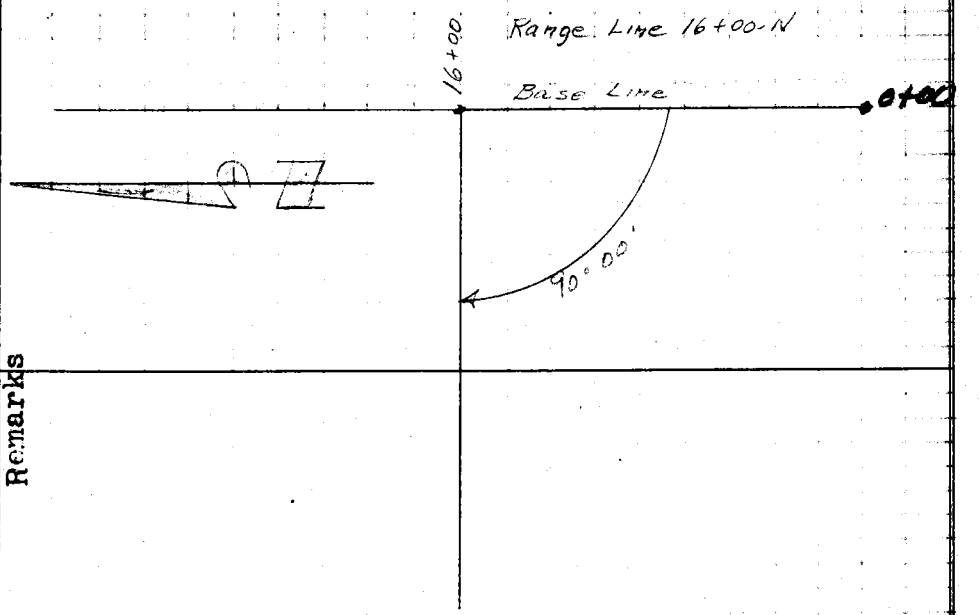
Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301	Pg. 179
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes V.J.E.	Date 8-11-55	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		8:13	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'	

N-1A

16+00-N

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

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76L298 307 8-53

F. B. 2301 PG. 180 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

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

Indexed A. 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.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
16+00-N						
N-1A						
	21		8:18			
					Range Line 16+00-N	

761298.307.8-53

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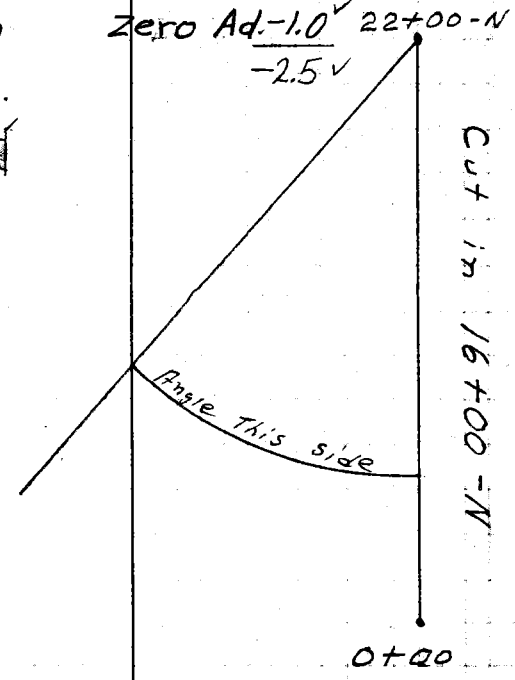
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight Ch	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks
		1	29.1	26.6	8:13	77° 06'	2620	
		2	28.4	25.9		75° 59'	2403	
		3	27.2	24.7		75° 06'	2255	
		4	26.3	23.8		74° 07'	2109	
		5	26.0	23.5		72° 51'	1944	
		6	25.9	23.4		71° 39'	1809	
		7	24.1	21.6		70° 02'	1652	
22+00-N	0+00	8	23.6	21.1		68° 26'	1518	
		9	22.6	20.1		66° 45'	1397	
		10	22.0	19.5		64° 22'	1250	
		11	20.4	17.9		61° 43'	1115	
		12	19.4	16.9		60° 11'	1047	
		13	18.5	16.0		58° 58'	997	
		14	17.9	15.4		58° 19'	972	
		15	16.7	14.2		57° 37'	946	
		16	15.9	13.4		56° 54'	920	
		17	15.0	12.5		55° 58'	888	
		18	13.5	11.0		55° 21'	868	
		19	10.9	8.4		54° 19'	836	
		20	8.9	6.4		53° 15'	804	

Tide -2.5
Boat +1.0
Zero Ad. -1.0
-2.5



Profile Notes Red. Plotted Job No. 030002 Division No. 10 F.B. 2301 Pg. 181
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-11-55
No. Date Date Map No. Date

F.B. 2301 PG. 182 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-11-55 Date _____ No. _____

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

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

76L298 307 8-53

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STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
22+00-N						
0+00						
	71	7.4 4.9	81.18	5[illegible]	781 1 Cut in	16+00-N

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.		
T.P. ± 422 FT. L.	7 55	19 13		11 58		
T. P	14 60	28 41	5 32	13 81		
18+00			17	26 7		
20 FT. L.			62	22 2		
42 " "			104	18 0		
100			124	16 0		
200			140	14 4		
T.P. 300 FT. L.	5 58	19.62	14 37	14 04		
300 FT L			58	13 8		
355 " "			50	14 6		
400 " "			61	13 5		
412 " "			62	13 4		BRK
430 " "			73	12 3		"
500 " "			66	13 0		
550			64	13 2		
570			67	12 9		
600			85	11 1		
628			90	10 6		BRK TO WATER EDGE
T.P. 687	1 73	7 78	13 57	6 05		
T.P.	2 10	7 24	2 64	5 14		

INSHORE
N. 18+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 183
No. ____ Date ____ Date ____ Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by E.E.&G.D. Notes E.E.&G.D. Date 8-11-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F. B. 2301 PG. 184 Job No. 2300.02 Division No. 10 Notes Red. ____ Plotted ____ Profile

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

Survey by E.E. & G.D. Notes E.E. & G.D. ____ Notes Chkd. ____ Checked ____ X-Sec.

Indexed A. 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.

STATION	B. S.	H. I.	F. S.	ELEV.	[illegible] 1400	[illegible]
		7.24	7.3	[illegible]	51.06 725 ✓	
			11.7	[illegible]	62.58 781 ✓	
			[illegible]	[illegible]	55.45 811 ✓	
			17.[illegible]	[illegible]	69.22 834 ✓	

76L298 307 8-53

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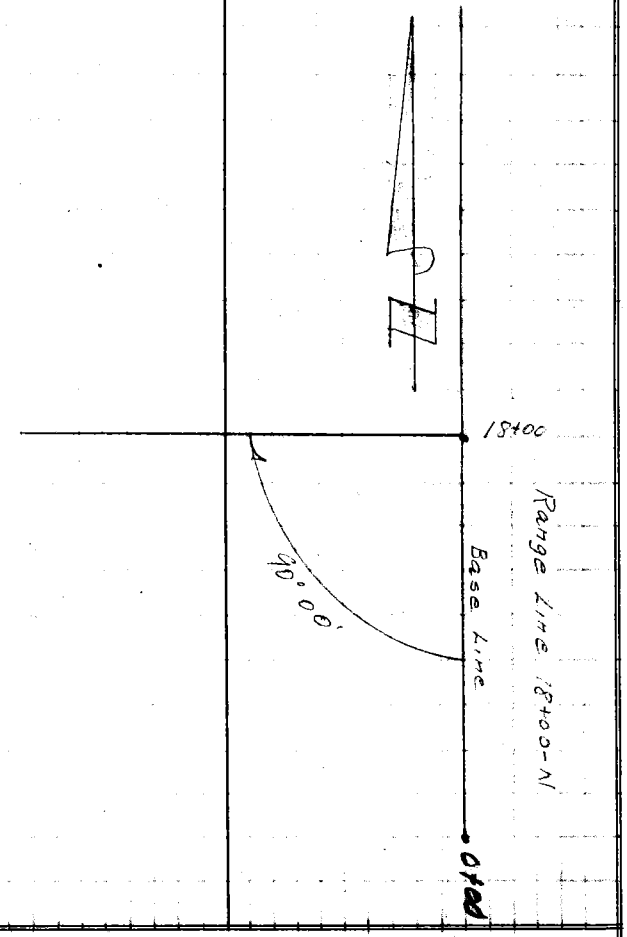
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile No.____ Notes Red____ Date____ Plotted____ Date____ Job No. 23001 Division No. 10 Survey of Beach Erosion
X-Sec. No.____ Notes Chkd.____ Date____ Checked____ Date____ Survey by Van Dorn Notes J.L.E. Date____ Map No.____ Notes R. Johnson Date 8-11-53

F. B. 2301 Pg. 183

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		8:29	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'	
18+00-N	10			90°00'	
N-1A	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'	



F. B. 2301 PG. 186 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

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

Indexed A. C. Johnson Date Date Date No.

76L298 307 8-53

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STATION	B.S.	H.I.	F.S.	ELEV.	
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
18+00-N					
N-1A					
	11				
			8:33		
					Range Line 18+00-N

761298 307 8-53

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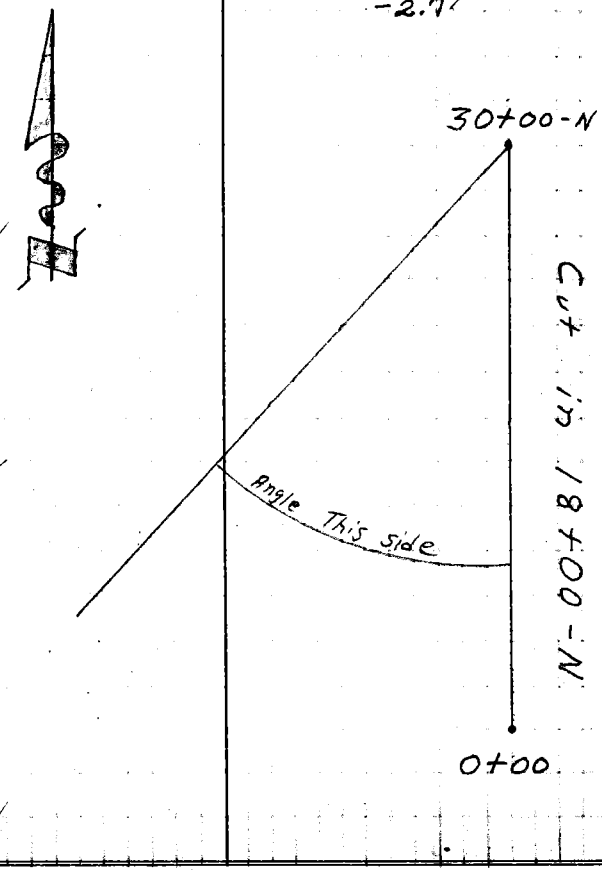
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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 CH	#	Color	Time	Hor. Ang.	Remarks
	1	28.5 ✓ 26.0	8:29	65° 01'	2575 ✓
	2	27.9 ✓ 25.2		63° 41'	2426 ✓
	3	27.3 ✓ 24.6		62° 02'	2260
	4	26.3 ✓ 23.6		60° 12'	2095 ✓
	5	25.9 ✓ 23.2		58° 43'	1975 ✓
	6	25.4 ✓ 22.7		57° 10'	1870 ✓
	7	24.9 ✓ 22.2		55° 35'	1752 ✓
	8	24.4 ✓ 21.7		54° 06'	1654 ✓
	9	23.4 ✓ 20.7		52° 06'	1542 ✓
	10	22.8 ✓ 20.1		49° 44'	1417 ✓
	11	22.0 ✓ 19.3		47° 28'	1308 ✓
	12	21.3 ✓ 18.6		45° 29'	1220 ✓
	13	20.5 ✓ 17.8		43° 20'	1132 ✓
	14	19.6 ✓ 16.9		41° 15'	1052 ✓
	15	18.5 ✓ 15.8		39° 45'	998 ✓
	16	17.6 ✓ 14.9		38° 53'	968 ✓
	17	16.6 ✓ 13.9		37° 50'	932 ✓
	18	15.1 ✓ 12.4		36° 45'	896 ✓
	19	13.2 ✓ 10.5		35° 48'	865 ✓
	20	11.1 ✓ 8.4		34° 42'	831 ✓

Zero Adj. -1.1
Boat Adj. +1.0
Tide -2.6
-2.7



30+00-N

0+00

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0320-2 Division No. 10 F. B. 2301 Pg. 187
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Study
Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by Van Daren Notes R.T. Date 8-11-55
Map No. ____ Date ____ Map Chk. G. Johnson Date ____

F.B. 2301 PG. 188 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-11-55 Date No.

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

Indexed A. C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Pt.	[illegible]	Color	Time	[illegible]	Remark
30+00-N					
0+00					
	21	9.2 ✓ 6.5	8.33	3[illegible]	806 ✓ Cut in 18+00-N

76L298 307 8-53

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76 298 307 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 X

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 24+00		Sight on 20+00
18+00 T.P. 300 FT L.	5 58	19 62		14 04			
T.P.	5 56	21 01	4 17	15 45			
20+00			+23 2	44 2			
35 FT. L.			+1 1	22 1			
100 " "			46	16 4 ~~15 4~~			
200 " "			63	14 7 ~~13 7~~			
300 " "			62	14 8			
350 " "			64	14 6			
400 " "			75	13 5			
T.P. 429 " "	5 04	17 91	8 14	12 87			
440 " "			57	12 2			
500 " "			44	13 5			
524 " "			44	13 5			BRK
577 " "			60	11 9			
600 " "			75	10 4			
640 " "			87	9 2			BRK.
T.P. 670 " "	1 73	7 33	12 31	5 60			
			6 1	1 2	60° 21'	703	
			10 0	-2 7	61 38	741	
			15 6	-8 3	63 42	809	
			19 5	-12 2	64 37	843	

18
+ 5.2
23.2
18.0
- 16.9
7.1

INSHORE
N. 20+00

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 189
No. Date Date Survey of Beach Erosion
X-Sec. Notes Chkd. Checked Survey by EE&GD Notes EE&GD Date 8-11-55
No. Date Date Map No. Indexed C. Johnson Date

F. B. 2301 Pg. 190 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by ERGD Notes ERGD 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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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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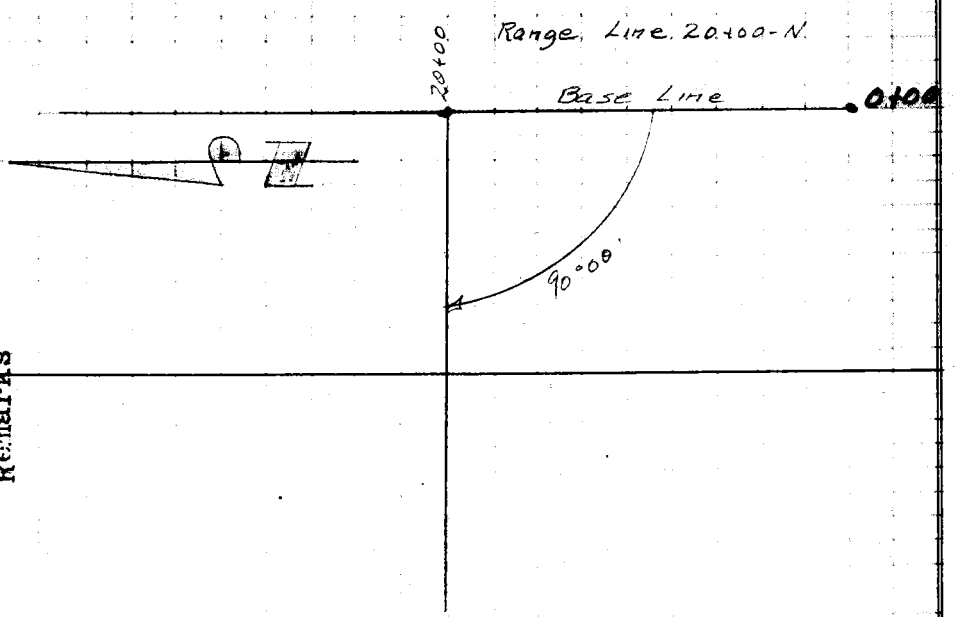
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Profile No.	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 230'	Pg. 191
	Date	Date	Survey of Beach Erosion			
X-Sec. No.	Notes Chkd.	Checked	Survey by VanDeren	Notes J.L.E.	Date 8-11-55	
	Date	Date	Map No.	Indexed A. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
	#	Color	Time	Hor. Ang.	
	1		8:17	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		8:51	90° 00'	

Last Sign On N-1A

20+00-N

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

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LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

761 298 307 8-53

F. B. 2301 PG. 192 Job No. 8300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

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

Indexed A. C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At OH	#	Color	Time	Hor. Ang.		Remarks
20+00-N						
N-1A						
						Range Line 20+00-N

76L298 307 8-53

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

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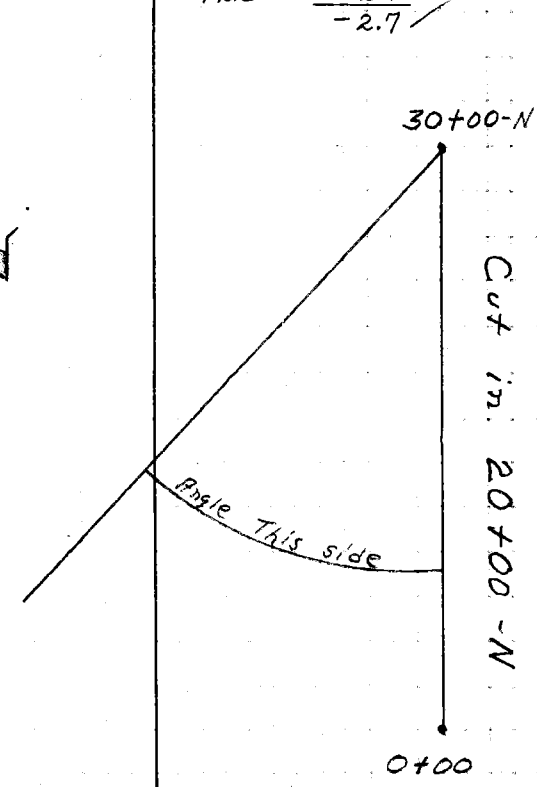
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.	
Inst. At	Sight On	#	Color		Time	Hor. Ang.	
		1	27.4	24.7	8:47	66° 13'	2269
		2	26.8	24.1		65° 07'	2156
		3	26.2	23.5		64° 00'	2050
		4	25.7	23.0		62° 33'	1925
		5	25.1	22.4		61° 09'	1815
		6	24.2	21.5		59° 06'	1671
		7	23.4	20.7		56° 30'	1511
30+00-N	0+00	8	22.4	19.7		53° 54'	1371
		9	21.7	19.0		51° 42'	1266
		10	20.3	17.6		48° 34'	1133
		11	18.9	16.2		46° 04'	1038
		12	17.9	15.2		44° 18'	976
		13	16.9	14.2		43° 26'	947
		14	15.9	13.2		42° 35'	919
		15	14.9	12.2		41° 40'	890
		16	13.6	10.9		40° 50'	864
		17	11.8	9.1		39° 50'	834
		18	9.8	7.1	8:51	38° 48'	804

Remarks Zero Adj. − 1.0
Boat Adj. + 1.0
Tide − 2.7
− 2.7



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 193
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-11-55
No. Date Date Map No. Indexed C. Johnson Date

F.B. 2301 Pg. 194 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-11-55 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	#	Color	Time	Hor. Ang.		

Do not extend notes this side of this line.

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L298.307 8-53

761 298 307 8-53

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Do not extend notes this side of this line.

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 0300.02 Pg. 195
X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of Beach Expsn. Survey by EF&SD Notes FEDGO Date 8-11-55
Map No. ____ Date ____ Notes G. Johnson Date ____

N. 22+00 INSHORE

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 26+00	Sight on 22+00	
18+00							
T.P. 300 Ft. L.	5 58	19 62		14 04			
	5 56	21 01	4 17	15 45			
22+00						+18.0	
14 Ft. L.			+2 27	43 7		+4.7	+18.0
55 Ft. L.			+2 25	43 5	TOP. BRK.	22.7	+4.5
100 " "			1 7	19 3	BOT. BRK.		22.5
200 " "			4 1	16 9			
300 " "			4 6	16 4			
350 " "			5 1	15 9			
400 " "			6 2	14 8			
T.P. 429 " "	5 04	17 91	8 3	12 7			
440 " "			8 14	12 8 7			
500 " "			6 4	11 5			
510 " "			4 8	13 1			
565 " "			4 4	13 5			
600 " "			6 6	11 3			
640 " "			7 0	10 9			
T.P. 670 " "	1 1	6 7	1 1 7	6 2			
			12 31	5 60			
			5 0	1 7	59 58	692	
			9 9	-3 2	61 12	743	
			15 3	-8 6	63 96	813	
			20 5	-13 8	65 12	866	

F. B. 2301 Pg. 196 Job No. 030202 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

Survey by EE&OD Notes EE&OD 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.

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

PLEASE RETURN TO

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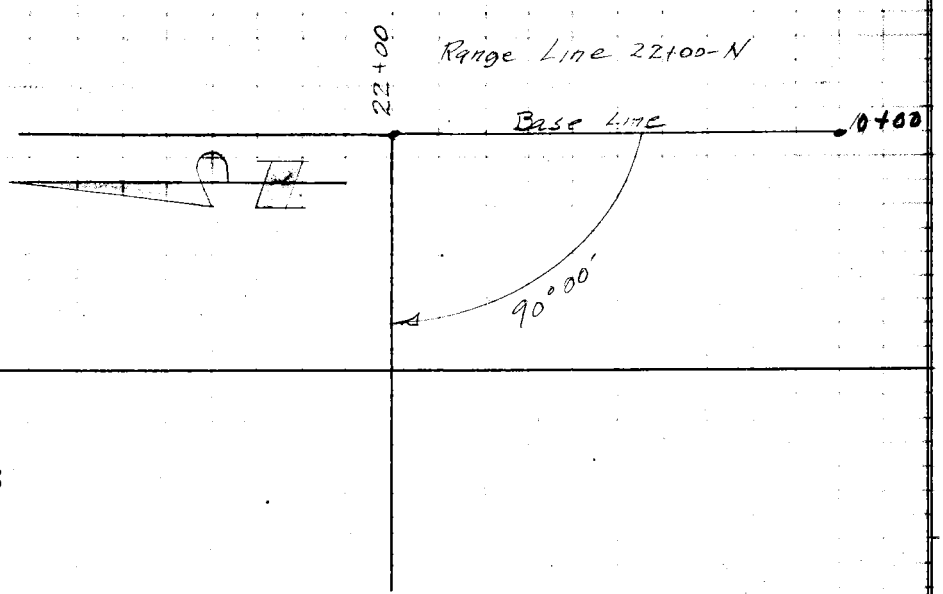
726 LOS ANGELES COUNTY ENGINEERING BLDG.

76L298 307 8-53

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301	Pg. 197
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.J.E.	Date 8-11-55	
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		9:00	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'	

N-1A

22+00-N

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

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LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

761 298 307 8-53

F. B. 2301 PG. 198 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

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

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

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
22+00-N					
N-1A					
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	21				
	22				
	23				
			9:06	[illegible]	
				[illegible]	
					Range Line 22+00-N

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.

761 298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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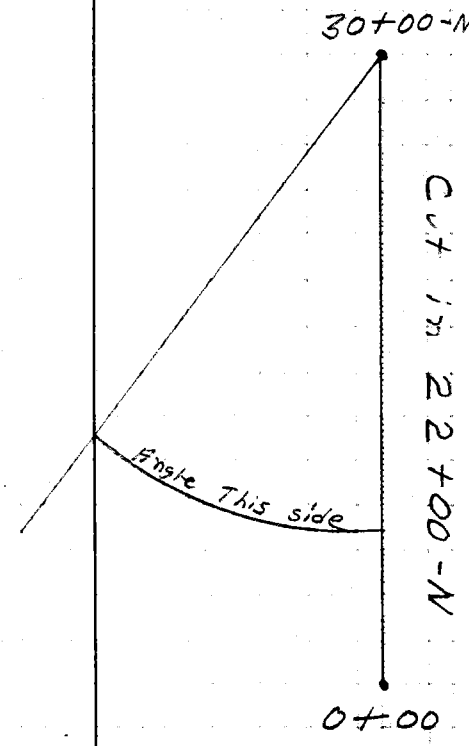
Do not extend notes this side of this line.

STATION Inst. At	Sight Ch	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks
		1	30.0	27.8	9[illegible] 00	73° 19'	2669	Zero Adj. −0.5
		2	29.0	26.8		72° 52'	2595	Boat Adj. +1.0
		3	28.0	25.8		72° 00'	2462	Tide −2.7
		4	27.4	25.2		71° 09'	2343	−2.2
		5	26.8	24.6		70° 09'	2216	
		6	26.0	23.8		69° [illegible]	2097	
		7	25.4	23.2		68° [illegible]	1997	
30+00-N	0+00	8	24.6	22.4		66° 42'	1858	
		9	24.0	21.8		65° 06'	1723	
		10	23.2	21.0		63° 36'	1612	
		11	22.5	20.3		6[illegible]° [illegible]	1476	
		12	21.6	19.4		5[illegible]° [illegible]	1338	
		13	20.4	18.2		56° 45'	1220	
		14	19.6	17.4		54° 09'	1107	
		15	18.9	16.7		52° 20'	1036	
		16	18.2	16.0		51° 24'	1002	
		17	17.3	15.1		50° 36'	974	
		18	16.9	14.7		49° 45'	945	
		19	15.8	13.6		48° 45'	912	
		20	14.5	12.3		47° 43'	880	



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 199
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 8-11-55
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

F.B. 2301 Pg. 200 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-11-55 Date _____ No. _____

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

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

STATION	B.S.	H.I.	F.S.	ELEV.	Inst. Sight At On # Color Time Hor. Ang.	Remarks
30+00-N						
0+00						
					130 v 10.8	
					93 v 9.1	
					60 v 6.8	
					850	Cut in 22+00-N
					818	
					795	

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76L298 307 8-53

761 298 307 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 ∡ .0.62

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 28+00	Sight on 24+00
22+00						
T.P. 429 FT. L.	5 04	17 91		12 87		
T.P.	4 34	20 17	2 08	15 83		
24+00			+225	42 7		+18.0 +25.0
18 FT. L.			+229	43 1	TOP SLOPE	+ 7.0 − 2.5
58 " "			21	18 1	BOTTOM "	+25.0 +22.5 +25.0 − 2.1 22.9
100 " "			39	16 3		
200 " "			37	16 5		
300 " "			56	14 6		
400 " "			59	14 3		BRK
T.P. 431 " "	5 31	18 84	6 64	13 53		
450 " "			66	12 2		
500 " "			56	13 2		
540 " "			52	13 6		
560 " "			69	11 9		
600 " "			85	10 3		
632 " "			99	8 9		
671 " "	3 35	8 05	14 14	4 70		
			8 5	−0 5	60° 47' 715	
			14 2	−6 2	63 01 786	
			18 5	−10 5	64 21 833	

INSHORE
N. 24+00

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2301 PG. 201
No. Date Date Survey of Beach Erosion
X-Sec. Notes Chkd. Checked Survey by EEAGD Notes EEAGD Date 8-11-55
No. Date Date Map No. Indexed Johnson Date

F. B. 2301 Pg. 202 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by EE&GD Notes EE&GD 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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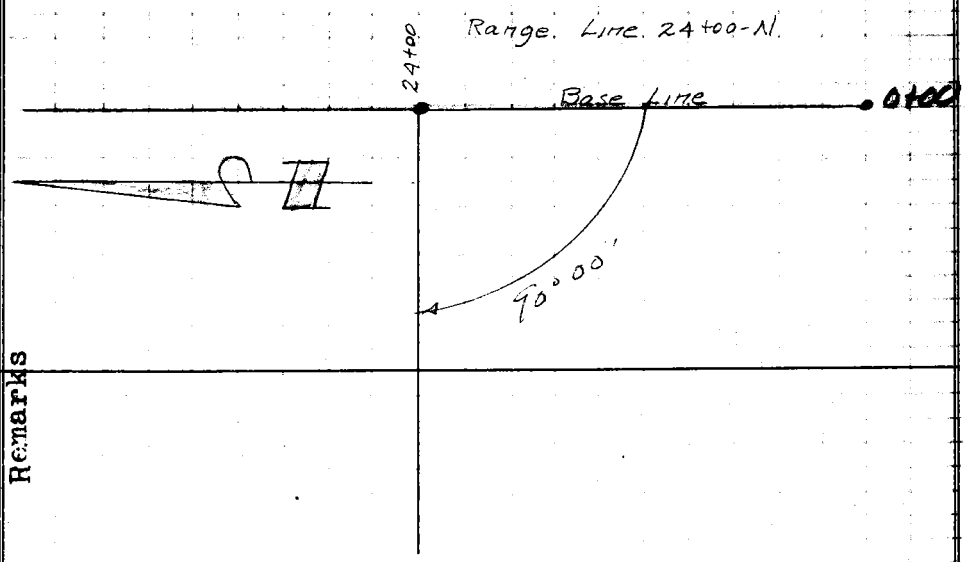
Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301	Pg. 203
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.J.E.	Date 8-11-55	
No.	Date	Date	Map No.	Indexed Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		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			90°00'	
	18			90°00'	
	19			90°00'	
	20			90°00'	

N-1A

24+00-N

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

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761 298 307 8-53

F. B. 2301 PG. 204 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

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

Indexed A. C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
24+00-N						
N-1A						
	21		9:20			
	22					
					Range Line 2400-N	

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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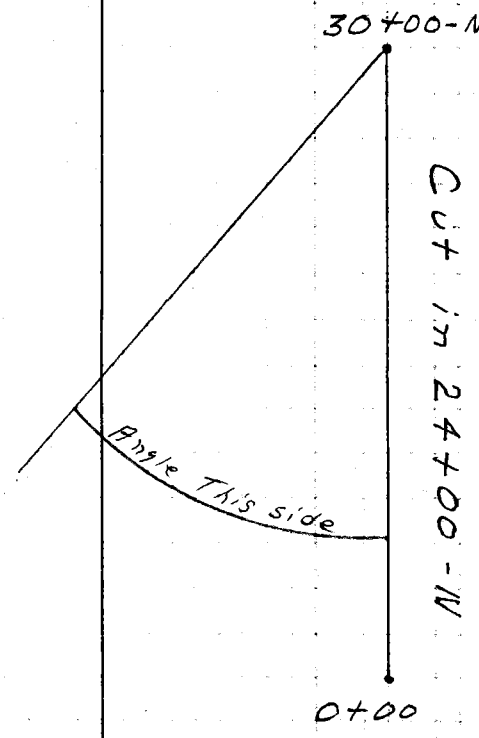
Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.	
Inst. At	Sight On	#	Color		Time	Hor. Ang.	
		1	32.7	30.4	9:15	78° 48'	3030
		2	31.2	28.9		77° 57'	2811
		3	29.8	27.5		77° [illegible]	2655
		4	29.0	26.7		76° 56'	2585
		5	27.8	25.5		76° 00'	2406
		6	26.7	24.4		74° 59'	2237
		7	26.0	23.7		74° 15'	2127
30+00-N	0+00	8	25.2	22.9		73° 16'	1996
		9	24.5	22.2		71° 56'	1839
		10	23.7	21.4		70° 22'	1682
		11	22.8	20.5		68° 28'	1521
		12	22.2	19.9		66° 44'	1395
		13	21.2	18.9		64° 46'	1273
		14	20.3	18.0		62° 33'	1155
		15	19.3	17.0		60° 17'	1051
		16	18.2	15.9		58° 58'	997
		17	17.5	15.2		57° 49'	953
		18	16.0	13.7		56° 35'	909
		19	14.4	12.1		55° 28'	872
		20	12.1	9.8		54° 10'	831

Remarks Zero Adj. −0.5
Boat Adj. +1.0
Tide −2.8
−2.3



Profile Notes Red ____ Plotted ____ Job No. 030002 Division No. 10 F.B. 2301 Pg. 205
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 8-11-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Jonnson Date ____

F. B. 2301 Pg. 206 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-11-55 Date No.

Survey by Van Deren Notes R.T. 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. At.	Sight on		Color	Time	Hon.		Remark
		21	9.6 7.3			804	Cut in 24+00-N
		22	7.7 5.4	9:20		764	

761 298 307 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 X

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 30+00	Sight on 26+00
22+00 T.P. 429 FT. L.	504	1791		1287		
T.P.	434	2017	208	1583		
26+00			+215	417	+18 26.5 +26.5	
28 FT. L.			+210	412	+8.5 -5.0 -5.5 26.5 21.5 +21.0	TOP SLOPE
60 " "			41	161		BOTTOM "
100 " "			44	157		
200 " "			65	137		
300 " "			70	132		
400 " "			60	142		
T.P. 431 " "	531	1884	664	1353		
466 " "			67	121		
500 " "			58	130		
550 " "			54	134		
565 " "			76	112		
600 " "			100	88		
625 " "			104	84		
T.P.	31	78	1414	470		
			77	01	60° 36' 710	
			127	-49	62 45 777	
			170	-92	64 16 830	
			190	-112	64 44 847	

IN SHORE
N 26+00

Profile Notes Red. Plotted Job No. 030002 Division No. 10 F. B. 2301 Pg. 207
No. Date Date Survey of Beach Erosion
X-Sec. Notes Chkd. Checked Survey by EF&GD Notes EF&GD Date 8-11-55
No. Date Date Map No. Date

F. B. 2301 Pg. 208 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by EF&GD Notes EF&GD 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.

PLEASE RETURN TO
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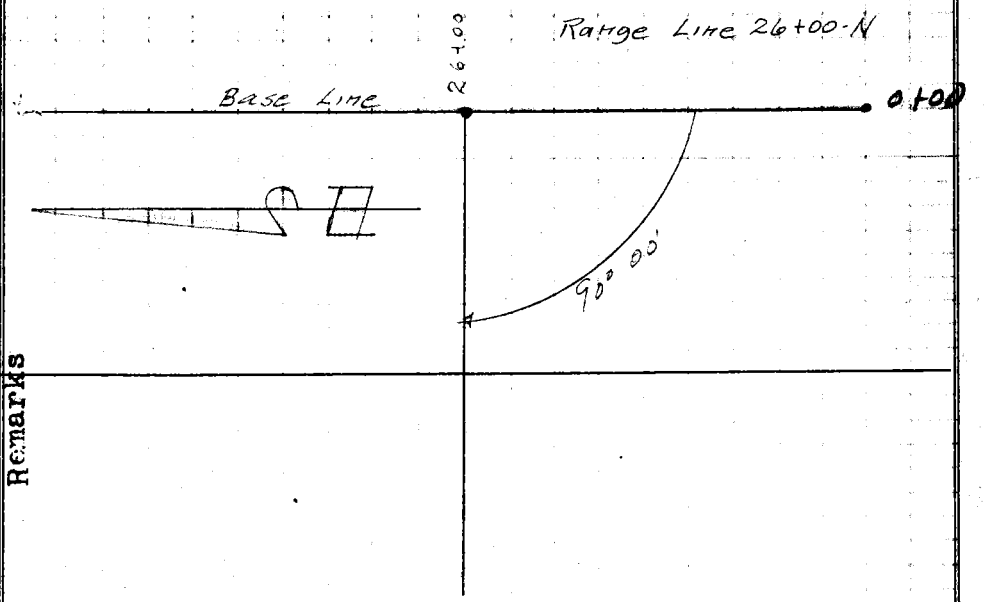
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

761.298 307 8-53

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301	Pg. 207
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.J.E.	Date 8-11-55	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OR	#	Color	Time	Hor. Ang.	
	1		9:33	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'	

N-1A

26+00-N

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

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

Do not extend notes this side of this line.

76L298 307 8-53

F. B. 2301 PG. 210 Job No. 030002 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

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

Indexed K. C. Johnson Date Date Date No.

76L298 307 8-53

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
26+00-N					
N-1A					
	21				
	22				
	23				
			9:41		
					Range Line 26+00-N

76L298 307 8-53

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

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

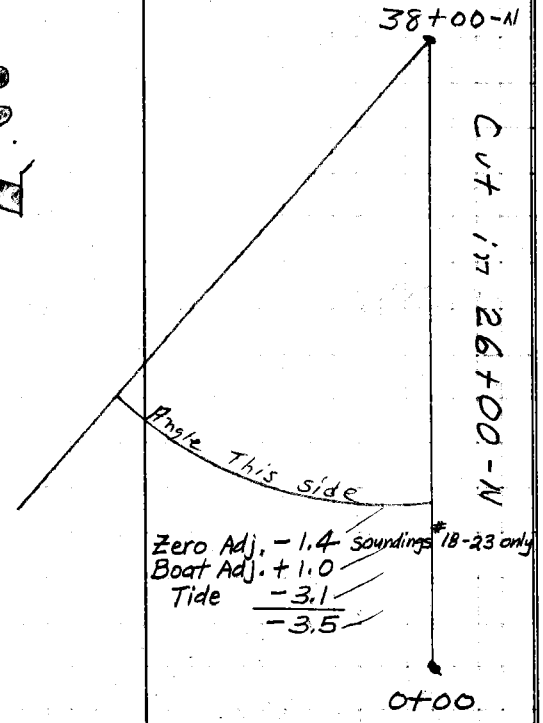
Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight Ch	#	Color		Time	Hor. Ang.		Remarks
		1	30.7	28.2	9:33	66° 22'	2742	
		2	29.7	27.2		65° 25'	2623	
		3	28.7	26.2		64° 30'	2516	
		4	27.9	25.4		63° 02'	2358	
		5	26.7	24.2		61° 55'	2249	
		6	26.3	23.8		60° 13'	2097	
		7	25.4	22.9		58° 23'	1949	
		8	24.8	22.3		56° 36'	1820	
		9	23.7	21.2		54° 07'	1659	
		10	23.0	20.5		51° 43'	1520	
		11	22.2	19.7		49° 58'	1428	
		12	21.2	18.7		45° 52'	1237	
		13	20.2	17.7		42° 37'	1104	
		14	18.2	15.7		39° 33'	991	
		15	17.2	14.7		38° 29'	954	
		16	16.5?	14.0?		37° 28'	920	
		17	☆ 15.7?	13.2?	9:39	36° 32'	889	
		18	16.8	14.3	9:40	37° 20'	915	
		19	15.6	13.1		36° 28'	888	
		20	13.4	10.9		35° 23'	852	

38+00 N

0+00

Remarks Zero Adj. −0.5 soundings
Boat Adj. +1.0 # 1-17 only
Tide −3.0 see below
−2.5



Zero Adj. −1.4 soundings # 18-23 only
Boat Adj. +1.0
Tide −3.1
−3.5

Profile Notes Red. ____ Plotted ____ Job No. 030002 Division No. 10 F.B. 2301 Pg. 211
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 8-11-55
No. ____ Date ____ Date ____ Map No. ____ Indexed E. Johnson Date ____

F.B. 2301 Pg. 212 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-11-55 Date _____ No. _____

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

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

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
38+00-N						
0+00						
Inst. Sight At OH	#	Color	Time	Hor. Ang.		
		11.8	9.3		822	Cut in 26+00-N
		9.3	6.8		792	
		7.5	5.0	9:41	769	

PLEASE RETURN TO
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.

76L298 3C7 8-53

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. Cut-in ∡

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 32+00		Sight on 28+00
26+00 T.P. ± 420 FT. L.	5 31	18 84		13 53			
T.P.	5 49	18 41	5 92	12 92			
28+00			+22 8	41 2	18.0 / 8.0 / 26.0	26.0 / 3.2 / 22.8	
17 FT. L.			+21 5	39 9		26.0 / 4.5 / 21.5	TOP BRK
45 " "			0 0	18 4			BOTTOM. BRK
100 " "			0 6	17 8			
200 " "			4 5	13 9			
300 " "			6 0	12 4			
400 " "			4 7	13 7			
428 " "			4 4	14 0			
500 " "			6 1	12 3			
T.P. 500 " "	6 06	18 84	5 63	12 78			
577 " "			5 8	13 0			BRK
600 " "			8 1	10 7			
636 " "			8 6	10 2			BRK.
T.P. 690 " "	2 03	8 24	12 63	6 21			
			8 4	-0 2	61° 26'	735	
			13 8	-5 6	63 38	807	
			17 2	-9 0	64 42	846	
			19 5	-11 3	65 18	870	

INSHORE
N. 28+00

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 213
No. Date Date Survey of Beach Erosion
X-Sec. Notes Chkd. Checked Survey by EE&GD Notes EE&GD Date 8-11-55
No. Date Date Map No. Indexed C. Johnson Date

F. B. 2301 PG. 214 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

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

Survey by EE&GD Notes EE&GD Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

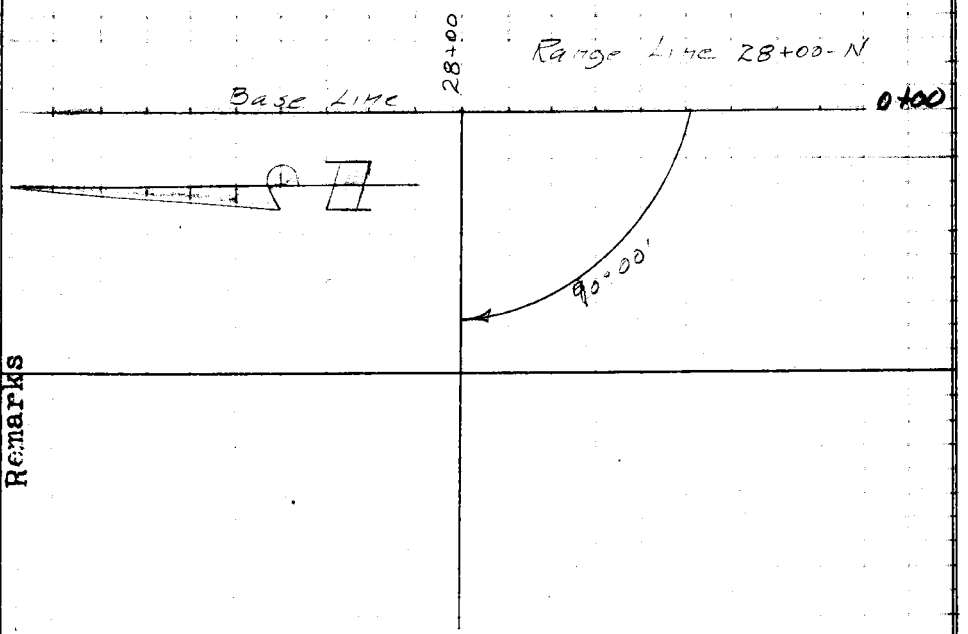
Do not extend notes this side of this line.

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.

76L298 307 8-53

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301	Pg. 215
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.V.E.	Date 8-11-55	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OR	#	Color	Time	Hor. Ang.	
	1		9:49	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'	
				9:54	

N-1A

28+00-N

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

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

Do not extend notes this side of this line.

76L298 307 8-53

F. B. 2301 PG. 216 Job No. 03000Y Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

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

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

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
28+00						
N-1A						
Inst. Sight At OH	#	Color	Time	Hor. Ang.		
						Range Line 28+00-N

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LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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761298 307 8-53

76L298 307 8-53

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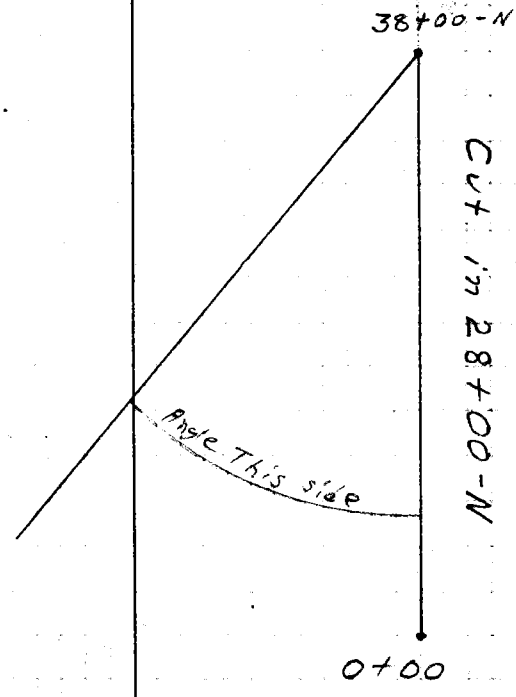
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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
		1	31.5	27.9	9:49	69° 22'	2656	
		2	30.3	26.7		68° 11'	2498	
		3	28.8	25.2		67° 05'	2265	
		4	27.8	24.2		65° 31'	2196	
		5	27.0	23.4		63° 58'	2047	
		6	26.1	22.5		62° 06'	1889	
		7	25.1	21.5		59° 51'	1722	
38+00-N	0+00	8	24.2	20.6		56° 40'	1520	
		9	23.4	19.8		54° 34'	1405	
		10	21.5	17.9		50° 00'	1192	
		11	20.5	16.9		48° 03'	1113	
		12	19.8	16.2		46° 42'	1061	
		13	18.7	15.1		45° 40'	1024	
		14	17.7	14.1		44° 36'	986	
		15	16.8	13.2		43° 40'	955	
		16	15.7	12.1		42° 36'	920	
		17	14.2	10.6		41° 33'	886	
		18	12.2	8.6		40° 30'	854	
		19	10.9	7.3	9:54	39° 19'	819	

Zero Adj. −1.5
Boat Adj. +1.0
Tide −3.1
−3.6



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 217
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-11-55
No. Date Date Map No. Indexed C. Jones Date

F. B. 2301 Pg. 218 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-11-55 Date No.

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

Indexed Date Date Date Date No.

76L298 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.

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

76L298 307 8-53

12 63 690

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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.

708

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
26+00 T.P. ± 420 FT. L.	5 31	18 84		13 53		
T. P.	5 49	18 41	5 92	12 92		
30+00			+21 9	40 3	18.0 8.0 26.0 / 26.0 4.1 21.9	
7 FT. L.			+21 7	40 1		TOP BRK
50 " "			1 2	17 2		BOTTOM BRK
100 FT "			3 2	15 2		
200 FT "			4 5	13 9		
300 " "			6 0	12 4		
400 " "			5 5	12 9		
450 " "			5 0	13 4		
500 " "			6 1	12 3		
T.P. 500 " "	6 06	18 84	5 63	12 78		
520 " "			7 2	11 6		
580 " "			6 0	12 8		
595 " "			6 8	12 0		BRK
600 " "			7 3	11 5		
627 " "			10 4	8 4		
668 " "			11 0	7 8		
T.P.	2 03	8 24	12 63	6 21		
T.P.	1 10	8 18	1 16	7 08		

INSHORE
N 30+00

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 219
No. Date. Date. Survey of Beach Erosion
X-Sec. Notes Chkd. Checked Survey by EE&GD Notes EE&GD Date 8-11-55
No. Date. Date. Map No. Indexed C. Johnson Date.

F. B. 2301 Pg. 220 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

Survey by EF&GD Notes EF&GD Notes Chkd. _____ Checked _____ X-Sec.

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

76L298 307 8-53

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LOS ANGELES COUNTY SURVEYOR

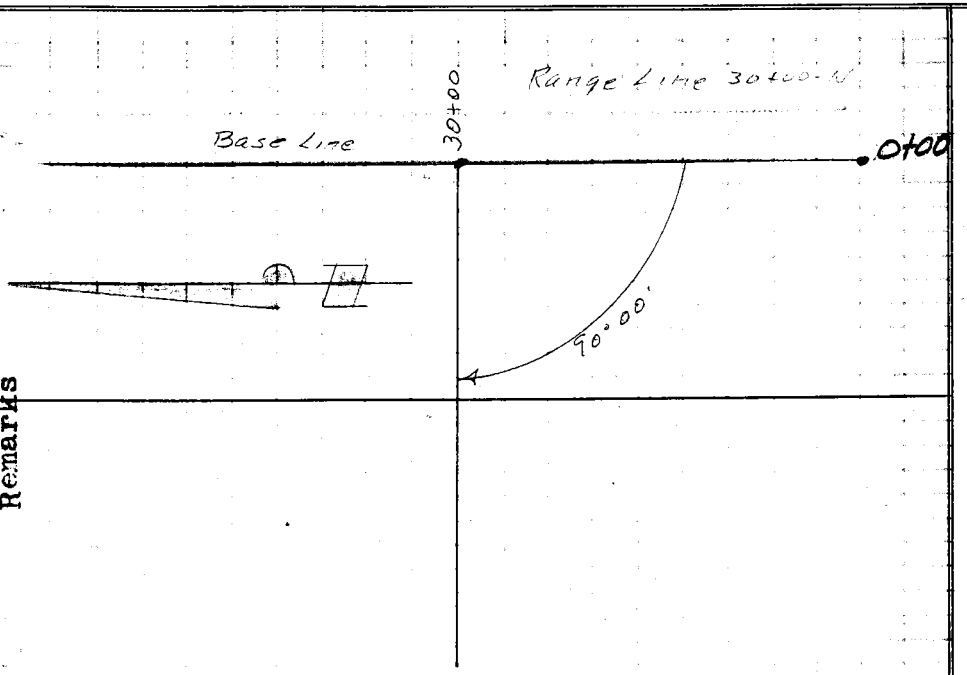
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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	B. S.	H. I.	F. S.	ELEV.	Left at 26+00	Right on 30+00
		8 2				
					765	
					818	
					880	
					926	
				-10 8		

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301	Pg. 221
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.V.E.	Date 8-11-55	
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		10:08	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'	

N-1A

30+00-N

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

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

76L298 307 8-53

F.B. 2301 PG. 222

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

Survey of Beach Erosion Date Date No.

Survey by Van Deren Notes V.J.E. Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

30+00-N

N-1A

STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight	#	Color	Time	Hor. Ang.		Remarks
At On	21		10:12	[illegible]		

Range Line 30+00-N

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.

76L298 307 8-53

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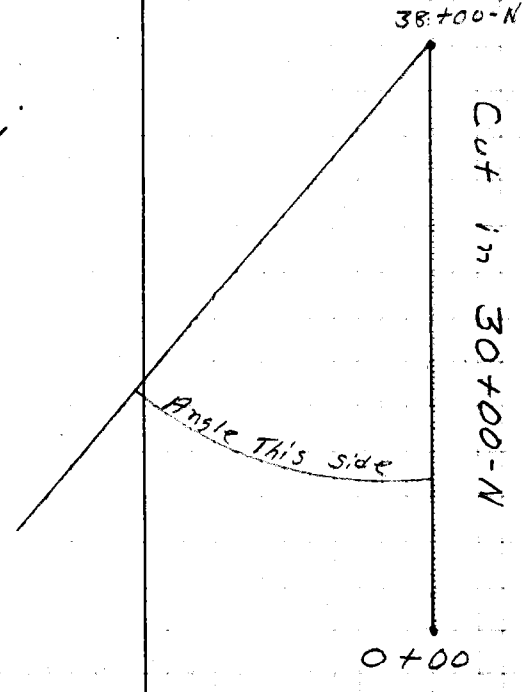
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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
		1	31.2	28.4	10:08	72° 18'	2507	Zero Adj. -0.5
		2	30.1	27.3		71° 35'	2403	Boat Adj. +1.0
		3	29.1	26.3		70° 40'	2280	Tide -3.3 (blue -3.1)
		4	28.1	25.3		69° 26'	2132	-2.8
		5	26.7	23.9		67° 59'	1978	
		6	26.2	23.4		65° 53'	1787	
		7	25.1	22.3		63° 29'	1603	
38+00-N	0+00	8	24.2	21.4		61° 14'	1457	
		9	22.7	19.9		58° 42'	1360	
		10	21.0	18.2		56° 23'	1203	
		11	20.0	17.2		55° 18'	1152	
		12	19.4	16.6		54° 17'	1113	
		13	18.3	15.5		53° 29'	1080	
		14	17.2	14.4		52° 26'	1040	
		15	16.2	13.4		51° 23'	1002	
		16	14.9	12.1		50° 34'	973	
		17	13.7	10.9		49° 43'	944	
		18	12.6	9.8		48° 52'	916	
		19	10.7	7.9		47° 50'	883	
		20	8.5	5.3		46° 46'	851	



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 123
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-11-55
No. Date Date Map No. Date

Fr. Bk. 2301 Pg. 229 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-11-55 Date No.

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

Indexed E. C. Johnson Date Date Date No.

76L298 307 8-53

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
38+00-N						
0+00						
	21	74v 4.6	10:12		822'	Cut in 30+00-N

76L 98 307 8-53

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

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

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

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 28+00	Sight on 32+00
30+00						
T. P. 500 FT. L.	6 06	18 84		12 78		
T. P.	6 84	19 19	6 51	12 33		
32+00			+21 3	40 5	+18.0 +25.7 +7.7 -4.4 25.7 +21.3	
6 FT. L.			+20 9	40 1	+25.7 -4.8 +20.9	
55 " "			2 5	16 7		
100 " "			4 4	14 8		
200 " "			6 1	13 1		
300 " "			7 4	11 81		
400 " "			8 5	10 7		
T. P. 400 " "	5 37	16 94	7 60	11 57		
500 " "			6 5	10 4		
550 " "			6 3	10 6		
600 " "			5 1	11 8		
620 " "			5 0	11 9		
658 " "			5 4	11 5		
700 " "			6 9	10 0		
725 " "			7 9	9 0		BRK
T. P. 753	3 35	8 45	11 84	5 10		
			7 7	1 4	63.02	786
			10 2	-1 7	64.31	839
			11 4	-2 9	65.27	876

INSHORE
N. - 32+00

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 22
No. ____ Date ____ Date ____ Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by EE&GD Notes EE&GD Date 8-11-55
No. ____ Date ____ Date ____ Map No. ____ M. G. Johnson Date ____

F. B. 2301 Pg. 226

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

Survey of Bench Erosion Date _____ Date _____ No. _____

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

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

STATION	B. S.	H. I.	F. S.	ELEV.
		8		
		5	130	
			155	
			175	
				927
				964
				1092

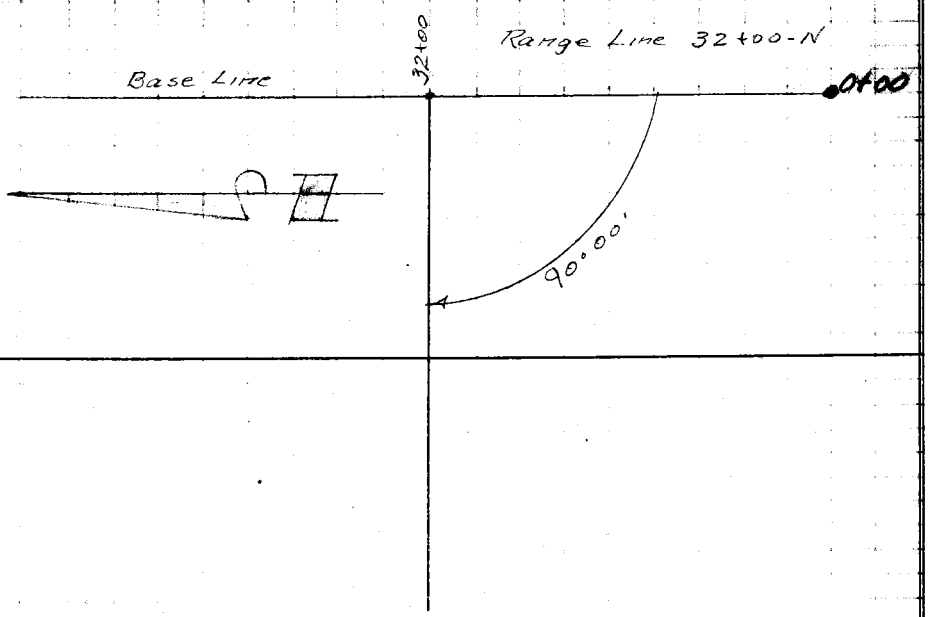
Do not extend notes this side of this line.

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

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

76L298 307 8-53

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301	Pg. 227
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.J.E.	Date 8-11-55	
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		[illegible]	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'	
	[illegible]			90°00'	
	[illegible]			90°00'	
	18			90°00'	
	19			90°00'	
	[illegible]			90°00'	
				10:26	

N-1A

32+00-N

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

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

Do not extend notes this side of this line.

76L298 307 8-53

F.B. 2301 PG. 228 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

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

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

761298 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.	Remarks
32+00-N					
N-1A					
Inst. Sight At OR	#	Color	Time	Hor. Ang.	
					Range Line 32+00-N

76L298.307 8-53

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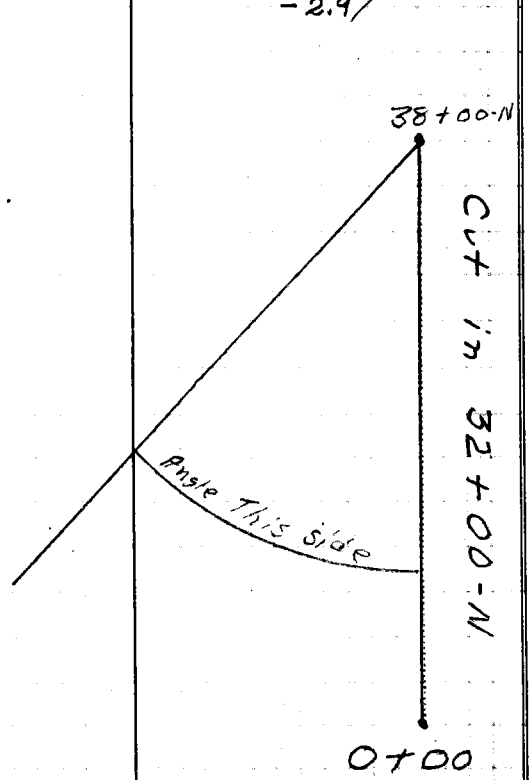
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 0J6602 Division No. 10 F.B. 2301 Pg. 22
X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of Beach Erosion Study Survey by Wm. Deven Notes R.T. Date 8-11-55 Map No. ____ Mapped by John Johnson Date ____

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.		Zero Adj. -0.5 Boat Adj. +1.0 Tide -3.4 (blue -3.2) -2.9
	1	32.6 ✓ 29.7	10:22	77° 40'	2744	
	2	31.2 ✓ 28.3		76° 41'	2535	
	3	30.5 ✓ 27.6		75° 18'	2287	
	4	28.5 ✓ 25.6		74° 02'	2097	
	5	26.6 ✓ 23.7		73° 20'	2004	
	6	25.8 ✓ 22.9		72° 18'	1880	
	7	24.9 ✓ 22.0		70° 59'	1738	
0+00	8	23.7 ✓ 20.8		69° 30'	1605	
	9	22.3 ✓ 19.4		68° 08'	1493	
	10	21.0 ✓ 18.1		66° 29'	1377	
	11	18.5 ✓ 15.6		64° 24'	1252	
	12	16.4 ✓ 13.5		62° 55'	1173	
	13	14.9 ✓ 12.0		62° 05'	1132	
	14	13.6 ✓ 10.7		61° 25'	1101	
	15	12.7 ✓ 9.8		60° 30'	1061	
	16	11.6 ✓ 8.7		59° 52'	1034	
	17	10.5 ✓ 7.6		58° 56'	996	
	18	9.9 ✓ 6.0		58° 08'	965	
	19	7.6 ✓ 4.7		57° 04'	926	
	20	6.1 ✓ 3.2	10:26	56° 15'	898	



38+00-N

F.B. 2301 Pg. 230 Job No. 030002 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-11-55 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. Sign At OH	#	Color	Time	Hor. Ang.	

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

F. B. 2301 PG. 230A

Notes Ck'd by	Survey of Beach Erosion
Map No.	W. O. Tape No. St'd. °F
Office Work	Surveyed by VanDeren
Checked	Notes J. J. E. Date 8-12-55
Date	Indexed A. C. Johnson

August 12, 1955

Time	Tide	Standard Time
5:00	3.4	
5:30	3.4	
6:00	3.3	
6:30	3.3	
7:00	3.2	
7:30	3.1	
8:00	3.0	
8:30	2.9	
9:00	2.9	
9:30	3.0	
10:00	3.1	
10:30	3.3	
11:00	3.5	
11:30	3.7	
12:00	3.9	

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

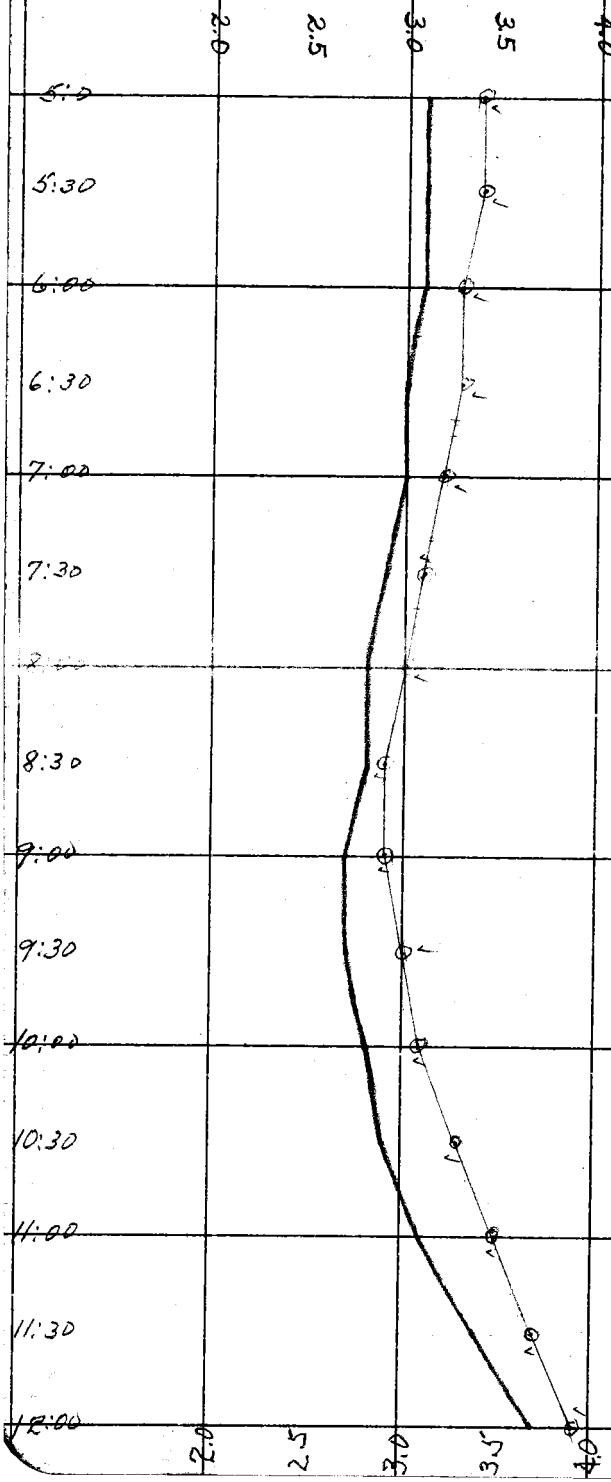
Do not extend notes this side of this line.

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

76 3095 247 4-53

F. B. 2301 PG. 230 B

Blue Curve from USC & GS Tables



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LOS ANGELES COUNTY SURVEYOR
720 LOS ANGELES COUNTY
ENGINEERING BLDG.

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Notes: 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.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.			
32+00							
T.P. 400 FT. L.	5 37	16 94		11 57			
T.P.	17 79	33 46	1 27	15 67			
T.P.	11 83	44 85	0 44	33 02			
B.M. 27-5	7 80	47 58	5 16	39 ~~67~~ 78	B.M. 27-5	ELEV 36.981	F.B. 1393-9
34+00			5 7	41 91		2.800 39.781	
2 FT RIGHT (EAST)			4 6	43 0	TOP SLOPE		
T.P.	0 77	30 70	17 65	29 93			
50 FT LEFT (WEST)			10 2	20 5	BOTTOM SLOPE		
100 " "			13 2	17 5			
200 " "			16 4	14 31			
T.P.	2 11	16 78	16 03	14 67			
300 FT. L			4 4	12 4			
400 " "			6 4	10 4			
500 " "			5 6	11 2			
555 " "			4 4	12 41			
600 " "			4 5	12 3			
662 " "			3 5	13 3		BRK	
700 " "			6 4	10 4			
T.P. 744 " "			9 94	6 84			

(over)

INSHORE
N. 34+00

Profile Notes Red. ____ Plotted ____ Job No. 030002 Division No. 10 F.B. 2301 Pg. 231
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by DREIER ENGLISH Notes G.F.D. & E.F. Date 8-12-55
No. ____ Date ____ Date ____ Map No. ____ Indexed J. G. Johnson Date ____

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

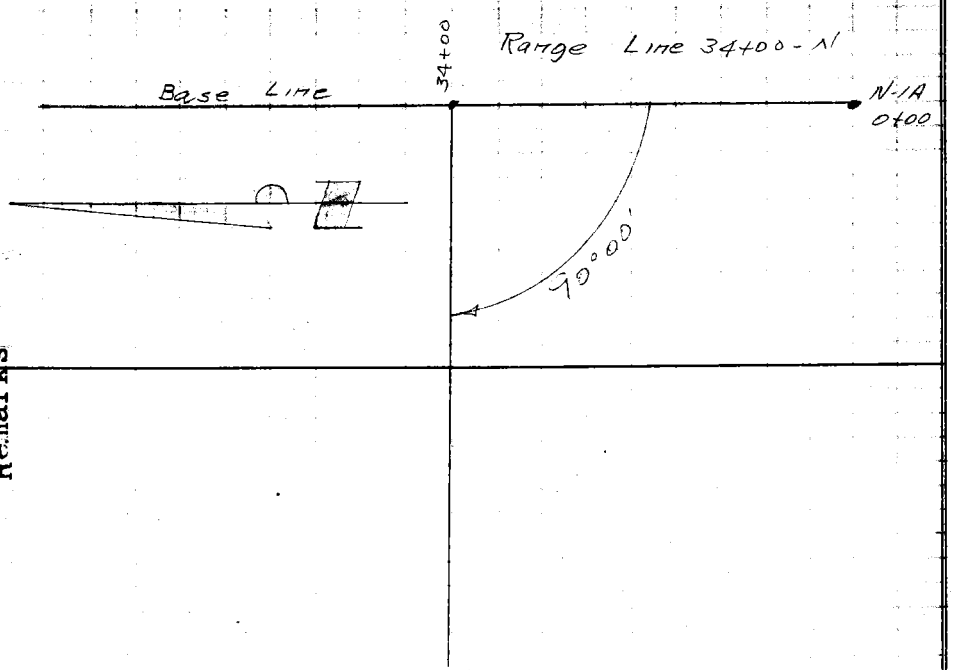
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line. Column

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 30+00	Sight on 34+00
T.P.	[illegible]	8 2		6 8		
			5 6	[illegible] 6	62° 52' 781	
			9 2	-1 0	64 38 844	
			13 5	- [illegible] 3	67 11 951	
			19 5	-11 3	69 01 1043	

F. B. 2301 Pg. 232 Job No. 030002 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Date Date No.
Survey by E.E.&G.D. Notes E.E.&G.D. Notes Chkd. Checked X-Sec.
Indexed K. C. Johnson Date Date Date No.

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301	Pg. 233
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.J.E.	Date 8-12-55	
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		6:15	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			10°00'	
	16			90°00'	
	17			90°00'	
	18			90°00'	
	19			90°00'	
	20			90°00'	

N-1A

34+00-N

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

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LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 8-53

F. B. 2301 Pg. 234 Job No. 9300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

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

Indexed A. 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.

STATION	B. S.	H. I.	F. S.	ELEV.		
~~Inst. Sight~~ At On	#	Color	Time	Hor. Ang.		Remarks
34+00.N						
N-1A						
	2	22				
			6:20			
					Range Line	34+00.N

76L298 307 8-53

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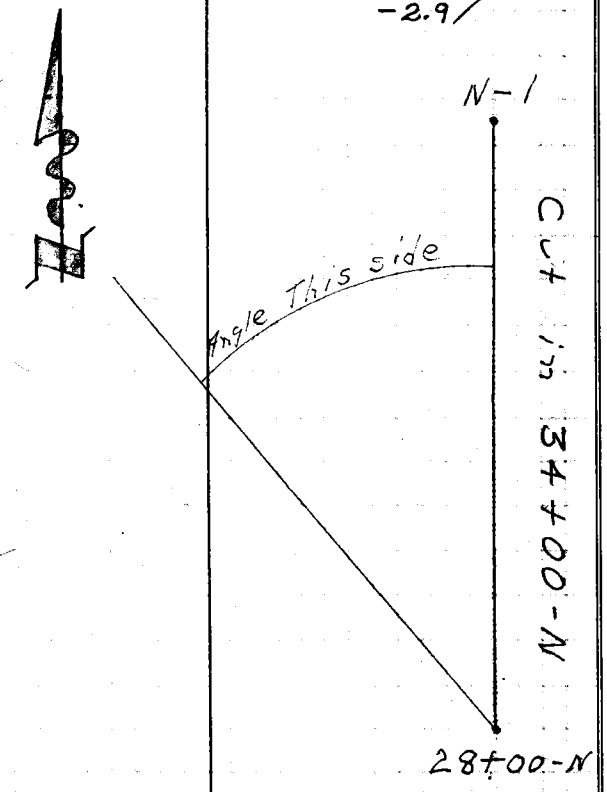
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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 Inst. At	Sight On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.	
28+00-N	N-1	1	33.0	30.1	6:15	77° 42'	2752
		2	32.0	29.1		77° 04'	2613
		3	30.9	28.0		76° 07'	2428
		4	29.5	26.6		75° 19'	2290
		5	28.1	25.2		74° 10'	2116
		6	26.9	24.0		73° 26'	2017
		7	25.7	22.8		72° 14'	1873
		8	24.7	21.8		70° 44'	1717
		9	23.2	20.3		69° 21'	1592
		10	22.3	19.4		67° 56'	1480
		11	20.7	17.8		66° 22'	1371
		12	19.3	16.4		64° 14'	1243
		13	18.1	15.2		62° 57'	1175
		14	17.1	14.2		62° 16'	1141
		15	16.0	13.1		61° 52'	1122
		16	15.1	12.2		61° 08'	1088
		17	14.2	11.3		60° 30'	1061
		18	13.4	10.5		59° 48'	1031
		19	11.5	8.6		58° 50'	992
		20	10.1	7.2		58° 10'	966

Remarks Zero Adj. −0.6
Boat Adj. +1.0
Tide −3.3 (blue −3.0)
−2.9



Profile Notes Red. Plotted Job No. 2300.02 Division No. 10 F.B. 2301 Pg. 235
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-12-55
No. Date Date Map No. Indexed J. G. Johnson Date

F. B. 2301 Pg. 236

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

Survey of Beach Erosion Study Date 8-12-55 Date _____ No. _____

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

Indexed A. 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. Bt.	Sight on	[illegible]	Color	Time	[illegible]		Remark
		2[illegible]	9.1 ' 6.2		[illegible]	938'	Cut in 34+00-N
		2[illegible]	Void '	6.20	5[illegible] 53	920'	

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 X

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 32+00	Sight on 36+00
B.M. 27-5	7 80	47 58		39 78	B.M. 27-5 ELEV. 36.981	F.B. 1393-9
36+00			4 83	42 75	TOP SLOPE 2.800 39.781	
T.P.	0 77	30 70	17 65	29 93		
50 FT L			11.5	19 2	BOTTOM OF SLOPE	
100 FT L			13 4	17 3		
T.P.	2 11	16 78	16 03	14 67		
200 FT. L			1 2	15 6		
300 " "			4 1	12 7		
400 " "			6 2	10 6		
500 " "			5 5	11 3		
555 " "			4 0	12 8		
600 " "			4 2	12 6		
680 " "			3 2	13 6		BRK
700 " "			5 9	10 9		
T.P.	0 6	7 4	9 94	6 84		
			5 1	2 3	62° 54'	782
			9 1	-1 7	64 22	834
			12 2	-4 8	66 14	908
			17 5	-10 1	68 12	1000
			19 5	-12 1	69 21	1061

INSHORE
N. 36+00

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 237
Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by ENGINEER Notes G.R.E.E. Date 8-12-55
Date ____ Date ____ Map No. ____ Map C. Job Date ____

F. B. 2301 Pg. 238 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

Survey by E.E. & G.D. Notes E.E. & G.D. Notes Chkd. _____ Checked _____ X-Sec.

Indexed A. S. Johnson 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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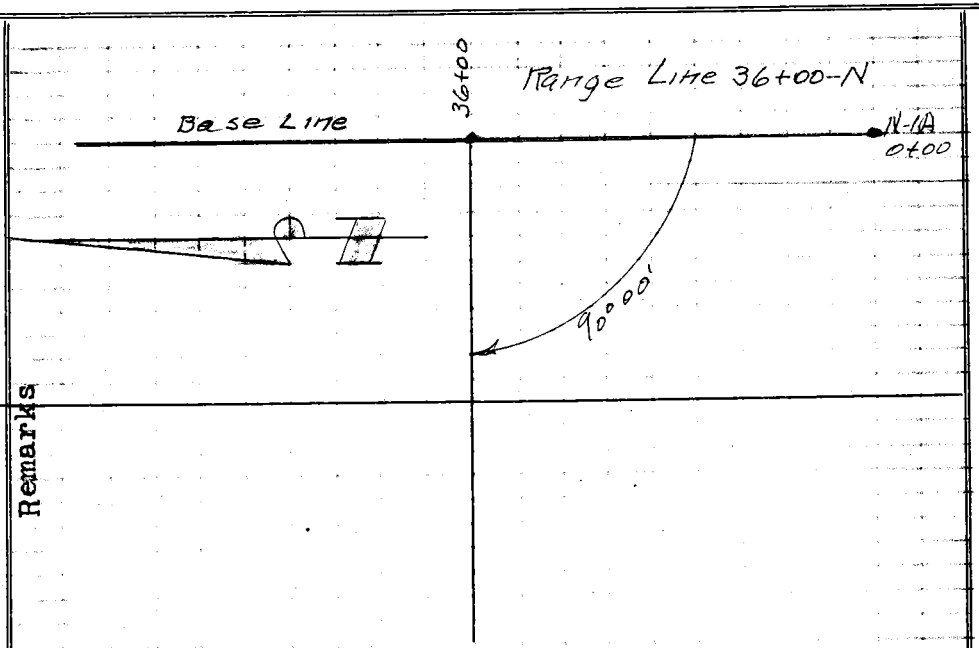
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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. 2301 Pg. 239

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.J.E Date 8-12-55
Date ____ Date ____ Map No. ____ Indexed X. C. Johnson Date ____



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	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			90°00'	

N-1A

36+00-N

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

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761298 307 8-53

F. B. 2301 Pg. 240 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

Survey by VanDeren Notes V.V.E. Notes Chkd. _____ Checked _____ X-Sec.

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

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight At	#	Color	Time	Hor. Ang.	Remarks
36+00-N										
N-1A										
	21									
	22									
	23									
	24									
	25									
	26									
	27		6.47							
										Range Line 36+00-N

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 8-93

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.

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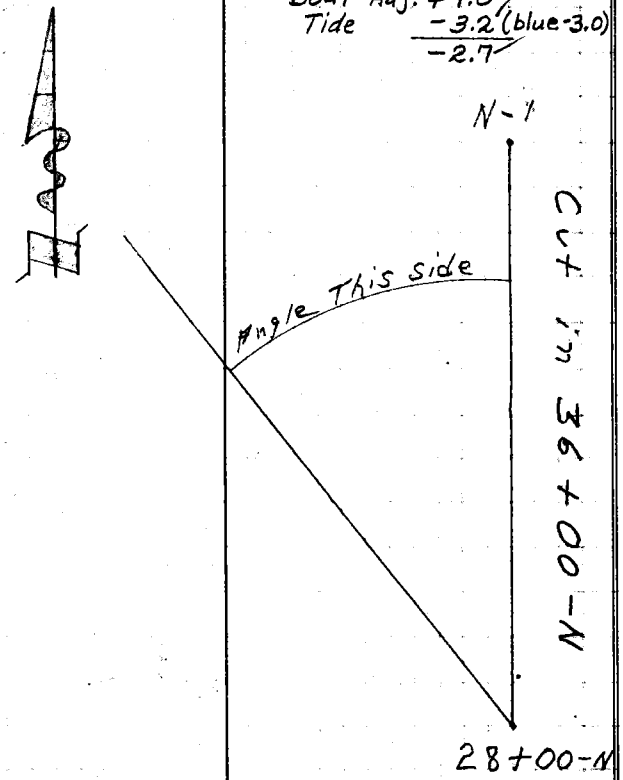
Profile No. ____ Date ____ Date ____ Date ____ Date ____ Notes Red ____ Plotted ____ Date ____ Checked ____ Date ____ Job No. 23000.2 Division No. 10 Survey of Beach Erosion Study Survey by Van Dyke Notes M.T. Date 8-12-55 Map No. ____ Date ____ F.B. 2301 PG. 241

X-Sec. No. ____ Notes Chkd. ____

STATION Inst. at	Sight on	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remark
28+00-N	N-1	1	32.2	29.5	6:41	73° 04'	2628	Zero Adj. -0.5
		2	30.6	27.9		72° 09'	2484	Boat Adj. +1.0
		3	29.5	26.8		71° 08'	2341	Tide -3.2 (blue -3.0)
		4	28.4	25.7		69° 44'	2167	-2.7
		5	27.2	24.5		68° 35'	2040	
		6	26.0	23.3		67° 37'	1898	
		7	25.0	22.3		65° 52'	1786	
		8	24.0	21.3		64° 23'	1668	
		9	22.8	20.1		62° 40'	1548	
		10	21.6	18.9		60° 42'	1426	
		11	21.0	18.3		59° 37'	1366	
		12	20.4	17.7		59 04'	1335	
		13	19.9	17.2		58° 23'	1300	
		14	19.7	17.0		57° 54'	1275	
		15	19.0	16.3		57° 12'	1241	
		16	18.7	16.0		56° 32	1210	
		17	18.1	15.4		55° 49'	1178	
		18	17.3	14.6		55° 08'	1148	
		19	16.4	13.7		54° 22'	1116	
		20	15.7	13.0		53° 38'	1086	



F. B. 2301 PG. 242 Job No. 0300.02 Division No. FO Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-12-55 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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
28+00 N		14.9	12.2		1053
S-1		13.9	11.2		1031
		12.9	10.2		1005
		11.5	8.8		972
		10.1	7.4		948
		9.2	6.5		920
		8.0	5.3	6:47	903

Cut in 36+00 N

761 298 307 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 X

STATION	B. S.	H. I.	F. S.	ELEV.	Inst at 34+00	Sight on 38+00
34+00 T.P. 200 FT. L	2 11	16 78		14 67		
T.P.	6 19	20 60	2 37	14 41	SLY EDGE FIRE PIT +18.0 -14.1 +3.9	#7 N. & #6 W.
38+00			+3 9	24 5		BRK, TOP SLOPE
47 FT. L.			+24 6	45 2	+18.0 +6.6 +24.6 +12.1 -5.5 +6.6	
100 " "			0 3	20 3		
200 " "			4 3	16 3		
300 " "			6 5	14 1		
400 " "			8 5	12 1		
500 " "			8 6	12 0		
600 " "			7 8	12 8		
670 " "			6 7	13 9		BRK
700 " "			9 3	11 3		
T.P. 737 " "	1 55	8 10	14 05	6 58		
			7 3	0 8	63° 04' 787	
			10 8	-2 7	64 18 832	
			13 7	-5 6	66 03 901	
			17 3	-9 2	67 33 968	
			19 0	-10 9	68 47 1030	

INSHORE
N. 38+00

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 243
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by DREIER ENGLISH Notes G.D.&E.E. Date 8-12-55
No. Date Date Map No. Indexed G. Johnson Date

F. B. 2301 Pg. 244 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

Survey by E.E. & G.D. Notes E.E. & G.D. 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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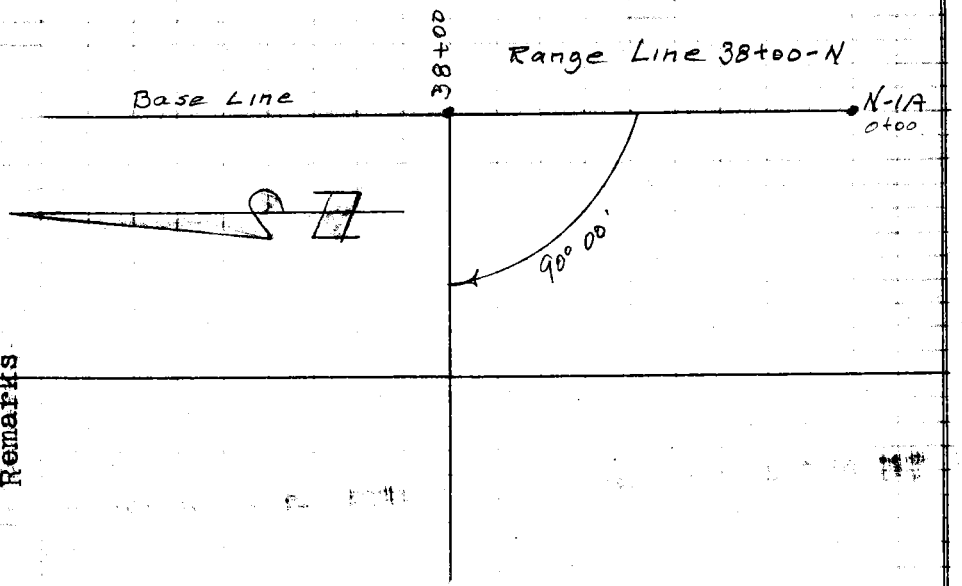
76L298 207 8-53

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301	Pg. 245
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by VanDeren	Notes V.V.E.	Date 8-12-55	
No.	Date	Date	Map No.	~~Indexed~~ G. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At Ch	#	Color	Time	Hor. Ang.	
	1		6:57	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'	

N-1A

38+00-N

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

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76 298 307 8-53

F.B. 2301 PG. 246 Job No. 8300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by Van Deren Notes J.V.E. 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
38+00-N						
N-1A						
	21					
	22					
	23					
	24					
	25					
	26					
			2:03			
						Range Line 38+00-N

761298 307 8-53

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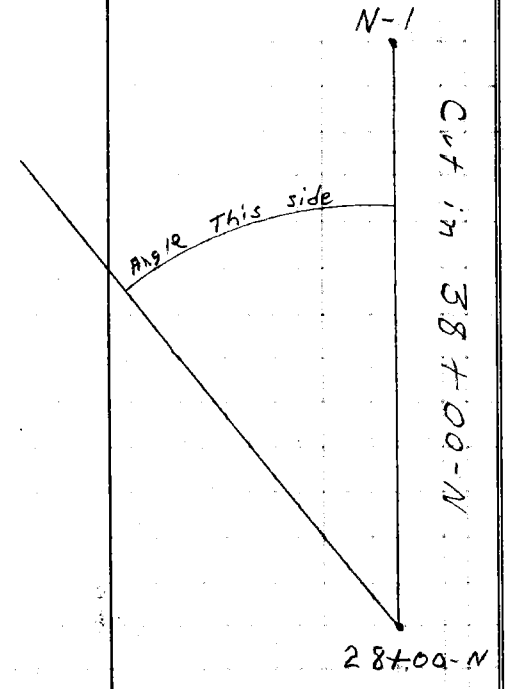
Do not extend notes this side of this line.

STATION	B. S.	H. I.		F. S.	ELEV.		
Inst. Sight At Ch	#	Color		Time	Hor. Ang.		Remarks
	1	32.5	29.8	6:57	69° 57'	2740	Zero Adj. −0.5
	2	31.7	29.0		69° 10'	2628	Boat Adj. +1.0
	3	30.4	28.1		68° 00'	2475	Tide −3.2 (blue −3.0)
	4	29.4	26.7		67° 00'	2356	−2.7
	5	28.6	25.9		66° 02'	2250	
	6	27.0	24.3		64° 53'	2133	
	7	26.4	23.7		63° 42'	2023	
	8	25.6	22.9		62° 18'	1905	
	9	25.0	22.3		60° 50'	1792	
	10	24.0	21.3		59° 18'	1684	
	11	23.0	20.3		57° 45'	1585	
	12	22.1	19.4		56° 40'	1520	
	13	21.3	18.6		54° 25'	1398	
	14	20.1	17.4		52° 30'	1303	
	15	19.5	16.8		51° 36'	1262	
	16	19.2	16.5		50° 43'	1223	
	17	18.7	16.0		49° 55'	1188	
	18	18.0	15.3		48° 59'	1150	
	19	17.5	14.8		48° 12'	1118	
	20	16.3	13.6		47° 19'	1084	

28+00-N

N-1



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 297
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Doren Notes P.T. Date 8-12-55
No. Date Date Map No. Date

F.B. 2301 Pg. 248 Job No. 2300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-12-55 Date _____ No. _____

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

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

28+00-N

N-1

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At OR #	Color	Time	Hor. Ang.		
	15.3	12.6		1059	
	14.4	11.7		1026	
	13.1	10.4		998	
	11.9	9.2		968	
	10.6	7.9		942	
	8.7	6.0	7.03	899	
					Cut in 38+00-N

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76L298 307 8-53

761 298 307 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.

8.1

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

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 36+00	Sight on 40+00
34+00 T.P. 200 FT. L	2 11	16 78		14 67		
T.P.	6 19	20 60	2 37	14 41		
40+00			+23 1	43 7	+18.0 +5.1 +23.1	
2 FT. R. (EAST)			+25.3	45 9	+18.0 +7.3 +25.3	
13 FT. L. (WEST)			+17 5	38 1	BRK.	
45 " "			0 6	20 0		
100 " "			1 6	19 0		
108 " "			2 1	18 5	ELY EDGE PAV. PARKING AREA	
200 " "			3 3	17 3	" "	"
238 " "			3 7	16 9	WLY " " "	"
300 " "			4 8	15 8		
400 " "			6 3	14 3		
500 " "			7 7	12 9		
600 " "			7 8	12 8		
675 " "			6 6	14 0		BRK
700 " "			8 8	11 8		
715 " "			10 2	10 4		BRK.
T.P.	0 7	7 3	14 05	6 55		
			6 6	0 7	62° 44' 776	
			10 7	-3.4	64 19 832	
			14 0	-6.7	65 52 893	

INSHORE
N. 40+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 249
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by DREIER ENGLISH Notes G.D. & E.E. Date 8-12-55
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

F. B. 2301 Pg. 250 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by EE & GD Notes EE & GD Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

76L298 307 8-53

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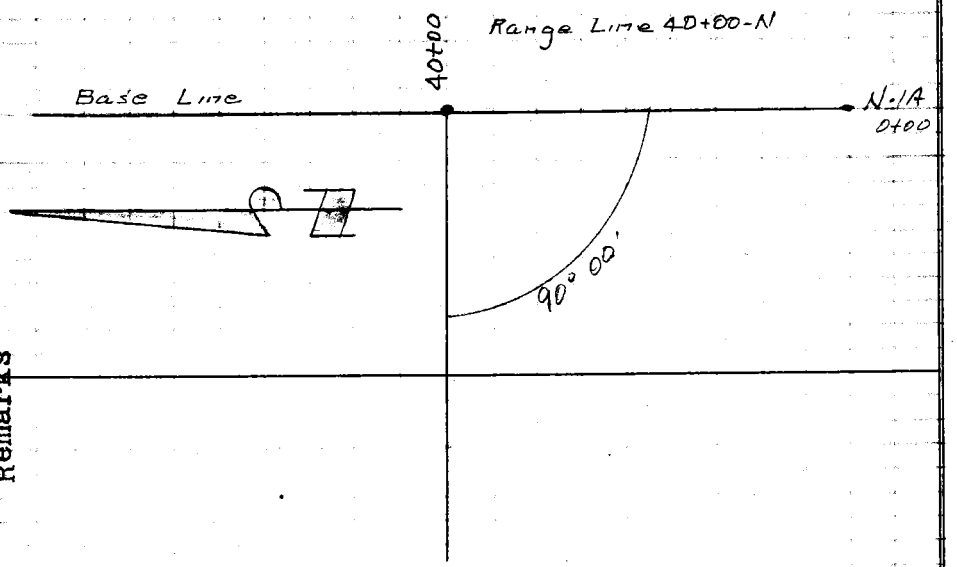
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.
		7 3	171	-[illegible]
			185	-11
				67° 37' 972'
				68 14 1002'

Profile No.	Notes Red.	Plotted	Job No. 9300.02	Division No. 10	F. B. 2301	Pg. 251
	Date	Date	Survey of Beach Erosion			
X-Sec. No.	Notes Chkd.	Checked	Survey by VanDeren	Notes J.J.E.	Date 8-12-55	
	Date	Date	Map No.	Indexed E. C. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight On	#	Color	Time	Hor. Ang.	
N-1A	1		7:14	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		7:25	90° 00'	
At 40+00-N					

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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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726 LOS ANGELES COUNTY ENGINEERING BLDG.

76 298 307 8-53

F.B. 2301 PG. 252 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by Van Deren Notes V.V.E. 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
40+00-N						
N-1A						
					Range Line 40+00-N	

761 298 307 8-53

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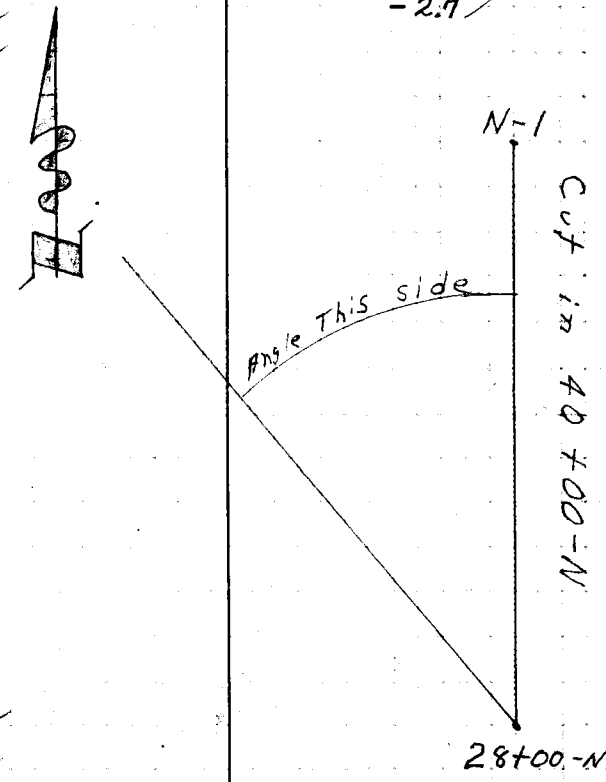
Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.	
Inst. At	Sight On	#	Color		Time	Hor. Ang.	
		1	32.1	29.4	7:19	66° 00'	2695
		2	31.2	28.5		64° 52'	2558
		3	29.9	27.2		63° 33'	2412
		4	28.8	26.1		62° 22'	2292
		5	27.7	25.0		60° 33'	2125
		6	26.5	23.8		58° 44'	1976
		7	25.5	22.8		56° 56'	1843
		8	24.5	21.8		54° 48'	1701
28+00-N	N-1	9	23.1	20.4		52° 30'	1564
		10	21.9	19.2		50° 31'	1457
		11	20.9	18.2		48° 44'	1368
		12	19.8	17.1		46° 12'	1251
		13	19.1	16.4		45° 10'	1206
		14	18.0	15.3		43° 44'	1148
		15	17.1	14.4		42° 48'	1111
		16	16.8	14.1		42° 05'	1084
		17	15.8	13.1		41° 12'	1051
		18	14.9	12.2		40° 20'	1019
		19	14.2	11.5		39° 47'	999
		20	13.0	10.3	7:25	39° 06'	975

Remarks Zero Adj. -0.6
Boat Adj. +1.0
Tide -3.1 (blue -2.9)
-2.7



Profile Notes Red. Plotted Job No. 2300.02 Division No. 10 F. B. 2301 Pg. 253
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-12-63
No. Date Date Map No. Date

F. B. 2301 PG. 254 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-12-55 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	#	Color	Time	Hor. Ang.		

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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.		
40+30 T.P. (2nd LINE)	6 19	20 60		14 41		
T.P.	9 05	22 33	9 32	13 28		
42+00			+18 2	40 5	+18.0 +0.2 +18.2	ON SLOPE
9 FT. R.			+25 4	47 7	TOP SLOPE	+18.0 +12.9 +7.4 -5.5 25.4 +7.4
28 " L.			1 4	20 9	BOT. SLOPE	
61 " "			1 2	21 1	BRK	
90 " "			4 3	18 0	BRK	
100 " "			4 3	18 0		
104 " "			3 9	18 4	E'LY EDGE PAV. PARKING AREA	
200 " "			5 1	17 2		
235 " "			5 5	16 8	W'LY EDGE PAV. DA	
267 " "			6 1	16 2	BRK	
300 " "			8 1	14 2		
400 " "			11 2	11 1		
500 " "			10 8	~~12 3~~ 11 5		
600 " "			9 1	13 2		
654 " "			8 4	13 9		
690 " "			12 0	10 3		
T.P. 709 " "			15 00	7 33		

(OVER)

INSHORE
N. 42+00

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 255
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by DREIER ENGLISH Notes G.D.&E.E. Date 8-12-55
No. Date Date Map No. Indexed C. Johnson 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 38+00	Sight on 42+00
T. P.	0 [illegible]	7 6		[illegible]		
			[illegible]		62° 24' 765	
			11 [illegible]	[illegible]	63 39 808	
			13 7	[illegible]	65 03 860	
			[illegible]	[illegible]	67 10 950	
			21 0	[illegible]	68 59 1041	

F. B. 2301 PG. 256 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Date Date No.
Survey by EE&GD Notes EE&GD Notes Chkd. Checked X-Sec.
Indexed ~~R. C. Johnson~~ Date Date Date No.

765298 307 8-53

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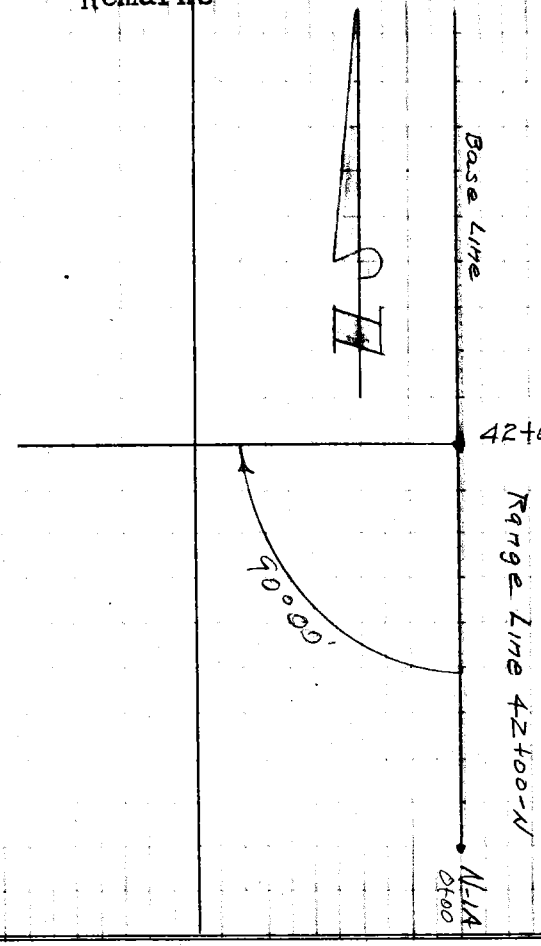
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.		Remarks
	1		7:41	90° 00'		
	2			90° 00'		
	3			90° 00'		
	4			90° 00'		
	5			90° 00'		
	6			90° 00'		
	7			90° 00'		
	8			90° 00'		
42+00-N / N-1A	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. 0300.07 Division No. 10 F. B. 2301 Pg. 257
No. ____ Date ____ Date ____ Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes J.J.E. Date 8-12-55
No. ____ Date ____ Date ____ Map No. ____ Map C. Johnson Date ____

F. B. 2301 PG. 258 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

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

Indexed A. 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. Sight At OR	#	Color	Time	Hor. Ang.	Remarks
42+00-N										
N-1A						21				
						22				
						33				
			7.46							
									Range Line	42+00-N

761298 307 8-53

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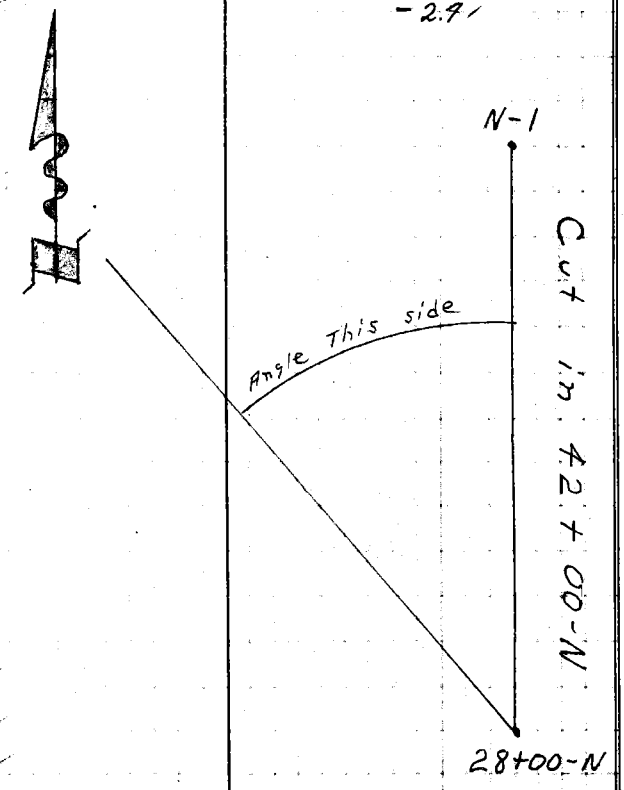
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.		
		1	34.1	31.4	7:41	64° 22'	2918	
		2	32.9	30.2		63° 19'	2786	
		3	31.9	29.2		62° 12'	2655	
		4	30.9	28.2		61° 12'	2547	
		5	30.0	27.3		59° 55'	2417	
		6	29.3	26.6		58° 43'	2304	
		7	28.0	25.3		57° 09'	2168	
28+00-N	N-1	8	26.9	24.2		55° 34'	2042	
		9	25.7	23.0		53° 38'	1901	
		10	24.5	21.8		51° 34'	1764	
		11	23.6	20.9		49° 28'	1637	
		12	22.2	19.5		47° 14'	1514	
		13	21.2	18.5		44° 40'	1384	
		14	19.9	17.2		42° 07'	1266	
		15	18.6	15.9		39° 21'	1148	
		16	17.1	14.4		37° 40'	1080	
		17	16.4	13.7		36° 48'	1047	
		18	15.1	12.4		36° 10'	1023	
		19	14.3	11.6		35° 10'	986	
		20	13.0	10.3		34° 22'	957	

Remarks Zero Adj. −0.7
Boat Adj. +1.0
Tide −3.0 (blue −2.9)
−2.4



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 259
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-12-55
No. Date Date Map No. Indexed G. Johnson Date

F. B. 2301 Pg. 260 Job No. 0 300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-12-55 Date _____ No. _____

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

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

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight At	#	Color	Time	Hor. Ang.	Remarks
28+00-N										
N-1										
						21	12.3 ✓ 9.6		930	
						22	10.8 ✓ 8.1		890	Cut in 42+00-N
						23	9.5 ✓ 6.8	7:46	878	

Do not extend notes this side of this line.

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

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

76L298 3C7 8-53

761 298 307 8-53

T.P. 1500

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
40+00 T.P. (2nd. LINE)	6 19	20 60		14 41		
T.P.	9 05	22 33	7 32	13 28		
44+00			+150	37 3	+ 18.0 − 3.0 + 15.0	ON SLOPE
12 FT. RIGHT			+246	46 9	+18.0 +12.1 + 6.6 − 5.5 24.6 + 6.6	TOP SLOPE
30 FT. LEFT			03	22 0		BOTTOM SLOPE
62 " "			05	21 8	BRK	
87 " "			43	18 0	BRK	
100 " "			41	18 2		
103 " "			39	18 4	ELY EDGE PAV. PARKING	
200 " "			51	17 2		
232 " "			55	~~17 8~~ 16 8	W'LY EDGE PAV. PARKING AREA	
300 " "			72	15 1		
400 " "			88	13 5		
500 " "			88	13 5		
600 " "			84	13 9		
656 " "			81	14 2		
685			11 4	10 9		
700			139	8 4		
T.P.			15 00	7 33		
T.P.			0 0	7 6		

IN SHORE N. 44+00

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 261
X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of BEACH EROSION STUDIES Survey by ~~R. Ellison~~ Map No. ____ Noted ~~R. C.~~ Johnson Date ____ Noted G.P.&E.E. Date 8-12-55

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.

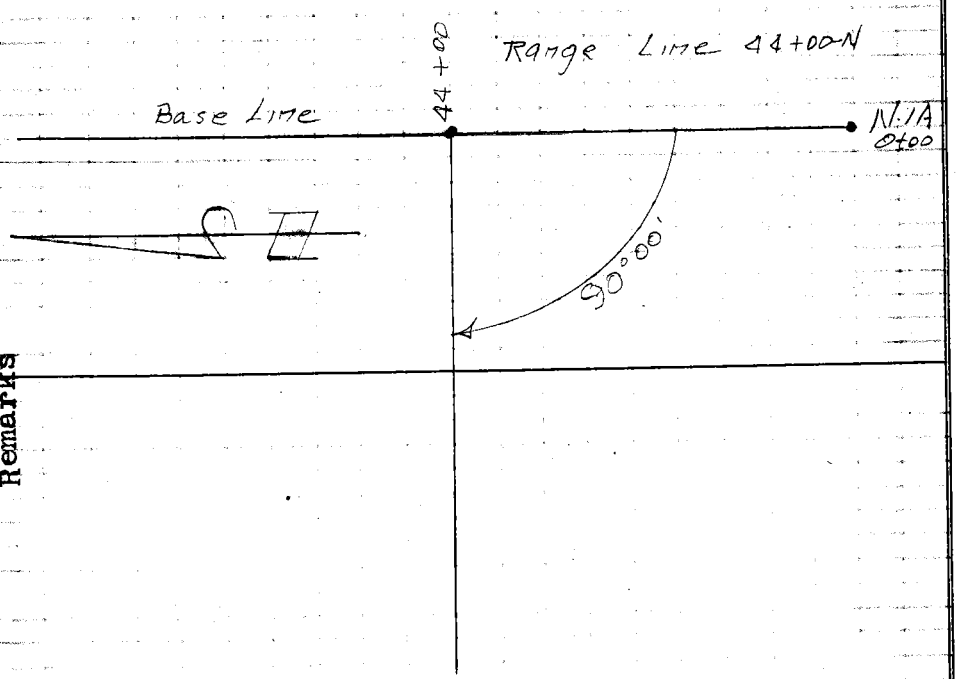
Do not extend notes this side of this line. Cut-in X

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 40+00		Sight on [illegible]
T.P.	[illegible]	[illegible]					
			7 3	[illegible]	61° 38'	741	
			[illegible]	[illegible]	63 06	788	
			13 6	[illegible]	64 29	838	
			16 7	[illegible]	65 37	882	
			[illegible]		67 06	947	

F. B. 2301 Pg. 262 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Bond Erosion Date Date No.
Survey by EE&GD Notes Ex. Sec. Notes Chkd. Checked X-Sec.
Indexed A. C. Johnson Date Date Date No.

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.J.E. Date 8-12-55
	Date	Date	Map No.	Indexed Johnson Date

F. B. 2301 Pg. 263



STATION	B.S. #	H.I. Color	F.S. Time	ELEV. Hor. Ang.	Remarks
Inst. Sight At	1		8.00	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'	

N-1A

44+00-N

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

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

Do not extend notes this side of this line.

76L298 307 8-53

F. B. 2301 PG. 264 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by Van Deren Notes V. J. E. Notes Chkd. Checked X-Sec.

Indexed A. 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. Sight At OR	#	Color	Time	Hor. Ang.		Remarks
44+00-N	21			[illegible]		
N-1A	22			[illegible]		
	23			[illegible]		
	24			[illegible]		
	25			[illegible]		
	26		8:06	[illegible]		
					Range Line	44+00-N

76L298 307 8-53

PLEASE RETURN TO
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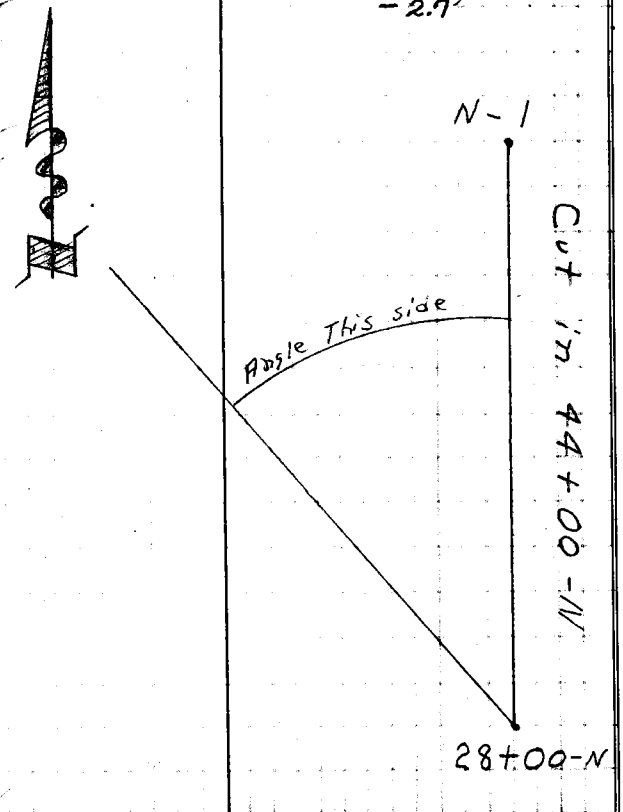
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

STATION		B. S.	H. I.		F. S.	ELEV.	
Inst. At	Sight On	#	Color		Time	Hor. Ang.	
		1	34.2	31.5	8:00	60° 41'	2849
		2	32.9	30.2		59° 44'	2742
		3	32.0	29.3		58° 34'	2618
		4	31.2	28.5		57° 20'	2496
		5	30.2	27.5		55° 55'	2365
		6	29.0	26.3		54° 40'	2257
		7	27.8	25.1		53° 31'	2164
28+00-N	N-1	8	27.2	24.5		52° 11'	2061
		9	26.1	23.4		50° 40'	1952
		10	25.3	22.6		48° 53'	1833
		11	24.2	21.5		47° 02'	1718
		12	23.0	20.3		44° 44'	1585
		13	21.8	19.1		42° 39'	1474
		14	21.1	18.4		40° 28'	1365
		15	20.1	17.4		38° 04'	1253
		16	18.4	15.7		35° 40'	1148
		17	17.8	15.1		34° 32'	1101
		18	17.4	14.7		33° 34'	1061
		19	16.5	13.8		33° 08'	1044
		20	15.8	13.1		32° 34'	1022

Remarks Zero Adj. −0.7
Boat Adj. +1.0
Tide −3.0 (blue −2.8)
−2.7



Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 265
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 8-12-55
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

F.B. 2301 Pg. 266 Job No. 030002 Division No. 70 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-12-55 Date _____ No. _____

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

Indexed A. 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. Sight At On	#	Color	Time	Hor. Ang.		Remarks
28+00-N	25	15.0 12.3		3[illegible] 51	994	Cut in 44+00-N
N-1	26	14.4 11.7		3[illegible] 04	964	
	23	13.0 10.3		3[illegible] 08	929	
	24	11.6 8.9		[illegible]	905	
	25	10.5 7.8		2[illegible] 51	881	
	26	9.1 6.4	8:06	2[illegible] 09	856	

761298 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.

STATION	B. S.	H. I.	F. S.	ELEV.		
44+00						
T.P. (LINE #2)	905	22 33		1328		
T.P.	5 53	22 76	5 10	1723		
46+00			+153	381	+18.0 / -2.7 / 15.3	ON SLOPE
17 FT. RIGHT			+244	472	+18.0 / +6.4 / +24.4	TOP SLOPE
28 " LEFT			09	219	BOTTOM SLOPE	
55 " "			09	219	W'LY EDGE PAV. ON ROAD	
56 " "			03	225	" " " ON CURB	
82 " "			46	183	BRK	
100 " "			43	185	E'LY EDGE PAVED PARKING AREA	
200 " "			54	174		
231 " "			57	171	W'LY EDGE PAVED PARKING AREA	
269 " "			63	165	BRK	
300 " "			75	153		
400 " "			91	137		
500 " "			97	131		
600 " "			85	143		
640 " "			85	143	BRK	
670 " "			118	110	BRK	
T.P. 684 " "			1416	860		

IN SHORE
N. 46+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 267
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by ENGLISH Notes E.P.E.E. Date 8-12-55
No. ____ Date ____ Date ____ Map No. ____ Checked J. Johnson Date ____

F. B. 2301 Pg. 268 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by E.E. & G.D. Notes E.E. & G.D. Notes Chkd. Checked X-Sec.

Indexed K. C. Johnson Date Date Date No.

76L293 307 8-53

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
			5 4			
			10 7	-1 9		
			15 3	-3 4		
			18 6	-6 7		
					714	
					774	
					835	
					902	

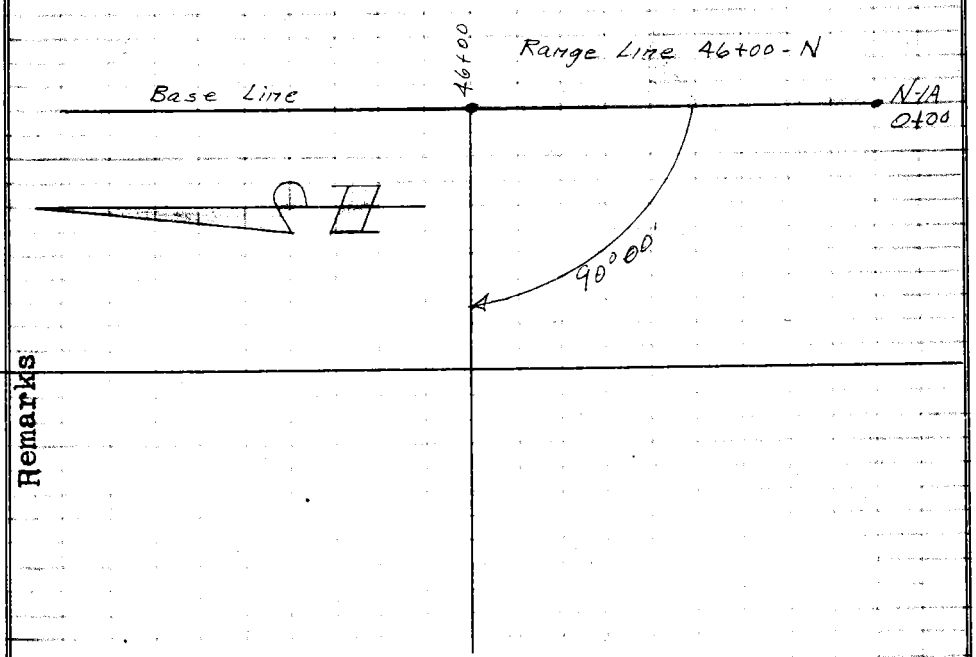
F. B. 2301 Pg. 269

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

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

Survey by VanDeren Notes J.J.E. Date 8-12-55

Map No. ____ Indexed C. Johnson Date ____



STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		8:18	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'	

N-1A

46+00-N

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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

761298 307 8-53

F. B. 2301 PG. 270 | Job No. 8300.02 | Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion | Date | Date | No.

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

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

46+00-N

N-1A

STATION	B. S.	H. I.	F. S.	ELEV.	Hor. Ang.	Remarks
Inst. Sight At OR	#	Color	Time			Range Line 46+00-N

PLEASE RETURN TO

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.

76L298 307 8-53

761298 307 8-53

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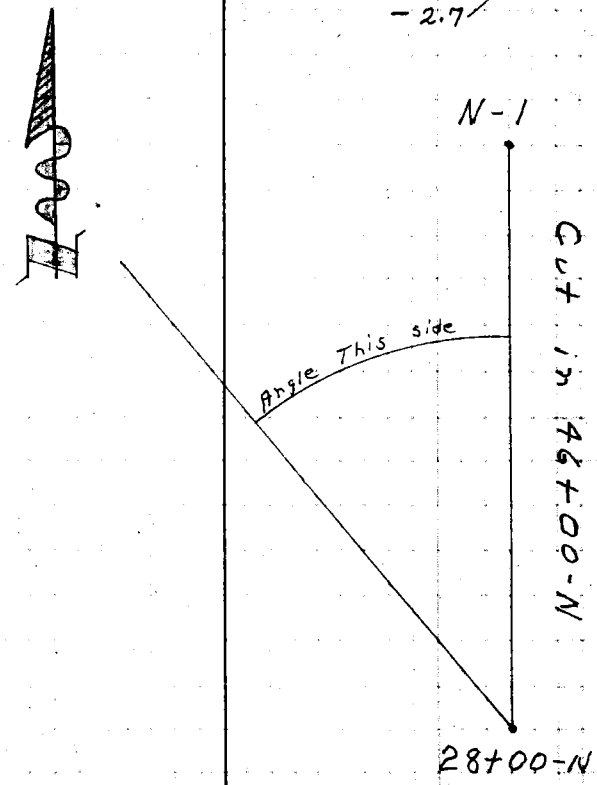
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.	
		1	31.4	28.7	8:18	55° 00'	2571
		2	30.6	27.9		53° 43'	2452
		3	29.1	26.4		51° 53'	2294
		4	28.6	25.9		50° 41'	2198
		5	27.3	24.6		48° 54'	2063
		6	26.0	23.3		47° 35'	1971
28+00-N	N-1	7	25.3	22.6		45° 37'	1840
		8	24.2	21.5		43° 52'	1730
		9	23.2	20.5		41° 48'	1609
		10	22.3	19.6		39° 48'	1500
		11	21.4	18.7		37° 42'	1391
		12	20.6	17.9		36° 00'	1308
		13	19.4	16.7		33° 35'	1195
		14	18.8	16.1		32° 40'	1154
		15	18.4	15.7		31° 59'	1124
		16	17.9	15.2		31° 25'	1099
		17	17.1	15.0		30° 50'	1074
		18	17.2	14.5		30° 10'	1046
		19	16.1	13.4		29° 47'	1030
		20	15.3	12.6		28° 59'	997

Remarks Zero Adj. −0.8
Boat Adj. +1.0
Tide −2.9
−2.7



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 70 F. B. 2301 Pg. 271
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 8-12-55
No. ____ Date ____ Date ____ Map No. ____ Indexed A. G. Johnson Date ____

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		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Color		Time	Hor. Ang.	Remarks	
		21	14.9	12.2		26°01'	971	Cut in 46+00-N
		22	14.2	11.5		27°36'	941	
		23	13.0	10.3		28°00'	917	
		24	11.3	8.6		26°07'	882	
		25	10.2	7.5	8:24	2[illegible]°38	864	
28+00-N	N-1							

Profile
No.
X-Sec.
No.

Plotted
Date 8-12-55
Checked
Date
Notes Red.
Notes Chkd.
Date
Job No. 0300.02 Division No. 10
Survey of Beach Erosion Study
Survey by Van Deren Notes R.T.
Indexed C. Johnson Date
F.B. 2301 Pg. 272

761298 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.		
44+00						
T.P. (Line #2)	9 05	22 33		13 28		
T.P.	5 53	22 76	5 10	17 23		
48+00			+119	34 7	+18.0 −6.1 +11.9	
25 Ft. R.			+256	48 4	+18.0 + 7.6 25.6	ON SLOPE
27 " LEFT			2 2	20 6		TOP SLOPE
54 " "			1 7	21 1	E'LY EDGE RD.	BOTTOM "
55 " "			1 0	21 8	W.LY " "	ON ROAD SURFACE
83 " "			5 5	17 3	" " "	ON CURB
98 " "			4 3	18 5	BRK, BOTTOM	
100 " "			4 3	18 5	E'LY EDGE PAVED PARKING AREA	
200 " "			5 3	17 5		
229 " "			5 7	17 1	W'LY EDGE PAV. PARKING AREA	
270 " "			6 9	15 9	BRK	
300 " "			8 5	14 3		
400 " "			10 9	11 9		
500 " "			9 9	12 9		
600 " "			8 5	14 3		
640 " "			8 3	14 5	BRK	
670 " "			12 0	10 8	BRK	
T.P.			14 16	8 60		

N 48+00 INSHORE

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 273
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by ENGLISH Notes G.D.E.E. Date 8-12-55
No. ____ Date ____ Date ____ Map No. ____ Checked G. Johnson Date ____

F. B. 2301 Pg. 274 Job No. [illegible] Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

Survey by EF&GD Notes EF&GD Notes Chkd. _____ Checked _____ X-Sec.

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

76L298 307 8-53

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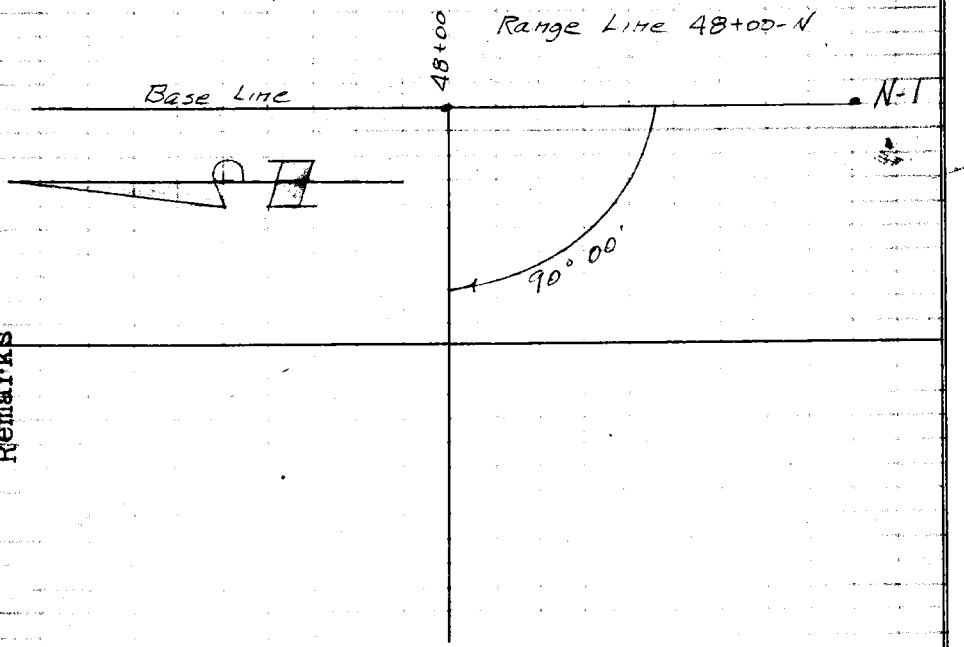
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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 [illegible]	Station N-1
T.P.	0	8 8	6 2	8 26	60 17	701
			12 7		61 99	747
			14 8		63 [illegible]	813
			8 5		[illegible]	813

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301	Pg. 275
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.V.E.	Date 8-12-57	
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		8:41	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			90°00'	

N-1A

48+00-N

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

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

Do not extend notes this side of this line.

761298 307 8-53

F. B. 2301 Pg. 176 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by Van Derem Notes J.J.E. Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
48+00-N					
N-1					
Inst. Sight At OH	#	Color	Time	Hor. Ang.	
	21		8:46		
					Range Line 48+00-N

Do not extend notes this side of this line.

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

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

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.

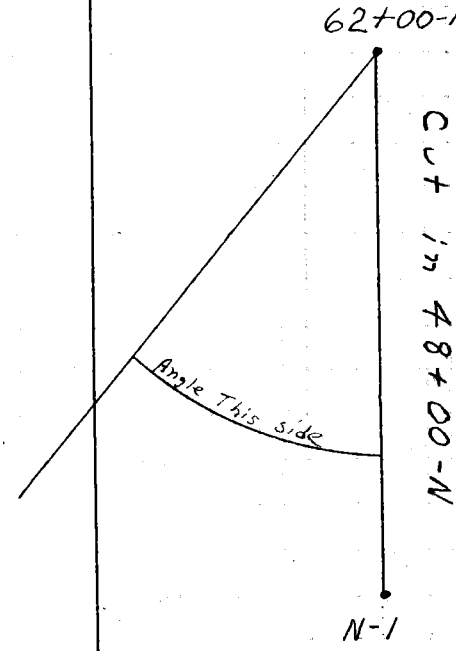
Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.	
Inst. At	Sight Ch	#	Color		Time	Hor. Ang.	
		1	31.3	28.6	8:41	60° 49'	2507
		2	29.7	27.0		59° 44'	2399
		3	28.8	26.1		58° 08'	2252
		4	27.3	24.6		56° 24'	2107
		5	26.2	23.5		54° 41'	1976
		6	25.2	22.5		52° 41'	1837
		7	24.0	21.3		50° 37'	1706
		8	22.8	20.1		48° 18'	1571
		9	21.7	19.0		46° 14'	1462
		10	20.9	18.2		44° 13'	1362
		11	19.8	17.1		41° 53'	1255
		12	19.0	16.3		39° 38'	1160
		13	18.5	15.8		38° 27'	1112
		14	17.8	15.1		37° 24'	1070
		15	17.1	14.4		36° 52'	1050
		16	16.5	13.8		36° 00'	1017
		17	15.8	13.1		35° 10'	986
		18	14.7	12.0		34° 16'	954
		19	14.0	11.3		33° 21'	921
		20	12.7	10.0		32° 30'	892

62+00-N

N-1

Remarks Zero Adj. -0.8
Boat Adj. +1.0
Tide -2.9
-2.7



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 277
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes P.T. Date 8-12-55
No. Date Date Map No. Indexed C. Johnson Date

F.B. 2301 PG. 278 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-12-55 Date _____ No. _____

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

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

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	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
	21	11.5v 8.8		31 01	870	Cut in 48+00-N
	22	10.5v 7.8	8:46	31 38	864	

62+00-N

N-1

761298 307 8-53

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
48+00 T.P. (2ND. LINE)	5 53	22 76		1723		
T. P.	5 37	22 71	542	1734	SPK N. W'LY COR PARKING AREA	
50+00			+86	313	+18.0 -9.4 +8.6 ON SLOPE	
30 FT R. (EAST)			+269	496	TOP SLOPE	
16 FT. L.			+27	254	BRK ON SLOPE	
28 " "			33	194	E'LY EDGE PAV., BOTTOM SLOPE	
54 " "			25	202	WLY EDGE ROAD	
55 " "			18	209	" " " CURB	
82 " "			51	176	BRK	
98 " "			42	185	ELY EDGE PAV. PARKING AREA	
200 " "			52	175	" " "	
229 " "			56	171	W'LY EDGE "	
260 " "			66	161		
300 " "			86	141		
400 " "			105	122		
500 " "			96	131		
596 " "			84	143	BRK	
600 " "			88	139		
634 " "			117	110		
T.P. 654 " "			1420	851		

INSHORE
N 50+00

Profile Notes Red_____ Plotted_____ Job No. 0300.02 Division No. 10 F. B. 2301 PG. 279
No._____ Date_____ Date_____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd_____ Checked_____ Survey by ENGLISH Noted G.D. LEE Date 8-12-55
No._____ Date_____ Date_____ Map No._____ Checked J. Johnson Date_____

76L298 307 8-53

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

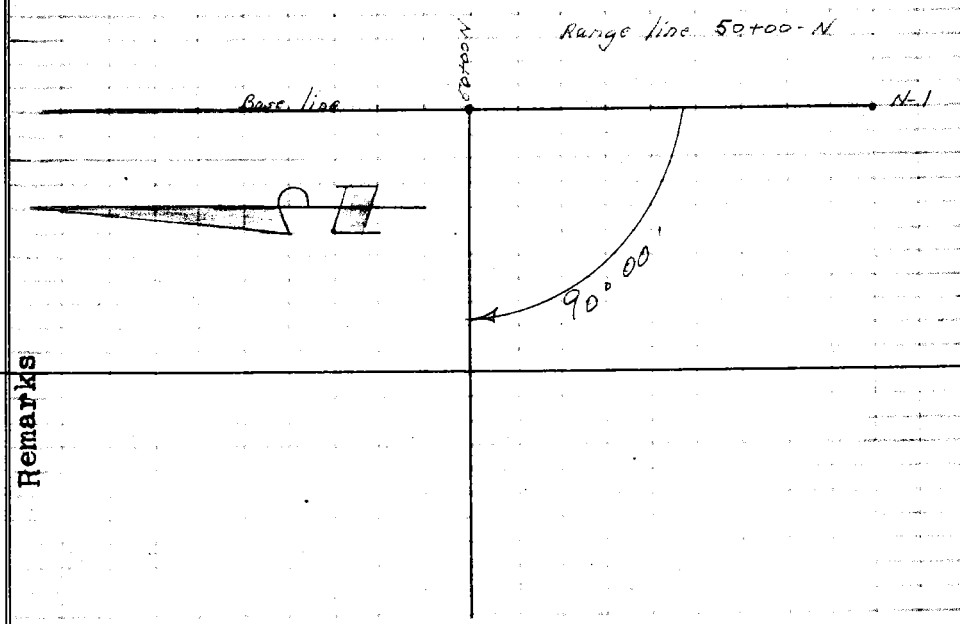
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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

STATION	B. S.	H. I.	F. S.	ELEV.	Last at 46+00	Sight on N-1
T.P.	0 2	8 7		8 [illegible]		
			6 1	[illegible]	59° 55' 690	
			10 3	-1 [illegible]	[illegible] 17 730	
			13 7	[illegible]	[illegible] 783	
			16 6	[illegible]	[illegible] 01 821	
			18 5	-9 [illegible]	64 54 854	

F. B. 2301 PG. 180 Job No. 230002 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Date Date No.
Survey by EE&GD Notes EE&GD 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. 2301	Pg. 281
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Vanderen	Notes J.J.E.	Date 8-12-55	
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		9:33	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'	
				9:37	

N-1

50+00-N

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

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

Do not extend notes this side of this line.

76 298 307 8-53

F.B. 2301 PG. 282 Job No. 2390.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by Van Deren Notes V.J.E. Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

STATION	B.S.	H.I.	F.S.	ELEV.	
50+00-N					
N-1					

Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
					Range Line 50+00-N

Do not extend notes this side of this line.

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L298 307 8-53

761-298 307 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.

Profile No.____ Date____ X-Sec. No.____ Date____

Notes Red____ Date____ Notes Chkd.____ Date____

Plotted____ Date____ Checked____ Date____

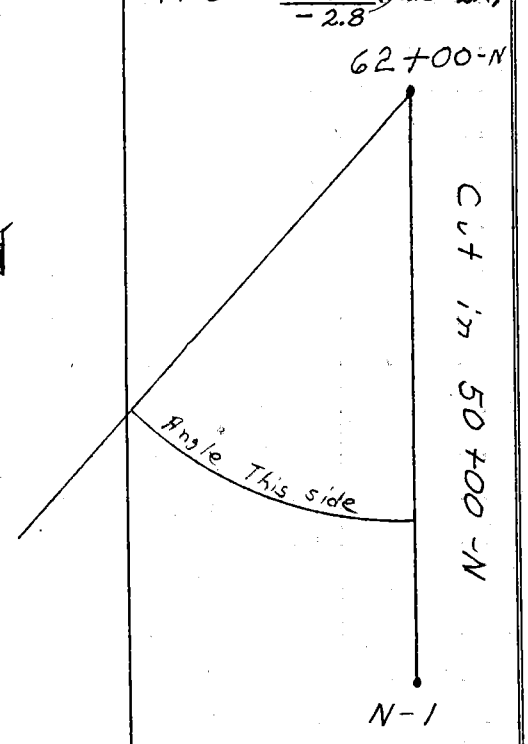
Job No. 0300.02 Division No. 10 Survey of Beach Erosion Study Survey by Ken Dercn Map No.____ Notes R.L. Date 8-12-55 Date____

F.B. 2301 Pg. 283

STATION	B. S.	H. I.		F. S.	ELEV.		
Inst. Sight At CH	#	Color		Time	Hor. Ang.		Remarks
	1	29.4	26.6	9:33	62° 40'	2322	Zero Adj. -0.8
	2	28.3	25.5		61° 07'	2175	Boat Adj. +1.0
	3	26.9	24.1		59° 29'	2033	Tide -3.0 (blue -2.7)
	4	25.6	22.8		58° 21'	1922	-2.8
	5	24.7	21.9		56° 21'	1803	
	6	23.7	20.9		54° 37'	1690	
	7	22.7	19.9		52° 42'	1575	
	8	21.6	18.8		50° 15'	1443	
	9	20.5	17.7		48° 03'	1335	
	10	19.6	16.8		45° 44'	1231	
	11	18.5	15.7		42° 27'	1098	
	12	16.7	13.9		40° 06'	1010	
	13	15.0	12.2		38° 32'	956	
	14	12.7	9.9		36° 40'	893	
	15	10.3	7.5		35° 06'	843	
	16	8.7	5.9	9:37	33° 55'	807	

N-1

62+00-N



F.B. 2301 Pg. 284 Job No. 2300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-12-55 Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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

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

76L298 307 8-53

76L298 307 8-53

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

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

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

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 48+00	Sight on 52+00
48+00 T. P. (2ND. LINE)	5 53	22 76		17 23		
T. P.	5 37	22 71	5 42	17 34		
52+00			+11 2	33 9	+18.0 -6.8 +11.2	ON ROAD WAY
12 FT. R.			+11 3	34 0	+18.0 -6.7 +11.3	TOE SLOPE
22 FT. LEFT			+10 9	33 6	+18.0 -7.1 10.9	PAV. W. EDGE RD.
24 " "			+11 4	34 1	+18.0 -6.6 11.4	" " " " CURB
28 " "			+11 2	33 9		BRK TOP SLOPE
56 " "			08	21 9		TOE SLOPE
100 " "			50	17 7		
200 " "			90	13 7		
300 " "			92	13 5		
400 " "			98	12 9		
500 " "			90	13 7		
600 " "			86	14 1	BRK	
630 " "			116	11 1	BRK	
T. P.	0 3	8 8	14 20	8 51		
			6 1	27 ~~2 1~~	59° 54' 689	
			11 5	-2 7	61 35 739	
			14 7	-5 9	63 12 792	
			17 8	-9 0	64 32 840	

INSHORE
N 52+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 285
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by DREIER ENGLISH Notes G.D. & E.E. Date 8-12-55
No. ____ Date ____ Date ____ Map No. ____ Date ____

F. B. 2301 Pg. 286 Job No. 030002 Division No. 12 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

Survey by EE & GD Notes EE & GD Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L298 307 8-53

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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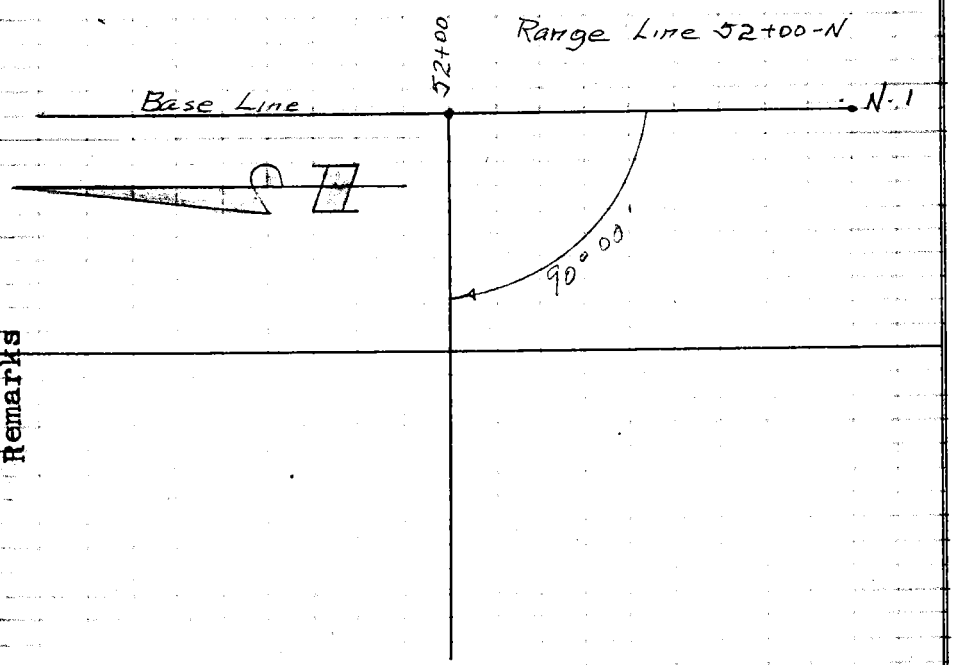
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 11	F. B. 2381 Pg. 287
No.	Date	Date	Survey of Beach Erosion		
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.J.C.	Date 8-12-55
No.	Date	Date	Map No.	Indexed C. Johnson	Date



Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
		21		9:48	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'	

N-1

52+00-N

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

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

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761298 307 8-53

F. B. 2301 PG. 288 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach E-05107 Date _____ Date _____ No. _____

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

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

76L298 307 8:53

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LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight At Or Color Time Hor. Ang.	Remarks
52+00-N						
N-1						
	21					
	22					
	23					
			953			
						Range Line 52+00-N

761298 307 8-53

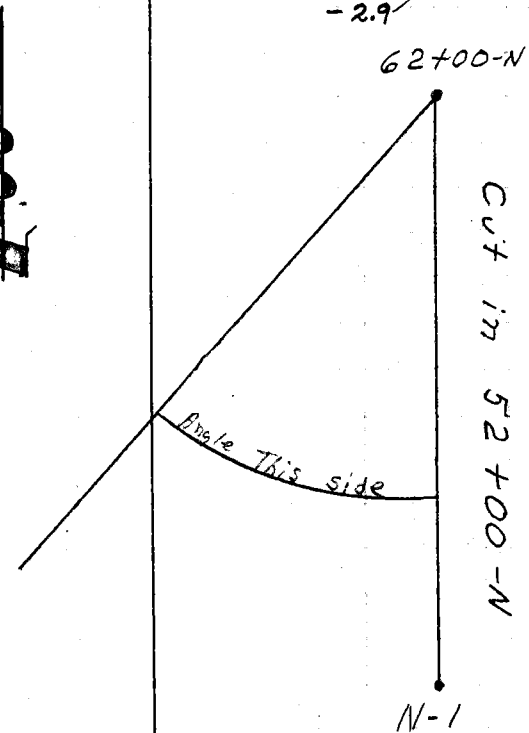
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.	
Inst. At	Sight On	#	Color		Time	Hor. Ang.	
		1	33.1	30.2	9:48	69° 32'	2679
		2	31.5	28.6		68° 29'	2537
		3	30.5	27.6		67° 22'	2398
		4	29.4	26.5		66° 09'	2262
		5	27.2	24.3		64° 22'	2084
		6	26.4	23.5		62° 56'	1957
		7	24.9	22.0		61° 15'	1823
62+00-N	N-1	8	24.1	21.2		59° 15'	1681
		9	22.8	19.9		57° 18'	1558
		10	21.6	18.7		55° 03'	1431
		11	20.5	17.6		52° 08'	1286
		12	19.5	16.6		49° 27'	1169
		13	18.4	15.5		47° 16'	1082
		14	17.9	15.0		46° 12'	1043
		15	17.2	14.3		45° 13'	1008
		16	16.6	13.7		44° 36'	986
		17	15.8	12.9		43° 38'	953
		18	15.0	12.1		43° 06'	936
		19	14.1	11.2		42° 12'	907
		20	12.7	9.8		41° 28'	883

Remarks Zero Adj. −0.8
Boat Adj. +1.0
Tide −3.1 (blue −2.8)
−2.9



Profile Notes Red. Plotted Job No. 230002 Division No. 10 F.B. 2301 Pg. 289
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-12-56
No. Date Date Map No. Max G. Johnson Date

F.B. 2301 Pg. 290 Job No. 2300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-12-55 Date _____ No. _____

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

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

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
62+00-N					
N-1					
Inst. Sight At					
#	Color	Time	Hor. Ang.		
		11.9	9.0		857
		10.3	7.4		828? (39°38')
		9.1	6.2		808
			9.53		
					Cut in 52+00-N

Do not extend notes this side of this line.

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

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

76L293 307 8-53

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 X

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 50+00		Sign. on 54+00
52+00							
T.P. (2nd LINE)	5 37	22 71		17 34			
T.P.	4 41	19 49	7 63	15 08			
54+00			+8 3	27 8	+9.0 -0.7 +8.3	TOE	SLOPE
85 FT LEFT			2 6	16 9			
100 " "			3 3	16 2			
200 " "			5 1	14 4			
300 " "			5 2	14 3			
400 " "			5 7	13 8			
500 " "			5 7	13 8			
583 " "			6 3	13 2			
600 " "			8 1	11 4			
T.P. 642 " "	-0 1	8 7	10 68	8 8			
			6 3	2 4	60° 01'	693	
			11 1	-2 4	62 01	753	
			13 8	-5 1	63 06	788	
			16 7	-8 [illegible]	64 23	834	
			19 5	-10 8	65 49	891	

IN SHORE
N. 54+00

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 291
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
Notes Chkd. ____ Checked ____ Survey by DREIER ENGLISH Notes G.D. & E.E. Date 8-12-55
Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

F. B. 2301 Pg. 292 Job No. [illegible] Division No. 10 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

PLEASE RETURN TO

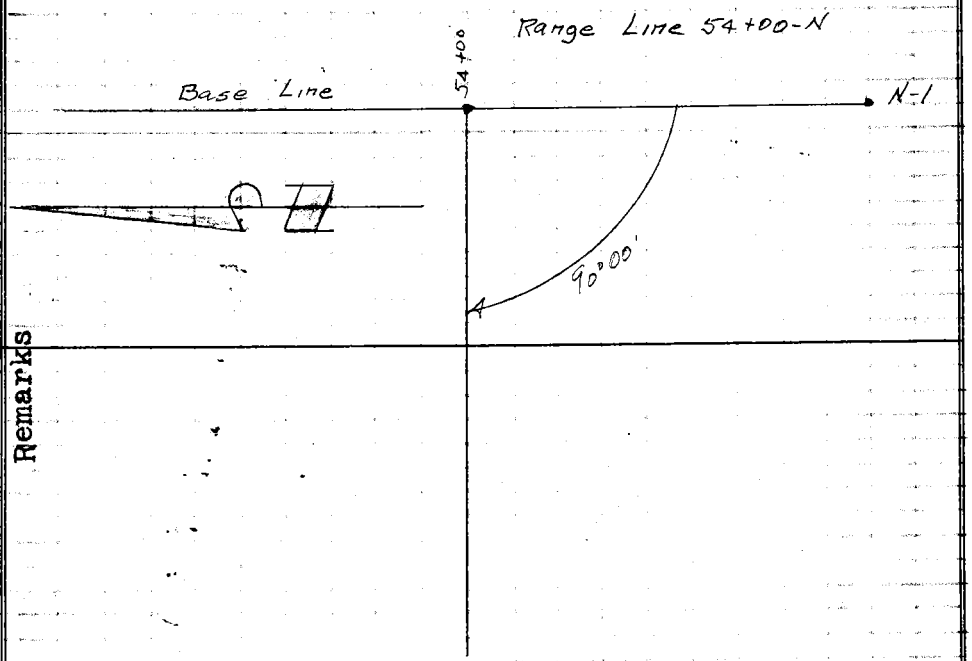
LOS ANGELES COUNTY SURVEYOR

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.

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301	Pg. 293
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J. J. E.	Date 8-12-55	
No.	Date	Date	Map No.	Indexed G. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At	#	Color	Time	Hor. Ang.	
	1		10:25	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'	

N-1

54+00-N

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

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

Do not extend notes this side of this line.

76 298 307 8-53

F.B. 2301 PG. 299 | Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

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

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

STATION	B. S.	H. I.	F. S.	ELEV.	Hor. Ang.	Remarks
54+00-N						
N-1						
Inst. Sight At OR	#	Color	Time			
	21					
	22					
	23					
	24			10.30		
					Range Line	54+00-N

Do not extend notes this side of this line.

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

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

761298 307 8-53

76L298 307 8-53

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

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

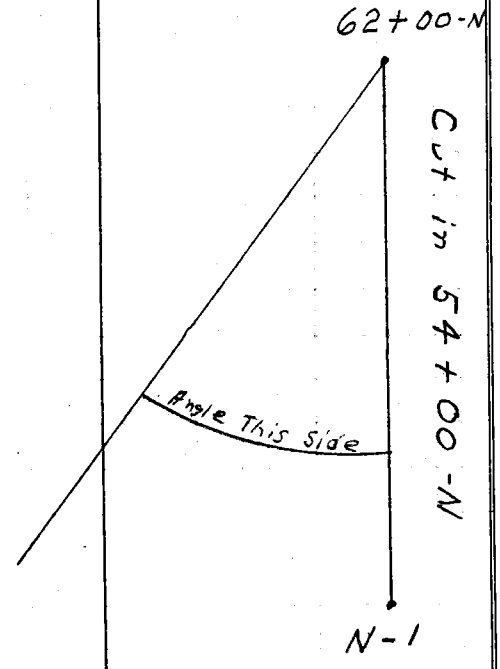
Do not extend notes this side of this line.

STATION	B. S.	H. I.		F. S.	ELEV.	
Inst. Sight At On	#	Color		Time	Hor. Ang.	
	1	31.8	28.6	10:25	72° 38'	2558
	2	30.1	26.9		71° 24'	2377
	3	29.1	25.9		70° 19'	2236
	4	27.5	24.3		69° 18'	2117
	5	26.7	23.5		68° 06'	1990
	6	25.8	22.6		66° 58'	1882
	7	24.7	21.5		65° 44'	1775
	8	23.2	20.0		64° 02'	1643
	9	22.4	19.2		61° 42'	1486
	10	21.2	18.0		59° 15'	1345
	11	20.4	17.2		56° 58'	1230
	12	19.8	16.6		55° 28'	1163
	13	19.4	16.2		54° 34'	1124
	14	18.7	15.5		53° 53'	1096
	15	18.2	15.0		53° 07'	1066
	16	17.7	14.5		52° 03'	1026
	17	16.9	13.7		51° 07'	992
	18	16.0	12.8		50° 05'	956
	19	14.9	11.7		49° 01'	921
	20	13.9	10.7		48° 08'	893

62+00-N

N-1

Remarks Zero Adj. − 0.9
Boat Adj. + 1.0
Tide − 3.3 (blue −2.9)
− 3.2



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2301 Pg. 295
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-12-55
No. Date Date Map No. Date

76L298 307 8-53

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

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

Do not extend notes this side of this line.

F. B. 2301 Pg. 296 Job No. 2300.01 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 8-12-55 Date No. X-Sec.
Survey by Van Deren Notes R.T. Notes Chkd. Checked
Indexed R. C. Johnson Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.		Remarks
	21	12.0 8.8		[illegible]	853	Cut in 54+00-N
	22	10.4 7.2		[illegible]	820	
	23	8.4 5.2		4[illegible]	792	
	24	void	10:30	4[illegible]	782	
62+00-N / N-1						

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.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 60+00		Sight on 56+00
52+00 T.P. (2nd LINE)	5 37	22 71		17 34			
T.P.	4 41	19 49	7 63	15 08			
56+00			+8 3	27 8	+9.0 -0.7 +8.3	TOE SLOPE	
63 FT. LEFT			0 0	19 5			
100 " "			3 1	16 4			
200 " "			5 2	14 3			
300 " "			5 7	13 8			
400 " "			6 7	12 8			
500 " "			5 9	13 6			
586 " "			6 1	13 4			
600 " "			7 9	11 6			
630 " "			11 4	8 1			
T.P.	-0 8	8 0	10 68	8 8 1			
			4 0	4 0	59° 33'	680	
			11 0	-3 0	61 54	749	
			13 3	-5 3	63 25	799	
			17 2	-9 2	64 24	835	

INSHORE
N. 56+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 297
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by DREIER ENGLISH Notes G.D.&E.E. Date 8-12-55
No. ____ Date ____ Date ____ Map No. ____ Index of Johnson Date ____

F. B. 2301 Pg. 298 Job No. [illegible] Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach [illegible] Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L298 307 8-53

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

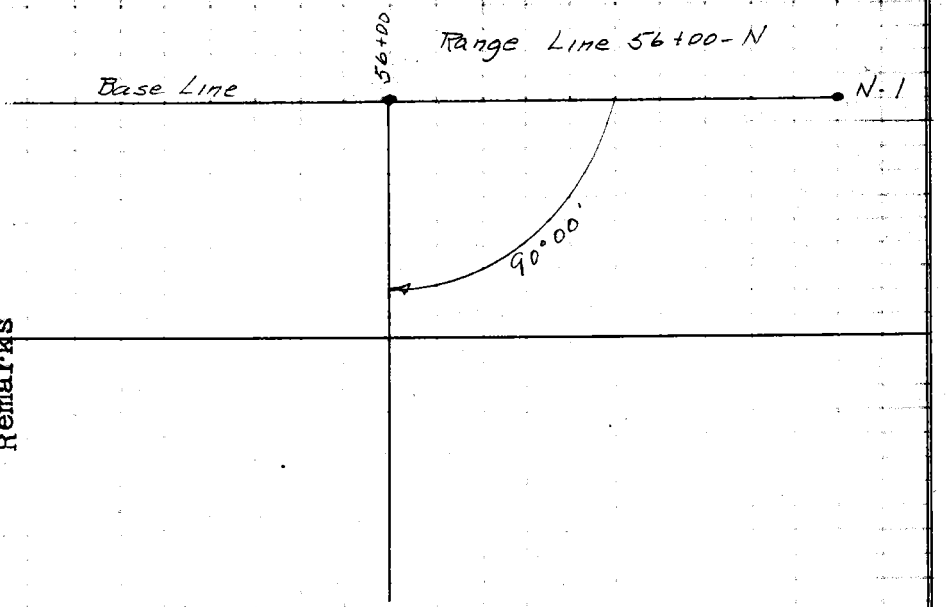
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

F. B. 2301 Pg. 299

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.J.E. Date 8-12-55
Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____



STATION	B. S.	H. I.	F. S.	ELEV.
Inst. Sight On	# Color	Time	Hor. Ang.	Remarks
	1		10:42	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'

N-1

56+00-N

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

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

Do not extend notes this side of this line.

76L 98 307 8-53

F. B. 2301 PG. 300 Job No. 8300-02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

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

Indexed K. C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.
Inst At.				
Sight on	#		Time	Horizontal
	21		10:47	[illegible]

56+00-N

N-1

Range Line 56+00-N

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.

761298 307 8-53

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

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

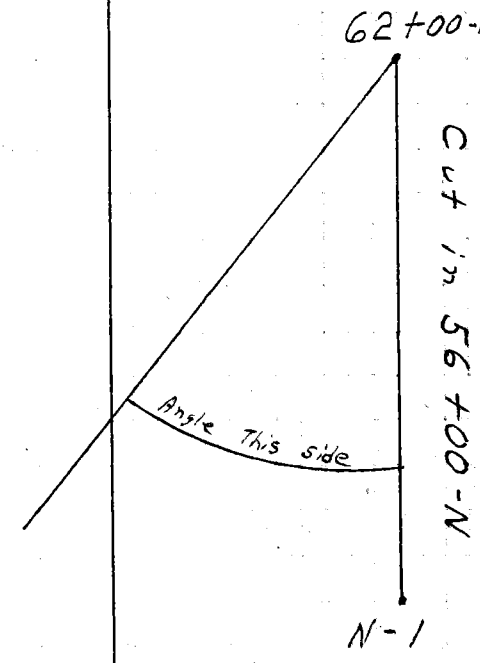
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. At / Sight On	#	Color	Time	Hor. Ang.	
	1	31.5 28.8	10:42	76° 31'	2502
	2	30.1 27.4		75° 45'	2363
	3	29.6 26.9		75° 09'	2263
	4	28.5 25.8		74° 23'	2147
	5	27.5 24.8		73° 38'	2043
	6	26.3 23.6		72° 36'	1915
	7	25.3 22.6		71° 40'	1811
	8	24.5 21.8		70° 46'	1720
	9	23.6 20.9		69° 56'	1643
	10	22.7 20.0		68° 48'	1547
	11	22.3 19.6		67° 31'	1450
	12	21.3 18.6		66° 06'	1354
	13	20.3 17.6		64° 50'	1258
	14	19.4 16.7		62° 50'	1169
	15	18.4 15.7		61° 02'	1084
	16	17.2 14.5		59° 26'	1016
	17	16.2 13.5		58° 15'	970
	18	15.3 12.6		57° 25'	939
	19	14.1 11.4		56° 15'	898
	20	12.6 9.9		55° 00'	857

62+00-N

N-1

Remarks Zero Adj. -0.3
Boat Adj. +1.0
Tide -3.4 (blue -3.0)
-2.7



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 301
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by VanDeren Notes R.T. Date 8-12-53
No. Date Date Map No. Indexed A.C. Johnson Date

F. B. 2301 PG. 302 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-12-55 Date No.

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

Indexed A. C. Johnson Date Date Date No.

76L298 307 8-53

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
	81	10.9	8.2	10:47	5	836 Cut in 56+00-N

62+00-N

N-1

761 298 307 8-53

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

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

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

STATION	B. S.	H. I.	F. S.	ELEV.	Last at 54+00	Sight on 58+00
56+00						
T.P. 2nd LINE	441	1949		1508		
T.P.	177	1856	270	1679		
58+00			+84	270	TOE SLOPE	
50 FT LEFT			+13	199	+ 8.4 - 7.1 1.3	
100 " "			-12	174		
200 " "			39	147		
300 " "			46	140		
400 " "			54	132		
500 " "			59	127		
562 " "			58	128	BRK	
600 " "			68	118		
647 " "			112	74		
T.P. 647 " "	[illegible]	[illegible]	1115	741		
			4 [illegible]	3 [illegible]	59° 34' 681	
			9 7	-1 [illegible]	61 46 745	
			13 1	-5 1	62 49 779	
			16 2	-8 2	64 18 831	
			1[illegible]	[illegible]	65 15 868	

INSHORE
N. 58+00

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 303
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
Notes Chkd. ____ Checked ____ Survey by DREIER ENGLISH Notes G.P. & E.E. Date 8-12-55
Date ____ Date ____ Map No. ____ Date ____
Alex C. Johnson

F. B. Pg. 304 Job No. Division No. Notes Red. Plotted Profile

Survey of Date Date No.

Survey by EGD Notes EEGD 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.

PLEASE RETURN TO

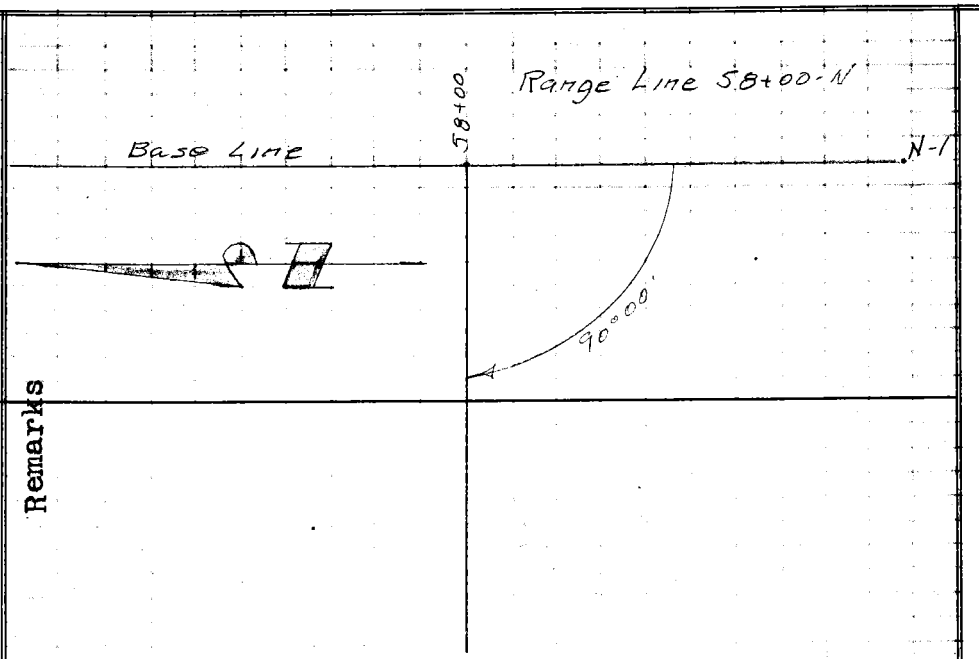
LOS ANGELES COUNTY SURVEYOR

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.

76L298 307 8-53

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2301	Pg. 305
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.J.E.	Date 8-12-55	
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		11:03	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'	
				11:07	

N-1

58+00-N

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

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

Do not extend notes this side of this line.

761298 307 8-53

E.B. 7301 PG. 306 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

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

Indexed A. C. Johnson Date Date Date No.

76L298 307 8-53

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
58+00-N						
N-1						
						Range Line 58+00-N

76L298 307 8-53

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

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

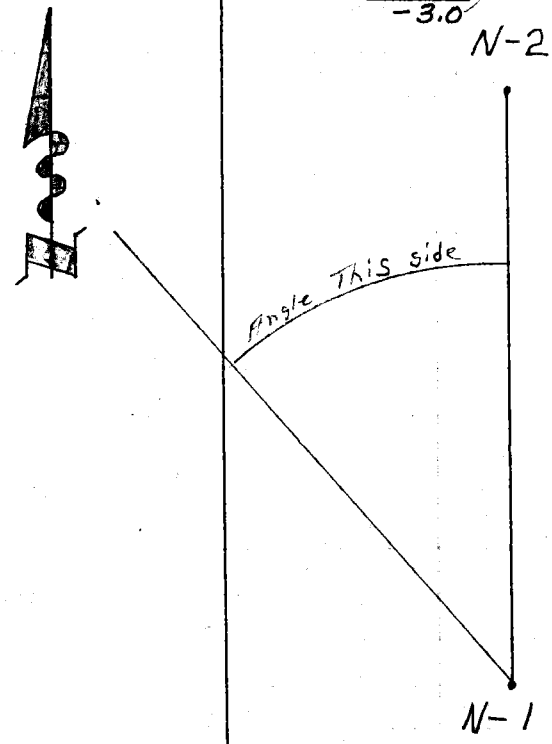
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. At / Sight On	#	Color	Time	Hor. Ang.	
	1	30.2 ✓ 27.2	11:03	66° 16'	2370
	2	29.0 ✓ 26.0		65° 07'	2247
	3	27.9 ✓ 24.9		63° 48'	2118
	4	26.9 ✓ 23.9		62° 26'	1996
	5	25.7 22.7		61° 07'	1889
	6	24.9 ✓ 21.9		59° 37'	1777
	7	24.0 ✓ 21.0		57° 50'	1657
	8	23.1 ✓ 20.1		56° 07'	1552
	9	22.0 ✓ 19.0		54° 11'	1444
	10	20.8 ✓ 17.8		51° 55'	1330
	11	20.2 ✓ 17.2		50° 18'	1255
	12	19.3 ✓ 16.3		47° 40'	1144
	13	18.2 ✓ 15.2		45° 22'	1055
	14	17.2 ✓ 14.2		43° 42'	996
	15	16.3 ✓ 13.3		42° 27'	953
	16	14.9 ✓ 11.9		41° 24'	919
	17	13.9 ✓ 10.9		40° 14'	882
	18	11.6 8.6		39° 10'	849
	19	10.0? 7.0?		38° 00'	814
	20	VOID	11:07	37° 16'	793

N-1

N-2

Remarks Zero Adj. -0.5
Boat Adj. +1.0
Tide -3.5 (blue -3.2)
-3.0



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 307
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes P.T. Date 8-12-55
No. Date Date Map No. Indexed C. Johnson Date

F. B. 2301 Pg. 308 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-12-55 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 On	#	Color	Time	Hor. Ang.			

Do not extend notes this side of this line.

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

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

76L298 307 8-53

761 298 307 8-53

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

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

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

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 54+00	Sight on 60+00
56+00 T.P. (2nd LINE)	4 41	19 49		15 08		
T.P.	1 77	18 56	2 70	16 79		
60+00			+13 8	32 4	ON SLOPE	
50 FT L.			22	16 4	TOE SLOPE	
100 " "			45	14 1		
200 " "			51	13 5		
300 " "			50	13 6		
400 " "			54	13 2		
500 " "			46	14 0		
562 " "			48	13 8		
600 " "			73	11 3		
612 " "			75	11 1		
650 " "			10 3	8 3		
T.P.	4 15	11 56	11 15	7 4		
			7 5	4 1	48° 19' 674	
			14 0	-2 4	51 09 743	
			17 4	-5 8	52 48 791	
			21 0	-9 4	54 32 842	

INSHORE
N. 60+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2301 PG. 309
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by DREIER ENGLISH Notes G. O. LEE Date 8-12-55
No. ____ Date ____ Date ____ Map No. ____ Mark G. Johnson Date ____

F. B. 2 Pg. 310 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by E.E. & G.D. Notes E.E. & G.D. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

76L298 307 8-53

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

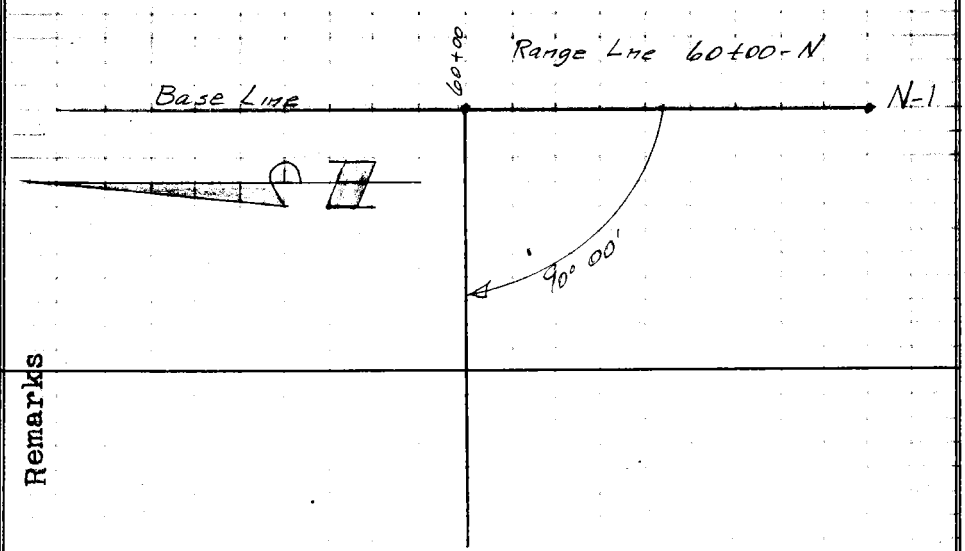
Do not extend notes this side of this line.

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 0300.02 Division No. 10 | F. B. 2301 Pg. 311

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

Notes Chkd. _____ Checked _____ Survey by Van Deren Notes J.J.E. Date 8-12-55

Date _____ Date _____ Map No. _____ Indexed K. C. Johnson Date _____



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At Ch	#	Color	Time	Hor. Ang.	
	1		11:19	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'	
				11:24	

N-1

60+00-N

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

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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761 298 307 8-53

F. B. 2301 PG. 3/2

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

Survey of Beach Erosion Date _____ Date _____ No. _____

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

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

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	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
60+00-N						
N-1						
					Range Line 60+00-N	

76L298 307 8-53

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

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

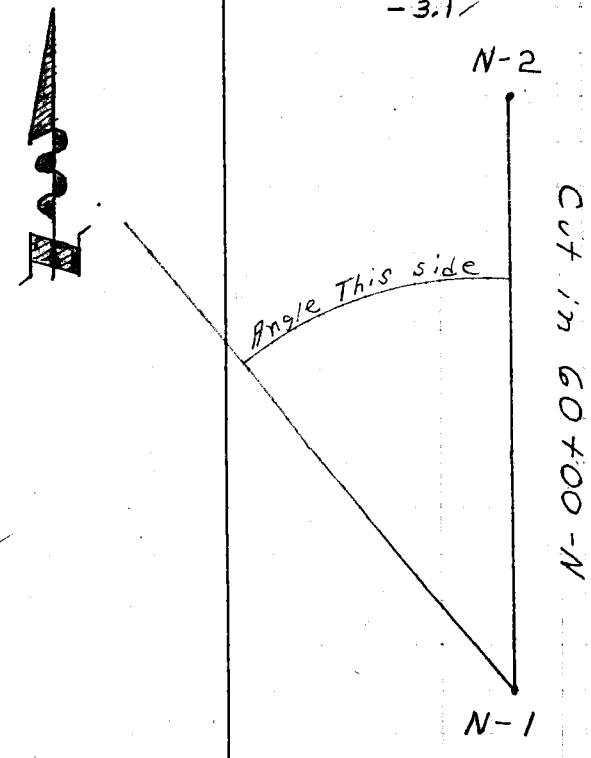
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1	30.9 ✓ 27.8	11:19	62° 53'	2425
	2	29.7 ✓ 26.6		61° 30'	2288
	3	28.6 ✓ 25.5		60° 03'	2155
	4	27.5 ✓ 24.4		58° 45'	2047
	5	26.2 ✓ 23.1		57° 12'	1927
	6	25.6 ✓ 22.5		55° 23'	1799
	7	24.4 ✓ 21.3		53° 26'	1674
	8	23.6 ✓ 20.5		51° 32'	1563
	9	22.7 ✓ 19.6		49° 59'	1479
	10	21.5 ✓ 18.4		47° 22'	1349
	11	20.5 ✓ 17.4		45° 00'	1242
	12	19.8 ✓ 16.7		43° 00'	1158
	13	18.6 ✓ 15.5		40° 41'	1068
	14	17.9 ✓ 14.8		39° 06'	1009
	15	17.1 ✓ 14.0		37° 55'	967
	16	15.5 ✓ 12.4		36° 34'	921
	17	14.3 ✓ 11.2		35° 26'	884
	18	12.0 ✓ 8.9	11:24	34° 08'	842

N-1

N-2

Remarks Zero Adj. −0.5
Boat Adj. +1.0
Tide −3.6 (blue −3.3)
−3.1



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F.B. 2301 Pg. 313
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-12-55
No. Date Date Map No. Indexed C. Johns Date

F.B. 2301 Pg. 314 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-12-55 Date

Survey by Van Deren Notes R.T. Notes Chkd. Checked

Indexed Date Date Date

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

STATION ELEV.