by J. S. Hale	Survey of Beach Erosion Studies	F. B. 2803 PG. 5
Hale, Hinzman	~~IN 0300.02~~ Tape, Stf, °F	
Hale, Hinzman	Surveyed by Harriet, Lind, English	
6-59	Notes Harriet, Lind, English	
	Indexed C. Johnson 8-28-59	

BEACH EROSION STUDIES

J.N. 0300.02

Station 103+87.17N to 209+39.08N

AUG. 1959

Cont From South F.B. 2802

HARRIET, J.M.	LIND, C.K.	ENGLISH, E.F.
[illegible]KS, D.	GOODWIN, J.C.	LANDA, E.
[illegible]E, W.J.	HILL, C.H.	FOULGER, D.S.
[illegible]RADER, R.L.	WALLACE, D.L.	TUXFORD, K.
[illegible]EN, D	MASUDA, G.	HINZMAN, C.W.
[illegible]r, R.M.		DUPUIS, E.N.
[illegible]AMMEN, K.R.		
[illegible]OEMAKER, C.E.		

microfilmed.

March 85

F. B. 2883 PG. 6

RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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 Credited by Red Ink With Date and Name of Person Making Change.

763095 CE #247—7-53

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

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

Survey of
JN Tape Std. °F
Surveyed by
Notes Date
Indexed

F. B. Pg.

F. B. 2803 PG. 7A

TIDES 8-24-59

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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 J. S. Hale	Survey of Beach Erosion Study
~~Map No.~~	~~JN 52027 Tape~~ ~~Std~~
Office Work Hale, Hinzman	Surveyed by UHarriet
Checked Hale, Hinzman	Notes E. Nor ~~E. C. Johnson~~ Date ~~8-24-59~~
Date 10-6-59	Indexed ~~8-28-59~~

F. B. 2803 PG. 7

8-24-59

~~3.0~~ 2.8 on Datum Line of Tide Gauge

Gauge time (P.S.T.) - 12:30

Watch Time (P.S.T.) - 12:29

Standard Time	Gauge Reading	
5:00	~~+2.8~~	+2.6
5:30	~~+2.6~~	+2.4
6:00	~~+2.5~~	+2.3
6:30	~~+2.6~~	+2.4
7:00	~~+2.6~~	+2.4
7:30	~~+2.9~~	+2.7
8:00	~~+2.9~~	+2.7
8:30	~~+3.1~~	+2.9
9:00	~~+3.4~~	+3.2
9:30	~~+3.6~~	+3.4
10:00	~~+4.0~~	+3.8
10:30	~~+4.3~~	+4.1
11:00	~~+4.5~~	+4.3
11:30	~~+4.8~~	+4.6
12:00	~~+4.9~~	+4.7

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

763095 CE #247—7-53

F. B. 2803 PG. 8

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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 107+87.17	Sight on 103+87.17	
T.B.M.	6 12	19 29		13 17	Bolt in Elbow	Inshore 103+87.17 H.	
					DATUM MEAN LOWER LOW WATER		
103+87.17 H.					550' OFFSET LINE		
							allowed for offset
			73	12 0		100 R.	450
			73	12 0		200 R.	350
			29	13 4		300 R.	250
			21	17 2		394 R. Toe Slope	156
			+33	22 6		425 R. Top Slope	125
			+35	22 8		538 R. Toe Slope	12
			48	14 5	100 L.		650
			63	13 0 ~~12 0~~	192 L. Top Slope		742
			73	12 0	200 L.		750
T.P.	1 1	9 4	11 0	8 3	22 L.		776
			4 7	4 7	32 17	253	803
			9 4	0 0	36 01	291	841
			107	-1 3	37 40	309	859
			114	-2 0	39 10	326	876
			141	-4 7	42 08	362	912
			163	-6 9	44 51	398	948
			180	-8 6	46 24	420	970

Profile Notes Red. Hinzman Plotted Hinzman Job No. Division No. 10
Date 10-6-59 Date 10-8-59 Survey of Beach Erosion Study
No. X-Sec. 105+87.17 Notes Chkd. Hinzman Checked Hinzman Survey by Elko Notes
No. Date 10-8-59 Date 10-8-59 Map No. Index Date 11-4-59

Hale
Hale

F.B. 2893 Pg. 9

F.B. 2803 Pg. 10

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

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

Survey by LINO Notes LINO 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 ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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-296 CE 307 11-58

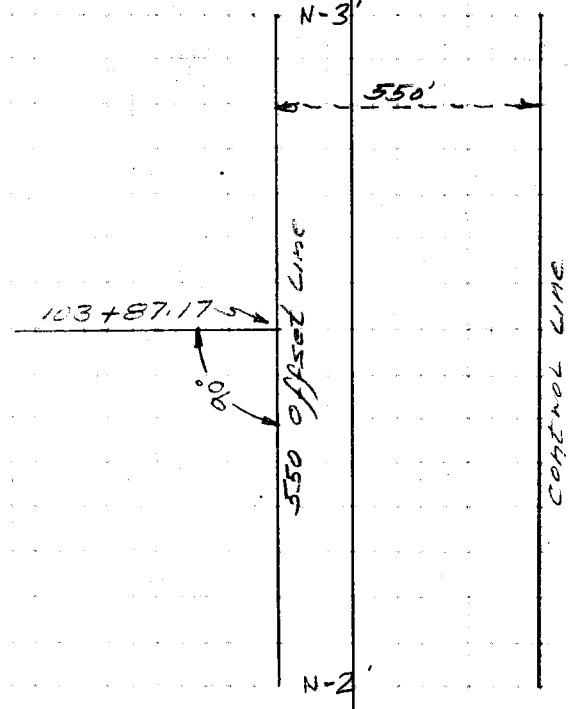
76L298 307 8-53

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 Ch	#	Color	Time	Hor. Ang.	
	1		6:35	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



103+87.17
N-2'

Profile
No. X-Sec. 103+87.17
Notes Red Hale & Hinzman Plotted Hale & Hinzman Job No. 2Bau02 Division No. 10 F. B. 2803 Pg. 11
Date 10-6-59 Date 10-6-59 Survey of Bethel Erosion Study
Notes Chkd. Hinzman Checked Hinzman Survey by [illegible] Notes [illegible] Date 8-24-59
Date 10-6-59 Date 10-6-59 Map No. Index [illegible] Date

F. B. 2803 Pg. 12 | Job No. 030002 Division No. 10 | Notes Red. Hale & Hinzman | Plotted Hale & Hinzman | Profile

Survey of Beach Erosion Study | Date 10-6-59 | Date 10-8-59 | No.

Survey by Uhrich | Notes Ellen | Notes Chkd. Hale & Hinzman | Checked Hale & Hinzman | X-Sec. 103+87.17

Indexed L. C. Johnson | Date | Date 10-6-59 | Date 10-8-59 | No.

761298 307 8-53

LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

PLEASE RETURN TO

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. B.	H. I.	F. S.	ELEV.	Remarks
103+87.17 N					Inst. Sight At
N-2'					OH
	21				
	22				
	23				
	24				
	25				
	26				
	27				
	28				
	29				
	30				
	31				
	32				
	33				
	34				
	35				
	36				
	37				
		Color	Time	Hor. Ang.	
			6:40	90° 00	

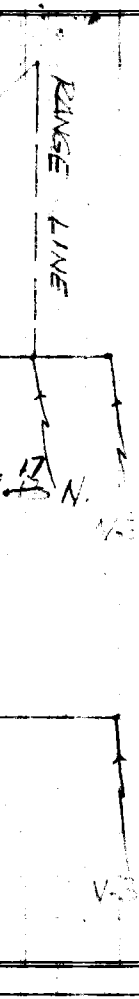
76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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	#	Rec.	Depth Adj.	Time	Hor. Ang.	Add offset		Remarks
95+87.17 N.	N-2	1	32.2	29.3	6 35	65°29'	1754	2304	Adjustments
		2	31.0	28.1		64°31'	1678	2228	Boat = +1.0
		3	30.4	27.5		63°28'	1614	2164	Zero = -1.6
		4	29.8	26.9		62°32'	1539	2089	Tide = -2.3
		5	29.0	26.1		61°14'	1462	2012	-2.9
		6	28.2	25.3		60°07'	1392	1942	
		7	27.7	24.8		58°51'	1329	1879	
		8	26.7	23.8		57°34'	1259	1809	
		9	26.3	23.4		56°08'	1188	1738	
		10	25.7	22.8		54°38'	1127	1677	
		11	24.9	22.0		52°30'	1042	1592	
		12	24.6	21.7		50°34'	976	1526	
		13	24.3	21.4		49°43'	944	1494	
		14	23.8	20.9		48°10'	894	1444	
		15	23.2	20.3		45°55'	826	1376	
		16	22.4	19.5		44°32'	787	1337	
		17	22.2	19.3		43°21'	755	1305	
		18	21.9	19.0		42°38'	737	1287	
		19	21.5	18.6		41°44'	714 (N-2)	1264	
		20	20.8	17.9		40°39'	687	1237	



Profile No. X-Sec. No. 103+87.17

Notes Red Hinzman Hale & Date 10-6-59 Plotted Hinzman Hale & Date 10-8-59 Job No. Division No. 10 F. B. 2603 Pl. 13

Notes Chkd Hinzman Hale & Date 10-6-59 Checked Hinzman Hale & Date 10-8-59 Survey of BEACH EROSION STUDIES

Survey by DIVERT Notes P.L. Date 8-31-59

Map No. Indexed C. J. [illegible]

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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. 2803 Pg. 14 | Job No. 030002 | Division No. 10 | Notes Red. Hale & Hinzman Plotted Hale & Hinzman Date 10-8-59 No. | Profile
Survey of BEACH EROSION STUDIES | Date 10-6-59 | Notes Chkd. Hale & Hinzman Checked Hale & Hinzman | X-Sec.
Survey by CHARLIE | Notes STRADER | Date 10-6-59 | Date 10-8-59 | No. 95+87.17
Indexed K. C. Johnson | Date

STATION	S. S.	H. I.		F. S.	ELEV.			
Inst. At / Sight On	#	Rec.	Depth Adj.	Time	Hor. Ang.		Add offset	Remarks
	21	20.2	17.3		39° 38'	662	1212	
	22	19.2	16.3		38° 47'	643	1193	Adjustment
	23	18.1	15.2		38° 00'	625	1175	Boat = +1.0
	24	17.3	14.4		36° 53'	600	1150	Zero = -1.6
	25	16.5	13.6		36° 28'	591	1141	Tide = -2.3
	26	15.8	12.9		35° 51'	562	1112	-2.9
95+87.17 N.	27	15.2	12.3		34° 34'	551	1101	
	28	14.4	11.5		33° 30'	530	1080	
	29	13.6	10.7		32° 08'	502	1052	
N-3'	30	12.8	9.9		31° 00'	482	1032	
	31	12.0	9.1		29° 43'	? 457	1007 ?	
	32	11.1	8.2		28° 42'	438	988	
	33	10.4	7.5		27° 32'	417	967	
	34	9.7	6.8		26° 25'	398	948	
	35	8.6	5.7		25° 24'	382	932	
	36	7.7	4.8		24° 54'	371	921	
	37	6.6	3.7	6 40	23° 42'	351	901	

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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 112+87.17	Sight on 107+87.17
		1929			DATUM MEAN LOWER LOW WATER	USHORE
T.P.	352	1997	284	1645		107+87.17 N
107+87.17 N.			48	152	550' OFFSET LINE	
			83	117		100 R. 450 (Allowed for offset)
			80	120		200 R. 350
			73	127		300 R. 250
			15	185		152
			115	215		398 R. Toe Slope 125
			144	222		425 R. Top Slope 7
						543 R. Toe Slope
			52	148	100' L.	650
			58	142	143' L. Top Slope	693
			90	110	169' L.	719
T.P.	08	89	119	81	200' L.	750
			42	47	26° 05'	245 795
			86	03	29 17	280 830
			103	-14	31 43	309 859
			118	-29	33 03	325 875
			130	-41	34 50	348 898
			151	-62	36 46	374 924
			169	-80	38 49	402 952

Profile No. X-Sec. 107+87.17
Notes Red Halo & Hinzman
Date 10-6-59 Halo & Hinzman
Notes Chkd. Hinzman
Date 12-2-59
Plotted Halo & Hinzman
Date 10-8-59 Halo
Checked Hinzman
Job No. 0300-61
Survey of
Survey by
Map No.
Division No. 16
Notes
Date
F.B. 28037 Pg. 15

F.B. 2803 Pg. 16 | Job No. 0300.02 Division No. 10 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

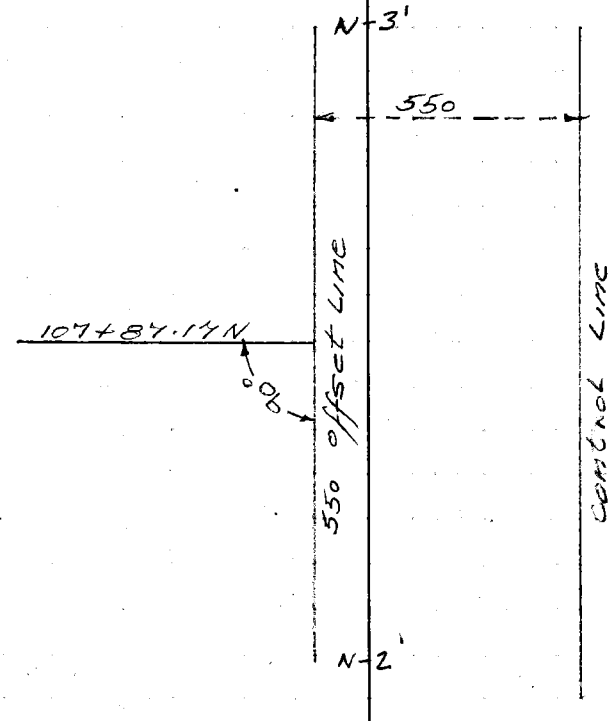
76L298 307.8-53

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 Ch	#	Color	Time	Hor. Ang.	
	1		6:48	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



N 41.43 E
107+87.14
N-2'

Profile No. X-Sec. 107+87.17 No.

Notes Red. Hinzman Hale Plotted Hinzman Hale Job No. 830.0 Division No. 10 F. B. 2803 Pg. 17

Date 10-6-59 Date 10-8-59 Survey of Beach Erosion Study

Notes Chkd. Hinzman Hale Checked Hinzman Hale Survey by Lillquist Notes C. Johnson Date 8-24-59

Date 10-6-59 Date 10-8-59 Map No. Index C. Johnson Date

F. B. 2803 Pg. 18 | Job No. 03000-02 | Division No. 10 | Notes Red. Hale & Hinzman | Plotted Hale & Hinzman | Profile

Survey of Beach Erosion Study | Date 10-6-59 | Date 10-8-59 | No.

Survey by Hannett | Notes Ellen | Notes Chkd. Hale & Hinzman | Checked Hale & Hinzman | X-Sec. 107+87.17

Indexed C. Johnson | Date | Date 10-6-59 | Date 10-8-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
107+87.17 N					Inst. sight At OR
N-2'					
	#	Color	Time	Hor. Ang.	
	21			90° 00	
	22			"	
	23			"	
	24			"	
	25			"	
	26			"	
	27		6:52	"	

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.

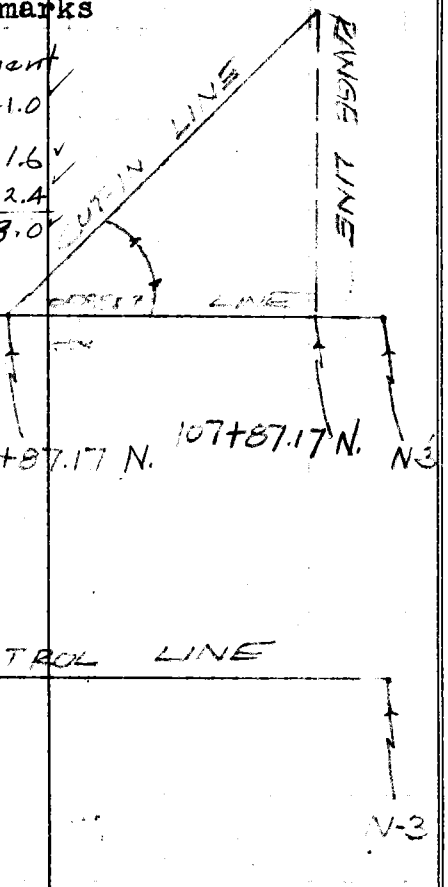
76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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. Depth #	Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.		Add offset	Remarks
95+87.17 N.	N-3		1	30.1	27.1	6 48	51° 02	1483	2033	Adjustment
			2	29.1	26.1		49° 36	1410	1960	Boat = +1.0
			3	28.1	25.1		48° 21	1349	1899	Zero = -1.6
			4	27.2	24.2		46° 56	1284	1834	Tide = -2.4
			5	26.5	23.5		45° 02	1201	1751	-3.0
			6	26.2	23.2		43° 47	1150	1700	
			7	25.8	22.8		42° 45	1109	1659	
			8	25.6	22.6		41° 37	1066	1616	
			9	25.3	22.3		40° 27	1024	1574	
			10	24.9	21.9		38° 50	966	N-2 1516	
			11	24.1	21.1		37° 08	908	1458	
			12	23.6	20.6		35° 30	856	1406	
			13	23.5	20.5		33° 29	793	1343	
			14	23.0	20.0		32° 00	750	1300	
			15	22.4	19.4		30° 10	697	1247	
			16	21.1	18.1		29° 10	670	1220	
			17	19.5	16.5		27° 29	624	1174	
			18	17.7	14.7		25° 53	584	N-2 1134	
			19	16.4	13.4		24° 40	551	1101	
			20	15.6	12.6		22° 47	529	1079	



Profile No. X-Sec. No. 107+87.17
Notes Red Hale & Hinzman Date 10-6-59 Plotted Hale & Hinzman Job No. Division No. F. B. 303 Pg. 19
Notes Chkd Hinzman Date 10-6-59 Checked Hinzman Date 10-8-59 Survey of BEVERLY HILLS Notes Date
Date 10-6-59 Date 10-8-59 Map No. Survey by Hale & Hinzman

76298 S & E #307—7-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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. 2803 Pg. 20 | Job No. 2322 | Division No. 10 | Notes Red. | Hale & Hinzman Plotted | Date 10-8-59 | No. | Profile

Survey of BEACH EROSION STUDIES | Date 10-6-59 | Hale & Hinzman Checked | Date 10-8-59 | No. 107+87.17 | X-Sec.

Survey by CHARGE | Notes Chkd. Hinzman | Notes STRADER

Indexed | Date | Date

STATION		B. S.	H. I.		F. S.	ELEV.			
Inst. At	Sight On	#	Rec.	Depth Adj.	Time	Hor. Ang.	Add offset		Remarks
95+87.17	N-3'	21	14.5	11.5		22° 42'	502	1052	Adjustment
		22	13.4	10.4		21° 32'	474	1024	Boat = +1.0
		23	12.5	9.5		20° 20'	445	995	zero = -1.6
		24	11.5	8.5		19° 11'	418	968	Tide = -2.4
		25	10.3	7.3		18° 12'	395	945	-3.0
		26	9.1	6.1		17° 08'	370	920	
		27	7.5	4.5	6 51	16° 16'	350	900	

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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 115+87.17	Sight on 112+87.17	
		19 97			DATUM MEAN LOWER LOW WATER	INSHORE 112+87.17 N	
	289	18 63	423	15 74			
112+87.17 N			46	140	550' OFFSET LINE		
			64	122			Allowed for offset
			66	120		100° R.	450
			49	137		200° R.	350
			37	149		300 R.	250
			26	160		400 R.	150
			+54	240		439 R. Toe Slope	111
			+48	234		451 R. Top. Slope	99
						559 R. Toe Slope	09
			44	142	100° L.		650
			43	143	140 L. Top. Slope		690
			69	122	175 L.		725
TP for Survey Party.	06	9 5	97	89	205 L.		755
			48	47	37 53	233	783
			90	05	42 00	270	820
			102	-07	43 49	288	838
			121	-26	45 57	310	860
			150	-55	48 58	345	895
			167	-72	50 52	369	919
			180	-95	52 11	386	936

Profile No. X-Sec. 112+87.17 No.
Notes Red Hale + Hinzman Date 10-6-59 Hale + Hinzman Date 10-8-59 Hale + Hinzman Date 10-8-59
Plotted Hale + Hinzman Checked Hinzman Hale + Hinzman Checked Hinzman
Job No. 0307.02 Survey of BEACH ERODED STOOLES Survey by [illegible] Date 6-20-59
Division No. 16 Notes [illegible] Map No. [illegible] Tracked C. Jones Date [illegible]
F.B. 2803 Pg. 21

F. B. 2803 PG. 22

Job No. 036002 Division No. 10 Notes Red _____ Plotted _____ Profile

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

Survey by LWD Notes LWB 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 ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L-298 CE 307 11-58

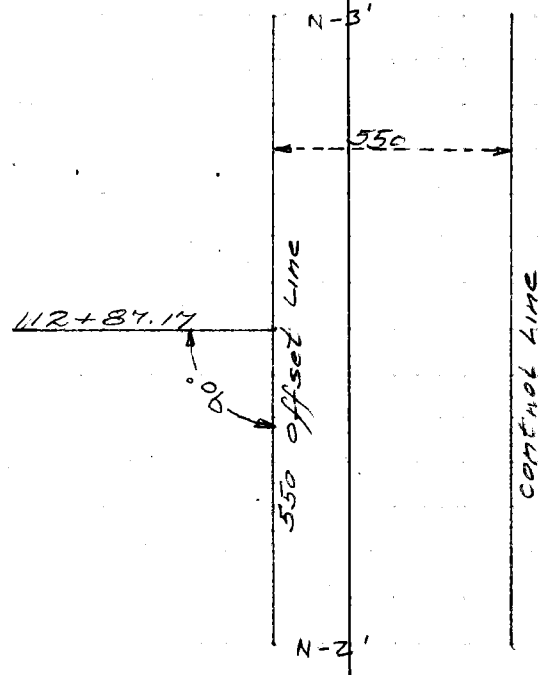
76L298 307 8-53

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 Ch	#	Color	Time	Hor. Ang.	Remarks
	1		7:09	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



112+87.17 N-2'

Profile No. X-Sec. 112+87.17 No.

Notes Red. Hinzman Hale & Date 10-6-59 Plotted Hinzman Hale & Date 10-8-59 Job No. 23000 Division No. 10 F. B. 2893 Pg. 23

Notes Chkd. Hinzman Hale & Date 10-6-59 Checked Hinzman Hale & Date 10-8-59 Survey of Bartch Extension-Sewer

Survey by Hinzman Notes Elev. Date 8-24-59

Indexed C. Jones Date

F. B. 2603 Pg. 24 Job No. 030002 Division No. 10 Notes Red. Hale & Hinzman Plotted Hale & Hinzman Profile

Survey of Beach Erosion Study Date 10-6-59 Date 10-8-59 No.

Survey by UHANLET Notes Ellet Notes Chkd. Hinzman Hale & Checked Hale & Hinzman X-Sec.

Indexed J. C. Johnson Date Date 10-6-59 Date 10-8-59 No. 112+87.17

Inst. Sight At	#	Color	Time	Hor. Ang.	Remarks
112+87.17N					
N-2'					

STATION	B. S.	H. I.	F. S.	ELEV.
	21			90° 00
	22			"
	23		7.12	"

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

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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. Rec.	H. I. Adj.	F. S. Time	ELEV.	Hor. Ang.		Remarks
		1		30.9	27.6	7.09		51°07'	1612	Add offset 2162 Adjustment
		2		29.7	26.4			49°29'	1521	2071 Boat = +1.0
		3		29.4	26.1			47°28'	1417	1967 Zero = -1.9 (shots 1163), -2.6 (shots 4 to 7), -2.9 (shots 8 to 13),
		4		28.7	24.7			45°13'	1310	1860 Tide = -2.4'
		5		27.8	23.8			42°38'	1197	1747 -3.3 14 to 23 -4.0 -4.3
		6		26.8	22.8			40°08'	1096	1646
		7		26.5	22.5			37°45'	1006	1556
		8		25.7	21.4			35°08'	913	1463
		9		24.9	20.6			32°30'	828	N-2' 1378
99+87.17 N.	N-3'	10		24.3	20.0			30°00'	750	1300
		11		22.9	18.6			27°38'	681	1231
		12		21.7	17.4			25°47'	628	1178
		13		20.1	15.8			24°26'	590	1140
		14		18.8	14.8			23°12'	558	1108
		15		17.4	13.4			21°58'	524	1074
		16		16.4	12.4			20°56'	498	1048
		17		15.1	11.1			19°41'	465	1015
		18		14.0	10.0			18°48'	442	N-2 992
		19		12.7	8.7			17°42'	415	965
		20		11.1	7.1			16°40'	389	939

550.00 OFFSET LINE

99+87.17 N. 112+87.17 N. N-3

CONTROL LINE

N-3

PAVING LINE

Profile No. Hole 4 Notes Rod Hinzman Plotted Hinzman Job No. Division No. 10 F. B. 2603 Pg. 25
Date 10-6-59 Date 10-8-59 Survey of BEACH & BOSTON STREETS
X-Sec. No. 112+87.17 Hole 4 Notes Chkd. Hinzman Checked Hinzman Hole 4 Survey by INGRAHAM Notes R. L. S. Date 8-24-59
Date 10-6-59 Date 10-8-59 Map No. Inst. C. Johnson

F. B. 2803 Pg. 26 | Job No. 0300.02 | Division No. 10 | Notes Red. Hale & Hinzman | Plotted Hale & Hinzman | Profile

Survey of BEACH EROSION STUDIES | Date 10-6-59 | Date 10-8-59 | No.

Survey by HARRIET | Notes STRADER | Notes Chkd Hale & Hinzman | Checked Hale & Hinzman | X-Sec. 112+87.17

Indexed K. C. Johnson | Date | Date 10-6-59 | Date 10-8-59 | No.

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

99+87.17 N.

N-3'

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight At On	#	Depth Rec. Adj.	Time Hor. Ang.		Remarks
						21	9.9 5.9	16° 08'	373 923	
						22	9.0 5.0	15° 00'	348 898	Adjustment
						23	7.6 3.6	14° 02'	325 875	Boat = +1.0'
										Zero = -2.6'
										Tide = -2.4'
										-4.0'

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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 ~~119+68~~ N-3'	Sight on 115+87.17
		18 63				USHORE
	429	18 47	445	14 18	DATUM MEAN LOWER LOW WATER	115+87.17 H.
115+87.17 H.			49	13 6	550' OFFSET	LINE
			54	13 1		offset allowed
			64	12 1		78 R. 472
			69	11 6		105 R. 445
			78	13 7		200 350
						300 250
			14	17 0		400 150
						102
			00	13 5		448 Toe Slope
						82
			47	25 2		468 Top
						-10
			60	24 5		560 Toe
			44	14 1	100 L.	650
			48	13 7	145 L. Top Slope	695
			82	10 3	186 L.	736
TP. for SWM PARTY	00	8 1	104	8 1	200 L.	750
			34	4 7	46° 46'	223 773
			70	1 1	50 12	252 802
			87	-0 6	52 32	274 824
			102	-2 1	54 26	293 843
			124	-4 3	56 25	316 866
			146	-6 5	58 53	348 898
			166	-8 5	60 35	372 922

Profile No. ____ X-Sec. ____ Notes Red CWH Date 10-6-57 Notes Chkd. JSH Date 10-6-57 Plotted CWH Date 10-8-57 Checked JSH Date 10-8-57 Job No. [illegible] Survey of BEACH EROSION Survey by [illegible] Map No. ____ Interest C. Johnson Notes ____ Date 8-24-57 Division No. 16 STUDIES F.B. 2803 Pg. 27

F.B. 2803 Pg. 28

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

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76L298 307 8-53

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

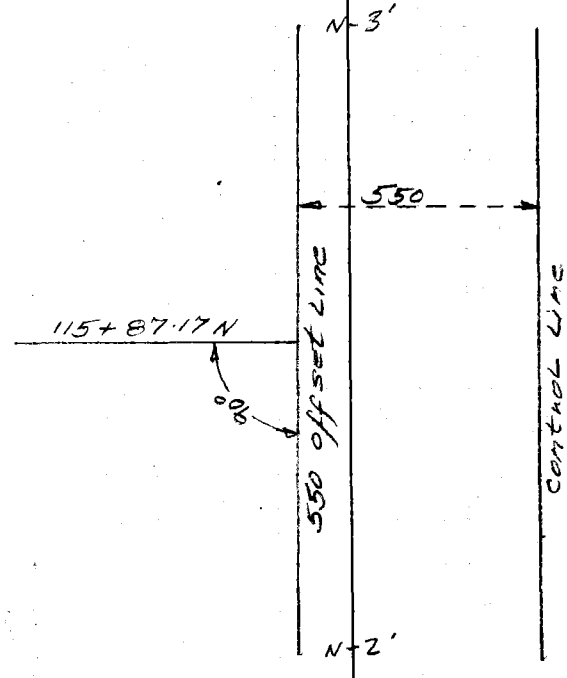
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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
	1		7:21	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	

115+87.17N

N-2'



Profile Notes Red CWH Plotted CWH Job No. 83002 Division No. 10 F. B. 2803 Pg. 29
No. Date 10-6-58 Date 10-8-58 Survey of Beach Erosion Study 8-21-58
X-Sec. Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes Elliot Date
No. Date 10-8-58 Date 10-8-58 Map No. Index C. Jones Date

F. B. 2803 Pg. 30 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Study | Date 10-6-59 | Date 10-8-59 | No.

Survey by Urbanick | Notes Ellen | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed J. C. Johnson | Date | Date 10-6-59 | Date 10-8-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
115+87.17 N					
N-2'					

Inst. Sight Pt OR

#	Color	Time	Hor. Ang.
21			90° 00
22		7:24	" "

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

76298 S & E #307—7-55

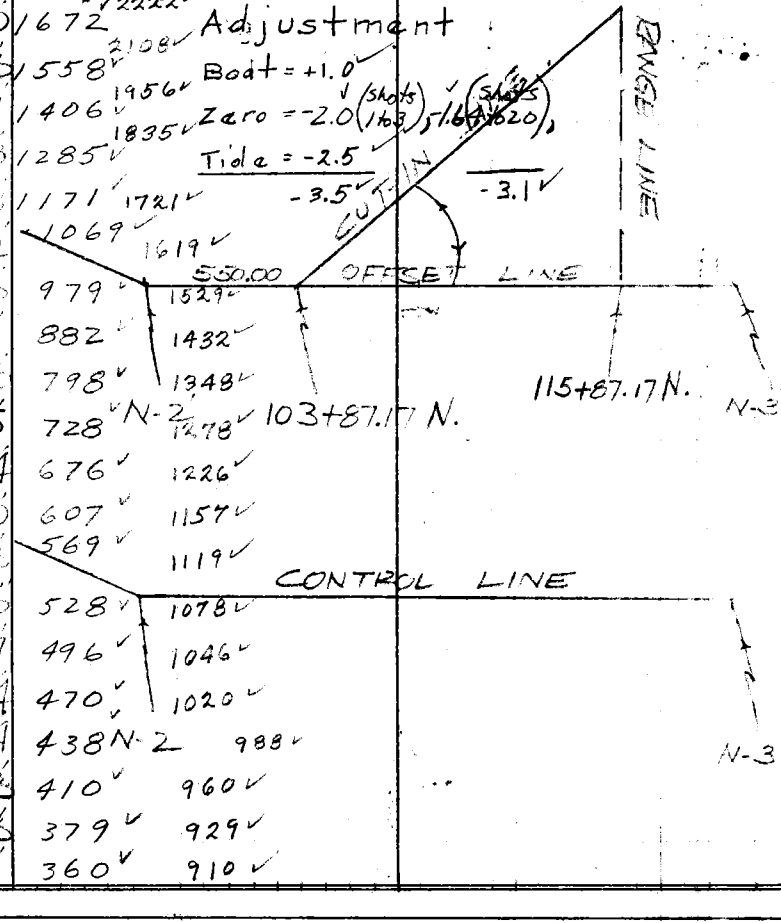
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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. CHH Plotted CHH Job No. [illegible] Division No. 1V
X-Sec. No. ____ Date 10-6-52 Date 12-2-52 Survey of PEACH EROSION STUDIES
Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes [illegible] Date 8-21-53
Date 10-6-52 Date 10-6-52 Map No. ____ Inst. C. Johnson
F. B. 2803 Pg. 21

STATION Inst. At	Sight On	B. S. # Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Add offset	Remarks
103+87.17 N.	N-3	1	31.8 28.3	7 20	54° 20	1672 2222	Adjustment
		2	30.3 26.8		52° 23	1558 2108	Bodt = +1.0
		3	28.3 24.8		49° 31	1406 1956	Zero = -2.0 (shots 1-63) 5.16 (shots 1-620)
		4	27.5 24.4		46° 53	1285 1835	Tide = -2.5
		5	26.4 23.3		44° 18	1171 1721	-3.5 -3.1
		6	25.3 22.2		41° 42	1069 1619	
		7	24.8 21.7		39° 13	979 1529	550.00 OFFSET LINE
		8	24.2 21.1		36° 18	882 1432	
		9	23.3 20.2		33° 36	798 1348	115+87.17 N.
		10	22.5 19.4		31° 15	728 N-2 1278	103+87.17 N.
		11	21.4 18.3		29° 24	676 1226	
		12	19.8 16.7		26° 50	607 1157	
		13	18.5 15.4		25° 22	569 1119	CONTROL LINE
		14	17.1 14.0		23° 46	528 1078	
		15	16.0 12.9		22° 27	496 1046	
		16	14.5 11.4		21° 24	470 1020	
		17	13.4 10.3		20° 04	438 N-2 988	
		18	12.3 9.2		18° 53	410 960	
		19	10.9 7.8		17° 33	379 929	
		20	9.2 6.1		16° 41	360 910	



76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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. 2803 Pg. 32 Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 10-6-59 Date 10-8-59 No. X-Sec.
Survey by LAWRIET Notes STRAIDER Notes Chkd. JSH Checked JSH
Indexed E. C. Johnson Date Date 10-6-59 Date 10-8-59 No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.	Add offset	Remarks
103+87.17 N. / N-3'	21	7.4 / 4.5		15°43'	337 / 887	
	22	6.5 / 3.6	7 23	14°41'	314 / 864	
	23	—		13°36'	—	(VOID LAST SHOT)

Adjustment
Boat = +1.0
Zero = -1.4 (Shots 21 & 22)
Tide = -2.5
-2.9

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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 ~~123+74.68~~ N-3'	Sight on 119+74.68 1/HSHORE 119+74.68 K.
		1847				
T.P.	244	1847	426	1421	DATUM MEAN LOWER LOW WATER	
119+74.68 K.			28	139	550' OFFSET LINE	offset added
			63	124		100 R. 450
			62	125		200 350
			31	156		300 250
			18	169		400 150
			16	169		450 Toe Slope 100
			+62	249		471 Top Slope 79
			+57	244		-10
			46	141	100 L.	560 Toe Slope 650
			53	134	133 L. Top Slope	683
			90	97	172 L. BRK	722
T.P.	1.2	86	113	74	174 L. BRK	724
SW			39	47	50° 25'	215 765
			78	08	55 45	261 811
			90	-04	57 58	284 834
			125	-39	60 38	316 866
			145	-59	62 55	348 898
			158	-72	64 20	370 920

Profile No. ____ Notes Rod. GWH Plotted GWH Job No. 0300.02 Division No. 6
X-Sec. No. ____ Date 10-6-59 Date 10-8-59 Survey of Beach Erosion Station
Notes Chkd. JSH Checked JSH Survey by ____ Notes ____ Date 8-24-59
Date 10-8-59 Date 10-8-59 Map No. ____ Notes Chkd. ____

F.B. 2803 Pg. 33

F.B. 2803 Pg. 34 Job No. 630002 Division No. 10 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

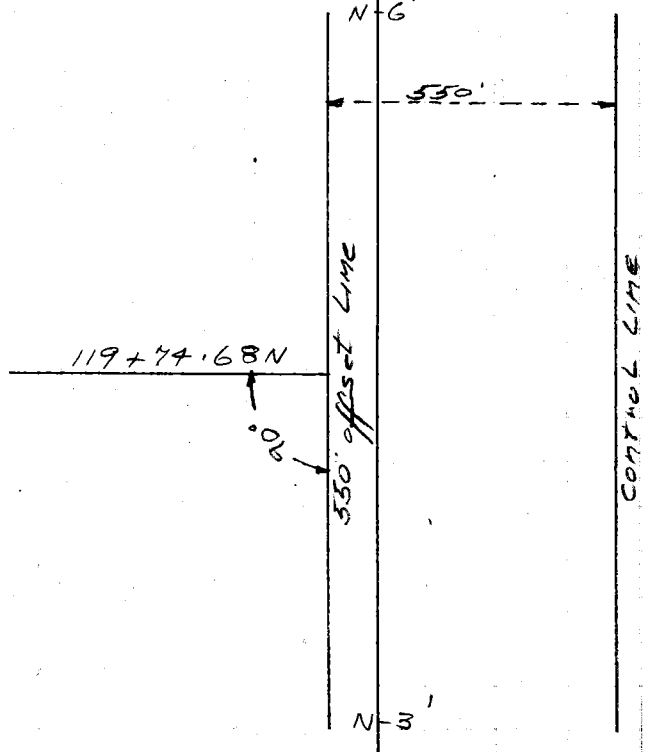
76L298 307 8-53

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
	1		8:50	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
119+74.68 N / N-6'	10			" "	119+74.68N
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



Profile No. ____ Notes Red CWH Plotted CWH Job No. 43002 Division No. 10 F. B. 2203 Pg. 33
Date 10-6-59 Date 10-8-59 Survey of Beach Erosion Study
X-Sec. No. ____ Notes Chkd. JSH Checked JSH Survey by [illegible] Notes Effect Date 8-24-59
Date 10-6-59 Date 10-8-59 Map No. ____ Indexed C. J. [illegible] Date ____

F. B. 2803 Pg. 36 | Job No. 030002 Division No. 10 Notes Red. CWH Plotted CWH Profile

Survey of Beach Erosion Study Date 10-6-59 Date 10-8-59 No.

Survey by Wharnet Notes Ellen Notes Chkd. JSH Checked JSH X-Sec.

Indexed J. C. Johnson Date Date 10-6-59 Date 10-8-59 No.

STATION	B. S.	H. I.	F. S.	ELEV.
119+74.68N	INST AT			
N-6'	SIGHT ON			
	#			
	21			
	22			
			8.53	
			HOR ANGLE	
			90° 00	
			"	
			"	

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.

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.	F. S.	ELEV.				
		#	Depth Rec.	Adj.	Time	Hor. Ang.		Add offset	Remarks
135+74.68 N.	N-3'	1	31.5	27.8	8 50	46° 21'	1,467	2,017	
		2	30.0	26.3		45° 03'	1,403	1,953	
		3	28.9	25.2		43° 41'	1,337	1,887	
		4	27.8	24.1		40° 42'	1,204	1,754	
		5	26.7	23.0		38° 07'	1,099	1,649	
		6	25.8	22.1		35° 53'	1,012	1,562	
		7	25.2	21.5		33° 47'	937	1,487	
		8	24.5	20.8		31° 11'	847	1,397	
		9	23.7	20.0		28° 31'	760	1,310	
		10	23.2	19.5		26° 30'	699	1,249	
		11	22.3	18.6		24° 42'	644	1,194	
		12	20.7	17.0		23° 00'	594	1,144	
		13	18.9	15.2		21° 20'	547	1,097	
		14	17.6	13.9		20° 01'	512	1,062	
		15	16.1	12.4		18° 57'	480	1,030	
		16	15.1	11.4		18° 05'	458	1,008	
		17	13.6	9.9		16° 56'	426	976	
		18	12.1	8.4		16° 04'	403	953	
		19	10.3	6.6		15° 04'	377	927	
		20	8.7	5.0		14° 22'	358	908	

CUT IN LINE

550.00 OFFSET LINE

119+74.68 N.

N-3

~~135+74.68 N.~~ N-6
133+74.68

CONTROL LINE

N-3

N-6

Adjustment
Boat = +1.0
Zero = -1.6
Tide = -3.1
-3.7

Profile Notes Red. CWH Plotted CWH Job No. 2003 Division No. 10
No. Date 12-6-57 Date 10-8-57 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. CWH Checked CWH Survey by HARRIET Notes P.L.S. Date 8-24-57
No. Date 10-6-57 Date 10-8-57 Map No. Index C. J. [illegible]

F. B. 2603 Pg. 37

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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. 2803 Pg. 38 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile No.
Survey of BEACH EROSION STUDIES | Date 10-6-59 | Date 10-8-59 | X-Sec. No.
Survey by CHARLET | Notes STRADER | Notes Chkd. JSH | Checked JSH
Indexed J. C. Johnson | Date | Date 10-6-59 | Date 10-8-59

STATION	B. S.	H. I.	F. S.	ELEV.			
Inst. At / Sight On	#	Rec. / Depth Adj.	Time	Hor. Ang.		Add offset	Remarks
	21	7.1 / 3.4		13 42	342	892	
	22	6.2 / 2.5	8 53	12 27	309	859	Adjustment
							Boat = +1.0
							Zero = -1.6
1354+74.68 N.							Tide = -3.1
N. 3'							-3.7

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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 127+74.68	Sight on 123+74.68
		18 65			DATUM MEAN ~~LOWER~~ LOW WATER	123+74.68 N INSHORE
T.P.	562	20 68	419	14 46		
123+74.68 N.			51	15 0	550' OFFSET LINE	Allowed offset
			60	14 N		100 R. 450
			53	14 8		200 R. 350
			60	14 1		300 R. 250
			30	17 1		400 R. 150
			20	18 1		454 R. Top of Slope 96
			+48	24 9		477 R. Top 73
			+42	24 3		567 R. Top -17
			55	14 6	100 L.	650
			55	13 6	154 L. Top Slope	704
			101	10 0	186 L.	736
	1 8	8 4	135	6 6	193 L.	743
T.P. for Swim party			37	4 7	28° 13'	215 ✓ 765
			62	2 2	32 03	250 ✓ 800
			88	-0 4	36 01	291 ✓ 841
			118	-3 4	38 12	315 ✓ 865
			143	-5 9	41 23	352 ✓ 902
			170	-8 6	43 41	382 ✓ 932

Profile No. Notes Red CWH Plotted CWH Job No. Division No. 16
X-Sec. No. Date 10-6-57 Date 10-6-57 Survey of Beach Erosion
Notes Chkd. JSH Checked JSH Survey by Notes Date
Date 10-6-57 Date 10-8-57 Map No. Index

F.B. 2093 Pg. 39

F.B. 2803 Pg. 40 | Job No. 030012 Division No. 10 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

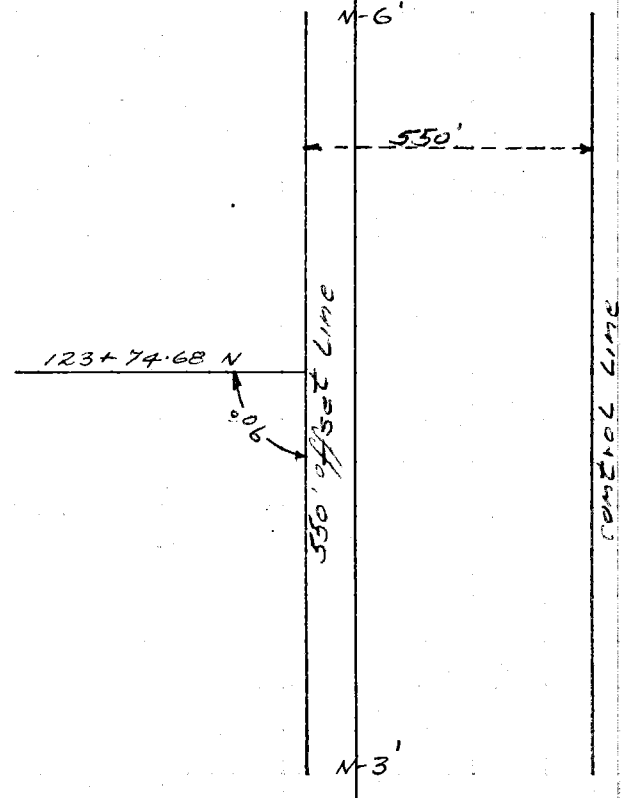
76L298 307 8-53

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
		1		9:00	90° 00'	
		2			" "	
		3			" "	
		4			" "	
		5			" "	
		6			" "	
		7			" "	
		8			" "	
123+74.68 N	N-6'	9			" "	
		10			" "	
		11			" "	
		12			" "	
		13			" "	
		14			" "	
		15			" "	
		16			" "	
		17			" "	
		18			" "	
		19			" "	
		20			" "	



Profile No. ____ Date 10-6-59 Notes Red CWH Plotted CWH Job No. 03002 Division No. 10 F. B. 23003 Pg. 41
X-Sec. No. ____ Date 10-6-59 Notes Chkd JSH Date 10-8-59 Checked JSH Survey of BEACH EROSION STUDY Survey by [illegible] Notes EIRH Date 8-27-59
Map No. ____ Index [illegible] C. Johnson

F.B. 2803 Pg. 42 | Job No. 03600 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Study | Date 10-6-59 | Date 10-8-59 | No.

Survey by Channel | Notes Ellen | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed C. Johnson | Date | Date 10-6-59 | Date 10-8-59 | No.

STATION	B.S.	H.I.	F.S.	ELEV.
INST AT. 123+74.68N				
SIGHT ON N-6'				
	# 21 22		9.03	HORIZ. ANGLE 90° 00' " "

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.

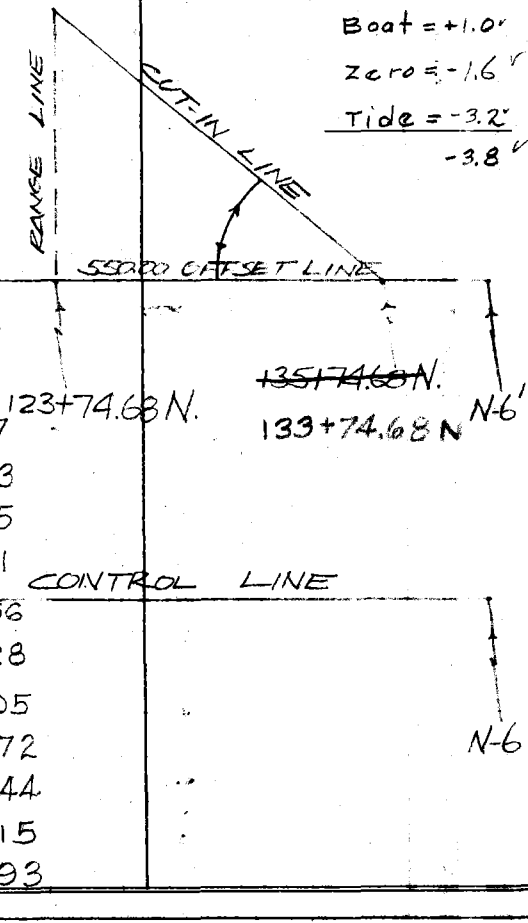
76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Adjd. offset		Remarks
1357+74.68 N.	N-3	1	31.0	27.2	9 00	54° 50	1,419	1,969	
		2	29.3	25.5		52° 30	1,303	1,853	
		3	28.4	24.6		50° 20	1,206	1,756	
		4	27.3	23.5		48° 34	1,133	1,683	
		5	26.5	22.7		46° 17	1,046	1,596	
		6	25.9	22.1		44° 20	977	1,527	
		7	25.2	21.4		42° 00	900	1,450	
		8	24.5	20.7		39° 52	835	1,385	
		9	24.1	20.3		37° 17	761	1,311	
		10	23.2	19.4		34° 06	677	1,227	
		11	22.4	18.6		31° 31	613	1,163	
		12	20.8	17.0		29° 28	565	1,115	
		13	19.3	15.5		27° 59	531	1,081	
		14	18.1	14.3		26° 50	506	1,056	
		15	16.8	13.0		25° 33	478	1,028	
		16	15.7	11.9		24° 27	455	1,005	
		17	14.3	10.5		22° 53	422	972	
		18	12.8	9.0		21° 29	394	944	
		19	10.2	6.4		20° 02	365	915	
		20	8.5	4.7		18° 57	343	893	



Adjustment
Boat = +1.0'
Zero = -1.6'
Tide = -3.2'
-3.8'

Profile
Notes Rod. CWH Plotted CWH Job No. Division No. 10
No. Date 10-6-59 Date 10-8-59 Survey of BEACHLE EROSION STUDIES
X-Sec. Notes Chkd. JSH Checked JSH Survey by MARPET Notes K.L.S. Date
No. Date 10-8-59 Date 10-8-59 Map No. Index No. Notes
F. B. 2803 Pg. 43

F. B. 2803 Pg. 44 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of BEACH EROSION STUDIES | Date 10-6-59 | Date 10-8-59 | No.

Survey by HARRIET STRADER | Notes | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed A. C. Johnson | Date | Date 10-6-59 | Date 10-8-59 | No.

135+74.68 N.

N-3'

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight At On #	Depth Rec. Adj.	Time Hor. Ang.		Add offset	Remarks
					21	6.4 2.6	17° 35	317	867	Adjustment
					22	4.0 0.2	9 03	16° 29	296	846

Boat = +1.0

Zero = -1.6

Tide = -3.2

-3.8

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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.

76298 S & E #307—7-55

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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 131+74.68	Sight on 127+74.68
		20 08			DATUM MEAN LOWER LOW WATER	INSHORE 127+74.68 N
	3 07	19 73	102	16 00		
127+74.68 N.			49	14 8	550' OFFSET LINE	
			74	12 3		100 R. Allowed offset 450
			55	12 2		200 R. 350
			67	13 0		300 R. 250
			20	17 7		400 R. 150
			22	21 4		450 R. Toe Slope 100
			42	23 4		472 R. Top 78
			40	23 7		500 R. Toe -10
			61	13 6	100 L.	650
			77	12 0	135 L. Top Slope	685
			97	10 0	166 L.	716
T.P. for Swim party	17	10 2	112	8 5	179 L.	729
			55	4 7	30° 16'	234 784
			87	1 5	34 03	270 820
			112	-1 0	37 14	304 854
			144	-4 2	40 05	337 887
			164	-6 2	42 46	370 920
			185	-8 3	44 26	392 942

Profile Notes Red. JSH Plotted JSH Job No. 0390.02 Division No. 16
No. Date 10-6-57 Date 10-8-57 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. CWH Checked CWH Survey by Notes Date
No. Date 10-6-57 Date 10-8-57 Map No. Tritten O. Jones
F. B. 28003 Pg. 75

F.B. 2803 Pg. 46 Job No. 030.02 Division No. 10 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

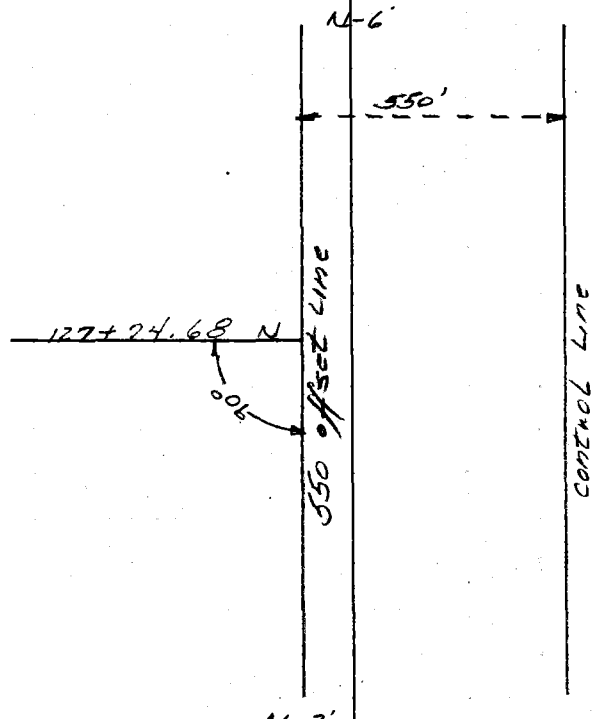
76L298 307 8-53

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
	1		9 11	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



127+74.68 N

N-6'

Profile Notes Red JSH Plotted JSH Job No. 23002 Division No. 10 F. B. 2803 Pg. 41
No. Date 10-6-59 Date 10-8-59 Survey of BEACH EASEMENT STUDY
X-Sec. Notes Chkd. CWH Checked CWH Survey by CHARNICE Notes ELLER Date 8-21-59
No. Date 10-6-59 Date 10-8-59 Map No. Indexed C. Johnson Date

F. B. 2863 Pg. 48 | Job No. 0300.02 Division No. 10 Notes Red. JSH Plotted JSH Profile

Survey of Beach Erosion Study Date 10-6-59 Date 10-8-59 No.

Survey by LWarnet Notes Ellen Notes Chkd. CWH Checked CWH X-Sec.

Indexed ~~L. C. Johnson~~ Date Date 10-6-59 Date 10-8-59 No.

STATION	INST HT	SIGHT ON	B. S.	H. I.	F. S.	ELEV.
127 + 24.68 N						
N-6'						
			# 21			
					Time 9 13	
						HOR. ANG 90 00

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.

76L298 307 8-53

76298 S & E #307—7-55

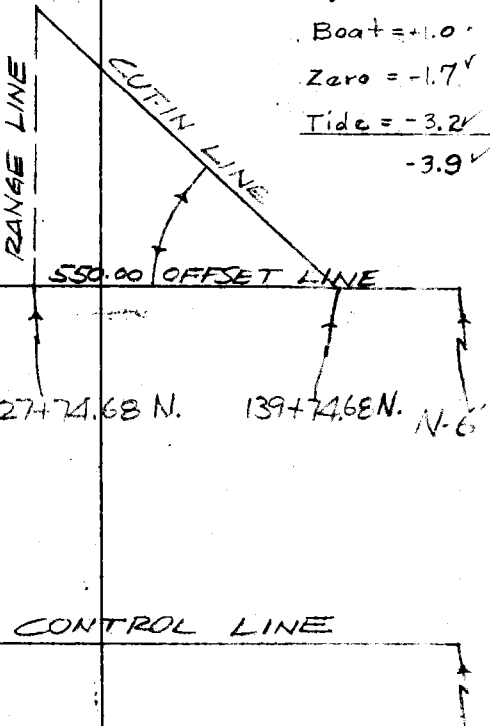
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Add offset	Remarks
139+74.68 N	N-3'	1	30.5	26.6	9 11	51° 30'	1508	2058
		2	29.2	25.3		49° 17'	1394	1944
		3	28.4	24.5		47° 25'	1306	1856
		4	27.6	23.7		45° 12'	1208	1758
		5	27.1	23.2		43° 23'	1134	1684
		6	26.5	22.6		41° 15'	1052	1602
		7	26.0	22.1		39° 00'	972	1522
		8	25.4	21.5		37° 05'	907	1457
		9	25.0	21.1		34° 42'	830	1380
		10	24.5	20.6		32° 32'	766 N-3	1316
		11	23.8	19.9		30° 40'	712	1262
		12	22.8	18.9		28° 42'	658	1208
		13	21.5	17.6		26° 54'	608	1158
		14	20.0	16.1		25° 26'	571	1121
		15	18.1	14.2		23° 16'	516	1066
		16	16.5	12.6		21° 28'	472	1022
		17	15.2	11.3		20° 22'	445	995
		18	13.6	9.7		19° 13'	419 N-3	969
		19	11.3	7.4		17° 50'	386	936
		20	8.9	5.0		16° 29'	355	905

Adjustment
Boat = +1.0
Zero = -1.7
Tide = -3.2
-3.9



Profile No. ____ Notes Red. JSH Plotted JSH Job No. 500-3 Division No. 10 F. B. 2223 Pg. 49
X-Sec. No. ____ Date 10-6-59 Date 10-8-59 Survey of BEACH EROSION STUDIES
Notes Chkd. CWH Checked CWH Survey by WAPRIT Notes R.L.S. Date 8-24-59
Date 10-6-59 Date 10-8-59 Map No. ____ Indexed C. Jeb[illegible]

F. B. 2803 Pg. 50 | Job No. 0300.02 | Division No. 10 | Notes Red. JSH | Plotted JSH | Profile

Survey of BEACH EROSION STUDIES | Date 10-6-59 | Date 10-8-59 | No.

Survey by HARRIET STRADER | Notes | Notes Chkd. CWH | Checked CWH | X-Sec.

Indexed A. C. Johnson | Date | Date 10-6-59 | Date 10-8-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
137+74.68 N					
N-3'					
Inst. At	Sight On	#	Depth Rec.	Adj.	Time Hor. Ang.
		21	6.7	2.8	9 13 15.08
					324 ✓ Add offset
					874 ✓

Adjustment
Boat = +1.0 ✓
Zero = -1.7 ✓
Tide = -3.2 ✓
-3.9 ✓

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76298 S & E #307—7-55

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.	1st. at 135+74.68	Sight on 131+74.68
		19 73			DATUM MEAN LOWER LOW WATER	INSHORE
T.P.	5 21	19 67	5 27	14 46		131+74.68 H.
131+74.68 H.			51	14 6	550' OFFSET LINE	
			74	12 3		100 R. offset allowed 450
			83	10 9		200 R. 350
			77	12 0		300 R. 250
			19	17 8		410 R 150
			+23	22 6		94
			+51	24 9		456° R Toe 69
			+43	24 6		481° R Top -10
			56	14 1	100° L.	560 R Toe 650
			73	12 4	183 L. Top slope	733
			105	9 2	192 L.	742
Tp For Swim party	2 5	10 5	117	8 0	211 L.	761
			5 8	4 7	32° 00'	250 800
			10 0	0 5	35 23	284 834
			11 5	-1 0	38 34	319 869
			13 0	-2 5	40 51	346 896
			15 5	-5 0	43 24	378 928
			18 5	-8 0	45 41	410 960

Profile No. X-Sec. No.
Notes Red. JSH Plotted JSH Job No. 30202 Division No. 12
Date 10-6-57 Date 10-8-57 Survey of Beach Erosion Studies
Notes Chkd. CWH Checked CWH Survey by Notes Date 9-24-57
Date 10-6-57 Date 10-8-57 Map No. Interval C. Johnson
F.B. 28903 Pg. 51

F.B. 2803 PG. 52

Job No. 0300.01 Division No. 10 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

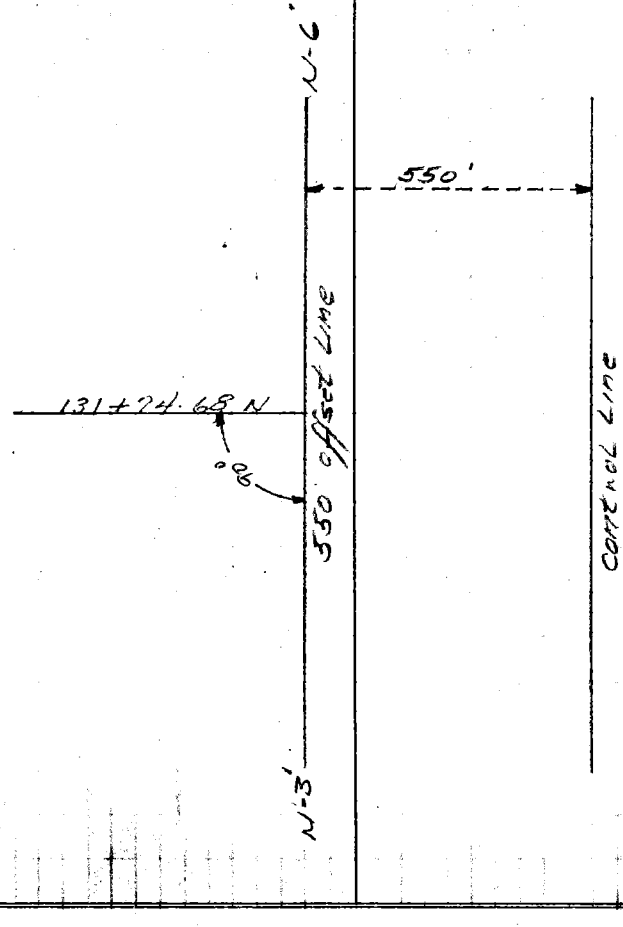
76L298 307 8-53

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
	1		9 30	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



Profile
Notes Red. JSH Plotted JSH Job No. 03662 Division No. 10 F. B. 2863 Pg. 53
No. Date 10-6-59 Date 10-8-59 Survey of BEACH EROSION STUDY
X-Sec. Notes Chkd. CWH Checked CWH Survey by [illegible] Notes [illegible] Date [illegible]
No. Date 10-6-59 Date 10-8-59 Map No. Index C. Johnson

F.B. 2803 PG. 54 | Job No. 03002 | Division No. 10 | Notes Red. JSH | Plotted JSH | Profile

Survey of Beach Erosion Study | Date 10-6-59 | Date 10-8-59 | No.

Survey by VHarrict | Notes Ellen | Notes Chkd. CWH | Checked CWH | X-Sec.

Indexed E. C. Johnson | Date | Date 10-6-59 | Date 10-8-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.
INST AT	SIGHT ON			
131 + 24.68 N				
N-6'				
	#		Time	HOR. ANG
	21			90° 00'
	22			" "
	23		9 33	" "

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.

76L298 307 8-53

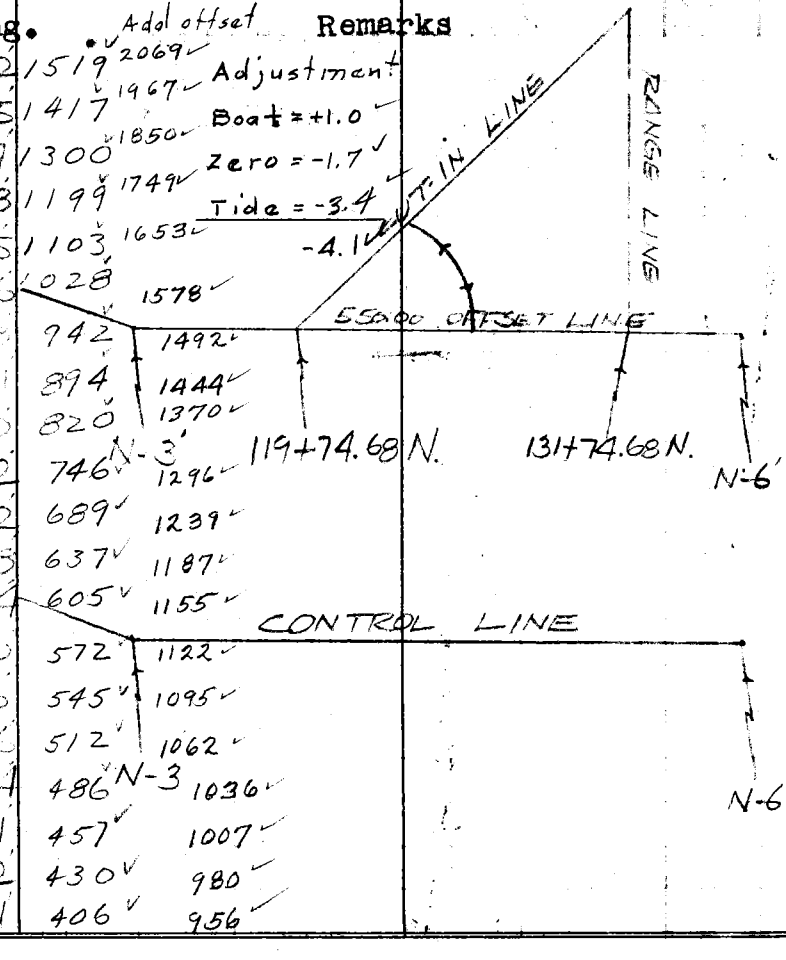
76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		Add offset	Remarks
119+74.68 N	N-6'	1	30.3	26.2	930	51° 42'	1519	2069	Adjustment
		2	29.4	25.3		49° 45'	1417	1967	Boat = +1.0
		3	28.3	24.2		47° 17'	1300	1850	Zero = -1.7
		4	27.5	23.4		44° 58'	1199	1749	Tide = -3.4
		5	26.9	22.8		42° 35'	1103	1653	-4.1
		6	26.3	22.2		40° 36'	1028	1578	
		7	25.7	21.6		38° 09'	942	1492	
		8	25.4	21.3		36° 41'	894	1444	
		9	25.0	20.9		34° 26'	820	1370	
		10	24.3	20.2		31° 52'	746	1296	
		11	23.4	19.3		29° 52'	689	1239	
		12	22.3	18.2		27° 58'	637	1187	
		13	21.3	17.2		26° 44'	605	1155	
		14	20.3	16.2		25° 30'	572	1122	
		15	18.9	14.8		24° 26'	545	1095	
		16	17.7	13.6		23° 06'	512	1062	
		17	16.5	12.4		22° 04'	486	1036	
		18	15.0	10.9		20° 51'	457	1007	
		19	13.2	9.1		19° 42'	430	980	
		20	11.1	7.0		18° 41'	406	956	



Profile
Notes Red 10-6-55 Plotted JSH Job No. Division No.
No. Date 10-6-55 Date 10-8-55 Survey of PRELIMINARY STUDIES
X-Sec. Notes Chkd. CWH Checked CWH Survey by Notes F.B. Date
No. Date 10-6-55 Date 10-6-55 Map No. Index L. C. Johnson
F. B. 803 Pg. 55

F. B. 2803 Pg. 56 | Job No. 230002 | Division No. 10 | Notes Red. JSH | Plotted JSH | Profile

Survey of BEACH EROSION STUDIES | Date 10-6-59 | Date 10-8-59 | No.

Survey by HARRIET STRADER | Notes | Notes Chkd. CWH | Checked CWH | X-Sec.

Indexed E. O. Johnson | Date | Date 10-6-59 | Date 10-8-59 | No.

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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					
119+74.68 N					
N-6'					
#	Depth Rec. Adj.	Time	Hor. Ang.		
21	8.7 4.6		17° 10'	371 921	Add offset
22	7.2 3.1		15° 50'	342 892	
23	5.8 1.7		15° 12'	326 876	

Adjustment
Boat = +1.0
Zero = -1.7
Tide = -3.4
-4.1

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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 139+74.68	Sight on 135+74.68
		19 67			DATUM MEAN LOWER LOW WATER	135+74.68 N. ASHORE
T.P.	439	18 89	517	1450		
135+74.68 N.			50	139	550' OFFSET LINE	
			69	120		100 R 450 (Offset allowed)
			69	120		200 R 350
			81	108		300 R 250
			45	144		400 R 150
			10	179		451 R. Toe Slope 99
			463	252		460 R. Top 90 -11
			463	252		561 R Toe
			55	134	100 L.	650
			80	109	210 L. Top Slope	710
T.P.	20	9 9	110	79	234 L.	784
			52	47	34° 05'	271 821
			97	02	37 33	308 858
			128	-29	42 22	365 915
			143	-44	44 38	395 945
			180	-81	47 00	429 979

Profile No. ____ Notes Red JSH Plotted JSH
X-Sec. ____ Date 10-6-59 Date 10-8-59 Job No. 2500-24
Notes Chkd. CWH Checked CWH Survey of Division No. 6
Date 10-6-59 Date 10-8-59 Survey by ____ Date ____
Map No. ____ Index ____ Notes ____ Date ____
Job Date ____

F.B. 2000 Pg. 57

F. B. 2803 Pg. 58 Job No. 090002 Division No. 10 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L-296 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

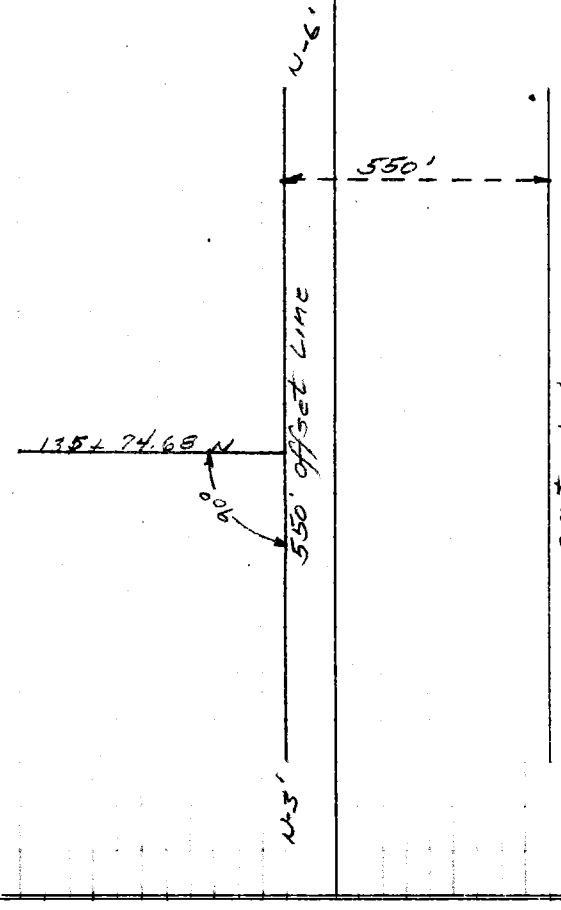
76L298 307 8-53

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
	1		9 43	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
135+74.68 N	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
N-6'	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



Profile No. ____ Notes Red. JSH Plotted JSH Job No. 23006 Division No. 10 F. B. 2803 Pg. 59
Date 10-6-58 Date 10-8-58 Survey of BEACH EROSION STUDY
X-Sec. No. ____ Notes Chkd. CMH Checked CMH Survey by [illegible] Notes [illegible] Date [illegible]
Date 10-8-58 Date 10-8-58 Map No. ____ Index C. Jeppson Date

F. B. 2803 Pg. 60 | Job No. 03000 | Division No. 10 | Notes Red. JSH | Plotted JSH | Profile

Survey of Beach Erosion Study | Date 10-6-59 | Date 10-8-59 | No.

Survey by UHewitt | Notes Ellen | Notes Chkd. CWH | Checked CWH | X-Sec.

Indexed L. C. Johnson | Date | Date 10-6-59 | Date 10-8-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.
135 + 74.68 N	INST SIGHT ON FT			
N-6'	21		Time	HOR. ANG
	22		9 45	90° 00
				" "

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

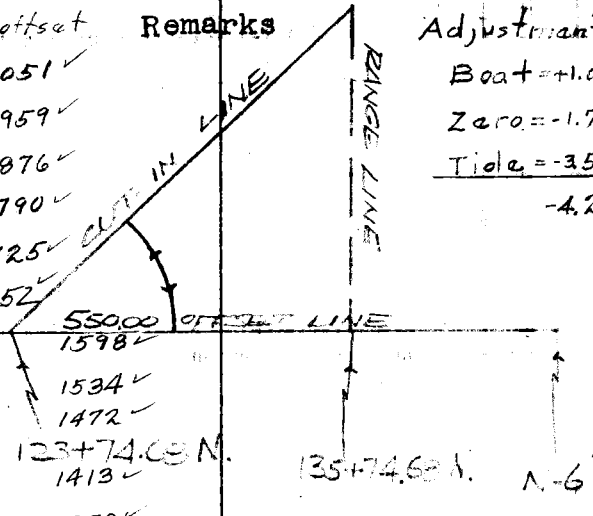
76298 S & E #307—7-55

PLEASE RETURN TO—
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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	#	Depth Rec. / Adj.	Time	Hor. Ang.	Add offset	Remarks	
123+74.68 N / N-6'	1	30.5 / 26.3	943	51° 22'	1501 / 2051		Adjustment
	2	29.8 / 25.6		49° 35'	1409 / 1959		Boat = +1.0
	3	29.0 / 24.8		47° 51'	1326 / 1876		Zero = -1.7
	4	28.2 / 24.0		45° 55'	1240 / 1790		Tide = -3.5
	5	27.5 / 23.3		44° 22'	1175 / 1725		-4.2
	6	27.2 / 23.0		42° 34'	1102 / 1652		
	7	26.8 / 22.6		41° 05'	1048 / 1598		
	8	26.3 / 22.1		39° 22'	984 / 1534		
	9	26.0 / 21.8		37° 31'	922 / 1472		
	10	25.5 / 21.3		35° 41'	863 (N-3) / 1413		
	11	25.0 / 20.8		33° 41'	800 / 1350		
	12	24.2 / 20.0		31° 34'	737 / 1287		
	13	23.1 / 18.9		29° 32'	680 / 1230		
	14	22.0 / 17.8		27° 40'	629 / 1179		
	15	20.9 / 16.7		26° 10'	589 / 1139		
	16	19.9 / 15.7		24° 52'	556 / 1106		
	17	18.2 / 14.0		23° 45'	528 (N-3) / 1078		
	18	16.3 / 12.1		22° 31'	498 / 1048		
	19	14.2 / 10.0		21° 19'	468 / 1018		
	20	12.0 / 7.8		19° 50'	433 / 983		



Profile
Notes Red. JSH Plotted JSH Job No. 2000 Division No. 10
No. Date 10-6-59 Date 10-8-59 Survey of BELCHER DIVERSION STUDIES
X-Sec. Notes Chkd. CWH Checked CWH Survey by MARRIETT Notes R.L.S. Date 8-14-59
No. Date 10-6-59 Date 10-8-59 Map No. Index C. Job Data
F. B. 2503 Pg. 21

F. B. 2803 Pg. 62 | Job No. 0300.02 | Division No. 10 | Notes Red. JSH | Plotted JSH | Profile

Survey of BEACH EROSION STUDIES | Date 10-6-59 | Date 10-8-59 | No.

Survey by HARRIET STRADER | Notes | Notes Chkd. CWH | Checked CWH | X-Sec.

Indexed K. C. Johnson | Date | Date 10-6-59 | Date 10-8-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
123+74.68 N					
N-6'					
Inst. Sight At On					
#	Depth Rec. Adj.		Time Hor. Ang.		
21	10.2 6.0		19° 00	413	Add offset
22	8.5 4.3		9 45	18° 35	403 963
					953
					Adjustment
					Boat = +1.0
					Zero = -1.7
					Tide = -3.5
					-4.2

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.		
		18 84			Inst. at 143+74.68	
					DATUM MEAN LOWER LOW WATER	INSHORE 139+74.68 N.
	3 93	18 09	4 73	14 16		
139+74.68 N.			5 1	13 0	556' OFFSET LINE	
			5 4	12 7		100 R 450 (Allowed offset)
			5 5	12 6		200 R 350
			3 1	15 0		300 R 250
			2 0	[illegible]		400 R 150
			0 0	18 1		446 R Toe 104 Slope 62
			+ 6 9	25 0		488 R Top -10"
			+ 6 7	2 4 8	Add'l offset	560 R Toe "
			4 9	13 2	100 L 650	
			5 1	13 0	200 L Top of Creek 750	
TP.	2 8	10 6	10 3	7 5	274 L 824	Sight on 139+44
			5 9	4 7	Sight on 139+54 35°04' 295 843	F.S. el. ° '
			9 2	1 4	39 02 341 891	5.9 4.7 33 51 (1)
			13 5	-2 9	44 00 406 956	12.5 -1.9 40 15 (2)
			17 5	-6 9	47 27 458 1008	15.2 -4.6 43 08 (3)
						14.8 -4.2 44 54 (4)
						15.8 -5.2 47 04 (5)
						15.8 -5.2 48 17 (6)
						18.0 -7.4 50 10 (7)

DISTANCES ON BACK SIDE OF PAGE

Profile Notes Red. JSH Plotted JSH Job No. Division No.
No. Date 10-4-57 Date 10-8-57 Survey of Level
X-Sec. Notes Chkd. CWH Checked CWH Survey by Notes Date
No. Date 10-8-57 Date 10-8-57 Map No. Indexed Date

F.B. 2803 Page 63

F.B. 2803 Pg. 64

Job No. 0300102 Division No. 10 Notes Red JSH Plotted JSH Profile

Survey of BEACH EROSION STUDIES Date 10-6-59 Date 10-8-59 No.

Survey by LIND Notes LIND Notes Chkd. CWH Checked CWH X-Sec.

Indexed Date Date 10-6-59 Date 10-8-59 No.

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.
				1 255 ✓ Add offset 805 ✓
				2 329 ✓ 879 ✓
				3 357 ✓ 907 ✓
				4 380 ✓ 930 ✓
				5 409 ✓ 959 ✓
				6 427 ✓ 977 ✓
				7 456 ✓ 1006 ✓

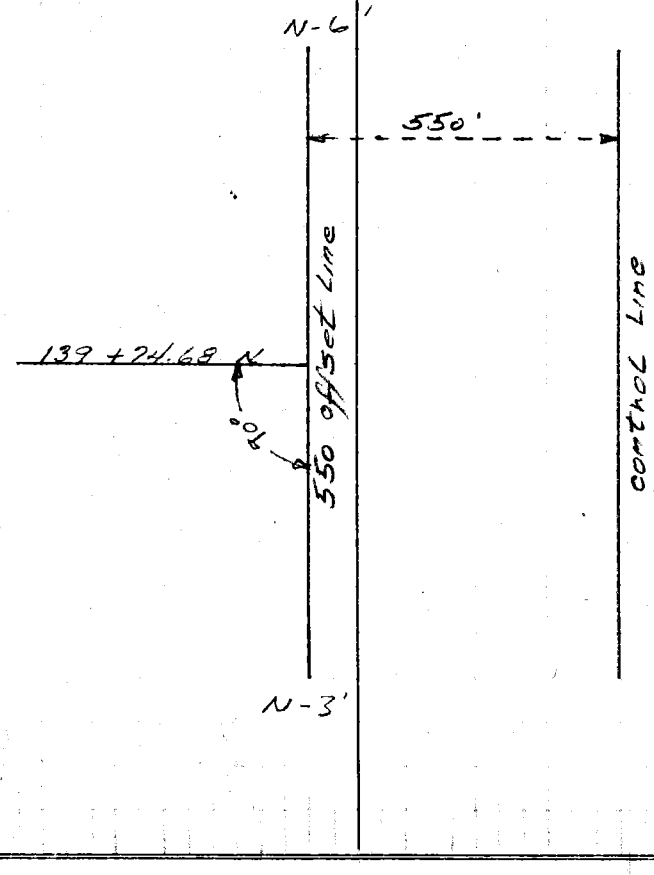
76L298 307 8-53

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 CH	#	Color	Time	Hor. Ang.	Remarks
	1		9 54	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20		9 57	" "	



139 + 24.68 N

N-6'

Profile No. ____ Notes Red. JSH Plotted JSH Job No. 63000 Division No. 10 F. B. 2803 Pg. 65

X-Sec. No. ____ Date 10-6-59 Date 10-8-59 Survey of Beech Erosion Study

Notes Chkd. CWH Checked CWH Survey by ____ Notes Elev. Date 10-21-59

Date 10-6-59 Date 10-8-59 Map No. ____ Index R. C. Johnson

F. B. 2803 Pg. 66 | Job No. 0300-22 Division No. 10 | Notes Red. JSH | Plotted JSH | Profile

Survey of BEACH EROSION STUDY | Date 10-6-59 | Date 10-8-59 | No.

Survey by UHarriet | Notes Ellen | Notes Chkd. CWH | Checked CWH | X-Sec.

Indexed K. C. Johnson | Date | Date 10-6-59 | Date 10-8-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.
INST AT 139 + 74.68 N				
SIGHT ON N-6'				
	#			
	21			
	22			
	23			
	24			
				HOR ANG 90° 00'

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.

76L298 307 8-53

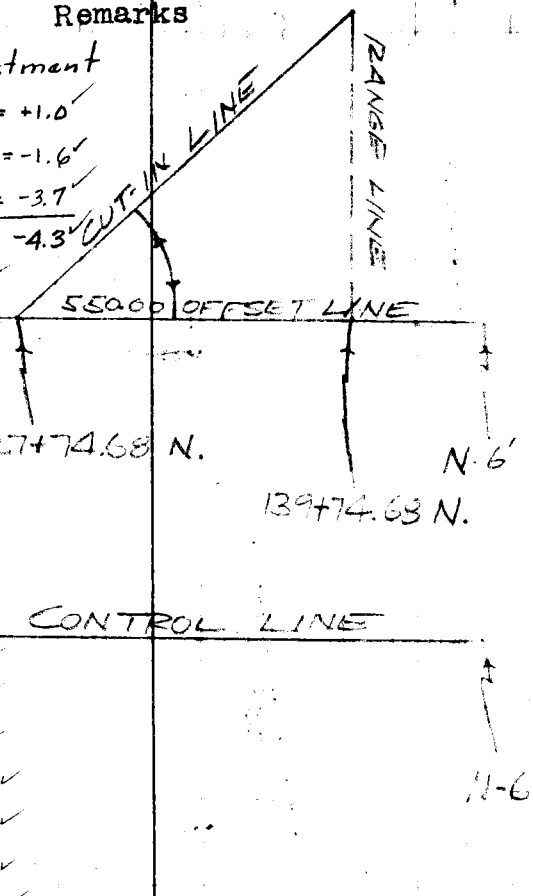
76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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	# Rec	B. B.	H. I.	Depth Adj.	F. S.	Time	ELEV.	Hor. Ang.	Add'l offset	Remarks
127+74.68 N	N-6'	1	32.2	27.9		9 54		53 30	1627	2177	Adjustment
		2	31.1	26.8				51° 40	1518	2068	Boot = +1.0
		3	30.4	26.1				49° 50	1422	1972	Zero = -1.6
		4	29.7	25.4				48° 04	1340	1890	Tide = -3.7
		5	29.0	24.7				45 58	1241	1791	-4.3
		6	28.2	23.9				44° 08	1164	1714	
		7	27.5	23.2				41° 50	1074	1624	
		8	26.7	22.4				39° 22	985	1535	
		9	26.0	21.7				36° 55	901	1451	N-3
		10	25.3	21.0				34° 15	818	1368	
		11	24.7	20.4				32 08	754	1304	
		12	23.5	19.2				30 20	702	1252	
		13	22.1	17.8				29° 38	683	1233	
		14	20.4	16.1				27° 03	613	1163	
		15	18.6	14.3				25° 19	568	1118	
		16	16.8	12.5				24° 16	541	1091	
		17	15.1	10.8				23° 18	517	1067	N-3
		18	13.3	9.0				22° 04	486	1036	
		19	11.4	7.1				21° 04	462	1012	
		20	9.5	5.2		9 57		19° 49	432	982	



Profile
Notes Red. Plotted Job No. Division No.
No. Date Date Survey of
X-Sec. Notes Chkd. Checked Survey by Notes Date
No. Date Date Map No. Index
F. B. 03 Pg. 67

F. B. 2903 Pg. 68 | Job No. 23002 Division No. 10 Notes Red. _____ Plotted _____ Profile

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

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

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

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	# Depth Rec. Adj.		Time	Hor. Ang.	
127+74.68 N					
N-6'					

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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.

76298 S & E #307—7-55

Notes Ck'd by	Survey of
Map No.	JN Tape Std °F
Office Work JSH	Surveyed by
Checked CWH	Notes Date
Date 9-3-59	Indexed

F. B. PG.

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

Do not extend notes this side of this line.

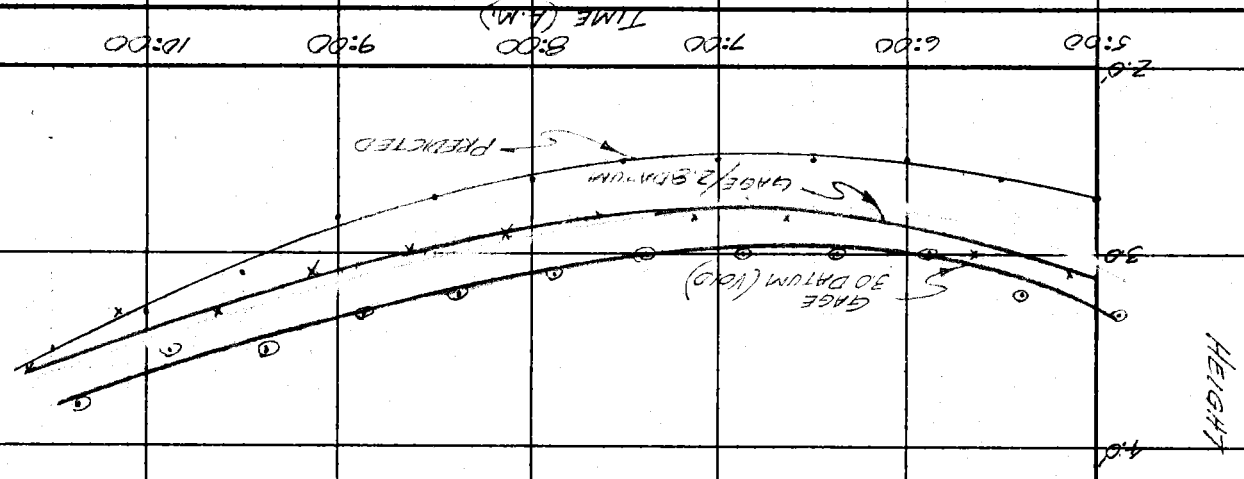
RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

763095 CE #247—7-53

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.



TIDES 8-25-59

F.B. 2803 PG. 69A

Notes Ck'd by JSH	Survey of Beach Erosion Study
Map No.	~~IN030003~~ Tape: Std.
Office Work	Surveyed by VHamlet
Checked	Notes Ellis Date 8-26-59
Date 9-3-59	Indexed L. O. Johnson 8-28-59

F. B. 2803 PG. 69

8-25-59

~~3.0~~ 2.8 on Datum Line of Tide Gauge

Gauge Time (P.S.T) – 11:56

Watch Time (P.S.T) – 11:48

Standard time	Gauge Reading	
5:00	~~+3.3~~	+3.1
5:30	~~+3.2~~	+3.0
6:00	~~+3.0~~	+2.8
6:30	~~+3.0~~	+2.8
7:00	~~+3.0~~	+2.8
7:30	~~+3.0~~	+2.8
8:00	~~+3.1~~	+2.9
8:30	~~+3.2~~	+3.0
9:00	~~+3.3~~	+3.1
9:30	~~+3.5~~	+3.3
10:00	~~+3.5~~	+3.3
10:30	~~+3.8~~	+3.6
11:00	~~+4.1~~	+3.9
11:30	~~+4.2~~	+4.0

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

763098 CE #247—7-53

F. B. 2803 PG. 70

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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 139+74.68	Sight on 143+74.68
		18 09			DATUM MEAN LOWER LOW WATER	/USHORE
T.P.	472	17 87	494	13 15		143+74.68 N.
143+74.68			51	12 8	550' OFFSET LINE	
			48	13 1		100 R. 450 (offset allowed)
			58	12 1		200 R. 350
			50	12 9		300 R. 250
			26	15 5		400 R. 150
			+25	20 4		490 R Toe 60
			+62	24 1		520 R Top 30
			+74	23 3		560 R Toe -10
			36	14 3	100 L.	650
			35	14 4	131 L. Top Slope	681
			53	12 6	140 L.	690
TP for Subsequent	1 4	10 9	84	9 5	172 L.	722
			62	4 7	26° 35'	200 750
			110	-0 1	31 30	245 795
			141	-3 2	35 05	281 831
			153	-4 4	37 04	302 852
			160	-5 1	39 27	329 879
			185	-7 6	41 31	354 904

Profile No. X-Sec. No. Notes Red JSH Plotted JSH Job No. Division No.
Date 10-6-59 Date 10-8-59 Survey of BEACH EROSION STUDIES
Notes Chkd. CWH Checked CWH Survey by Notes Date
Date 10-6-59 Date 10-8-59 Map No. Notes

F.B. 2803 Pg. 71

F.B. 2803 Pg. 72 | Job No. 0300-02 Division No. 10 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

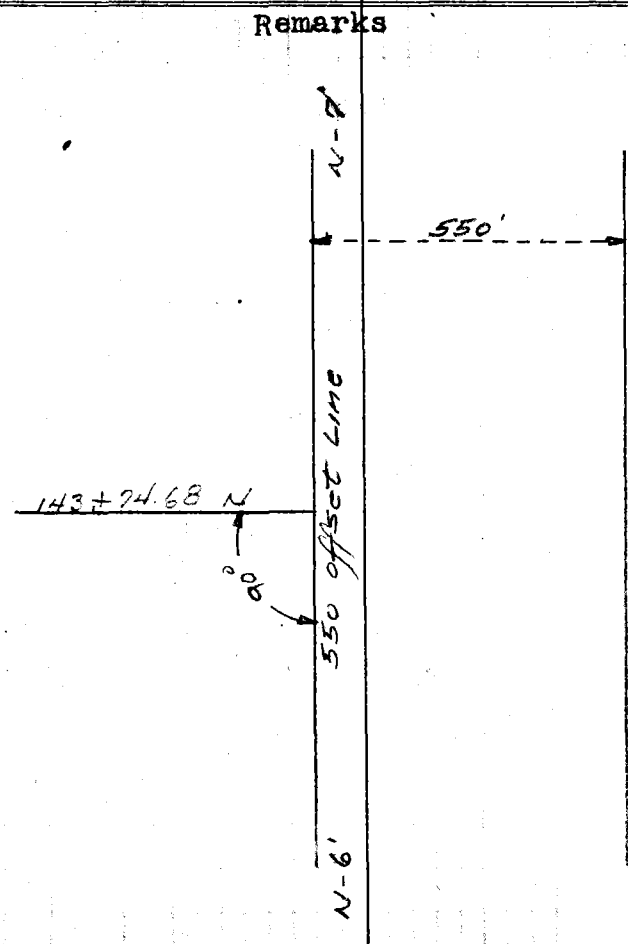
76L298 307 8-53

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
	1		6 15	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	143 ± 24.68 N
	11			" "	
	12			" "	
	13			" "	
	14			" "	
N-6	15			" "	
	16			" "	
	17			" "	
	18		6 18	" "	



Profile Notes Red JSH Plotted JSH Job No. 03-2-2 Division No. 10 F. B. 2803 Pg. 73
No. Date 10-6-57 Date 10-8-57 Survey of BEACH Erosion Study
X-Sec. Notes Chkd. CWW Checked CWW Survey by WHBW Notes Ellen Date 5-23-57
No. Date 10-6-57 Date 10-8-57 Map No. Indexed O. Jensen

F. B. 2803 Pg. 74 | Job No. 030002 Division No. 10 | Notes Red. JSH | Plotted JSH | Profile

Survey of Beach Erosion Study | Date 10-6-59 | Date 10-8-59 | No.

Survey by Uhallet | Notes Eller | Notes Chkd. CWH | Checked CWH | X-Sec.

Indexed L. C. Johnson | Date | Date 10-6-59 | Date 10-8-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.
INST AT				
SIGHT ON	#			HOR RUG
	21			
	22			
	23			
	24			

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

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

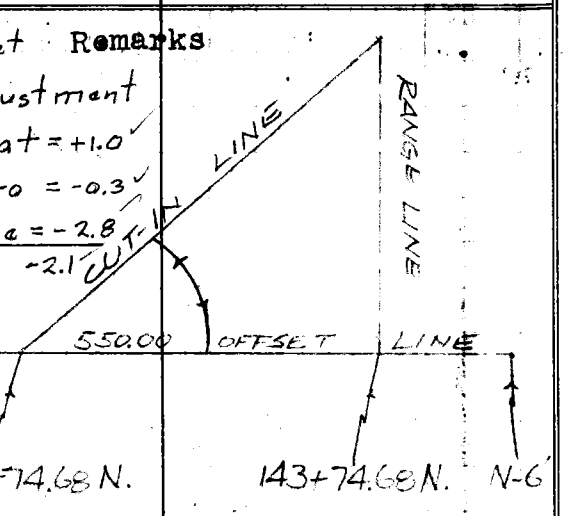
Do not extend notes this side of this line.

Profile No. ____ X-Sec. No. ____

Notes Red. [illegible] Plotted [illegible] Job No. [illegible] Division No. 10
Date 10-6-57 Date 10-8-57 Survey of BEACH EROSION STUDIES
Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Date [illegible]
Date 10-6-57 Date 10-8-57 Map No. ____ Indexed ____ Date ____

F. B. 2803 Pg. 75

STATION Inst. At	Sight On	#	B. S. Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Add offset	Remarks
		1	28.5	26.4	615	62° 08	1513 2063	Adjustment
		2	27.0	24.9		58° 34	1309 1859	Boat = +1.0
		3	26.3	24.2		56° 34	1212 1762	Zero = -0.3
		4	25.5	23.4		54° 42	1130 1680	Tide = -2.8
		5	25.1	23.0		52° 34	1045 1595	-2.1
		6	24.1	22.0		49° 20	931 1481	
		7	23.1	21.0		47° 00	858 1408	
		8	22.0	19.9		44° 43	792 1342	
		9	21.0	18.9		42° 27	732 1282	
135+74.68 N.	N-6	10	19.9	17.8		39° 58	(N-3) 135+74.68 N.	
		11	18.2	16.1		37° 22	670 1220	
		12	16.9	14.8		35° 42	611 1161	
		13	15.0	12.9		32° 29	575 1125	
		14	13.9	11.8		30° 55	510 1060	
		15	12.8	10.7		28° 09	479 1029	
		16	11.9	8.9		25° 41	428 978	
		17	8.9	6.8		23° 15	385 344 935	
		18	7.1	5.0	618	21° 50	(N-3) 321 894 871	



F. B. 2803 Pg. 76 | Job No. 230005 | Division No. 10 | Notes Red. | Plotted | Profile

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

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

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

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
135+74.68 N.					
N-6'					

Inst. Sight At On # Rec. Depth Adj. Time Hor. Ang.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76298 S & E #307—7-55

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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. JSH Plotted JSH Job No. ____ Division No. ____
X-Sec. ____ Date 10-6-57 Date 10-8-57 Survey of BEACH
Notes Chkd. CWH Checked CWH Survey by ____ Notes ____
Date 10-8-57 Date 10-8-57 Map No. ____ Index ____ Date ____

F.B. 2803 Pg. 77

STATION	B.S.	H.I.	F.S.	ELEV.	Inst. at 143+74.68	Sight on 147+74.68
		17 8			DATUM MEAN LOWER LOW WATER	INSHORE
TP	4.11	18 15	3.83	14 04		147+74.68 N.
147+74.68N			48	13 4	550' OFFSET LINE	
			62	12 0		100 — 450 (offset allowed)
			63	11 9		200 — 350
			41	14 1		300 — 250
			13	16 9		400 — 150
			+13	19 5		465 — 85
			+13	19 5		+0
						550 N TOE SLOPE
			43	13 9	100 L.	650
			39	14 3	142 L. Top Slope	692
			51	13 1	148 L.	698
T.P. FOR SWIM PARTY	1.7	11 7	82	10 0	175 L.	725
			70	4 7	27° 30'	208 — 758
			107	1 0	31 10	242 — 792
			147	-3 0	36 05	292 — 842
			162	-4 5	39 50	334 — 884
			168	-5 1	40 49	346 — 896

F.B. 2803 Pg. 78

Job No. 0300-02 Division No. 10 Notes Red JSH Plotted JSH Profile

Survey of BEACH EROSION STUDIES Date 10-6-59 Date 10-8-59 No.

Survey by LIND Notes LIND Notes Chkd. CWH Checked CWH X-Sec.

Indexed [redacted] C. Johnson Date Date 10-6-59 Date 10-8-59 No.

STATION	B.S.	H.I.	F.S.	ELEV.	
N-S	865	18.15			CONT. FROM TOPOG. MAP WITH AGE
		21.14	5.17	12.98	
			2.17	19.04	N-S FC=15225
					PER BR. 0100-172

761-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

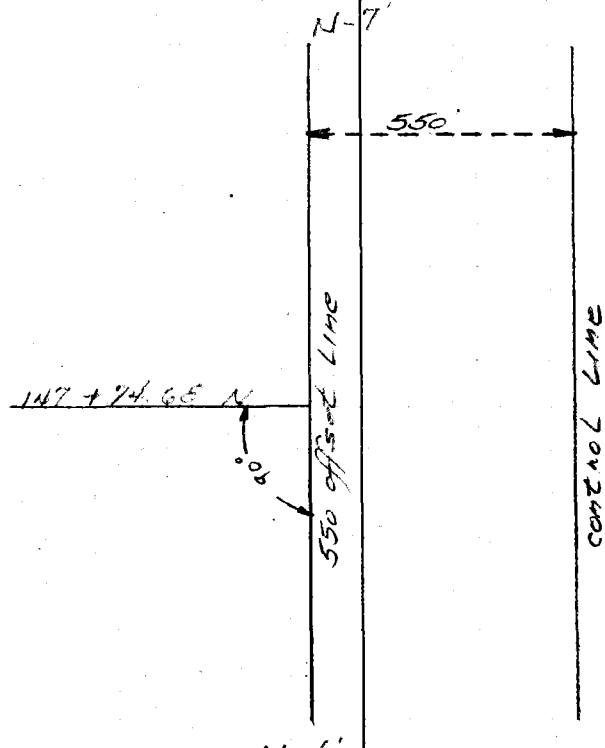
76L298 307 8-53

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.	
	1		6 29	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10				
	11				
	12				
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



Profile Notes Red JSH Plotted JSH Job No. 6200 Division No. 10 F. B. 2803 Pg. 79
No. Date 10-6-59 Date 10-8-59 Survey of Beach Erosion Study 8-25-59
X-Sec. Notes Chkd. Checked Survey by Notes Date
No. Date 10-6-59 Date 10-8-59 Map No. Index C. Johnson Date

F. B. 2803 Pg. 80 | Job No. 030002 | Division No. 10 | Notes Red. JSH | Plotted JSH | Profile

Survey of BEACH EROSION STUDY | Date 10-6-59 | Date 10-8-59 | No.

Survey by UHARRIET | Notes Elk | Notes Chkd. CWH | Checked CWH | X-Sec.

Indexed [redacted] O. Johnson | Date | Date 10-6-59 | Date 10-8-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.
INST RT				
SIGHT ON				
	* 21		6.32	HOR ANG 90° 00'

761.298 307 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.

76298 S & E #307—7-55

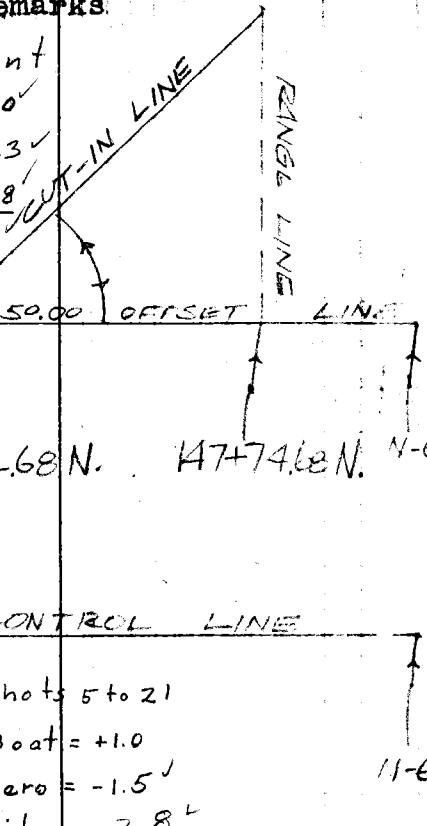
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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. GH Date 10-6-58 Plotted GH Date 10-8-58 Job No. 3300 Division No. 16 Survey of REACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. WH Date 10-6-58 Checked WH Date 10-8-58 Survey by HYDRO Notes Date
Map No. ____ Index C. Johnson
F. B. 2803 Pg. 31

STATION Inst. At	Sight On	#	B. S. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Add offset shots 1-4	Remarks
135+74.68 N.	N-6		30.0	26.9	6-28	52°51	1584	Adjustment
			29.1	26.0		51°15	1495 2045	Boat = +1.0
			28.5	25.4		[illegible]	1436 1986	Zero = -1.3
			26.4	23.3		[illegible]	1102 1652	Tide = -2.8
			25.7	22.4		[illegible]	977 1527	-3.1
			25.1	21.8		[illegible]	875 1425	
			24.6	21.3		34°06	812 1362	
			24.0	20.7		32°10	755 1305	
			23.2	19.9		30°11	698 1248	
			21.6	18.3		29°54	662 N-3 1212	135+74.68 N. 147+74.68 N. N-6
			20.3	17.0		27°32	628 1178	
			18.8	15.5		[illegible]	589 1139	
			17.8	14.5		24°53	557 1107	
			16.3	13.0		23°16	516 1066	
			15.4	12.1		22°00	485 1035	Shots 5 to 21
			14.4	11.1		20°46	452 1002	Boat = +1.0
			13.0	9.7		19°12	418 N-3 968	Zero = -1.5 11-6
			11.9	8.6		18°00	390 940	Tide = -2.8
			10.5	7.2		16°20	352 902	= -3.3
			8.1	4.8		15°32	334 884	



F. B. 2803 Pg. 82 | Job No. 030002 | Division No. 10 | Notes Red. JSH | Plotted CWH | Profile

Survey of BEACH EROSION STUDIES | Date 10-6-59 | Date 10-8-59 | No.

Survey by HARRIET STRADER | Notes | Notes Chkd. CWH | Checked CWH | X-Sec.

Indexed A. C. Johnson | Date | Date 10-6-59 | Date 10-8-59 | No.

135+74.68 N

N-6'

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	# Depth Rec. Adj.	Time	Hor. Ang.	Add offset	Adjustment
	21	6.7 3.6	6 21	14 32	3 11 V 861 V
					Boat = +1.0 V
					Zero = -1.5
					Tide = -2.8 V
					-3.3 V

76298 S & E #307—7-55

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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.

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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 N-7'	Sight on 1514+80.40
N-5	5 09	20 12		15 03	N-5 EL= 15.029	ASHORE
T.P.	5 17	18 74	6 55	13 57	per F.B. 2100-172	1514+80.40 H.
					DATUM MEAN LOWER LOW WATER	
1514+80.40 H			5 0	13 7	501.73	OFF - VIEW Control line offset allowed
			5 6	13 1		100' R. 402
			5 3	13 4		200' R. 302
			4 8	13 9		300' R. 202
			3 4	14 8		400' R. FENCE 98 LINE
			4 8	13 9	100 L.	602
			4 7	14 0	147 L. Top Slope	649
TP for survey party	1 5	10 0	10 2	3 5	170 L.	692
			5 3	4 7	31° 44'	214 716
			8 2	1 8	34 02	234 736
			12 8	-2 8	38 28	275 777
			13 0	-3 0	40 07	292 794
			14 2	-4 2	45 52?	358 ? 860
			16 0	-6 0	45 18	351 ? 853
			17 5	-7 5	47 06	373 875

Profile Notes Red JSH Plotted JSH Job No. Division No. 6
No. X-Sec. Date 10-6-57 Date 10-8-57 Survey of Beach Frontage
No. Notes Chkd. CWH Checked CWH Survey by Notes Date
Date 10-8-57 Date 10-8-57 Map No. Inspector C. Johnson

F.B. 2803 Pg. 83

F. B. 2803 Pg. 84

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

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

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. JSH Date 10-6-59 Plotted JSH Date 10-8-59 Job No. 25000 Division No. 10 F. B. 2803 Pg. 85
X-Sec. No. ____ Notes Chkd. CWH Date 10-6-59 Checked CWH Date 10-8-59 Survey of Beach Erosion Study Survey by Whitwick Notes Effie A. Pitts Date 8-25-59 Map No. ____ Indexed ____ Date ____

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Horizing ~~Tide~~	Adj. Depth	Remarks
1		6 47			90 00		
2							N-10'
3							
4							501.73
5							
6							
7							
8							
9							
10							151 + 80.40 N
11							
12							
13							
14							
15							
16							
17							N-7'
18							
19							
20							

Control Line

501.73 Offset Line

F. B. 2803 PG. 86 | Job No. 13002 | Division No. 10 | Notes Red. JSH | Plotted JSH | Profile

Survey of Beach Erosion Study | Date 10-6-59 | Date 10-8-59 | No.

Survey by CWHewlett | Notes Ellen | Notes Chkd. CWH | Checked CWH | X-Sec.

Indexed C. Johnson | Date | Date 10-6-59 | Date 10-8-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Adj. Depth	Remarks
# Color Time Meas. Depth Bottom ~~tide~~ HOWEVER						
21				70.00		
22						
23						
24	6 30					
Inst @ 151+80.40N						
Sight @ N-10'						

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

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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. Rec.	Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Allowed offset	Remarks
135+74.68 N.	N-6'	1	30.1	26.3	6 47	43° 40'	2,055	Adjustment
		2	29.3	25.5		42° 03'	1,969	Boat = +1.0
		3	28.7	24.9		40° 26'	1,887	Zero = -2.0 (Shots 1 to 5 & 10 to 16)
		4	28.3	24.5		38° 38'	1,799	Tide = -2.8
		5	27.8	24.0		37° 00'	1,724	-3.8
		6	27.3	23.2		35° 04'	1,641	
		7	26.9	22.8		32° 10'	1,567	
		8	26.3	22.2		31° 50'	1,512	
		9	26.0	21.9		30° 22'	1,451	
		10	25.3	21.5		28° 58'	1,396	N-3 135+74.68 N.
		11	24.8	21.0		27° 20'	1,343	
		12	24.3	20.5		25° 58'	1,289	
		13	23.4	19.6		24° 08'	1,225	CONTROL LINE
		14	22.2	18.4		22° 13'	1,168	
		15	21.0	17.2		21° 02'	1,125	
		16	19.8	16.0		19° 50'	1,085	N-3
		17	18.2	14.1		18° 26'	1,041	
		18	17.0	12.9		17° 20'	1,006	
		19	15.9	11.8		16° 11'	970	
		20	14.7	10.6		15° 17'	944	

CUT IN -2.3 (Shots 6 to 9, 17 to 20)
-4.1
502
OFFSET 502
N-6'
151+8.4 N
N-6

Profile Notes Red. JSH Plotted JSH Job No. Division No.
No. Date 10-6-59 Date 10-8-59 Survey of PEACH EROSION STUDY
X-Sec. Notes Chkd. CWH Checked CWH Survey by Notes Checked
No. Date 10-6-59 Date 10-8-59 Map No. Indexed J. C. Jeffery Date
F. B. 2[illegible] PL 87

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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	# Rec.	Depth Adj.	Time	Hor. Ang.		Remarks
	21	13.1 8.7		13 32	901 ✓	Adjustment
	22	11.4 7.0		12 58	874 ✓	Boat = +1.0 ✓
	23	8.9 4.5		11 41	840 ✓	Zero = -2.6
	24	7.4 3.0	6 50	10 41	807 ✓	Tide = -2.8 ✓
						-4.4 ✓
1354 74.68 N.						
N-6'						

F. B. 2303 Pg. 88 Job No. 0300.02 Division No. 10 Notes Red. JSH Plotted JSH Profile
Survey of BEACH EROSION STUDIES Date 10-6-59 Date 10-8-59 No.
Survey by CHARLET Notes STRAIGHT Notes Chkd. CWH Checked CWH X-Sec.
Indexed C. Johnson Date Date 10-6-59 Date 10-8-59 No.

76L-296 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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 159+40.32	Sight on 155+40.32
		18 74			DATUM MEAN LOWER LOW WATER	ASHORE
T.P.	4 61	19 13	4 22	14 52		155 + 40.32 N.
155+40.32N			4 9	14 2	501.73 OFF	NEW Control line offset allowed
			3 6	15 5		100 R. 402
			6 5	12 6		200 R. 302
			7 6	11 5		300 R. 202
			5 2	13 9		400 R. 102
			5 9	13 2		77
			5 3	13 8	100' L.	425 R. EDGE OF WATER 602
			5 2	13 9	150' L. Top Slope	659
			6 7	12 4	165' L.	667
T.P. for swim party	0 8	9 9	1 0 0	9 1	200' L.	702
			5 2	4 7	30 07	232 734
			9 4	0 5	33 07	261 763
			12 1	-2 2	36 12	293 795
			13 3	-3 4	39 04	325 827
			15 0	-5 1	40 57	347 849
			17 3	-7 4	43 22	378 880

Profile No. ____ Notes Red. JSH Plotted JSH Job No. ____ Division No. ____
X-Sec. No. ____ Date 10-6-59 Date 10-8-59 Survey of BEACH EROSION STUDIES
Notes Chkd. CWH Checked CWH Survey by ____ Notes ____
Date 10-6-59 Date 10-8-59 Map No. ____ Index ____ Date ____

F.B. 2803 Pg. 39

F. B. 2803 Pg. 90

Job No. C300.02 Division No. 10 Notes Red _____ Plotted _____ Profile

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

Survey by LINO Notes LINO 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 ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L-298 CE 307 11-58

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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Horiz. Ang ~~Tide~~	Adj. Depth	Remarks
1		7 18			90° 00		N-10
2					"		
3					"		
4					"		501.73
5							
6							
7					" "		
8					" "		
9					" "	155+40.32 N	90 Centerline
10					" "		
11					" "		
12					" "		
13					" "		
14					" "		
15					" "		501.73 Offset Line
16					" "		
17					" "		
18		7 21			" "		N-10
19							
20							

INST @ 155+40.32 N

SIGHT @ N-10'

Profile Notes Red. JSH Plotted JSH Job No. 23002 Division No. 10 F. B. 2863 Pg. 91
No. Date 10-6-59 Date 10-8-59 Survey of Beach Erosion Study
X-Sec. Notes Chkd. CWW Checked CWW Survey by LHowlett Notes Eliot Date 8-25-59
No. Date 10-6-59 Date 10-8-59 Map No. Index C. Jones

F. B. 2803 Pg. 92 | Job No. [illegible] Division No. 10 Notes Red. _____ Plotted _____ Profile

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

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

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

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
# Color	Time	Meas Depth	Bottom tide	HOWIZ Ang.	Adj. Depth	
Inst. @						
Sight @						

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.

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.			
# ~~Color~~	Time	Meas. Depth	Bottom ~~Tide~~	Hor. Ang.	Adj. Depth		Remarks
1	7 18	30.9	26.0	44 05	1550		
2		29.2	24.3	41 06	1395		
3		28.9	24.0	39 14	1307		
4		28.4	23.5	37 37	1234		
5		27.4	22.5	34 40	1107		
6		26.8	21.9	32 08	1005		
7		25.8	20.9	31 00	962		
8		25.2	20.3	27 30	834		
9		23.3	18.4	23 40	701		
10		21.9	17.0	21 57	645		
11		20.1	15.2	20 30	598		
12		19.1	14.2	19 08	555		
13		17.5	12.6	18 00	[illegible]		
14		16.0	11.1	16 31	475		
15		14.5	9.6	15 10	434		
16		13.2	8.3	14 11	405		
17		11.5	6.6	13 03	371		
18	7 21	9.3	4.4	12 08	344		

Inst. @ 171+40.32 N.
N-7
Sight @ 155+40.32 N.
N-7

Add offset
2052
1897
1809
1736
1609
1507
RANGE LINE

CUT-IN LINE

501.73
1464
1336
1203
1147
1100
1057
1022
977
936
907
873
846

OFFSET LINE

CONTROL LINE

171+40.32 N.

Adjustment
Boat = +1.0
Zero = -3.1
Tide = -2.8
- 4.9

Profile No. ____ Notes Red. JSH Plotted JSH Job No. 0300.06 Division No. 10 F. S. 2603 Pg. 93
X-Sec. No. ____ Date 10-6-59 Date 10-8-59 Survey of BEACH EROSION STUDIES
Notes Chkd. CWH Checked CWH Survey by ____ Notes ____ Date ____
Date 10-6-59 Date 10-8-59 Map No. ____ Indexed M. C. Johnson

F. B. 2803 PG. 94 | Job No. 030092 | Division No. 10 | Notes Red. | Plotted | Profile

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

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

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

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.	Adj. Depth	Remarks
# ~~Color~~	Time	~~Mean~~ Depth	Bottom ~~Tide~~			
INT. ℄ 171+40.32 N.						
SIGHT ON N-7						

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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 163+40.32	Sight on 159+40.32
		19 13			DATUM MEAN LOWER LOW WATER	INSHORE
	465	19 41	377	15 32		159+40.32 N
159+40.32 N			52	14 2	501.73	OFFSET (New Construction offset included)
			67	13 7		100 R. 402
			64	13 0		200 " 302
			62	13 2		300 " 202
			43	14 6		400 " 102 52
			53	14 1		450 " FENCE LINE
			53	14 1	100° L.	602
			51	14 3	141 L. Top Slope	643
			85	10 9	159 L.	661
TP for Survey party	10	87	117	7 7	197 L.	699
			40	4 7	29° 11'	224 726
			77	10	32 40	256 758
			96	−0 9	36 07	292 794
			115	−2 8	38 32	318 820
			134	−4 7	40 52	346 848
			160	−7 3	43 32	380 882
			175	−8 8	45 08	402 904

Profile No. ____ Notes Rod JSH Plotted JSH Job No. 63 mod Division No. 16
X-Sec. No. ____ Date 10-6-59 Date 10-8-59 Survey of Bence & Hooper Stations
Notes Chkd. CWH Checked CWH Survey by ____ Notes ____
Date 10-6-59 Date 10-8-59 Map No. ____ Index [redacted] Date ____

F.B. 2503 Pg. 95

F.B. 2803 Pg. 96

Job No. 0380-02 Division No. 10 Notes Red _____ Plotted _____ Profile

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

Survey by LINO Notes LINO 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 ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L-298 CE 307 11-58

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.		
# Color	Time	Meas. Depth	Bottom	~~Tide~~ Hoist Ang.	Adj. Depth	Remarks
1	7 43			90° 00		N-10
2				" "		
3				"		
4				"		501.73
5				"		
6				"		
7				"		
8				"	159+40.32 11	90°
9				"		
10				"		
11				"		
12				"		
13				"		
14				"		
15				"		
16				"		
17				"		
18				"		
19				"		
20				"		

Inst @ 159+40.32 N

Sight @ N-10'

Profile No. ____ Notes Red. JSH Plotted JSH Job No. 23090 Division No. 10 F. B. 2808 Pg. 97

X-Sec. No. ____ Date 10-6-59 Date 10-8-59 Survey of Beach Erosion Study

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

Date 10-6-59 Date 10-8-59 Map No. ____ Indexed ____ Date ____

F. B. 2803 Pg. 98 | Job No. 830002 | Division No. 10 | Notes Red. JSH | Plotted JSH | Profile

Survey of Beach Erosion Study | Date 10-6-59 | Date 10-8-59 | No.

Survey by ~~L. C. Johnson~~ Wernet | Notes Ellen | Notes Chkd. CWH | Checked CWH | X-Sec.

Indexed | Date | Date 10-6-59 | Date 10-8-59 | No.

#	Color	Time	Meas. Depth	Bottom Tide	Adj. Depth	Remarks
STATION	B. S.	H. I.	F. S.	ELEV.		
21				90		
22						
23						
24						
25		9	46			

Inst @ 159+40.32 N

Sight @ N-10'

Hon. Zero

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 9-53

76L298 3Q7 8-53

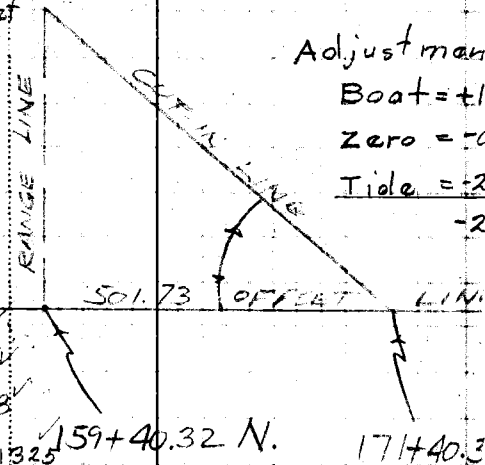
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. ~~Tide~~ HORIZ. ANG.	Adj. Depth (✓ Add offset)		Remarks
1		7 43	27.9	25.2	51° 45	1523	2025	
2			27.2	24.5	49° 43	1416	1918	
3			26.7	24.0	48° 35	1361	1863	
4			26.2	23.5	46° 12	1252	1754	
5			25.3	22.6	44° 03	1160	1662	
6			24.8	22.1	41° 58	1079	1581	
7			24.2	21.5	40° 02	1008	1510	
8			23.9	21.2	38° 26	953	1455	
9			23.5	20.8	36° 26	886	1388	
10			23.0	20.3	34° 26	823	N-7 1325	
11			22.6	19.9	32° 48	773	1275	
12			22.2	19.5	31° 05	724	1226	
13			21.5	18.8	29° 17	673	1177	
14			20.3	17.6	27° 58	637	1139	
15			19.1	16.4	26° 35	600	1102	
16			17.8	15.1	25° 04	562	1064	
17			16.4	13.7	23° 48	529	N-7 1031	
18			15.8	13.1	22° 20	493	995	
19			14.7	12.0	21° 16	467	969	
20			13.0	10.3	19° 38	428	930	

INST. @ 171+40.32 N.
SIGHT ON N-7



Adjustment
Boat = +1.0
Zero = -0.9
Tide = -2.8
-2.7

Profile No. ____ Notes Red. JSH Plotted JSH Job No. 6300.0 Division No. 10 F. B. 2203 Pg. 99
X-Sec. No. ____ Date 10-6-59 Date 10-8-59 Survey of BEACH EROSION STUDIES
Notes Chkd. CWH Checked CWH Survey by [illegible] Notes [illegible] Date [illegible]
Date 10-6-59 Date 10-8-59 Map No. ____ Indexed C. 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.

F. B. 2803 Pg. 100 Job No. 0300.02 Division No. 10 Notes Red. JSH Plotted JSH Profile
Survey of BEACH EROSION STUDIES Date 10-6-59 Date 10-8-59 No. X-Sec.
Survey by CHARLIE T. STRADER Notes Chkd. CWH Checked CWH
Indexed C. Jackson Date 10-8-59 Date 10-8-59 No.

STATION #	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Hor. Ang.	Adj. Depth	Add offset	Remarks
21		11.7	9.0	19 35	403	905	Adjustment
22		9.9	7.2	17 17	373	875	Boat = +1.0
23		7.9	5.2	16 01	344	846	Zero = -0.9
24		6.4	3.7	15 21	331	833	Tide = -2.8
25	7:46	5.6	2.9	14 35	310	812	-2.7

INST. @ 171+40.32 N.

N-7

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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 167+40 32	Sight on 163+40 32
					DATUM MEAN LOWER LOW WATER	INSHORE 163+40.32 N.
		19 41				
T.P.	3 02	16 94	6 09	13 32		
163+40.32 N.			4 9	12 0	501.73 OFF	NEW CONTROL ∠ offset included
			3 9	13 0		100 R 402
			5 4	11 5		200 R 302
			3 7	13 2		300 R 202
			1 9	15 0		400 R 182
			3 0	13 9		470 R 32
			3 0	13 9	100 L.	602
			3 2	13 7	111 L. Top Slope	613
T.P. for swim party	1 1	9 6	8 4	8 5	195 L.	697
			4 9	4 7	29 50	229 731
			8 5	1 1	34 19	273 775
			10 3	-0 7	37 08	303 805
			12 0	-2 4	38 50	322 824
			14 5	-4 9	41 27	353 855
			17 6	-8 0	43 26	379 881

Profile No. ____ Notes Rod JSH Plotted JSH Job No. Project Division No. 1
X-Sec. ____ Date 10-6-59 Date 10-8-59 Survey of Beach Elevation Studies
Notes Chkd. CWH Checked JWH Survey by ____ Notes ____ Date ____
Date 10-6-59 Date 10-8-59 Map No. ____ Indexed ____ Date ____

F.B. 2803 Pg. 101

F.B. 2803 Pg. 102

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

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

761-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

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 #	Color	Time	Meas. Depth	Bottom	Horiz. Bng Tide	Adj. Depth	Remarks
1		8 05			90 .00		N-10'
2							
3							
4							501.73
5							
6							
7							
8							163+40.32 N
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20		8 05					

Profile No. ____ Notes Red JSH Plotted JSH Job No. 2300 Division No. 10 F. B. 2803 Pg. 103
X-Sec. No. ____ Date 10-6-59 Date 10-8-59 Survey of Beach Erosion Study
Notes Chkd CWH Checked CWH Survey by [illegible] Date
Date 10-6-59 Date 10-8-59 Map No. ____ Indexed ____ Noted by [illegible] Date

F. B. 2803 Pg. 104 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

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

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

Indexed _____ 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.		
# Color Time		Meas Depth	Bottom ~~Side~~		Adj. Depth	Remarks

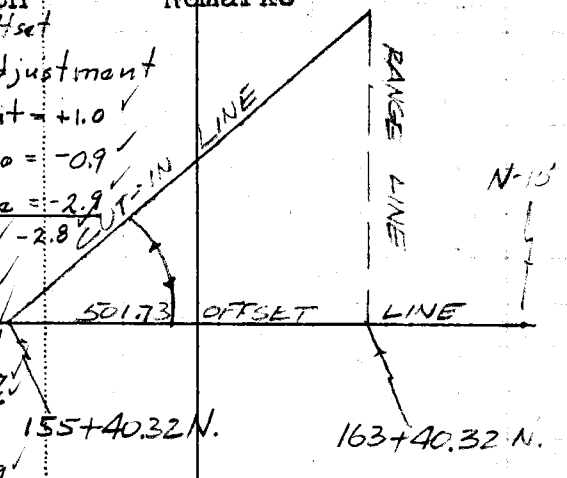
76L298 307 8-53

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 #	Center	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. HAR-ANG	Adj. Depth	Remarks
1		8 05	29.3	26.5	64° 00	1640 (Adj/offset 2142)	Adjustment
2			28.7	25.9	62° 28	1534 (2036)	Boat = +1.0
3			27.6	24.8	60° 33	1417 (1919)	Zero = -0.9
4			26.3	23.5	57° 40	1264 (1766)	Tide = -2.9
5			25.2	22.4	54° 33	1124	1626 -2.8
6			24.4	21.6	51° 09	994	1496
7			23.3	20.5	48° 01	889	1391
8			22.4	19.6	43° 42	765	1267 1196
9			22.0	19.2	40° 55	694 N-7	155+40.32 N.
10			20.9	18.1	38° 05	627	1129
11			19.1	16.3	35° 44	575	1077
12			17.9	15.1	34° 27	549	1051
13			16.8	14.0	32° 16	505	1007
14			15.8	13.0	31° 15	486	988
15			14.8	12.0	29° 39	455	957
16			13.8	11.0	28° 06	427	929
17			11.7	8.9	26° 40	402 N-7	904
18			9.7	6.9	25° 27	381	883
19			8.0	5.2	23° 28	347	849
20		8 08	6.5	3.7	21° 41	318	820



INST. @ 155+40.32 N.
SIGHT ON N-10'

Profile No. ____ Notes Red JSH Plotted JSH Job No. 2300.0 Division No. 10 F. B. 2003 Pg. 105
X-Sec. No. ____ Notes Chkd. CWH Date 10-6-59 Date 10-8-59 Survey of BEACH EROSION STUDIES
Date 10-6-59 Date 10-8-59 Map No. ____ Indexed ____ Date ____ Date ____

F. B. 2203 PG. 106 | Job No. 030002 | Division No. 10 | Notes Red. | Plotted | Profile

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

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

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

STATION	B. S.	H. I.	F. S.	ELEV.	Adj. Depth	Remarks
# ~~Cabon~~	Time	~~Meas~~ Depth	Bottom ~~Stat~~			
INST. @ 155+40.32 N.						
SIGHT ON N-10'						

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.

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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 171+40.32	Sight on 167+40.32	
		16 94			DATUM MEAN LOWER LOW WATER	INSHORE	
T.P.	532	17 62	464	12 30		167+ 40.32	
167+ 40.32			49	12 7	501.73	OFFSET	offset included
			44	13 2		100 ± R	402
			63	11 3		200 ± R.	302
			45	15 1		300 ± R.	202
			32	14 4		400 ± R.	102
			22	15 4		500 ± R	02
			14	16 2		590 ± R	-88
			42	13 4	100 ± L.		602
			43	13 3	118 L.	Top Slope	620
			70	10 6	179 L.		631
	1 5	9 7	94	8 2	200 L.		702
			50	4 7	32 14	252	754
			86	1 1	35 21	284	786
			100	-0 3	39 00	324	826
			126	-2 9	41 36	355	857
			156	-5 9	43 43	382	884
			180	-8 3	45 21	405	907

Profile No. ____ Notes Red. JSH Plotted JSH Job No. 0300 Division No. 16
X-Sec. No. ____ Date 10-6-59 Date 10-6-59 Date 10-8-59 Survey of BEACH STUDIES
Notes Chkd. CWH Checked CWH Survey by ____ Notes
Date 10-6-59 Date 10-8-59 Map No. ____ Indexed ____ Date ____ Date ____

F.B. 2803 Pg. 107

F.B. 2803 Pg. 108

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

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

Survey by LIND Notes LIND 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 ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

74L-296 CE 307 11-58

76L298 307 6-53

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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. ~~Tide~~ Profile Grade	Adj. Depth	Remarks
1		8 19			90 00		
2					"		N-10'
3					"		
4					"		501.23
5					"		
6					"		
7					"		
8					"		
9					"		169+ 40.5 N
10					"		
11					"		
12					"		
13					"		
14					"		
15					"		
16					"		
17					"		
18					"		
19					"		
20					"		
21					"		
22					"		
23					"		
24					"		
25					"		
26					"		
27					"		
28					"		
29					"		
30					"		
31					"		
32					"		
33					"		
34					"		
35					"		
36					"		
37					"		
38					"		
39					"		
40					"		
41					"		
42					"		
43					"		
44					"		
45					"		
46					"		
47					"		
48					"		
49					"		
50					"		
51					"		
52					"		
53					"		
54					"		
55					"		
56					"		
57					"		
58					"		
59					"		
60					"		
61					"		
62					"		
63					"		
64					"		
65					"		
66					"		
67					"		
68					"		
69					"		
70					"		
71					"		
72					"		
73					"		
74					"		
75					"		
76					"		
77					"		
78					"		
79					"		
80					"		
81					"		
82					"		
83					"		
84					"		
85					"		
86					"		
87					"		
88					"		
89					"		
90					"		
91					"		
92					"		
93					"		
94					"		
95					"		
96					"		
97					"		
98					"		
99					"		
100					"		
101					"		
102					"		
103					"		
104					"		
105					"		
106					"		
107					"		
108					"		
109					"		
110					"		
111					"		
112					"		
113					"		
114					"		
115					"		
116					"		
117					"		
118					"		
119					"		
120					"		
121					"		
122					"		
123					"		
124					"		
125					"		
126					"		
127					"		
128					"		
129					"		
130					"		
131					"		
132					"		
133					"		
134					"		
135					"		
136					"		
137					"		
138					"		
139					"		
140					"		
141					"		
142					"		
143					"		
144					"		
145					"		
146					"		
147					"		
148					"		
149					"		
150					"		
151					"		
152					"		
153					"		
154					"		
155					"		
156					"		
157					"		
158					"		
159					"		
160					"		
161					"		
162					"		
163					"		
164					"		
165					"		
166					"		
167					"		
168					"		
169					"		
170					"		
171					"		
172					"		
173					"		
174					"		
175					"		
176					"		
177					"		
178					"		
179					"		
180					"		
181					"		
182					"		
183					"		
184					"		
185					"		
186					"		
187					"		
188					"		
189					"		
190					"		
191					"		
192					"		
193					"		
194					"		
195					"		
196					"		
197					"		
198					"		
199					"		
200					"		

Profile No. ____ X-Sec. No. ____

Notes Red. JSH Date 10-6-59 Chkd. CWH Date 10-8-59 Notes Date ____

Plotted JSH Date 10-8-59 Checked CWH Date 10-8-59 Map No. ____

Job No. 23000.02 Division No. 16 Survey of Beach Erosion Study Survey by ____ Notes ____ Date ____ Indexed C. Johnson

F. B. 6603 Pg. 109

F. B. 2803 Pg. 110 | Job No. 0300.02 | Division No. 10 | Notes Red. JSH | Plotted JSH | Profile

Survey of Beach Erosion Study | Date 10-6-59 | Date 10-8-59 | No.

Survey by Uberuaga | Notes Liden | Notes Chkd. CWH | Checked CWH | X-Sec.

Indexed [redacted] | Date | Date 10-6-59 | Date 10-8-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Adj. Depth	Remarks
# Color Time		Meas Depth	Bottom ~~tide~~	Mean Sea		
21						
22	8					
	20					

761.298 307 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.

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 #	Time	Meas. Depth	Bottom	Elev.	Adj. Depth	Remarks	Offset added
1	817	33.6	30.8	61° 07'	2176	Adjustment	2678
2		32.3	29.5	59° 48'	2062	Boat = +1.0	2564
3		31.2	28.4	58° 01'	1921	Zero = -0.9	2423
4		30.1	27.3	55° 12'	1727	Tide = -2.9	2229
5		29.1	26.3	53° 07'	1600	-2.8	2102
6		28.2	25.4	51° 30'	1508		2010
7		27.2	24.4	49° 21'	1398		1900
8		26.2	23.4	46° 56'	1279		1781
9		25.4	22.6	44° 37'	1184		1686
10		24.8	22.0	41° 47'	1073		1575
11		24.3	21.5	39° 15'	980		1482
12		23.4	20.6	35° 56'	870		1372
13		21.9	19.1	30° 50'	716		1218
14		20.5	17.7	27° 58'	637		1139
15		19.0	16.2	25° 42'	577		1079
16		17.7	14.9	24° 01'	535		1037
17		16.3	13.5	22° 24'	494		996
18		14.8	12.0	21° 08'	464		966
19		12.9	10.1	19° 40'	428		930
20		11.0	8.2	18° 44'	407		909

INST @ 155+40.32 N.
SIGHT ON N-10
N-7
155+40.32 N.
CUT-IN LINE
501.73 offset line
CONTROL LINE
BANK LINE
N-10
167+40.32 N.
N-7
N-10

Profile No. ____ Notes Red. JSH Plotted JSH Job No. 0300 Division No. 10 F. B. 2803 Pg. 111
X-Sec. No. ____ Date 10-6-59 Date 10-8-59 Survey of PEACH BOTTOM STREET
Notes Chkd. CWH Checked CWH Survey by ____ Notes ____ Date ____
Date 10-6-59 Date 10-8-59 Map No. ____ Indexed ____ Date ____

F. B. 2803 PG. 112 | Job No. 030007 | Division No. 10 | Notes Red. JSH | Plotted JSH | Profile

Survey of LEACH EROSION STUDIES | Date 10-6-59 | Date 10-8-59 | No.

Survey by VHARRIET | Notes STRADER | Notes Chkd. CWH | Checked CWH | X-Sec.

Indexed [redacted] C. JOHNSON | Date | Date 10-6-59 | Date 10-8-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Adj. Depth offset added	Remarks
# ~~Center~~ Time	~~Mean~~ Depth	Bottom ~~Side~~	HOR. ANG.			
21	8.20	9.2	6.4	18.80	3.90	8.92 Adjustment
22		7.9	5.1	16.58	3.64	8.66 Boat = +1.0
						Zero = -0.9
						Tide = -2.9
						-2.8

INST. @ 155+40.32

SIGHT ON N-10'

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.

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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 175+40.32	Sight on 171+40.32
		17 62			DATUM MEAN LOWER LOW WATER	171+ 40.32 RL
T.P.	478	17 19	521	12 41		INSHORE
171+40.32 RL			48	12 4	501.73	OFFSET LINE offset included
			34	13 8		100 R. 402
			42	13 0		200 R. 302
			37	13 5		300 R. 202
			41	13 1		400 R. 102
			37	13 5		490 R 12
			43	12 9	100.0 L.	602
			41	13 1	131.2 L	693
			67	10 5	169 L.	671
			68	10 4	200 L.	702
			77	9 5	222 L. Top Slope	724
T.P. FOR SWIM. PART	0 8	8 3	97	7 5	246 L.	748
			3 6	4 7	34° 22'	274 776
			6 5	1 8	38 30	318 820
			9 1	-0 8	42 23	365 867
			12 0	-3 7	44 39	395 897
			15 6	-7 3	47 11	432 ? 934
			16 5	-8 2	47 06	430 ? 932

Profile Notes Red JSH Plotted JSH Job No. 0300-02 Division No. 10
X-Sec. Date 10-6-59 Date 10-8-59 Survey of Beach Erosion
No. Notes Chkd. CWH Checked CWH Survey by CWH Notes Date 8-25-59
No. Date 10-8-59 Date 10-8-59 Map No. Indexed L. C. Job Data

F.B. 2803 Pg. 113

F.B. 2803 Pg. 114

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

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Hgt. Ang. Tide	Adj. Depth	Remarks
1		8 30			90 00		
2							N-10'
3							
4							
5							501.23
6							
7							
8							
9						171+40.32 N	90°
10							
11							
12							
13							
14							
15							
16							
17							N-7'
18							
19							
20		8 33					

inst @ 171+40.32 N

sight @ N-10'

501.23 offset Line

Control Line

Profile No. ____ Notes Red JSH Plotted JSH Job No. 62003 Division No. 18 F. B. 2603 Pg. 115
Date 10-6-59 Date 10-8-59 Survey of Rancho Palos Verdes
X-Sec. No. ____ Notes Chkd CWH Checked CWH Survey by Hoyt & Co. Notes Entered Date 10-8-59
Date 10-6-59 Date 10-8-59 Map No. ____ Index N. C. Johnson

F. B. 2803 PG. 116 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by Uharriet Notes Liden Notes Chkd. Checked X-Sec.

Indexed 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.	
# Color Time		Rear Depth	Bottom Tide	Adj. Depth	Remarks

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 #	Time	B. S. Mean Depth	H. I. Bottom	F. S.	ELEV.	~~Adj. Depth~~	Remarks offset added
1	8 30	30.0	27.1	55° 29	1745		
2		29.4	26.5	54 03	1655		
3		28.2	25.3	51° 11	1492		
4		27.3	24.4	49° 21	1398		
5		26.3	23.4	47 00	1286		
6		25.6	22.7	44° 40	1186		
7		24.9	22.0	41° 52	1075		
8		23.9	21.0	38° 57	970		
9		23.1	20.2	37° 06	907		
10		22.4	19.5	33 29	793		
11		21.9	19.0	30° 56	719		
12		21.2	18.3	28 30	652		
13		20.2	17.3	26° 31	599		
14		18.7	15.8	24° 45	553		
15		17.8	14.9	23° 42	527		
16		16.5	13.6	22° 43	503		
17		14.8	11.9	21° 42	478		
18		12.7	9.8	20° 41	453		
19		10.1	7.2	19° 37	427		
20	8 33	8.1	5.2	18° 20	397		

Cutter: INST. @ 159 + 40.32 N.
SIGHT ON N-10'

Adjustment
Boat = +1.0
Zero = -0.9
Tide = -3.0
-2.9

501.72

CUT-IN LINE
OFFSET LINE
CONTROL LINE
159+40.32 N.
171+40.32 N.
N-7
N-7
N-10
N-10

2247	
2157	
1994	
1900	
1788	
1688	
1577	
1472	
1409	
1295	
1221	
1154	
1101	
1055	
1029	
1005	
980	
955	
929	
899	

RANGE LINE

Profile Notes Red. JSH Plotted JSH Job No. 0300.05 Division No. 10 F. B. 2403 Pg. 117
No. Date 10-6-59 Date 10-8-59 Survey of BEAKER EROSION STUDIES
X-Sec. Notes Chkd. CWH Checked CWH Survey by Notes Date
No. Date 10-6-59 Date 10-8-59 Map No. Indexed C. Jeh

F. B. 2803 PG. 118 | Job No. 230005 | Division No. 10 | Notes Red. | Plotted | Profile

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

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

Indexed | Date | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Adj. Depth	Remarks
# ~~Color~~	Time	~~Meas~~ Depth	Bottom ~~Pipe~~			

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

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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 179+40 32/	Sight on 175+40 32/
		17 19			DATUM MEAN LOWER LOW WATER	INSHORE
T.P.	4 64	18 20	3 63	13 56		175+40.32
175+40.32			48	13 4	501.73	OFFSET offset included
			52	13 0		100 R. 402
			56	12 6		200 R. 302
			50	13 2		300 R. 202
			46	13 ~~8~~ 6		400 R. 102
			23	15 9		500 R. 02
			55	12 7	100 L.	602
			58	12 4	189 L. Top Slope	691
			70	11 2	200 L.	702
			97	8.5	277 L.	779
T.P.	0 3	7 9	106	7 6	300 L.	802
			32	4 7	39° 34'	330 832
			64	1 5	42 51	371 873
			84	-0 5	45 56	413 915
			130	-5 1	49 05	462 964
			160	-8 1	50 34	486 988

Profile Notes Red. JSH Plotted JSH Job No. 2300.02 Division No. 16
No. X-Sec. Date 10-6-57 Date 10-8-57 Survey of Beach Erosion Notes Date 8-25-57
Notes Chkd. CWH Checked CWH Survey by Crew Notes Date
No. Date 10-6-57 Date 10-8-57 Map No. Indexed C. Johnson

F.B. 2303 Pg. 19

F. B. 2803 Pg. 120

Job No. 03000-2 Division No. 10 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L-268 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Horizing Tide	Adj. Depth	Remarks
1		9 42			90 00		N-10'
2					" "		
3					" "		
4							501.73'
5							
6							
7							
8							175+40.32 N 90°
9							
10							
11					" "		
12					" "		
13					" "		
14					" "		
15					" "		
16					" "		
17					" "		N-7
18					" "		
19					" "		
20					" "		

Inst @ 175+40.32 N

Sight @ N-10'

Profile No. ____ Notes Red JSH Plotted JSH Job No. 0100.02 Division No. 10 F. B. 2803 Pg. 121

Date 10-6-59 Date 10-8-59 Survey of Beach Erosion Study

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

Date 10-6-59 Date 10-8-59 Map No. ____ Index [illegible]

F. B. 2803 PG. 122 | Job No. 0300-02 | Division No. 10 | Notes Red. JSH | Plotted JSH | Profile

Survey of Beach Erosion Studies | Date 10-6-59 | Date 10-8-59 | No.

Survey by Uharriet | Notes Liden | Notes Chkd. CWH | Checked CWH | X-Sec.

Indexed J. C. Johnson | Date | Date 10-6-59 | Date 10-8-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
# Color Time	Meas Depth	Bottom ~~grade~~			Adj. Depth
				90.00	
21				"	
22				"	
23				"	
24				"	
	8 46				
Inst @ 175 + 40.32 N					
Sight @ N-10'					

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.

76L298 307 8-53

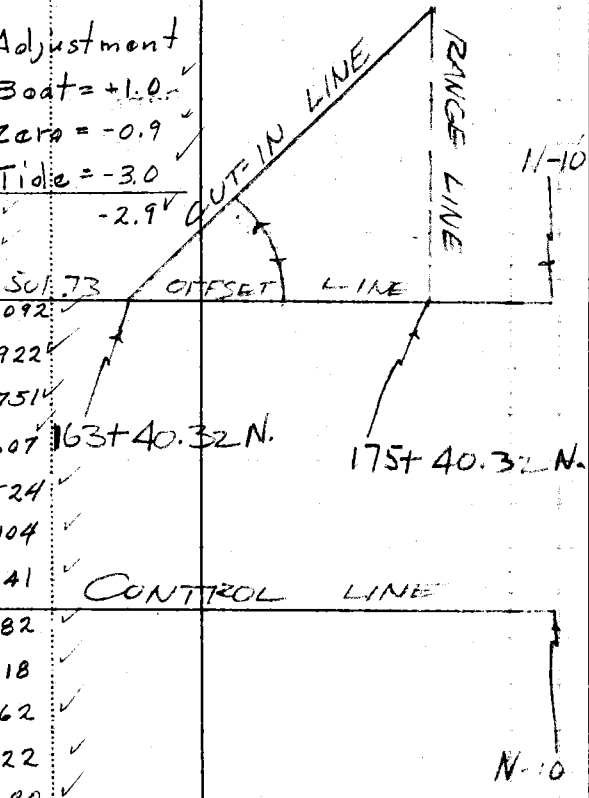
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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 #	Time	B. S.	H. I. Meas. Depth	F. S. Bottom	ELEV. Horizang.	Adj. Depth	Remarks
	8 41		36.3	33.4	65°02	2578 3080	Adjustment
			35.0	32.1	63°31	2408 2910	Boat = +1.0
			33.4	30.5	61°17	2190 2692	Zero = -0.9
			32.3	29.4	59°20	2023 2525	Tide = -3.0
			31.2	28.3	57°36	1891 2393	-2.9
			30.2	27.3	55°26	1741 2243	
			29.1	26.2	52°58	1590 2092	
			27.4	24.5	49°48	1420 1922	
			26.1	23.2	46°09	1249 1751	
			24.8	21.9	42°38	1105 N-7 1607	163+40.32 N.
			24.0	21.1	40°25	1022 1524	
			23.5	20.6	36°56	902 1404	
			22.9	20.0	34°57	839 1341	
			22.4	19.5	32°02	780 1282	
			21.9	19.0	30°51	716 1218	
			21.1	18.2	28°49	660 1162	
			20.4	17.5	27°19	620 N-7 1122	
			19.4	16.5	25°45	578 1080	
			18.1	15.2	24°47	554 1056	
			16.8	13.9	23°51	530 1032	

INST. @ 163+40.32 N
SIGHT ON N-10



Profile No. ____ Notes Red JSH Plotted JSH Job No. 2300.0 Division No. 10 F. B. 2603 Pg. 123
X-Sec. No. ____ Date 10-6-59 Date 10-8-59 Survey of BERKEH EROSION STUDIES
Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date ____
Date 10-6-59 Date 10-8-59 Map No. ____ Indexed ____ Date ____

F. B. 2803 Pg. 124 | Job No. 2300.5 | Division No. 10 | Notes Red. JSH | Plotted JSH | Profile

Survey of KLACH EROSION STUDIES | Date 10-6-59 | Date 10-8-59 | No.

Survey by OHARRIET | Notes STRADER | Notes Chkd. CWH | Checked CWH | X-Sec.

Indexed C. Johnson | Date | Date 10-6-59 | Date 10-8-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Adj. Depth	Remarks
# ~~Order~~	Time	~~Height~~ Depth	Bottom ~~Side~~		Add offset	Adjustment
21		13.4	10.5	22.41	504	1006
22		10.3	7.4	21.40	479	981
23		7.2	4.3	20.58	460	962
24	845	5.0	2.1	20.22	446	948
INST. @ 163+40.32 N						
SIGHT ON N-10'						

Boat = +1.0

Zero = -0.9

Tide = -3.0

-2.9

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.

76L298 307 8-53

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED IN K. 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 N-10'	Sight on 179+40.32
		18.20			DATUM MEAN LOWER LOW WATER	INSHORE
T.P.	4.29	18.13	4.34	13.84		179+40.32 H.
179+40.32 H.			4.9	13.2	501.73	OFFSET offset included
			5.5	12.6		100 R 402
			6.6	11.5		200 R. 302
			6.7	11.4		300 R 202
			6.0	12.1		400 R. 102
			2.8	15.3		508 R -.06
			6.4	11.7	100° L.	602
			6.2	11.9	200° L.	702
			8.5	9.6	273 L.	775
			10.0	8.1	348 L.	850
T.P. for swim party	1.3	8.3	11.1	7.0	384 L	886
			3.6	4.7	49° 25'	409 911
			8.0	0.3	52 27	456 958
			9.3	-1.0	54 16	487 989
			13.0	-4.7	56 25	528 1030
			18.0	-9.7	57 38	553 1085

Profile No. X-Sec. No.
Notes Rd. VSH Plotted VSH Job No. 6700 02 Division No. 10
Date 10-6-59 Date 10-8-59 Survey of Beach Erosion Stations
Notes Chkd. CWH Checked CWH Survey by Notes Date
Date 10-8-59 Date 10-8-59 Map No. Indexed Date

F.B. 2803 Pg. 125

F. B. 2803 Pg. 126

Job No. 630102 Division No. 10 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L-298 CE 307 11-58

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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.

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 Rod JSH Date 10-6-59 Plotted JSH Date 10-8-59 Job No. 83660-02 Division No. 10 F. B. 2603 Pg. 127
X-Sec. No. ____ Notes Chkd. CWH Date 10-6-59 Checked CWH Date 10-8-59 Survey of Bear Creek Erosion Study Survey by [illegible] Notes [illegible] Date [illegible]
Map No. ____ Indexed C. C. Johnson

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Horiz Ang ~~Tide~~	Adj. Depth	Remarks
1		8 56			90 00		5-10
2					" "		
3					" "		
4					" "		501.23
5					" "		
6					" "		
7					" "		
8					" "	122 40 00.32 N	90°
9					" "		
10					" "		
11					" "		
12					" "		
13					" "		
14					" "		
15					" "		
16					" "		
17					" "		
18					" "		
19					" "		
20					" "		

inst @ 1774 46.32 N

sight @ N-10'

Control Line

501.23 Offset Line

5-7

F. B. 2803 Pg. 128 | Job No. 0300.02 | Division No. 10 | Notes Red. JSH | Plotted JSH | Profile

Survey of Beach Erosion Studies | Date 10-6-59 | Date 10-8-59 | No.

Survey by Oharriet | Notes Liden | Notes Chkd. CWH | Checked CWH | X-Sec.

Indexed A. C. Johnson | Date | Date 10-6-59 | Date 10-8-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Adj. Depth	Remarks
# Color Time		Meas. Depth	Bottom ~~tide~~			
21						
22						
23						
24						
Inst @ 129 +40.32 N						
Sight @ N-10'						
	8					
	60					

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 5-53

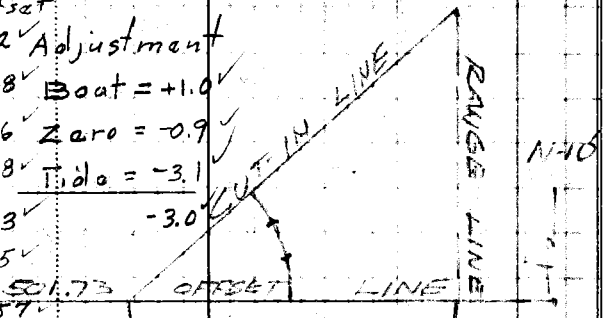
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. NOR-ENG	Adj. Depth	Add offset	Remarks
1	8 53	34.6	31.6	55° 08	2290	2792	Adjustment
2		33.2	30.2	53° 17	2146	2648	Boat = +1.0
3		32.2	29.2	51° 33	2014	2516	Zero = -0.9
4		31.4	28.4	49° 42	1886	2388	Tide = -3.1
5		30.5	27.5	47° 54	1771	2273	-3.0
6		29.7	26.7	45° 50	1653	2155	
7		29.1	26.1	44° 12	1555	2057	
8		28.0	25.0	42° 20	1458	1960	
9		26.5	23.5	39° 30	1318	1820	
10		25.5	22.5	36° 52	1202 N-7	1704	
11		24.4	21.4	33° 24	1054	1556	
12		24.0	21.0	31° 21	974	1476	
13		23.5	20.5	29° 30	906	1408	
14		23.0	20.0	27° 56	848	1350	
15		22.2	19.2	25° 22	778	1280	
16		21.3	18.3	24° 21	725	1227	
17		20.9	17.9	23° 25	693 N-7	1195	
18		20.0	17.0	22° 16	654	1156	
19		19.1	16.1	21° 20	626	1128	
20		18.0	15.0	20° 32	600	1102	

INST. ℄ 162+40.32 N.
SIGHT ON N-10



Profile No. ____ Notes Red. JSH Plotted JSH Job No. 1300 Division No. 10 F. B. 223 Pg. 129
X-Sec. No. ____ Date 10-6-59 Date 10-8-59 Date ____ Notes Chkd. CWH Checked CWH Survey of KEACH EROSION STUDIES Notes ____ Date ____
Date 10-6-59 Date 10-8-59 Map No. ____ Survey by ____ Indexed ____ C. Johnson

F. B. 2803 PG. 130 | Job No. 030007 | Division No. 10 | Notes Red. JSH | Plotted JSH | Profile

Survey of BEACH EROSION STUDIES | Date 10-6-59 | Date 10-8-59 | No.

Survey by HARRIET STRADER | Notes | Notes Chkd. CWH | Checked CWH | X-Sec.

Indexed A. C. Johnson | Date | Date 10-6-59 | Date 10-8-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Adj. Depth	Remarks
# ~~Color~~	Time	Meas. Depth	Bottom ~~Depth~~			
INST. @ 163+40.32 N						
SIGHT ON N-10'						
	8:50	16.2'	13.2'		582' 1084'	Add offset
		11.9'	8.9'		560' 1062'	Adjustment
		9.2'	6.2'		549' 1051'	Boat = +1.0'
		7.5'	4.5'		530' 1032'	Zero = -0.9'
						Tide = -3.1'
						-3.0'

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.

76L298 307 8-53

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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 JSH Plotted JSH Job No. 0300.02 Division No. 16
X-Sec. No. ____ Date 10-6-57 Date 10-8-57 Survey of BEACH EROSION STUDIES
Notes Chkd. CWH Checked CWH Survey by ____ Notes ____ Date ____
Date 10-8-57 Date 10-8-57 Map No. ____ Indexed C. JOHNSON

F.B. 2803 Pg. 131

STATION	B.S.	H.I.	F.S.	ELEV.	Inst. at N-10'		Sight on 181+40.32
		18 13			DATUM MEAN LOWER LOW WATER		MUSHORE
T.P.	4 55	17 41	5 27	12 8			181+40.32 N
181+40.32			50	12 4		501.73	OFFSET offset included
			45	12 9			100 R. 402
			38	13 6			200 R. 302
			63	11 1			310 R. 192
			48	12 6			400 R. 102
			18	15 6			478 R. 24
			53	12 1			500 R 02
			56	11 8	100 L		602
			59	11 5	200 L.		702
			72	10 2	300 L.		802
			83	9 1	385 L.	Top Slope	887
TP. FOR SWIM MATY	1 5	10 9 2	97	~~8~~ 7	403 L.		905
			5 5	~~4~~ 3 7	71° 26'		448 950
			8 6	7 6	73 03		493 995
			10 3	-10 1	74 04		527 1029
			~~11 8~~	~~-2 6~~	~~74 36~~		546 [illegible]
			~~13 8~~	~~-4 5 6~~	~~75 04~~		564 [illegible]
			~~15 6~~	~~-6 5 4~~	~~75 28~~		580 [illegible]
			16 4	-7 1 2	75 50		596 [illegible]

F. B. 2803 Pg. 132

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

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

STATION		H.I.	F.S.	ELEV.

Do not extend notes this side of this line.

76L-288 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

Profile No. ____ Notes Red. JSH Plotted JSH Job No. 0300.02 Division No. 10 F. B. 2803 Pg. 133
X-Sec. No. ____ Date 10-6-59 Date 10-8-59 Survey of Beach Erosion Study
Notes Chkd. CWH Checked CWH Survey by ____ Notes Laid Date 6-26-59
Date 10-6-59 Date 10-8-59 Map No. ____ Indexed C. Johnson

STATION #	Color	Time	Meas. Depth	Bottom	HORIZ. ANG / Tide	Adj. Depth	Remarks
1		9 17			90 00		5-10'
2					" "		
3					" "		
4					" "		
5					" "		501.73
6					" "		
7					" "		
8					" "		
9					" "		181+40.32 N 90° Line
10					" "		
11					" "		
12					" "		
13					" "		
14					" "		
15					" "		
16					" "		
17					" "		
18					" "		
19					" "		
20					" "		

181+40.32 N

N-10'

1151 @ 24'45"

501.23 Offset

Control Line

5-9'

F. B. 2803 PG. 134 Job No. 2300.03 Division No. 10 Notes Red. JSH Plotted JSH Profile

Survey of Beach Erosion Studies Date 10-6-59 Date 10-8-59 No.

Survey by Uharriet Notes Liden Notes Chkd. CWH Checked CWH X-Sec.

Indexed C. Johnson Date Date 10-6-59 Date 10-8-59 No.

#	Color	Time	Meas Depth	Bottom	Tide	Adj. Depth	Remarks
21							
22							
23							
24							
25		9:00					

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

Inst @ 181 + 40.32 N

sight @ 5-10'

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.

Profile No. ____ Notes Red. JSH Plotted JSH Job No. 2300 Division No. 10 F. B. 2803 Pg. 135
X-Sec. No. ____ Date 10-6-58 Date 10-8-58 Survey of BEACH EROSION
Notes Chkd. CWH Checked CWH Survey by ____ Notes ____ Date ____
Date 10-6-58 Date 10-8-58 Map No. ____ Indexed C. Johnson Date ____

STATION #	Time	B. S. Meas. Depth	H. I. Bottom	F. S.	ELEV. HOR. ANG.	Adj. Depth (offset added)		Remarks
1	9 17	29.6	26.4		58° 21	1622	2124	Adjustment
2		29.3	26.1		57° 00	1540	2042	Boat = +1.0
3		28.9	25.7		55° 53	1476	1978	Zero = -1.0
4		28.0	24.8		54° 33	1409	1911	Tide = -3.2
5		27.5	24.3		52° 41	1362	1864	-3.2
6		27.3	24.1		52° 34	1306	1808	
7		26.7	23.5		51° 24	1253	1755	
8		26.1	22.9		50° 14	1202	1704	
9		25.6	22.4		49° 00	1150	1652	171+40.32 N.
10		25.0	21.8		47° 15	1082	1584	
11		24.5	21.3		45° 45	1027	1529	
12		24.4	21.2		44° 26	980	1482	
13		23.6	20.4		42° 47	925	1427	
14		23.3	20.1		41° 22	881	1383	
15		23.1	19.9		40° 08	843	1345	
16		22.6	19.4		38° 37	799	1301	
17		22.0	18.8		37° 24	765	1267	
18		21.5	18.3		36° 24	737	1239	
19		20.8	17.6		35° 13	706	1208	
20		19.7	16.5		34° 23	684	1186	

INST. @ 171+40.32 N
SIGHT ON N-10

N-7

N-10

BASE LINE

SIGHT LINE

501.93 OFFSET LINE

181+40.32 N.

CONTROL LINE

N-7

N-10

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. 2903 - PG. 136 | Job No. 2300.05 | Division No. 10 | Notes Red. JSH | Plotted JSH | Profile
Survey of BEACH EROSION STUDIES | Date 10-6-59 | Date 10-8-59 | No. | X-Sec.
Survey by CLARKE ET | Notes STRADDLE | Notes Chkd. CWH | Checked CWH
Indexed K. C. Johnson | Date | Date 10-6-59 | Date 10-8-59 | No.

STATION #	~~Error~~	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. ~~Tide~~ 1.02 ANS	Adj. Depth	Remarks
21			18.3	15.1		652 1154 offset added	Adjustment
22			16.5	13.3		633 1135	Boat = +1.0
—			14.0	10.8		612 1114	Zero = -1.0
			10.8	7.6		592 1094	Tide = -3.2
			8.7	5.5		569 1071	-3.2

INST. @ 1717+40.32 N.
SIGHT ON N-10'

Notes Ck'd by	Survey of
Map No.	JN Tape Std °F
Office Work JSH	Surveyed by
Checked CWH	Notes Date
Date 9-3-59	Indexed

F. B. PG.

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

768098 CE #247—7-59

F. B 2803 PG. 137A

TIDES 8-26-59

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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 JSH	Survey of Beach Erosion Study
Map No.	IN 0300.02 Tape Std °F
Office Work	Surveyed by Uhartiet
Checked	Notes Elk Date 8-26-59
Date 9-3-59	Indexed ~~E. C. Johnson~~ 8-28-59

F. B. 2803 Pg. 137

8-26-59

2.8 ~~3.0~~ on Datum Line of tide Gauge

Gauge time (P.S.T) - 12:03

Watch time (P.S.T) - 12:01

Standard time	Gauge Reading	
5:00	~~+3.5~~	+3.3
5:30	~~+3.6~~	+3.4
6:00	~~+3.4~~	+3.2
6:30	~~+3.3~~	+3.1
7:00	~~+3.4~~	+3.2
7:30	~~+3.4~~	+3.2
8:00	~~+3.3~~	+3.1
8:30	~~+3.3~~	+3.1
9:00	~~+3.4~~	+3.2
9:30	~~+3.5~~	+3.3
10:00	~~+3.5~~	+3.3
10:30	~~+3.7~~	+3.5
11:00	~~+3.8~~	+3.6
11:30	~~+4.0~~	+3.8
12:00	~~+4.2~~	+4.0

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

763095 CE #247—7-53

F. B. 2803 PG. 138

RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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.

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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 185+39.08	Sight on 183+39.08
		17 41			DATUM MEAN LOWER LOW WATER	INSHORE
T.P.	4 24	16 34	-5 31	12 10		183+39.08 K. offset included
			1 3	15 0	480' R	+0
			5 2	11 1	383' R. BRK.	97
183+39.08			3 6	12 7	300' R. 479.93	OFFSET 180
			4 0	12 3	200' R.	280
			4 5	11 8	100' R.	380
			5 0	11 3	STA.	
			4 7	11 6	100 L.	580
			4 9	11 4	200 L.	680
			4 8	11 5	300 L.	780
			6 1	10 2	400 L.	880
	0 9	8 2	9 0	7 3	455 L.	935
			3 5	4 7	67° 35'	485 965
			7 5	0 7	69 43	541 1021
			8 9	-0 7	70 37	568 1048
			10 3	-2 1	71 35	601 1081
			12 8	-4 6	72 16	625 1105
			16 0	-7 8	73 04	657 1137
			16 9	-8 7	73 17	666 1146

Profile Notes Red JSH Plotted JSH Job No. 0-30002 Division No. 16
No. Date 10-6-57 Date 10-8-57 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. CWH Checked CWH Survey by Notes Date
No. Date 10-6-57 Date 10-8-57 Map No. Index C. J.

F.B. 2803 Pg. 139

F. B. 2803 Pg. 140

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

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L-288 CE 307 11-58

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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.

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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Hor. Ang. Side	Adj. Depth	Remarks
1		6 26			90° 00		5-11'
2					" "		
3					" "		
4					" "		479.93'
5					" "		
6					" "		
7					" "		
8					" "		
9					" "		90° Line
10					" "		1834+39.08 N
11					" "		
12					" "		
13					" "		1734+0 E 6.964
14					" "		
15					" "		
16					" "		
17					" "		5-10'
18		6 29			" "		
19							
20							

Inst. @ 1834+39.08 N
Sight @ 5-11'

Centerline

Profile
No. ____ Notes Red JSH Plotted JSH Job No. 03000-02 Division No. 10 F. B. 28603 Pg. 141
Date 10-6-59 Date 10-8-59 Survey of Beach Erosion Study
X-Sec.
No. ____ Notes Chkd. CWH Checked CWH Survey by Alaquist Notes Lidon Date 8-26-59
Date 10-6-59 Date 10-8-59 Map No. ____ Indexed by C. [illegible]

F. B. 2803 Pg. 142 Job No. 030002 Division No. 10 Notes Red. _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L298 307 8-53

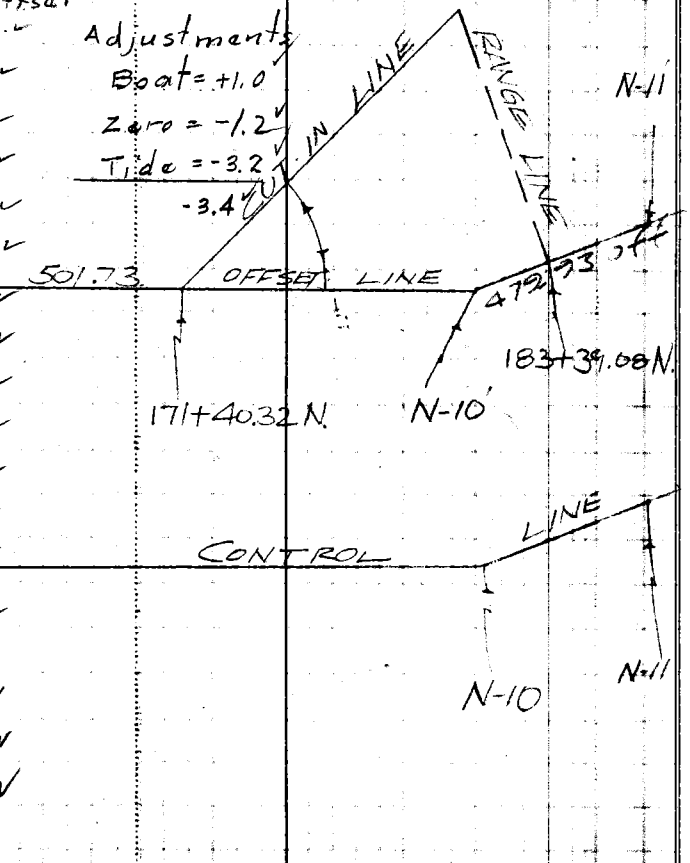
76L298 307 8-53

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.

STATION	B. S.	H. I.	F. S.	ELEV.			
#	Time	Meas. Depth	Bottom	HOR. ANG.	Adj. Depth (Add offset)	Remarks	
1	6 27	32.0	28.6	56° 53'	2306	Adjustments	
2		30.0	26.6	54° 44'	2171	Boat = +1.0	
3		29.1	25.7	51° 38'	1991	Zero = -1.2	
4		27.5	24.1	49° 17'	1869	Tide = -3.2	
5		27.1	23.7	47° 30'	1786	-3.4	
6		25.7	22.3	44° 57'	1676		
7		25.1	21.7	42° 31'	1578		
8		24.5	21.1	40° 03'	1487		
9		23.6	20.2	37° 37'	1404		
10		22.8	19.4	35° 43'	1341		
11		21.7	18.3	34° 03'	1290		
12		20.5	17.1	32° 04'	1233		
13		18.2	14.8	31° 04'	1202		
14		14.1	10.7	29° 29'	1158		
15		10.9	7.5	28° 29'	1131		
16		8.3	4.9	27° 39'	1108		
17		7.1	3.7	27° 06'	1094		
18	6 29	5.5	2.1	26° 06'	1068		



INST. @ 171+40.32 N
SIGHT ON N-10'

Profile
No. ____ Date ____ X-Sec.
No. ____ Date ____ Notes
Notes Red. JSH Date 10-6-59 Chkd. CWH Date 10-6-59
Plotted JSH Date 10-8-59 Checked CWH Date 10-8-59
Job No. ____ Survey of ____ Survey by ____ Map No. ____
Division No. ____ Notes ____ Date ____ Index C. Jeb
F. B. ____ Pg. 1/43

F. B. 2803 PG. 144 | Job No. 03002 | Division No. 10 | Notes Red. | Plotted | Profile

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

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

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

STATION	B. S.	H. I.	F. S.	ELEV.	Adj. Depth	Remarks
# ~~Color~~	Time	~~Meas~~ Depth	Bottom ~~Tide~~			
INST. @ 171+40.32 N						
SIGHT ON N-10'						

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.

761.298 307 8-53

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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 183+39.08	Sight on 185+39.08
		16 34			DATUM MEAN LOWER LOW WATER	ASHORE 185+39.08
	14 13	15 48	4 99	11 35		
185+39.08			48	10 7	479.93	OFFSET
			45	11 0		100° R. 890 (offset included)
			54	10 1		200° R. 280
			54	10 1		300 R. 180
			35	12 0		400 R. 80
			00	15 5		470 R. 10
			43	11 2	100° L.	580
			45	11 0	200° L.	680
			39	11 6	300° L.	780
			59	9 6	400° L. Top Slope	880
	0 4	8 2	77	7 8	500° L.	980
			35	4 7	70° 00'	550 1030
			64	1 8	71 20	592 1072
			87	-0 5	72 31	635 1115
			112	-3 0	73 08	660 1140
			140	-5 8	74 02	699 1179
			160	-7 8	74 41	730 1210
			173	-9 1	75 12	757 1237

Profile Notes Red JSH Plotted JSH Job No. 0-20-02 Division No. 10 F.B. 2803 Pg. 145
No. Date 10-6-57 Date 10-8-57 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. CWH Checked CWH Survey by LWD Notes LWD Date 5-25-59
No. Date 10-6-57 Date 10-8-57 Map No. Index

F. B. 2803 Pg. 146

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

Survey of BEACH EROSION STUDIES Date 10-6-59 Date 10-8-59 No.

Survey by LIED Notes LIED Notes Chkd. CWH Checked CWH X-Sec.

Indexed J. C. Johnson Date Date 10-6-59 Date 10-8-59 No.

STATION	B.S.	H.I.	F.S.	ELEV.	
T.B.M.					
		15.48			
			2.59		
			12.89		FROM TOP OF PREVIOUS PAGE
					T.B.M. LARGE ROCK ON SOUTH SIDE OF FAIR OK NEW CONTROL LINE

76L-208 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. HORIZ. ANG ~~Tide~~	Adj. Depth	Remarks
1		6 39			90° 00		5-11'
2					"		
3					"		
4					"		479.23
5					"		
6					"		
7					"	"	
8					"	"	90°
9					"	"	185+39.08 N
10					"	"	
11					"	"	
12					"	"	
13					"	"	
14					"	"	
15					"	"	
16					"	"	
17		6 41			"	"	5-10'
18							
19							
20							

INST @ 185+39.08 N
5-11
Sight @ 5-10

Profile Notes Red. JSH Plotted JSH Job No. 63000 Division No. 16 F. B. 2553 Pg. 147
No. Date 10-6-59 Date 10-8-59 Survey of Beach Erosion Study
X-Sec. Notes Chkd. CWH Checked CWH Survey by Notes Date 10-6-59
No. Date 10-6-59 Date 10-8-59 Map No. Indexed C. Johnson

F. B. 2803 PG. 148 Job No. 030002 Division No. 10 Notes Red. _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L298 307 8-53

76L298 307 8-53

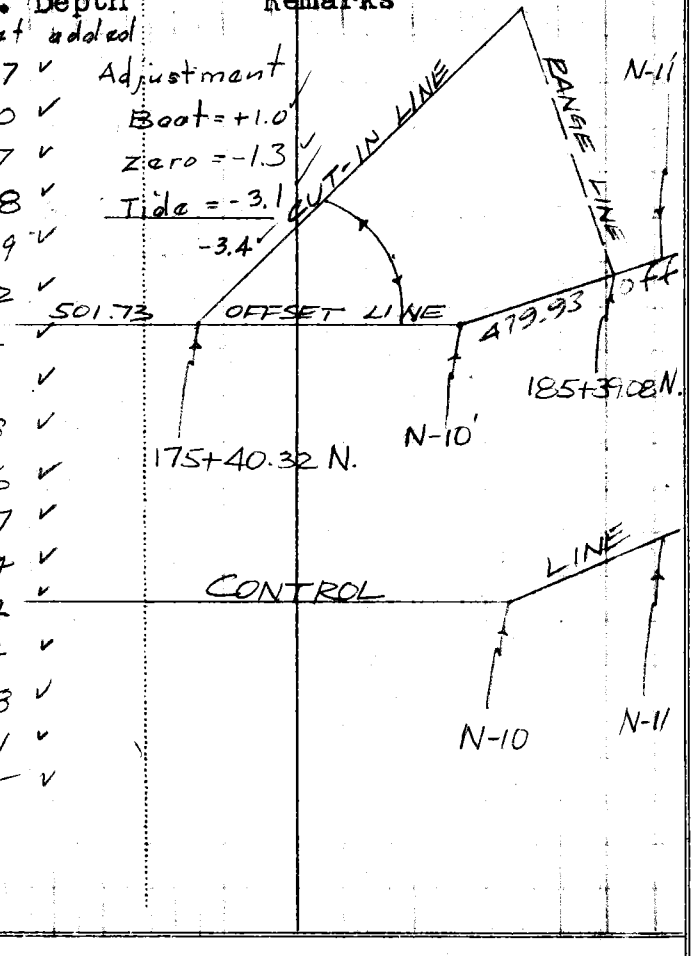
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION #	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. HOR. ANG.	Adj. Depth offset added	Remarks
1	6 39	30.3	26.9	58° 31'	2107	Adjustment
2		28.8	25.4	56° 50'	2000	Boat = +1.0
3		28.2	24.8	55° 08'	1907	Zero = -1.3
4		27.1	23.7	52° 44'	1788	Tide = -3.1
5		25.7	22.3	50° 18'	1679	-3.4
6		24.7	21.3	48° 10'	1592	
7		22.9	19.5	46° 20'	1522	
8		21.1	17.7	44° 20'	1453	
9		19.9	16.5	42° 38'	1398	
10		18.9	15.5	40° 43'	1336	
11		17.2	13.8	39° 00'	1287	
12		15.3	11.9	37° 49'	1254	
13		13.1	9.7	36° 21'	1212	
14		10.3	6.9	35° 15'	1184	
15		8.1	4.7	34° 16'	1158	
16		6.1	2.7	33° 08'	1131	
17	6 41	4.3	0.9	32° 02'	1105	

INST. @ 175+40.32 N
SIGHT ON N-10'



Profile
Notes Red. JSH Plotted JSH Job No. Division No. 10
No. Date 10-6-59 Date 10-8-59 Survey of PLEASANT EROSION STUDIES
X-Sec. Notes Chkd. CMH Checked CMH Survey by Notes Date
No. Date 10-6-59 Date 10-8-59 Map No. Index
F. B. Pg. 149

F. B. 2803 PG. 150 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

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

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

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

# ~~Center~~	Time	Meas. Depth	Bottom ~~Elev.~~	Adj. Depth	Remarks
INST @ 175+40.32 N					
SIGHT ON N-10'					

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

761298 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.

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.		
TBM	3 55	16 44		12 89	Rock in S. Groin	INSHORE
T.P.	3 68	16 52	360	12 84	DATUM MEAN LOWER LOW WATER	187+39.08
187+39.08					479.93	OFFSET

Shore section on this range not run as it is in the La Ballona Flood Control Channel

Profile No. ____ Notes Red. JSH Plotted JSH Job No. 0307.02 Division No. 10 F. B. 28073 Pg. 151
X-Sec. No. ____ Notes Chkd. CWH Checked CWH Survey by ____ Survey of Beach Erosion Notes ____ Date 6-22-58
Date 10-6-57 Date 10-8-57 Date 10-8-57 Map No. ____ Index ____ C. Johnson

F.B. 2803 Pg. 152

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

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

Survey by LIND Notes LIND 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 ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L-298 CE 307 11-58

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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. ~~Tide~~ Above Mean	Adj. Depth	Remarks
1		7 19			90' 00		N-11'
2					" "		
3					" "		429.93
4					" "		
5					" "		
6					" "		
7					" "		
8					" "		
9					" "		Line
10					" "		
11					" "		187+39.08 N
12					" "		
13					" "		
14					" "		Offset
15					" "		
16					" "		429.93
17					" "		
18					" "		
19					" "		
20					" "		N-10'

INST. @ 187+39.08
Sight @ S-11'

Line N 10+00

Profile
No. ____ Date 10-6-59 Notes Red. JSH Plotted JSH Job No. 03002 Division No. 10 F. B. 2503 Pg. 153
X-Sec. Date 10-8-59 Notes Chkd. CWH Checked CWH Survey of Beach Erosion Study
No. ____ Date 10-8-59 Map No. ____ Index ____ Survey by ____ Notes ____ Date ____

F. B. 2803 Pg. 154 | Job No. 0300.02 | Division No. 16 | Notes Red. JSH | Plotted JSH | Profile

Survey of Beach Erosion Study | Date 10-6-59 | Date 10-8-59 | No.

Survey by Uhariet | Notes Lidar | Notes Chkd. CWH | Checked CWH | X-Sec.

Indexed [redacted] | Date | Date 10-6-59 | Date 10-8-59 | No.

#	Color	Time	Rees Depth	Bottom ~~Tide~~	Elev.	Adj. Depth	Remarks
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

STATION	B. S.	H. I.	F. S.	ELEV.
INST. @ 182+39.28				
Sight @ 5-11	7.23			

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.

76L298 307 8-53

76L298 307 8-53

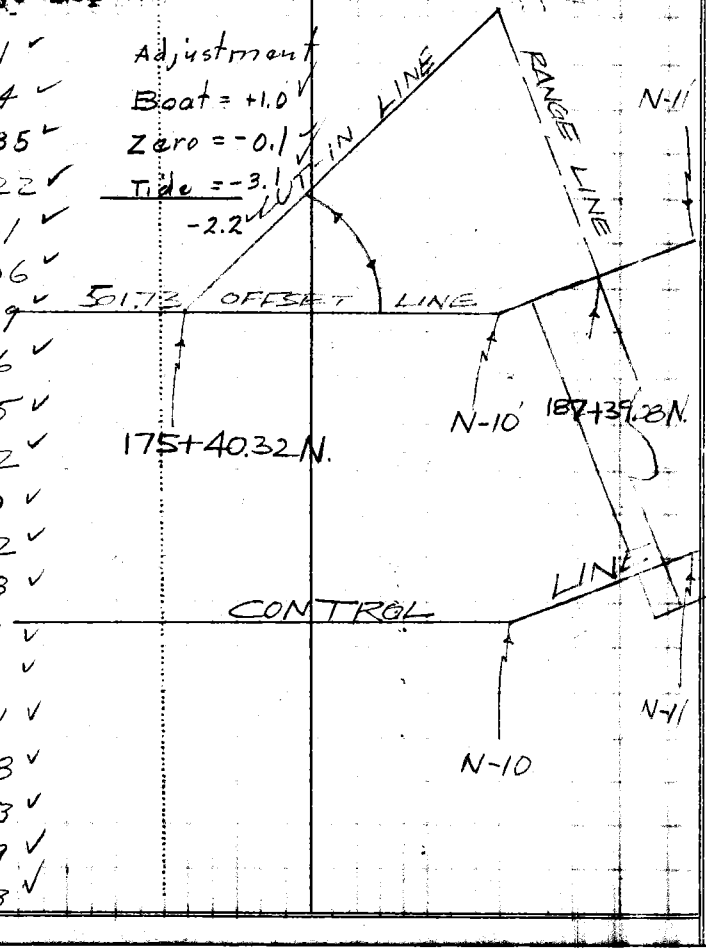
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

STATION #	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. HOR. ANG.	Adj. Depth	Remarks
1	7 19	27.1	24.9	53° 50'	2111	Adjustment
		25.8	23.6	51° 22'	1974	Boat = +1.0
		24.5	22.3	49° 42'	1885	Zero = -0.1
		23.6	21.4	48° 22'	1822	Tide = -3.1
		22.4	20.2	47° 00'	1761	-2.2
		21.5	19.3	45° 41'	1706	
		20.7	18.5	44° 22'	1649	
		20.1	17.9	43° 05'	1596	
		18.9	16.7	41° 28'	1535	
		18.2	16.0	40° 00'	1482	
		17.1	14.9	38° 30'	1430	
		16.1	13.9	37° 02'	1382	
		14.8	12.6	35° 04'	1318	
		14.2	12.0	33° 31'	1271	
		14.2	12.0	31° 24'	1209	
		14.2	12.0	29° 40'	1161	
		13.8	11.6	27° 45'	1108	
		13.3	11.1	25° 41'	1053	
		12.7	10.5	23° 05'	989	
		12.3	10.1	20° 46'	933	

INST. @ 175+40.32 N.
SIGHT ON N-10'



Profile No. ____ Notes Red. JSH Date 10-6-59 Plotted JSH Date 10-8-59 Job No. [illegible] Division No. 10
X-Sec. No. ____ Notes Chkd. CWH Date 10-6-59 Checked CWH Date 10-8-59 Survey of [illegible] Survey by ____ Map No. ____ Index ____ Notes C. Job ____ Date ____ Date ____
F. B. [illegible] Pg. 155

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. 2803 Pg. 156 Job No. 0300.02 Division No. 10 Notes Red. JSH Plotted JSH No.
Survey of BEACH EROSION STUDIES Date 10-6-59 Date 10-8-59 X-Sec.
Survey by HARRIET Notes STRIDER Notes Chkd. CWH Checked CWH
Indexed L. C. Johnson Date Date 10-6-59 Date 10-8-59 No.
Profile

STATION #	~~Center~~	Time	Meas. Depth	Bottom	HOR. ANG. ~~Tide~~	Adj. Depth	Remarks
21			11.9	9.7	17° 47'	864	Adjustment
22			11.7	9.5	15° 05'	802	Boat = +1.0
23			11.3	9.1	12° 38'	748	zero = -0.1
24			11.1	8.9	09° 57'	689	Tide = -3.1
25			11.1	8.9	07° 10'	630	-2.2
26			11.0	8.8	04° 20'	574	
27			10.9	8.7	02° 06'	523	EAST OF OFFSET LINE IN CHANNEL
28			10.8	8.6	00° 16'	472	
29			11.2	9.0	02° 13'	432	
30		7 23	11.4	9.2	04° 14'	389	

INST. @ 175+40.32 N

SIGHT ON N-10'

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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. JSH Plotted JSH Job No. ____ Division No. ____
X-Sec. No. ____ Date 10-8-59 Date 10-8-59 Survey of LEAKY REVETMENT STUDY
Notes Chkd. CWH Checked CWH Survey by ____ Notes ____ Date ____
Date 10-6-59 Date 10-8-59 Map No. ____ Index L.C. Johnson

F. B. 2803 Pg. 157

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 195+39.08		Sight on 191+39.08			
		16 52			DATUM MEAN LOWER LOW WATER		INSHORE 191+3908 N			
					474.93 offset line					
										offset included
			30	1 15			100	R.	380	
			37	1 12			1 00	R.	280	
			30	1 30			200	R.	180	
			11	1 42			400	R.	30	
			17	1 45			500	R.	-20	
			43	1 32	100 L.				580	
			26	1 21	200 L.				686	
			33	1 02	300 L.				785	
			68	1 17	330 L.	Top of bank offset added 834			810	offset added
TB	1 7	9 3	87	7 26	380 L.		F.S.	el.		
			4 6	4 7	43 52	384 864	14.7	-5.4	51 54	990
			8 1	1 2	45 56	413 893	16.6	-7.3	53 27	1020
			10 3	-1 0	47 40	439 919	.	.		
			11 2	-1 9	48 35	454 934				
			12 9	-3 6	49 56	476 956				

F. B. 2803 Pg. 158 Job No. 0300-32 Division No. 16 Notes Red. Plotted Profile

Survey of [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.

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 Los Angeles County Engineering Bldg.

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

78L-298 S & E #307—1-56

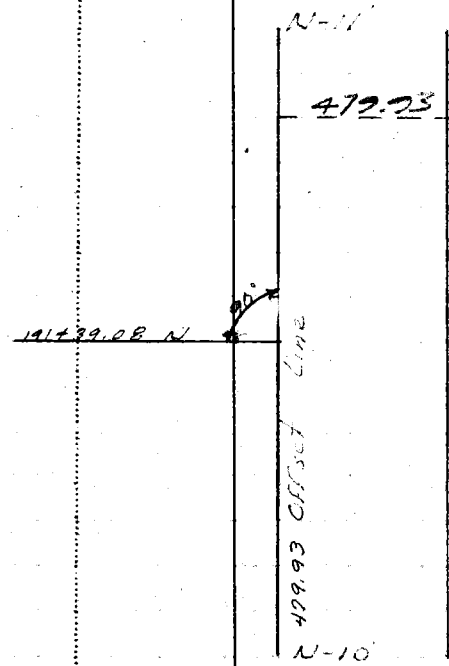
76L298 307 8-53

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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Horiz. Ang. ~~Tide~~	Adj. Depth	Remarks
1		8 57			90° 00		
2					" "		
3					" "		
4					" "		
5					" "		
6					" "		
7					" "		
8					" "		
9					" "		
10					" "		
11					" "		
12					" "		
13					" "		
14					" "		
15					" "		
16					" "		
17					" "		
18					" "		
19					" "		
20					" "		



1st @ 191+39.08 N
Sight @ N-11

Profile
Notes Red VSH Plotted JSH Job No. 63608 Division No. 10 F. B. 2803 Pg. 159
No. Date 10-6-59 Date 10-8-59 Survey of Beach Erosion Study
X-Sec. Notes Chkd. CWH Checked CWH Survey by Elliott Notes Elliott Date 8-26-59
No. Date 10-6-59 Date 10-8-59 Map No. Index C. Job type

F. B. 2803 Pg. 160 | Job No. 03000 | Division No. 10 | Notes Red. JSH | Plotted JSH | Profile

Survey of Beach Erosion Study | Date 10-6-59 | Date 10-8-59 | No.

Survey by ~~Wagner~~ Ellen | Notes | Notes Chkd. CWH | Checked CWH | X-Sec.

Indexed ~~C. Johnson~~ | Date | Date 10-6-59 | Date 10-8-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Adj. Depth	Remarks
# Color Time	Meas. Depth	Bottom ~~Tide~~ Rev. 2-4-19				
21				90 00		
22				"		
23				"		
24				"		
25				"		
INST @ 1914 39.08 N						
Sight @ 5-11'						
	9 01					

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.

STATION #	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. HORIZ.	Adj. Depth		Remarks
1	8 57	29.1	26.6	54° 32	1966	2446 (offset added)	
2		28.3	25.8	52° 47	1844	2322	
3		27.4	24.9	51° 38	1768	2248	
4		25.8	23.3	49° 17	1627	2107	
5		25.6	23.1	47° 32	1534	2014	
6		23.7 rock	21.2	45° 56	1446	1926	
7		24.2	21.7	44° 40	1383	1863	
8		23.7	21.2	42° 33	1285	1765	
9		22.8	20.3	40° 40	1203	1683	
10		22.3	19.8	38° 35	1117	1597	
11		21.0	18.5	36° 50	1049	1529	
12		19.9	17.4	34° 53	976	1456	
13		19.5	17.0	33° 32	928	1408	
14		18.6	16.1	31° 41	868	1348	
15		17.5	15.0	30° 01	809	1289	
16		16.6	14.1	28° 30	760	1240	
17		15.5	13.0	27° 21	724	1204	
18		14.5	12.0	25° 57	682	1162	
19		13.4	10.9	24° 41	644	1124	
20		12.5	10.0	23° 34	610	1090	

INST. @ 205+39.08 N
SIGHT ON N-10'

RANGE LINE
CUT-IN LINE
OFFSET LINE
CONTROL LINE
479.93
191+39.08 N.
205+39.08 N.
N-10
N-11

Adjustment
Boat = +1.0
Zero = -0.3
Tide = -3.2
-2.5

Profile
Notes Red. JSH Date 10-6-57 Plotted JSH Date 10-8-57 Job No. Division No.
X-Sec. Notes Chkd. CWH Date 10-6-57 Checked CWH Date 10-8-57 Survey of Survey by Notes Date
No. No. Map No. Index
F. B. Pg. 161

F. B. 2803 PG. 162 Job No. 0300.02 Division No. 10 Notes Red. JSH Plotted JSH Profile

Survey of BEACH EROSION STUDIES Date 10-6-59 Date 10-8-59 No.

Survey by HARRIET Notes STRADER Notes Chkd. CWH Checked CWH X-Sec.

Indexed ~~L. O. Johnson~~ Date Date 10-6-59 Date 10-8-59 No.

STATION	B. S.	H. I.	F. S.	ELEV.	Adj. Depth	Remarks
# ~~Chainer~~ Time	~~Rees~~ Depth	Bottom ~~Side~~		HOR. ANG.	offset added	
INST. @ 205+39.08 N						
SIGHT ON N-10'						
21		11.4	8.9	21	581	Adjustment
22		9.8	7.3	21	549	Boat = +1.0
23		8.3	5.8	20	519	Zero = -0.3
24		6.7	4.2	19	493	Tide = -3.2
25	9.01	5.2	2.7	18	462	-2.5

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

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	S. S.	H. I.	F. S.	ELEV.	Inst at 197+39.08	Sight on 193+39.08
		12 52			DATUM MEAN LOWER LOW WATER	INSHORE
T.P.	9 65	17 93	4 2	12 28		193+39.08 N.
193+39.08			50	12 9	479.93	OFFSET LINE ADD OFFSET
			00	12		300
			50	12		200
—			50	12		100
			33	14 4		200
			31	12 8		475
			44	13 5	100 L.	
			28	14 1	200 L.	600 L
			45	13 4	241 L. Top Slope	
T.P.	0 8	8 9	98	8 1	300 L.	730
			42	4 7	39 36	331 811
			9 2	-0 3	42 47	370
			10 4	-1 5	44 20	391 871
			12 0	-3 1	46 17	418
—			14 1	-5 2	48 30	452 922
			15 8	-6 9	50 07	479 959

Profile No. _____ Notes Red. JSH Plotted JSH Job No. _____ Division No. _____
X-Sec. No. _____ Date 10-6-59 Date 10-8-59 Survey of _____
Notes Chkd. CWH Checked CWH Survey by _____ Notes _____ Date _____
Date 10-6-59 Date 10-8-59 Map No. _____ Index C. Q. Johnson

F. B. 2803 PG. 163

F. B. 2803 Pg. 164 | Job No. 030002 | Division No. 10 | Notes Red | Plotted | Profile

Survey of BEACH & [illegible] STREETS | 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.

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L-298 S & E #307—1-56

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.		
# Color	Time	Meas. Depth	Bottom	~~Tide~~ HORIZ ANG	Adj. Depth	Remarks
1	9 11			90°		
2				" "		N-11'
3				" "		
4				" "		479.93
5				" "		
6				" "		
7				" "		
8				" "		90
9				" "		193+39.08 N
10				" "		
11				" "		
12				" "		
13				" "		
14				" "		
15				" "		
16				" "		
17				" "		N-10'
18				" "		
19				" "		
20				" "		

INST @ 195+53.08 N

Sight @ N-11'

479.93 offset line

Profile Notes Red VSH Plotted VSH Job No. 23000 Division No. 10 F. B. 2803 Pg. 165

No. Date 10-6-59 Date 10-8-59 Survey of Bryant Erosion Study

X-Sec. Notes Chkd. CWH Checked CWH Survey by [illegible] Notes [illegible] Date 8-26-59

No. Date 10-6-59 Date 10-8-59 Map No. Index [illegible]

F. B. 2803 PG. 166 Job No. 030902 Division No. 10 Notes Red. JSH Plotted JSH Profile

Survey of Beach Erosion Study Date 10-6-59 Date 10-8-59 No.

Survey by Chamnet Notes Ellen Notes Chkd. CWH Checked CWH X-Sec.

Indexed J. C. Johnson Date Date 10-6-59 Date 10-8-59 No.

STATION	B. S.	H. I.	F. S.	ELEV.	Adj. Depth	Remarks
# Color Time Meas Depth Bottom ~~Tide~~						
21						
22						
23						
inst @ 193+39.02N						
sight @ N-11						
	9.15					
				90.00		

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.

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. JSH Plotted JSH Job No. ____ Division No. ____ F. B. ____ Pg. 167
X-Sec. No. ____ Date 10-6-59 Date 10-8-59 Survey at ____
Notes Chkd. CHH Checked CHH Survey by ____ Notes ____
Date 10-6-59 Date 10-8-59 Map No. ____ Indexed ____ Date ____

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. HOR. ANG.	Adj. Depth	ADD OFFSET	Remarks
1		9 11	28.7	26.2	57° 11'	1861	2341	Adjustment
2			27.9	25.4	55° 35'	1752	2232	Boat = +1.0
3			27.1	24.6	54° 00'	1651	2131	Zero = -0.3
4			26.7	24.2	52° 40'	1554	2034	Tide = -3.2 -11
5			26.2	23.7	51° 03'	1484	1964	-2.5
6			25.7	23.2	49° 20'	1397	1877	
7			25.0	22.5	47° 23'	1304	(479.93 1784	RANGE LINE; CUT-IN LINE; OFFSET LINE)
8			24.4	21.9	45° 48'	1234	1714	
9			24.0	21.5	43° 42'	1147	1627	
10			22.8	20.3	41° 13'	1051 (N-10)	1531	193+39.08 N. 205+39.08 N
11			22.2	19.7	39° 00'	972	1452	
12			21.3	18.8	36° 38'	893	1373	
13			19.9	17.4	34° 12'	816	1296	
14			18.7	16.2	31° 58'	749	1229	CONTROL LINE
15			17.2	14.7	29° 47'	686	1166	
16			16.3	13.8	27° 52'	635	1115	
17			15.4	12.9	26° 15'	592 (N-10)	1072	
18			14.1	11.6	25° 08'	563	1043	N-11
19			12.1	9.6	23° 54'	532	1012	
20			9.9	7.4	22° 33'	498	978	

INST. @ 205+39.08 N
SIGHT ON N-10'

F. B. 2803 PG. 168 Job No. 0300.08 Division No. 10 Notes Red. JSH Plotted JSH Profile

Survey of BEACH EROSION STUDIES Date 10-6-59 Date 10-8-59 No.

Survey by OHARRIET Notes STRADER Notes Chkd. CWH Checked CWH X-Sec.

Indexed [redacted] C. Johnson Date 10-6-59 Date 10-8-59 No.

STATION	B. S.	H. I.	F. S.	ELEV.	Adj. Depth (ADD OFFSET)	Remarks
# ~~Order~~ Time	Meas. Depth		Bottom ~~Time~~	HOR. ANG.		
21	8.7		6.2	21 43	478 958	Adjustment
22	7.2		4.7	20 31	451 931	Boat = +1.0
22	6.0		3.5	19 44	431 911	Zero = -0.3
						Tide = -3.2
						-2.5
INST. @ 205+39.08 N						
SIGHT ON N-10'						

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

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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 197+39.08	Sight on 195+39.08	
					DATUM MEAN LOWER LOW WATER	INSHORE 195+39.08	
TP			502	12 9			
195+39.08			47	12 4		OFFSET	ADD OFFSET
			46	13 4		100 R.	38 L
			45	13 8		200 "	28 L
			40	14 5		300 "	18 L
—			32	15 1		400 "	8 L
			33	14 0		425 R.	5 L
			41	13 6	100 R.		58 L
			47	13 1	200 "		68 L
			45	13 5	221 "		70 L
			30	16 3	240 "	100 Slope	72 L
TP	23	9 6	110	13 3	225 "		74 L
			4 9	4 7	56° 48'	306	78
			8 8	0 8	59 02	333	81
			11 3	-1 7	61 25	367	84
			12 9	-3 3	63 26	400	88
—			14 8	-5 2	65 09	432	91
			17 2	-7 6	67 02	472	95

Profile Notes Red. JSH Plotted JSH Job No. Division No.
No. Date 10-6-59 Date 10-8-59 Survey of
X-Sec. Notes Chkd. CHW Checked Survey by Notes
No. Date 10-6-59 Date 10-8-59 Map No. Indexed C. Johnson Date Date

F. B. 2503 PG. 169

F. B. 2803 Pg. 170 | Job No. 0300.02 | Division No. 10 | Notes Red | Plotted | Profile

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

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

Indexed | Date | Date | Date | No.

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

Do not extend notes this side of this line.

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 Los Angeles County Engineering Bldg.

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-288 S & E #307—1-56

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 #	Color	S. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV Horiz Angl ~~Tide~~	Adj. Depth	Remarks
1		9 26			90 00		
2					" "		
3					" "		479.93
4					" "		
5					" "		
6					" "		
7					" "		
8	INST @ 195+39.08 N				" "	195+39.08 N	90 Control Line
9					" "		
10					" "		
11					" "		
12					" "		
13					" "		479.93 Offset Line
14					" "		
15					" "		
16	Sight @ N-11'				" "		
17					" "		
18					" "		
19					" "		
20					" "		

Profile No. ____ Notes Red. JSH Plotted JSH Job No. 1966-02 Division No. 16 F. B. 2833 Pg. 71
X-Sec. No. ____ Date 10-6-59 Date 10-8-59 Survey of Beach Erosion Study
Notes Chkd CWH Checked CWH Survey by Whittel Note Chkd Date 10-6-59
Date 10-6-59 Date 10-8-59 Map No. ____ Indexed ____ Date ____

F. B. 2803 PG. 172 | Job No. 0300-02 Division No. 10 Notes Red. JSH Plotted JSH Profile

Survey of Beach Erosion Study Date 10-6-59 Date 10-8-59 No.

Survey by Wharrel Notes Liden Notes Chkd. CWH Checked CWH X-Sec.

Indexed A. C. Johnson Date Date 10-6-59 Date 10-8-59 No.

#	Color	Time	Rod Depth	Bottom Side	Adj. Depth	Remarks
21						
22						
23						
24						
25						
26						
	INST @ 195+39.08 N					
	Sight @ 5-11'					
		9 29				

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

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
# ~~Color~~	Time	Meas. Depth	Bottom ~~Time~~	HOR. ANG.	Adj. Depth	ADD OFFSET		
	926	31.3	28.8	65° 20'	2178	2658		Adjustment
		30.0	27.5	63° 55'	2043	2523		Boat = +1.0
		29.3	26.8	62° 19'	1906	2386		Zero = -0.3
		28.5	26.0	61° 18'	1827	2307		Tide = -3.2 N-11
		27.9	25.4	60° 03'	1736	2216		-2.5
		27.4	24.9	58° 50'	1653	2133		
		27.0	24.5	57° 18'	1558	2038		479.93 OFFSET LINE
		26.5	24.0	55° 30'	1455	1935		
		25.9	23.4	53° 47'	1366 N-10	1846		195+39.08 N.
		25.1	22.6	51° 44'	1268	1748		205+39.08 N.
		24.4	21.9	49° 05'	1154	1634		
		23.9	21.4	46° 58'	1071	1551		
		23.0	20.5	44° 20'	977	1457		
		22.1	19.6	41° 30'	885	1365		
		20.7	18.2	38° 31'	796	1276		CONTROL LINE
		18.9	16.4	36° 22'	736	1216		
		17.7	15.2	34° 21'	683	1163		
		16.6	14.1	32° 09'	629 (N-10)	1109		
		15.1	12.6	30° 05'	579	1059		N-11
		15.2	12.7	28° 10'	535	1015		

RANGE LINE

CUT-IN LINE

INST. @ 205+39.08 N

SIGHT ON N-10'

Profile No. ____ Notes Red JSH Plotted JSH Job No. ____ Division No. 12 F. B. ____
Date 10-6-59 Date 10-8-59 Survey of ____
X-Sec. No. ____ Notes Chkd CWH Checked CWH Survey by ____ Notes by ____ Date ____
Date 10-6-59 Date 10-8-59 Map No. ____ Indexed ____ Date ____

Pg. 1/13

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. 2803 PG. 174 Job No. 03002 Division No. 10 Notes Red. JSH Plotted JSH
Survey of BEACH EROSION STUDIES Date 10-6-59 Date 10-8-59 No. X-Sec.
Survey by CHARRIET Notes STRADER Notes Chkd. CWH Checked CWH
Indexed K. C. Johnson Date Date 10-6-59 Date 10-8-59 No. Profile

STATION # ~~Gauge~~	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. HOR. ANG. ~~Tide~~	Adj. Depth	Adj. Depth ADD OFFSET	Remarks
21		11.9	9.4	26° 38'	501	981	Adjustment
22		10.2	7.7	25° 07'	469	949	Boat = +1.0
23		8.7	6.2	23° 56'	444	924	Zero = -0.3
24		7.5	5.0	22° 30'	414	894	Tide = -3.2
25		6.2	3.7	21° 32'	395	875	-2.5
26	9 29	4.6	2.1	20° 26'	373	853	

INST. @ 2057+29.08
SIGHT ON N-10'

76L-298 S &E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Profile No. ____ X-Sec. No. ____ Notes Red. JSH Date 10-6-59 Notes Chkd. CWH Date 10-6-59 Plotted JSH Date 10-8-59 Checked CWH Date 10-8-59 Job No. ____ Survey of ____ Survey by ____ Map No. ____ Division No. ____ Notes ____ Index ____ Date ____ F. B. 2503 Pg. 175

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 199+39.08	Sight on 197+39.08	
		16 28			DATUM MEAN LOWER LOW WATER	Inshore	
TP	8 20	23 52	2 96	15 32		197+39.08 N.	
197+39.08			5 2	18 3	479.43 OFFSET	LINE	ADD OFFSET
			5 2	17 9		100 R	380 L
			5 2	18 3		200 "	280 L
			6 4	17 1		300 "	180 L
			6 0	17 5		400 "	80 L
			6 0	17 5		500 "	42 L
			6 0	17 5	100 L		58 L
			6 4	17 1	210 L		690 L
			7 3	16 2	230 L Top Bank		710 L
	0 4	9 9	14 0	9 5	270 L		770 L
			5 2	4 7	59° 09'	335	815
			9 4	0 5	61 50	374	854
			12 1	-2 2	64 17	415	895
			13 8	-3 9	65 48	445	925
			15 7	-5 8	67 04	473	953
			16 4	-6 5	68 19	503	983

F. B. 2803 Pg. 176 | Job No. 6300.02 Division No. 10 Notes Red ____ Plotted ____ Profile

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

Survey by LINB Notes LINB 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 ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L-298 S & E #307—1-56

76L298 307 8-53

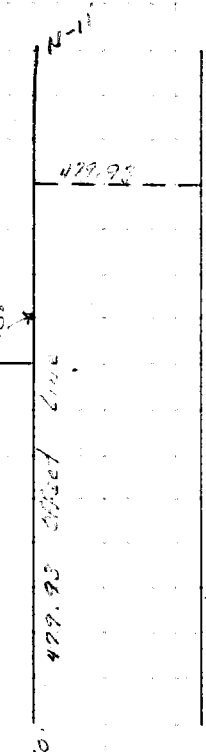
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Hor. Axis ~~Tide~~	Adj. Depth	Remarks
1		9 37			90 00		
2					" "		
3					" "		
4					" "		
5					" "		
6					" "		
7					" "		
8					" "		197+39.08 N
9					" "		
10					" "		
11					" "		
12					" "		
13					" "		
14					" "		
15					" "		
16					" "		
17					" "		
18					" "		
19					" "		
20					" "		
21					" "		
22					" "		
23					" "		
24					" "		
25					" "		

INST @ 197+39.08 N
Sight @ N-11



Profile No. ____ Notes Red JSH Date 10-6-59 Plotted JSH Date 10-8-59 Job No. 0300 Division No. 16 F. B. 2803 Pg. 177
X-Sec. No. ____ Notes Chkd. CWH Date 10-6-59 Checked CWH Date 10-8-59 Survey of Beach Erosion Study Survey by [redacted] Date [redacted] Map No. ____ Indexed ____ Date ____

F. B. 2803 Pg. 178 | Job No. 030002 | Division No. 10 | Notes Red. JSH | Plotted JSH | Profile

Survey of Beach Erosion Study | Date 10-6-59 | Date 10-8-59 | No.

Survey by Harriet | Notes Lidar | Notes Chkd. CWH | Checked CWH | X-Sec.

Indexed K. C. Johnson | Date | Date 10-6-59 | Date 10-8-59 | No.

#	Color	Time	Meas. Depth	Bottom ~~Pick~~	ELEV.	Adj. Depth	Remarks
21					90 00		
22					"		
23					"		
24					"		
25					"		
26					"		
27					"		
28					"		
29		9 41			"		
30		9 48			"		
31					"		
32					"		
33					"		
34					"		
35					"		
36					"		
37					"		
38					"		
39					"		
40					"		

INST @ 197+39.08 N

Sight @ N-11'

STATION | B. S. | H. I. | F. S.

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.

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.		
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
41							
42							197+39.08 Cont. from other page.
43							
44							
45		9 50					

Inst @ 197+39.08 ↗
Sight @ N-11'

Profile No. ____ Notes Red. JSH Plotted JSH Job No. 43626 Division No. 10 F. B. 2803 PG. 179
X-Sec. No. ____ Date 10-6-59 Date 10-8-59 Survey of Beach Erosion Study
Notes Chkd. EWH Checked CWH Survey by Wheeler Notes Lifted Date 8-26-59
Date 10-6-59 Date 10-8-59 Map No. ____ Indexed ____ Date ____

F. B. 2803 PG. 180 | Job No. 0300.03 | Division No. 10 | Notes Red. | Plotted | Profile

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

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

Indexed | 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.		
# Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks

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. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Hor. Ang.	Adj. Depth	Adj. Depth ADD OFFSET	Remarks
1	9 37	31.9	29.4	65° 16'	2171	2651	
2		30.8	28.3	63° 58'	2047	2527	
3		29.7	27.2	62° 32'	1925	2405	
4		29.2	26.7	61° 17'	1825	2305	
5		28.5	26.0	60° 00'	1732	2212	
6		28.0	25.5	59° 00'	1664	2144	
7		27.5	25.0	57° 54'	1594	2074	
8		26.8	24.3	56° 11'	1493	1973	
9		26.1	23.6	54° 26'	1399 (N-10)	1879	197+39.08 N
10		25.8	23.3	53° 05'	1331	1811	
11		25.3	22.8	51° 38'	1263	1743	
12		24.8	22.3	50° 00'	1192	1672	
13		24.3	21.8	48° 28'	1129	1609	
14		24.0	21.5	46° 50'	1066	1546	
15		23.6	21.1	45° 06'	1004	1484	
16		23.0	20.5	43° 15'	941	1421	
17		22.4	19.9	41° 00'	869 (N-10)	1349	
18		20.8	18.3	38° 54'	807	1287	
19		18.7	16.2	36° 26'	738	1218	
20		17.3	14.8	34° 37'	690	1170	

INST. @ 207+39.08 N
SIGHT ON N-10'

RANGE LINE
CUT-IN LINE
(479.93 OFFSET LINE)
CONTROL LINE
207+39.08 N
N-11

Adjustment
Boat = +1.0
Zero = -0.2
Tide = -3.3
-2.5

Profile No. ____ Notes Red. JSH Plotted JSH Job No. 6200.5 Division No. 10 F. B. 2000 Pg. 181
X-Sec. No. ____ Date 10-6-59 Date 10-8-59 Date ____ Map No. ____ Indexed ____ Date ____
Notes Chkd. CWM Checked CWM Survey of RAILROAD STUDIES
Date 10-6-59 Survey by ____ Notes ____

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

Do not extend notes this side of this line.

F. B. 2803 Pg. 182 Job No. 030082 Division No. 10 Notes Red. JSH Plotted JSH
Survey of BEACH EROSION STUDIES Date 10-6-59 Date 10-8-59 No. Profile
Survey by HARRIET Notes STENDER Notes Chkd. CWH Checked CWH
Indexed K. C. Johnson Date Date 10-6-59 Date 10-8-59 No. X-Sec.

STATION #	Number	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. HOR. ANG.	Adj. Depth	ADD OFFSET	Remarks
21			16.1	13.6	33 17	656	1136	Adjustment
22			14.9	12.4	31 39	616	1096	Boat = +1.0
23								? Zero = -0.2
24								Tide = -3.3
25			11.0	8.5	27 17	516	996	-2.5
26								
27								
28								
29		9 41						
30	INST. @ 205+39.08 N	9 48	23.6	21.1	45 28	1016	1496	
31			23.2	20.7	43 55	963	1443	
32	SIGHT ON N-10'		22.7	20.2	42 05	905	1385	
33			21.5	19.0	39 05	812	1292	
34			19.3	16.8	37 05	756	1236	
35			17.5	15.0	35 08	704	1184	
36			16.3	13.8	33 22	660	1140	
37			14.9	12.4	32 08	625	1105	
38			13.8	11.3	30 51	589	1069	
39			12.7	10.2	29 12	559	1039	
40			11.5	9.0	28 08	535	1015	

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.			
# [redacted]	Time	Meas. Depth	Bottom [redacted]	Horz. Ang.	Adj. Depth	ADD OFFSET	Remarks
41		10.2	7.7	26° 47'	505	985	Adjustment
42		8.6	6.1	25° 17'	472	952	Boat = +1.0
43		6.9	4.4	23° 56'	444	924	Zero = -0.2
44		5.7	3.2	22° 32'	415	895	Tide = -3.3
45	9 50	—		20° 21'	371	851	-2.5
INST. @ 20E+39.08 N							CONTINUATION OF RANGE 197+39.08 N
SIGHT ON N-10							

Profile No. ____ Notes Red. JSH Plotted JSH Job No. 0200.05 Division No. 10 F. B. 2603 Pg. 183
X-Sec. No. ____ Date 10-6-59 Date 10-8-59 Survey of PERCY & BOSTON STUDIES
Notes Chkd. CWH Checked CWH Survey by [illegible] Notes [illegible] Date [illegible]
Date 10-6-59 Date 10-8-59 Map No. ____ Indexed [illegible] Date

F. B. 2803 PG. 184 Job No. 0300.05 Division No. 10 Notes Red. _____ Plotted _____ Profile

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

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

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

STATION	B. S.	H. I.	F. S.	ELEV.	Adj. Depth	Remarks
INST. @ 205+39.08 N						
SIGHT ON N-10'						

~~Order~~ Time ~~Meas.~~ Depth Bottom ~~Elev.~~ VE ENG.

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.

761.298 307 8-53

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.		
						INSHORE 199+39.08 N
BM	5.11	19.09		14.15		

Offshore and inshore sections of this range not run as it is on the north jetty of harbor entrance

Profile No. ____ Notes Red. JSH Plotted JSH Job No. ____ Division No. ____ F. B. 2235 Pg. 185
X-Sec. No. ____ Date 10-6-59 Date 10-8-59 Survey of BEACH EROSION STUDIES
Notes Chkd. ____ Checked CWH Survey by ____ Notes ____ Date ____
Date 10-6-59 Date 10-8-59 Map No. ____ Index C. Johnson

F. B. 2803 Pg. 186 Job No. 6300.02 Division No. 10 Notes Red ____ Plotted ____ Profile

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

Survey by — Notes — Notes Chkd. ____ Checked ____ X-Sec.

Indexed ____ Date ____ Date ____ Date ____ No. ____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L-298 S & E #307—1-56

Notes Ck'd by	Survey of
Map No.	JN Tape Std of
Office Work JSH	Surveyed by
Checked CWH	Notes Date
Date 9-3-59	Indexed

F. B. PG.

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

763098 CE #247 7-58

F. B. 2803 Pg. 187A

TIDES 8-27-59

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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 JSH	Survey of Beach Erosion Study	F. B. 2803	PG. 187
Map No.	IN 0300.02 Tape Std °F		
Office Work	Surveyed by L. Harriet		
Checked	Notes Elev. Date 8-27-59		
Date 9-3-59	Indexed 8-28-59		

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

763095 CE #247—7-59

8-27-59

2.8 ~~3.0~~ on datum line of tide gauge

Gauge time (P.S.T) – 10:43

Watch time (P.S.T) – 10:43

Standard Time	Gauge Reading	
5:00	~~+3.7~~	+3.5
5:30	~~+3.8~~	+3.6
6:00	~~+3.9~~	+3.7
6:30	~~+3.9~~	+3.7
7:00	~~+3.8~~	+3.6
7:30	~~+3.8~~	+3.6
8:00	~~+3.8~~	+3.6
8:30	~~+3.6~~	+3.4
9:00	~~+3.5~~	+3.3
9:30	~~+3.4~~	+3.2
10:00	~~+3.5~~	+3.3

F. B. 2803 PG. 188

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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 205+39.08	Sight on 201+39.08	
		19.09			DATUM MEAN LOWER LOW WATER	1 HSHONE 201+39.08 R.	
TP							
204+31.01			27	14	77.93	OFFSET LINE	ADD OFFSET
			28	14.3		100 R.	380 L
			29	14.2		200 "	280 L
			30	14.2		300 "	180 L
			31	14.4		400 "	80 L
			44	14.7		470 "	10 L
			47	14.2	4.		580 L
			75	13	"		690 L
			75	12	228 "		708 L
TP	01	75	117	12	253 "		733 L
			28	47	35° 10'	282	762
			72	03	38 99	322	802
			90	-15	41 54	359	839
			100	-25	43 28	379	859
			111	-36	45 35	409	889
			120	-45	47 19	434	914
			128	-53	48 38	454	934
			137	-62	50 30	485	965

Profile Notes Red. JSH Plotted JSH Job No. Division No.
No. X-Sec. Date 10-6-59 Date 10-8-59 Survey of
Notes Chkd. CMH Checked CMH Survey by Notes Date
No. Date 10-6-59 Date 10-8-59 Map No. Index C. Johnson

F. B. 2500 Pg. 159

F. B. 2803 Pg. 190 | Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by LHD Notes LHD 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.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L-298 S & E #307—1-56

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

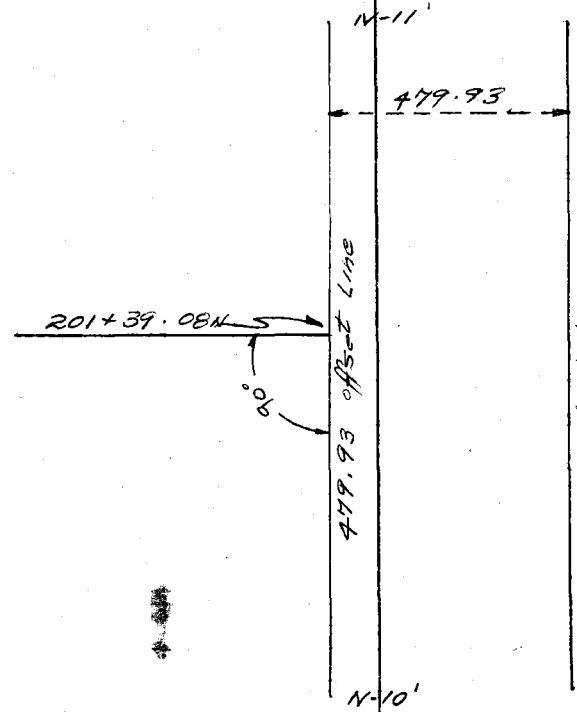
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile No. ___ X-Sec. ___ Notes Red. JSH Plotted JSH Job No. 030002 Division No. 10
Date 10-6-59 Date 10-8-59 Survey of Beach Erosion Study
Notes Chkd. CWH Checked CWH Survey by Chappuis Notes Ella Date 8-27-59
No. ___ Date 10-6-59 Date 10-8-59 Map No. ___ Inspector J. C. Johnson

F.B. 2803 Pg. 19

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
201+39.08 N	N-11'	1		6:37	90° 00	
		2			" "	
		3			" "	
		4			" "	
		5			" "	
		6			" "	
		7			" "	
		8			" "	
		9			" "	201+39.08N
		10			" "	
		11			" "	
		12			" "	
		13			" "	
		14			" "	
		15			" "	
		16			" "	
		17			" "	
		18			" "	
		19			" "	
		20			" "	



76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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. 2803 Pg. 192 Job No. 03002 Division No. 10 Notes Red JSH Plotted JSH
Survey of Beach Erosion Study Date 10-6-59 Date 10-8-59 No. X-Sec.
Survey by Leonard Notes EKeh Notes Chkd. CWH Checked CWH
Indexed A. C. Johnson Date Date 10-6-59 Date 10-8-59 No. Profile

STATION		B.S.	H.I.	F.S.	ELEV		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
		21			90°00		
		22			" "		
		23			" "		
		24			" "		
		25			" "		
		26			" "		
		27			" "		
		28			" "		
201+39.08 N	N-11'	29		6.41	" "		

76L-298 CE 307 11-58

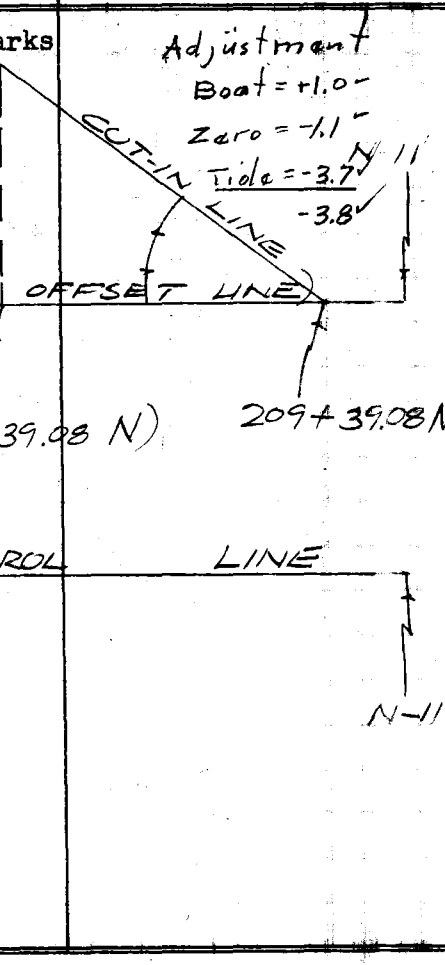
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Profile No. ____ X-Sec. No. ____ Notes Red JSH Plotted JSH Job No. 08000 Division No. 10
Date 10-6-59 Date 10-8-59 Survey of BEACH EROSION STUDIES
Notes Chkd. CWH Checked CWH Survey by LARRIE Notes K.L.S. Date 8-27-59
Date 10-5-59 Date 10-8-59 Map No. Intake C. Jaquith F.B. 2803 Pg. 193

STATION Inst. At	Sight On	#	B.S. Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.		ADD OFFSET	Remarks
209+39.08 N	N-10'	1	30.4	26.6	6 37	65° 22'	1745	2225	
		2	30.0	26.2		63° 54'	1633	2113	
		3	29.7	25.9		62° 30'	1537	2017	
		4	29.1	25.3		61° 01'	1444	1924	
		5	28.1	24.3		59° 28'	1356	1836	
		6	27.3	23.5		58° 10'	1289	1769	
		7	26.9	23.1		56° 43'	1218	1698	
		8	26.1	22.3		54° 54'	1138	1618	
		9	25.9	22.1		53° 34'	1084 (N-10)	1564 (201+39.08 N)	
		10	25.6	21.8		51° 36'	1010	1490	
		11	25.2	21.4		50° 02'	954	1434	
		12	24.8	21.0		48° 15'	896	1376	
		13	23.7	19.9		46° 05'	831	1311	
		14	22.0	18.2		43° 58'	772	1252	
		15	20.0	16.2		42° 30'	733 (N-10)	1213	
		16	18.2	14.4		41° 00'	695	1175	
		17	16.2	12.4		40° 00'	671	1151	
		18	15.3	11.5		38° 51'	644	1124	
		19	14.1	10.3		38° 00'	625	1105	
		20	13.6	9.8		36° 58'	602	1085	



76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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. 2803 Pg. 134 Job No. 8300.02 Division No. 10 Notes Red JSH Plotted JSH Profile No.
Survey of BEACH EROSION STUDIES Date 10-6-59 Date 10-8-59 X-Sec. No.
Survey by HARRIET Notes STRADER Notes Chkd. CWH Checked CWH
Indexed J. C. Johnson Date Date 10-6-59 Date 10-8-59

STATION		B.S.	H.I.		F.S.	ELEV.			
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		ADD OFFSET	Remarks
		21	13.1	9.3		35°41'	574	1054	Adjustment
		22	12.2	8.4		34°32'	550	1030	Boat = +1.0
		23	11.8	8.0		33°35'	531	1011	Zero = -1.1
		24	10.9	7.1		32°23'	510	990	Tide = -3.7
		25	10.6	6.8		31°26'	489	969	-3.8
209+39.08 N		26	9.7	5.9		30°08'	464	944	
		27	9.1	5.3		29°08'	446	926	
		28	8.3	4.5		27°56'	424	904	
	N-10'	29	8.0	4.2	6 41	26°48'	404	884	

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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. B.	ELEV.	Inst. at 205+39.08	Sight on 203+39.08
		19 07			DATUM MEAN LOWER LOW WATER	INSHORE 203+39.08 N
TP	496	19 75	430	14 74		
203+39.08 N			48	15 6		ADD OFFSET
			53	12 5	100 R.	380 L
			69	12 9	200 R.	290 L
			45	15 3	300 R.	180 L
—			45	15 3	400 R.	80 L
			45	15 3	410 R.	70 L
			46	15 2	100 L	580 L
			73	12 5	154 L. Top Slope	614 L
TP	13	9 8	113	8 5	137 L.	667 L
			51	4 7	47° 15'	216 ✓ 6 6 ✓
			99	−0 1	51 19	250 ✓ 7 0 ✓
			118	−2 0	55 00	286 ✓ 7 6 ✓
			130	−3 2	57 40	316 ✓ 7 6 ✓
			142	−4 4	59 50	344 ✓ 8 4 ✓
			151	−5 3	61 20	366 ✓ 8 6 ✓
—			160	−6 2	63 06	394 ✓ 8 4 ✓

Profile No. ____ Notes Red. JSH Plotted JSH Job No. ____ Division No. ____
X-Sec. No. ____ Date 10-6-59 Date 10-8-59 Survey of ____
Notes Chkd. CWH Checked CWH Survey by ____
Date 10-6-59 Date 10-8-59 Map No. ____ Indexed ____ Notes C. Johnson Date ____ Date ____

F. B. 2823 Pg. 195

F. B. 2803 Pg. 196 | Job No. 030012 | Division No. 10 | Notes Red | Plotted | Profile

Survey of [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.

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L-298 S & E #307—1-56

76L-296 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

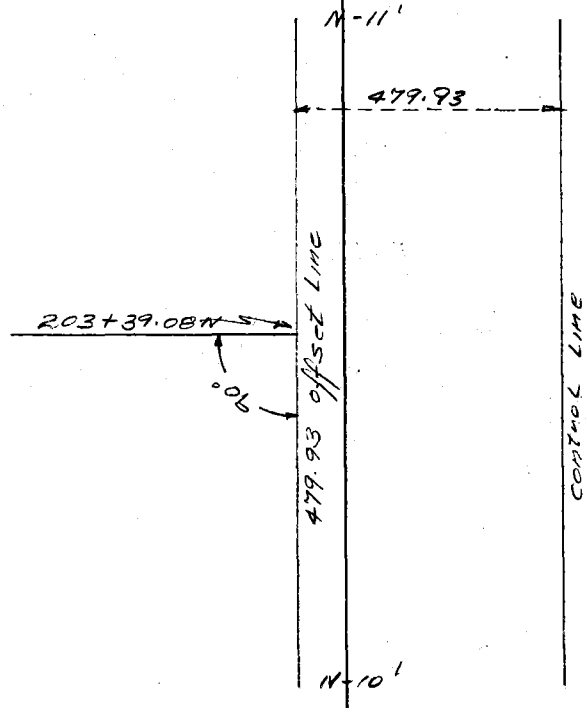
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile No. ____ Notes Red. JSH Plotted JSH Job No. 03000 Division No. 10
X-Sec. No. ____ Date 10-6-59 Date 10-8-59 Survey of Beach Erosion Study
Notes Chkd. CWH Checked CWH Survey by Whitnich & Co. Notes Chkd. Date A-24-59
Date 10-6-59 Date 10-8-59 Map No. ____ Indexed ____ Date ____

F.B. 2803 Pg. 197

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
203+39.08 N	N-11'	1		6:47	90°00	
		2			" "	
		3			" "	
		4			" "	
		5			" "	
		6			" "	
		7			" "	
		8			" "	
		9			" "	203+39.08 N
		10			" "	
		11			" "	
		12			" "	
		13			" "	
		14			" "	
		15			" "	
		16			" "	
		17			" "	
		18			" "	
		19			" "	
		20			" "	



F.B. 2803 Pg. 198

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

Survey of Beach Erosion Study Date 10-6-59 Date 10-8-59 No.

Survey by Hannet Notes Ellen Notes Chkd. CWH Checked CWH X-Sec.

Indexed C. Johnson Date Date 10-6-59 Date 10-8-59 No.

STATION	B.S.	H.I.	F.S.	ELEV	Remarks
Inst. At 203+39.08 N	Sight On N-11'				
	# 21	Depth Rec. Adj.	Time	Hor. Ang. 90° 00	
	22			"	
	23			"	
	24			"	
	25			"	
	26			"	
	27			"	
	28			"	
	29			"	
	30			"	
	31			"	
	32			"	
	33		6.52	"	

Do not extend notes this side of this line.

761-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Profile No. ____ X-Sec. No. ____
Notes Red JSH Plotted JSH Job No. 03000 Division No. 10
Date 10-6-59 Date 10-8-59 Survey of BEACH EROSION STUDIES
Notes Chkd. CWH Checked WH Survey by ALBERT Notes R.L.S. Date 4-27-59
Date 10-6-59 Date 10-8-59 Map No. ____ Tracing C. Johnson
F.B. 2803 Pg. 199

STATION Inst. At	Sight On	#	B.S. Depth Rec.	B.S. Depth Adj.	H.I.	F.S. Time	ELEV. Hor. Ang.		ADD OFFSET	Remarks	Adjustment
		1	32.3	28.5		6 48	72° 45'	1933	2413		Boat = +1.0
		2	31.3	27.5			71° 59'	1845	2325		Zero = -1.1 N-11
		3	30.8	27.0			71° 11'	1761	2241		Tide = -3.7
		4	30.3	26.5			70° 00'	1649	2129		-3.8
		5	29.5	25.7			68° 48'	1547	2027		
		6	29.0	25.2			67° 43'	1464	1944 (470.73)		
		7	28.9	25.1			66° 39'	1390	1870		
		8	27.8	24.0			65° 10'	1297	1777		
		9	27.3	23.5			63° 30'	1204 (N-10)	1684	203+39.08 N	209+39.08 N
		10	26.6	22.8			61° 32'	1106	1586		
		11	26.2	22.4			59° 33'	1021	1501		
		12	26.0	22.2			57° 36'	946	1426		
		13	25.5	21.7			55° 29'	872	1352		
		14	25.1	21.3			53° 26'	809	1289		
		15	24.2	20.4			51° 28'	754	1234		
		16	22.8	19.0			49° 45'	709 (N-10)	1189		
		17	21.6	17.8			48° 38'	682	1162		
		18	20.7	16.9			47° 35'	657	1137		
		19	19.5	15.7			46° 36'	635	1115		
		20	18.4	14.6			45° 52'	619	1099		

209+39.08 N

N-10

KINGE LINE

CUT-IN LINE

OFFSET LINE

CONTROL LINE

N-11

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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. 2803 PG 200 Job No. 0300.06 Division No. 10 Notes Red 1514 Plotted 1514
Survey of BEACH EROSION STUDIES Date 10-6-59 Date 10-8-59 No. Profile
Survey by HARRIET Notes STRADER Notes Chkd. CWH Checked CWH No. X-Sec.
Indexed L. C. Johnson Date Date 10-6-59 Date 10-8-59

STATION		B.S.	H.I.		F.S.	ELEV.			
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		ADD OFFSET	Remarks
209+39.08 N.	N-10'	21	17.0	13.2		44°29'	589	1069	Adjustment
		22	15.9	12.1		43°26'	568	1048	Boat = +1.0
		23	15.0	11.2		42°06'	542	1022	Zero = -1.1
		24	14.0	10.2		40°58'	521	1001	Tide = -3.7
		25	13.3	9.5		39°37'	497	977	-3.8
		26	12.8	9.0		38°31'	478	958	
		27	12.0	8.2		37°15'	456	936	
		28	11.2	7.4		35°24'	427	907	
		29	10.6	6.8		34°09'	407	887	
		30	9.9	6.1		32°43'	385	865	
		31	9.0	5.2		31°06'	362	842	
		32	7.9	4.1		29°09'	335	815	
		33	6.7	2.9	6.52	27°07'	307	787	

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.	Ast. at 209+39.08	Sight on 205+39.08
		19 75			DATUM MEAN LOWER LOW WATER	INSHORE
T.P.	4 53	19 55	4 78	14 97		205+39.08 R.
205+39.08 R			47	14 9	479.93	OFFSET L.N.S. AD OFFSET
			56	14 0		100 R. 38.0 L
			66	13 0		200 " 28.0 L
			50	14 0		300 " 18.0 L
			47	14 9		400 " 8.0 L
			44	15 2		430 " 5.0 L
			40	15 6	66 L.	5.6 L
			55	14 1	110 L. Top Slope	5.0 L
T.P.	0 5	9 7	10 4	9 2	142 L.	6.2 L
			5 0	4 7	23° 05'	170	6.0
			10 7	-1 8	27 37	209	6.9
			12 6	-2 9	30 45	236	7.8
			13 2	-3 5	34 00	270	7.0
			14 4	-4 7	35 56	290	7.0
			16 3	-6 6	39 10	326	8.6

Profile No. ____ Notes Red. SH Plotted SH Job No. ____ Division No. ____
X-Sec. No. ____ Date 10-6-58 Date 10-6-58 Survey of ____
Notes Chkd. ____ Date 10-6-58 Checked ____ Date 10-8-58 Survey by ____ Notes ____ Date ____
Map No. ____ Index ____

F. B. 2595 Pg. 201

F. B. 2803 Pg. 202 Job No. 030002 Division No. 10 Notes Red _____ Plotted _____ Profile

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

Survey by LIND Notes LIND 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 ENGINEER

700 Los Angeles County Engineering Bldg.

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

76L-298 S & E #307—1-56

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

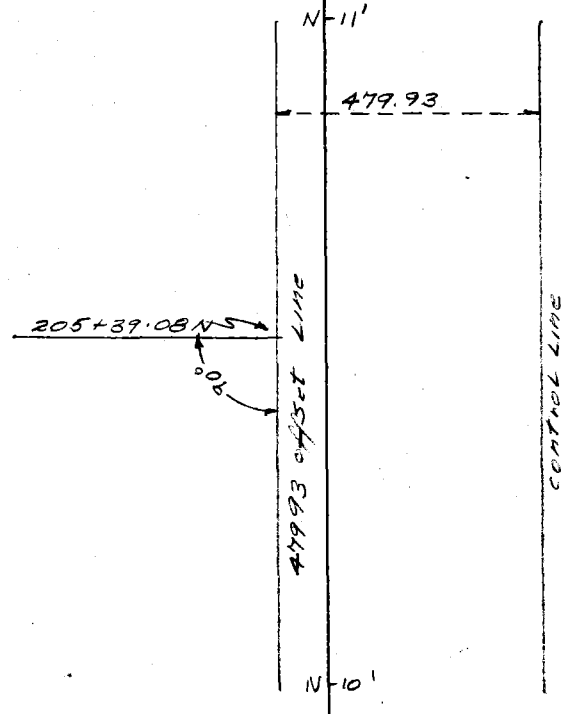
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile No. ____ Notes Red. JSH Plotted JSH Job No. 03002 Division No. 10
X-Sec. No. ____ Date 10-6-58 Date 10-8-58 Survey of PARCEL ETC. DESCRIPTION SURVEY
Notes Chkd. CWH Checked CWH Survey by WHITE-CT Notes E/CL Date 8-27-58
Date 10-6-58 Date 10-23-58 Map No. ____ Index ____ Date ____

F.B. 28003 Pg. 203

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
		1		7:09	90° 00	
		2		" "		
		3		" "		
		4		" "		
		5		" "		
		6		" "		
		7		" "		
		8		" "		
205+39.08 N	N-11'	9		" "		205+39.08 N
		10		" "		
		11		" "		
		12		" "		
		13		" "		
		14		" "		
		15		" "		
		16		" "		
		17		" "		
		18		" "		
		19		" "		
		20		" "		



F.B. 2803 Pg. 204

Job No. 0300P2 Division No. 10 Notes Red JSH Plotted JSH Profile

Survey of Beach Erosion Study Date 10-6-59 Date 10-8-59 No.

Survey by Chapman Notes Ellen Notes Chkd. CWH Checked CWH X-Sec.

Indexed L. C. Johnson Date Date 10-8-59 Date 10-8-59 No.

STATION	B.S.	H.I.	F.S.	ELEV	Remarks
Inst. At 205+39.08 N	Sight On N-11'				
	21				
	22				
	23				
	24				
	25				
	26				
	27				
	28				
	29				
	30				
	31				
	32				
	33				
	34				
	35				

#	Depth Rec.	Adj.	Time	Hor. Ang.
21				90° 00
22				"
23				"
24				"
25				"
26				"
27				"
28				"
29				"
30				"
31				"
32				"
33				"
34				"
35			7.14	"

Do not extend notes this side of this line.

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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. JSH Plotted JSH Job No. 03300 Division No. 10
X-Sec. ____ Date 10-6-57 Date 10-8-57 Survey of BEACH EROSION STUDIES
Notes Chkd. CWH Checked CWH Survey by CHARLIE Notes 21 S Date 8-27-57
Date 10-16-57 Date 10-22-57 Map No. ____ Tracked ____ F. B. 2803 Pg. 205

STATION Inst. At	Sight On	#	B.S.	H.I. Depth Rec.	Adj.	F.S.	Time	ELEV. Hor. Ang.		Remarks	
197+39.08 N	N-11'	1		32.2	28.6		7 09	67° 40'	1947	Adjustment	2427
		2		31.1	27.5			66° 30'	1840	Boat = +1.0	2320
		3		30.4	26.8			65° 06'	1723	Zero = -1.0	2203
		4		30.1	26.5			63° 32'	1607	Tide = -3.6	2087
		5		29.0	25.4			62° 13'	~~1518~~	-3.6	1998
		6		28.3	24.7			59° 54'	1380	479.73	1860
		7		27.9	24.3			57° 59'	1279		1759
		8		27.0	23.4			55° 38'	1170		1650
		9		26.8	23.2			53° 42'	1089	N-10' 197+39.08N	1569 295+39.08 N
		10		26.3	22.7			52° 02'	1026		1506
		11		26.2	22.6			49° 55'	950		1430
		12		25.5	21.9			47° 53'	~~885~~		1365
		13		25.4	21.8			45° 56'	826		1306
		14		25.0	21.4			43° 53'	770		1250
		15		24.4	20.8			42° 15'	726		1206
		16		22.5	18.9			39° 52'	668	N-10	1148
		17		20.7	17.1			37° 17'	609		1089
		18		19.6	16.0			37° 02'	603		1083
		19		19.0	15.4			35° 57'	580		1060
		20		17.8	14.2			34° 57'	559		1039

ADD OFFSET
CUTTIN LINE
RANGE LINE
N-11'
OFFSET LINE
CONTROL LINE
N-11

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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. 2803 Pg. 206 Job No. 0230-00 Division No. 10 Notes Red JSH Plotted JSH Profile
Survey of BEACH EROSION STUDIES Date 10-6-57 Date 10-8-57 No. X-Sec.
Survey by HARRIET STRADER Notes Chkd. CWH Checked CWH
Indexed C. Jordan Date Date 10-6-57 Date 10-8-57 No.

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	H.I. Adj.	F.S. Time	ELEV. Hor. Ang.		ADD OFFSET	Remarks
197+39.08 N	N-11'	21	16.9	13.3		34° 00'	540	1020	Adjustment
		22	16.3	12.7		33° 12'	523	1003	Boat = +1.0
		23	16.0	12.4		32° 15'	505	985	Zero = -1.0
		24	15.2	11.6		31° 14'	485	965	Tide = -3.6
		25	14.7	11.1		30° 20'	468	948	-3.6
		26	14.3	10.7		29° 33'	454	934	
		27	13.2	9.6		28° 15'	430	910	
		28	13.0	9.4		27° 01'	410	890	
		29	12.2	8.6		26° 12'	394	874	
		30	11.4	7.8		25° 01'	374	854	
		31	11.0	7.4		23° 55'	354	834	
		32	10.7	7.1		22° 31'	334 ?	814 ?	
		33	9.9	6.3		21° 35'	317	797	
		34	9.2	5.6		20° 42'	302	782	
		35	8.8	5.2	7 14	19° 45'	287	767	

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.	last sight 205+39.08	Sight on 207+39.08
		19 55			DATUM MEAN LOWER LOW WATER	INSHORE 207 + 39.08 N
T.P.	4 32	19 81	4 06	15 49		
207+39.08			48	15 0	207.93 OFFSET LINE	ADD OFFSET
			53	14 5	100 L	38.0 L
			21	13 7	200 "	28.0 L
			63	13 51	300 "	18.0 L
			47	15 N	400 "	8.0 L
			53	14 5	470 "	1.0 L
			37	15 9	45.0 L	52.5 L
			25	16 3	70.0 L. Top Slope	55.6 L
T.P.	0 8	8 7	11 9	7 9	134.0 L	60.4 L
			4 0	4 7	35° 07'	141	61.1
			8 7	0 0	43 21	189	66.9
			12 5	-3 8	49 21	233	71.3
			13 9	-5 2	53 04	266	74.6
			16 4	-7 7	57 24	313	79.3

Profile No. ____ X-Sec. No. ____

Notes Red. JSH Date 10-6-57 Notes Chkd. [illegible] Date 10-8-57

Plotted JSH Date 10-8-57 Checked [illegible] Date 10-8-57

Job No. [illegible] Survey of [illegible] Survey by [illegible] Map No. ____

Division No. 6 Notes [illegible] Date [illegible] Index [redacted] C. Jeb[illegible]

F. B. 2603 Pg. 107

F. B. 2803 Pg. 208 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by LINO Notes LINO 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 ENGINEER
700 Los Angeles County Engineering Bldg.

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

76L-298 S & E #307—1-56

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

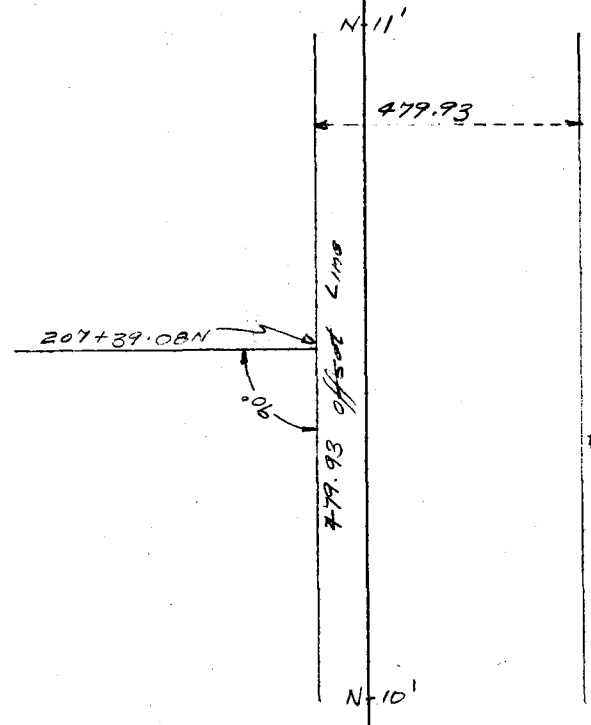
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile No. X-Sec. 207+39.08 N
Notes Red C.W.H. Plotted C.W.H. Job No. 03222 Division No. 10
Date 10-6-59 Date 10-9-59 Survey of Beach Erosion Study
Notes Chkd. J.S.H. Checked J.S.H. Survey by [illegible] Notes [illegible] Date 8-27-59
No. Date 10-8-59 Date 10-9-59 Map No. Index [illegible] J. [illegible]

F.B. 2903 Pg. 209

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor.Ang.	Remarks
		1		7:20	90° 00	
		2			" "	
		3			" "	
		4			" "	
		5			" "	
		6			" "	
		7			" "	
		8			" "	
		9			" "	207+39.08N
		10			" "	
207+39.08 N		11			" "	
	N-11'	12			" "	
		13			" "	
		14			" "	
		15			" "	
		16			" "	
		17			" "	
		18			" "	
		19			" "	
		20			" "	



F.B. 2803 Pg. 210

Job No. 030002 Division No. 10 Notes Red C.W.H. Plotted C.W.H. Profile

Survey of Beach Erosion Study Date 10-6-59 Date 10-9-59 No.

Survey by W. Harriet Notes Ellek Notes Chkd. J.S.H. Checked J.S.H. X-Sec.

Indexed C. Johnson Date Date 10-6-59 Date 10-9-59 No. 207+39.08N

STATION	B.S.	H.I.	F.S.	ELEV	Remarks
Inst. At 207+39.08N					
Sight On N-11'					
#					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
Depth Rec. Adj.					
Time					
Hor. Ang.				90°00'	

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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

76L-298 CE 307 11-58

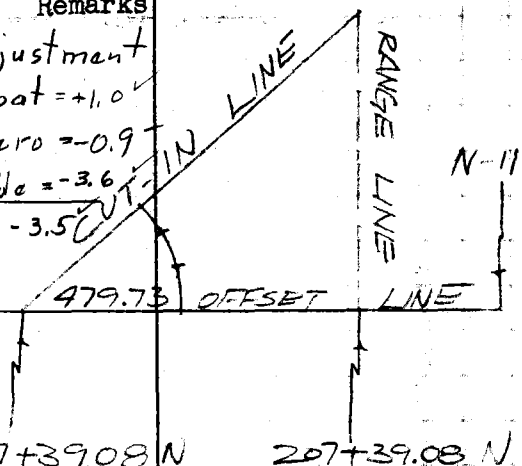
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Profile No. X-Sec. No. Notes Red C.W.H. Plotted C.W.H. Job No. 02000-2 Division No. 10 F.B. 2800 Pg. 211
Data 10-6-59 Date 10-9-59 Survey of BEACH EROSION STUDIES
Notes Chkd. J.S.H. Checked J.S.H. Survey by WARRIER Notes R.S. Date 8-27-59
N 2[illegible] Date 10-6-59 Date 10-9-59 Map No. Index [illegible] Job [illegible]

STATION Inst. At	Sight On	#	B.S.	H.I. Depth Rec.	H.I. Depth Adj.	F.S.	Time	ELEV. Hor. Ang.	ADD OFFSET		Remarks
197+39.08 N	N-11'	1		30.8	27.3		7 20	60° 41'	1788	2268	Adjustment
		2		30.2	26.7			59° 02'	1667	2147	Boat = +1.0
		3		29.3	25.8			57° 28'	1568	2048	Zero = -0.9
		4		28.6	25.1			55° 29'	1453	1933	Tide = -3.6
		5		27.8	24.3			53° 45'	1364	1844	-3.5
		6		27.8	24.3			51° 44'	1268	1748	
		7		27.2	23.7			49° 29'	1170	1650	
		8		26.5	23.0			47° 15'	1082	1562	
		9		26.1	22.6			44° 35'	986	1466	
		10		25.7	22.2			41° 32'	896 (N-10)	1366	197+39.08 N
		11		25.2	21.7			39° 02'	811	1291	
		12		24.5	21.0			36° 00'	727	1207	
		13		23.4	19.9			33° 53'	672	1152	
		14		20.0	16.5			30° 52'	598	1078	
		15		18.4	14.9			29° 13'	559	1039	
		16		18.0	14.5			28° 13'	537 (N-10)	1017	
		17		17.4	13.9			26° 53'	507	987	
		18		16.8	13.3			25° 56'	486	966	
		19		16.2	12.7			24° 50'	463	943	
		20		15.6	12.1			23° 48'	441	921	



76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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. 2803 Pg. 212 Job No. 030007 Division No. 10 Notes Red C. W. H. Plotted C. W. H. Profile No.
Survey of BEACH EROSION STUDIES Date 10-6-59 Date 10-9-59 X-Sec. No.
Survey by HARRIET Notes STRADER Notes Chkd. J. S. H. Checked J. S. H. 207+39.08N
Indexed C. Johnson Date Date 10-9-59 Date 10-9-59 No.

STATION		B.S.	H.I.		F.S.	ELEV.			
Inst. At	Sight On	#	Depth Rec.	Depth Adj.	Time	Hor. Ang.		ADD OFFSET	Remarks
197+39.08 N	N-11'	21	14.7	11.2		22° 31'	415	895	Adjustment
		22	14.0	10.5		21° 28'	393	873	Boat = +1.0
		23	12.9	9.4		20° 16'	369	849	Zero = -0.9
		24	12.5	9.0		19° 03'	345	825	Tide = -3.6
		25	11.8	8.3		17° 48'	321	801	-3.5
		26	10.8	7.3		16° 38'	299	779	
		27	9.6	6.1		15° 30'	277	757	
		28	8.6	5.1		14° 18'	255	735	
		29	8.1	4.6		13° 31'	240	720	
		30	–		7 24	–			

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED IN 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 205+39.08	Sight on 209+39.08
		19.81			DATUM MEAN LOWER LOW WATER	INSHORE 209+39.08 N.
T.P.	471	19.87	465	15.16		
			49	15.0	479.93	OFFSET LINE ADD OFFSET
			55	13.4		100 L 380 L
			60	14.4		200 " 280 L
			55	12.2		300 " 180 L
			52	14.7		400 " 80 L
			57	14.2		470 " 10 L
			43	15.6	11° L. Top Slope	541 L
T.P.	-0.3	8.7	101	9.0	166°	536 L
			40	4.7	18° 47'	136 6.6
			69	1.8	21.15	156 636
			101	-1.4	25.01	187 667
			127	-4.0	28.38	218 698
			144	-5.7	32.37	256 736
			172	-8.5	37.40	309 789

Profile No. X-Sec. 209+39.08 N
Notes Red C.W.H. Plotted C.W.H. Job No. Division No. 16
Notes Chkd. J.S.H. Checked J.S.H. Survey by
Date 10-6-59 Date 10-7-59 Survey of BEACH PROFILE
Date 10-6-59 Date 10-9-59 Map No.
Indexed Date
Noted Date
F. B. 2593 PG. 213

F. B. 2803 Pg. 214

Job No. 03002 Division No. 10 Notes Red C.W.H. Plotted C.W.H. Profile

Survey of BEACH EROSION STUDIES Date 10-6-59 Date 10-9-59 No.

Survey by LHO Notes LHO Notes Chkd. J.S.H. Checked J.S.H. X-Sec. 209+39.08N

Indexed K. C. Johnson Date Date 10-6-59 Date 10-9-59 No.

STATION	S. S.	H. I.	F. S.	ELEV.	
N-12					
		1.84			FROM TOP OF BREAKWATER
			5.48	14.39	N-12 EL = 14.39
					PENFEZ100-174

Do not extend notes this side of this line.

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L-298 S & E #307—1-56

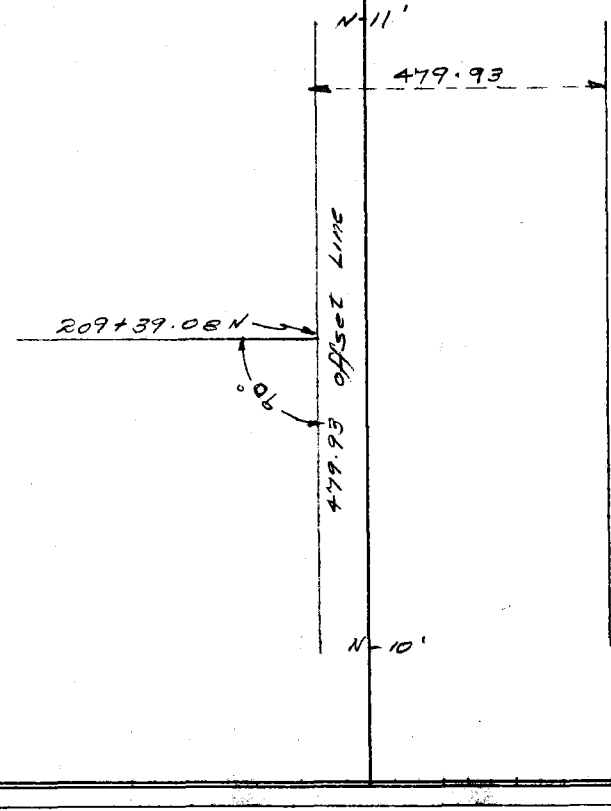
76L-298 CE 307 11-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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. Depth Rec.	Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
209+39.08 N	N-11'	1			7:31	90° 00	
		2				" "	
		3				" "	
		4				" "	
		5				" "	
		6				" "	
		7				" "	
		8				" "	
		9				" "	
		10				" "	209+39.08 N
		11				" "	
		12				" "	
		13				" "	
		14				" "	
		15				" "	
		16				" "	
		17				" "	
		18				" "	
		19				" "	
		20				" "	



Profile Notes Red C.W.H. Plotted C.W.H. Job No. 03002 Division No. 10
No. Date 10-6-59 Date 10-9-59 Survey of Beach Erosion Study
X-Sec. Notes Chkd. J.S.H. Checked J.S.H. Survey by Whitewater Notes Ellen Date 8-27-59
209+39.08N Date 10-6-59 Date 10-9-59 Map No. Indexer C. Johnson

F.B. 2803 Pg. 215

F.B. 2803 Pg. 216

Job No. 030022 Division No. 10 Notes Red C.W.H. Plotted J.S.H. Profile

Survey of Beach Erosion Study Date 10-6-59 Date 10-9-59 No.

Survey by Urquhart Notes Ellen Notes Chkd. J.S.H. Checked J.S.H. X-Sec.

Indexed [redacted] Date Date 10-6-59 Date 10-9-59 No. 209+39.08

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

209+39.08 N

N-11'

STATION	B.S.	H.I.	F.S.	ELEV	Remarks
Inst. At	Sight On	# Rec. Adj.	Depth Time	Hor. Ang.	
	21			90° 00	
	22			"	
	23			"	
	24			"	
	25			"	
	26			"	
	27			"	
	28		7.35	"	

RETURN TO
LOS ANGELES COUNTY ENGINEER
7001 ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Sheet No. Rod C.W.H. Plotted J.S.H. Job No. 0102.2 Division No. 10
No. X-Sec. Date 10-5-59 Date 10-9-59 Survey of BEACH EROSION STUDIES
Notes Chkd. J.S.H. Checked J.S.H. Survey by CHARBIE Notes R.L.S. Date 8-27-59
Date 10-9-59 Map No. Indexed

F.B. 2803 Pg. 217

STATION	B.S.	Adj.	F.S.	Elev.		
Inst. At / Sight On	Depth Obs.	Adj.	Tides	Hor. Ang.	Remarks	Off Set
197+39.08 N / N-11	1 30.3	26.9	731	53°46'	1638 Adjustment	2118
	2 29.4	26.0		51°44'	1522 Boat = +1.0	2002
	3 28.6	25.2		49°21'	1398 Zero = -0.8	1878
	4 27.9	24.5		47°52'	1326 Tide = -3.6	1806
	5 27.5	24.1		46°44'	1274 -3.4	1754
	6 27.3	23.9		44°02'	1160	1640
	7 26.4	23.0		42°12'	1088	1568
	8 26.2	22.8		39°40'	995	1475
	9 25.8	22.4		37°08'	908	1388
	10 25.7	22.3		34°26'	823	1303
	11 24.4	21.0		31°05'	724	1204
	12 24.0	20.6		28°56'	664	1144
	13 21.8	18.4		27°01'	612	1092
	14 19.8	16.4		25°27'	571	1051
	15 19.0	15.6		24°05'	536	1016
	16 17.8	14.4		22°45'	503	983
	17 17.1	13.7		21°36'	475	955
	18 16.7	13.3		20°27'	448	928
	19 15.8	12.4		19°16'	420	900
	20 15.0	11.6		18°31'	402	882

(N-10) (197+39.08N) (N-10)

CUT IN LINE

RANGE LINE

N-11

(479.73 OFFSET) LINE

209+39.08 N

(CONTROL LINE)

N-11

F.B. 2903 Pg. 218

Survey of BEACH EROSION STUDIES Job No. 03000 Division No. 10 Notes Red. C.W.H. Plotted

Survey by HARRIET STRADER Date 10-6-59 Date

Indexed C. Jessen Notes Chkd. J.S.H. Check

Date Date 10-6-59 Date

1977+39.08 N

N-11

21	14.2	10.8		17° 17'	373	853	Adjustment
22	13.3	9.9		16° 12'	349	829	Boat = +1.0
23	12.3	8.9		15° 00'	322	802	Zero = -0.8
24	11.6	8.2		14° 05'	301	781	Tide = -3.6
25	10.3	6.9		13° 01'	277	757	-3.4
26	8.7	5.3		12° 05'	257	737	
27	8.4	5.0		11° 21'	244	724	
28	7.9	4.5	7 35	10° 06'	214	694	