Survey of HYDRO-SURVEYS
JN [illegible] Tape — Std — °F
Surveyed by W. A. RICHARDS
Notes W. A. R. Date 6-69
Indexed C. J. GALLI JUL - 9 '69

F.B. 2822 PG. 5

J. N. 0300.02

HYDROGRAPHIC SURVEYS

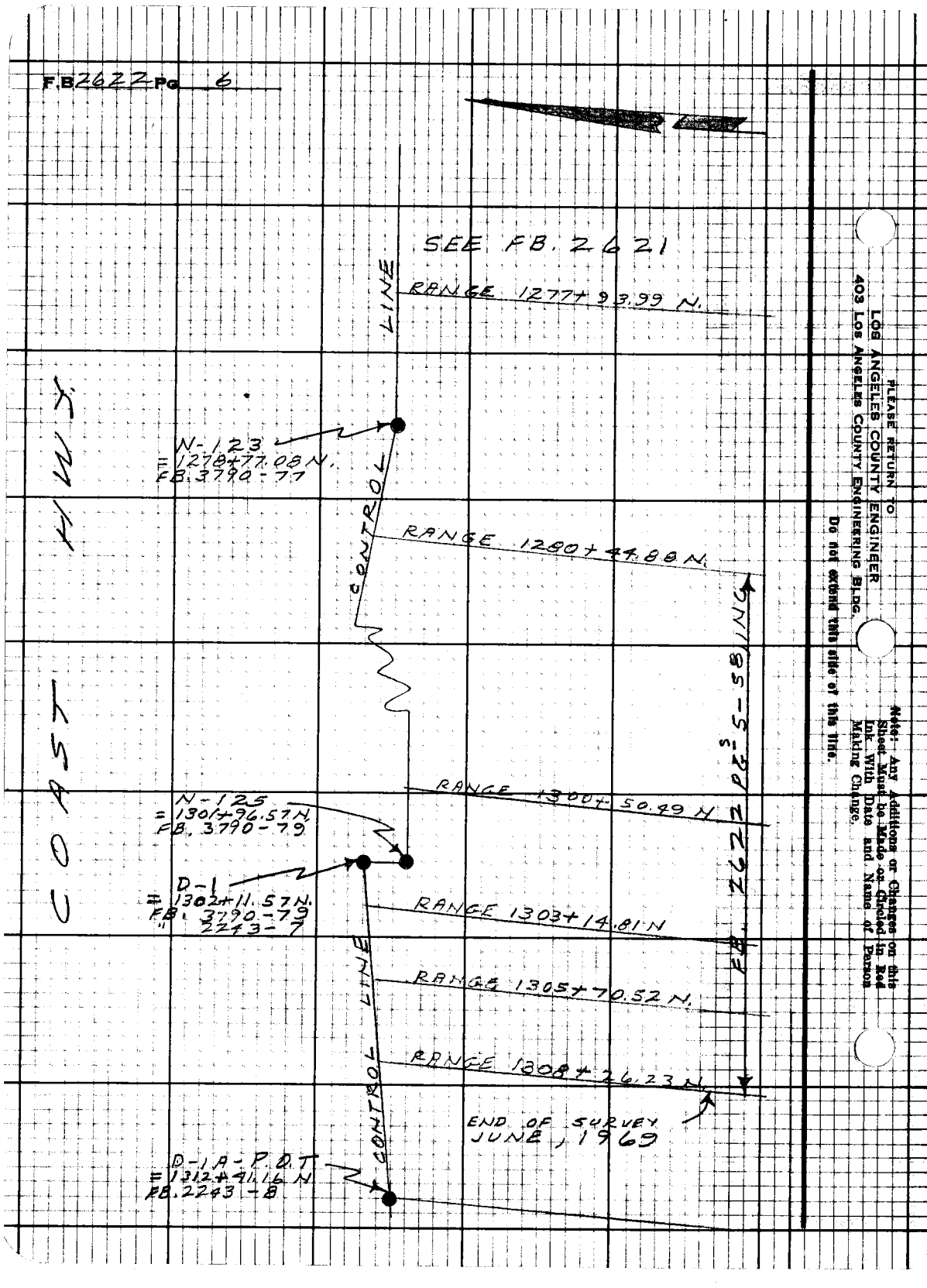
MALIBU BEACH

RE PROFILES, CUT ANGLES & TIDE CHARTS
OM STATION 1280+44.88 N.
O " 1308+26.23 N., INC., (END)

ONTINUED FROM FB. 2821

CHARDS	BAZEN	CURTIS	DREIER
LKS	SOPER	KAPP	MALDONADO
NKSON		LIEBER	SIEMANN
LLIER		RODRIGUEZ	McKNIGHT
		TURRILL	STROUD +
		BUSTRUM	SWIMMERS

F.B. 2622 Pg. 6



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

Do not extend this side of this line.

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

76-L-298 CE 307 5-66

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
				STA 1280+44.88		
	SIGHT on N-124					88° 38' Lt.
T.B.M. #93				14.25	T.B.M #93 (Cont.)	
TP				10.76	T.P. 1"X2" @ STA.	Sand.
				12.71	15' Rt.	Brk. (Sand)
				13.5	34' Rt.	Bot. Wd. Rot. Wl. Sand
				17.4	34' Rt.	Top " " "
	0.12	6.48		6.36	25' Lt. 1"X2"	Sand
		5			T AT 1277+93.98	SIGHT [illegible]
			19	4.6	32 FT LEFT	M.H.T.
			55	10	A #1	9° 12'
			68	-0.3	2	13 36
			72	-0.7	3	19 33
			103	-9.8	4	26 13
			125	-6.0	5	35 02
			125	-6.0	6	41 22
			144	-7.9	7	44 50
			164	-9.9	8	48 48
			172	-10.7	9	50 56

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date ____

F.B. 2822 PG. 7

F. B. 2822 PG. 8 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

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76-L-298 CE 307 5-66

765420A - CE 353A - Cdb 9-62

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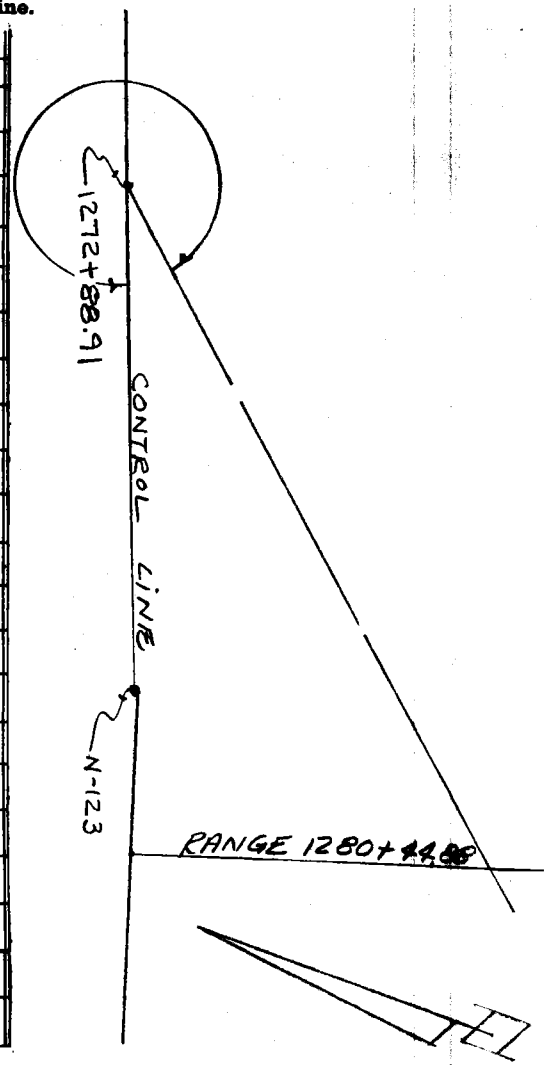
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
1272+89	N-123	7:50	1	305	08	54	52	
		P.S.T.	2	306	24	53	36	
			3	307	18	52	42	
			4	309	24	50	36	
			5	309	58	50	02	
			6	310	49	49	+1	
			7	311	08	48	52	
			8	312	30	47	30	
			9	313	50	46	10	
			10	315	20	44	40	
			11	316	13	43	47	
			12	317	57	42	03	
			13	319	10	40	50	
			14	321	16	38	44	
			15	323	09	36	51	
			16	324	35	35	25	
			17	326	18	33	42	
			18	327	34	32	26	
			19	327	57	32	03	
			20	329	29	30	31	



Profile Notes Red. ____ Plotted ____ Job No. 230002 Division No. 11 F. B. 2822 Pg. 9

No. ____ Date ____ Date ____ Survey of MALIBU HYDRO. SURVEYS

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes J.J.B. Date 6-26-69

No. ____ Date ____ Date ____ Map No. ____ Indexed C.T. GALLI Date JUL 9 '69

F. B. 2822 PG. 10 Job No. 030002 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of MALIBU HYDRO. SURVEYS Date _____ Date _____ No. _____

Survey by RICHARDS Notes J.J.B Notes Chkd. _____ Checked _____ X-Sec.

Indexed C. J. GALLI Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

INST. AT DON'T PUNCH	SIGHT ON DON'T PUNCH	TIME DON'T PUNCH	ANGLE Nº DON'T PUNCH	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº.
			21	330	41	29	19	
			22	334	07	25	53	
			23	336	05	23	55	
			24	338	02	21	58	
			25	339	57	20	03	
	P.S.T.	7:57	26	341	33	18	27	

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.		
				STA. 1282 + 94.95		
	SIGHT ON N-124				88°38' Lt	
T.P.				10.76	T.P. Cont. from STA. 1280+44.88	
T.P.				11.96	T.P. 1"x2" @ STA. Sand Brk	
				17.2	28' Rt. Bot. Wd. Rot. Wall - Sand	
				13.6	25' Rt. Top " " "	
	-0 56	6 24		6.90	32' Lt. 1"x2" ~~Sand~~.	
					⊼ 1277 + 93.99	SIGHT N12?
			165	-103	∡ #1 29° 23'	
			150	-88	2 26 36	
			121	-59	3 21 05	
			123	-61	4 16 22	
			94	-32	5 13 28	
			89	-27	6 9 20	
			70	-08	7 6 00	
			63	-01	8 3 49	
			48	14	9 2 08	
			16	46	43 FT LEFT M.H.T	
			401	03	32 " " SAND	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. 11 F.B. 28[illegible] Pg. 11
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 6-25-[illegible]
No. ____ Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date JUL - 9 '69

F. B. 2822 Pg. 12

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

Survey of _____ Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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76-L-298 CE 307 5-66

76S420A - CE 353A - Cdb 9-62

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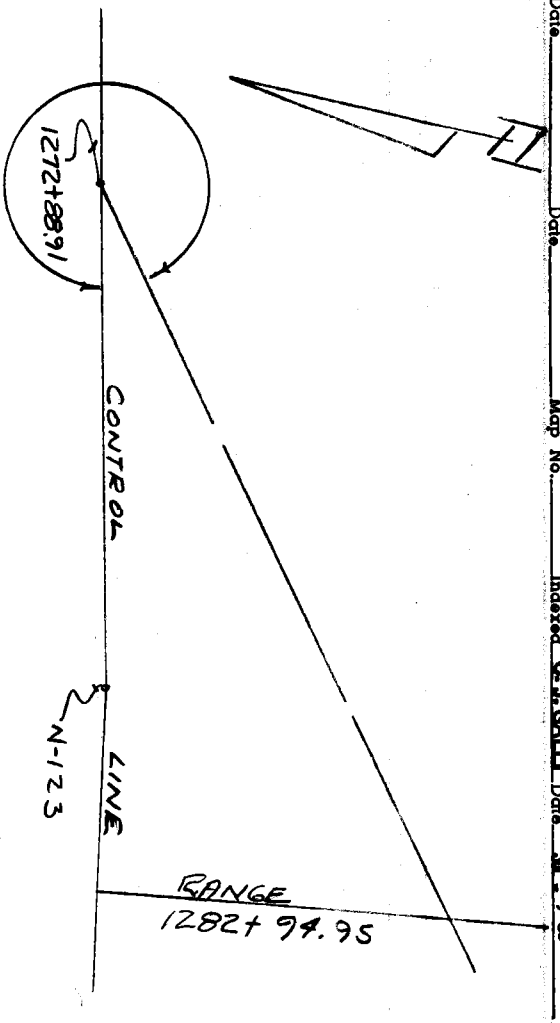
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
1272+89	N-123	8:02	1	310	52	49	08	
		P.S.T	2	311	56	48	04	
			3	313	08	46	52	
			4	314	14	45	46	
			5	315	17	44	43	
			6	315	52	44	08	
			7	316	34	43	26	
			8	317	57	42	03	
			9	319	27	40	33	
			10	320	48	39	12	
			11	322	16	37	44	
			12	323	39	36	21	
			13	324	48	35	12	
			14	326	41	33	19	
			15	328	42	31	18	
			16	330	12	29	48	
			17	331	18	28	42	
			18	333	14	26	46	
			19	335	01	24	59	
			20	336	21	23	39	



Profile Notes Red. Plotted Job No. 0300.02 Division No. 11 F.B. 2822 Pg. 13
No. Date Date Survey of HYDRO SURVEYS - MALIBU
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes N.B. Date 6-26-62
No. Date Date Map No. Indexed C.J. GALLI Date 11-9-62

F. B. 2822 Pg. 14

Job No. 0300,02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDRO. SURVEYS - MALIBU Date _____ Date _____ No. _____

Survey by RICHARDS Notes J. J. B. Notes Chkd. _____ Checked _____ X-Sec.

Indexed C. J. GALLI Date _____ Date _____ Date _____ No. _____

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
			21	337	33	22	27	
			22	339	10	20	58	
			23	341	04	18	56	
			24	342	57	17	03	
			25	344	02	15	58	
			26	345	23	14	37	
			27	346	40	13	20	
	P.S.T.	8:09	28	348	05	11	55	

76-L-298 CE 307 5-66

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
				STa. 1285+ 45.02		
	Sight on N-124				88°38' Lt	
T.P.				11.96	T.P. Cont. from STa. 1282+ 94.95	
T.P.				11.62	T.P. 1"x2" @ STa. Sand-under House (Brk)	
				13.8	30' Rt. Sand under House	
				6.92	22' Lt. 1"x2" Sand	
TBM #94				12.93	TBM #94 El. 12.93 FB. 3790-140 Top Nut of Tie Bolt Thru pile @ SW. Cor. Ho# 27[illegible]6	
	-0 06	11 56		11 62	T.P. 1x2 at ℄ STA	
			0 6	11 0	℄ STA. SAND	
			+0 2	11 8	3 Ft Rt BRK	
	1 27	7 36	5 47	6 09	T.P.	
			2 8	4 6	28 FT LEFT M.H.I.	
					⊼ AT N 124 SIGHT ON N 123	
			5 6	1 8	∡ #1 4° 52	
			7 1	0 3	2 8 14	
			9 6	-2 2	3 13 42	
			12 8	-5 4	4 19 47	
			15 7	-8 3	5 24 08	
			17 7	-10 3	6 30° 40'	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. 11 F.B. 2822 Pg. 15
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date JUL 9 '69

F. B. 2822 PG. 16

Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

Survey by_____ Notes_____ Notes Chk'd._____ Checked_____ X-Sec.

Indexed_____ Date_____ Date_____ Date_____ No._____

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

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76-L-298 CE 307 5-66

76S420A - CE 353A - Cdb 9-62

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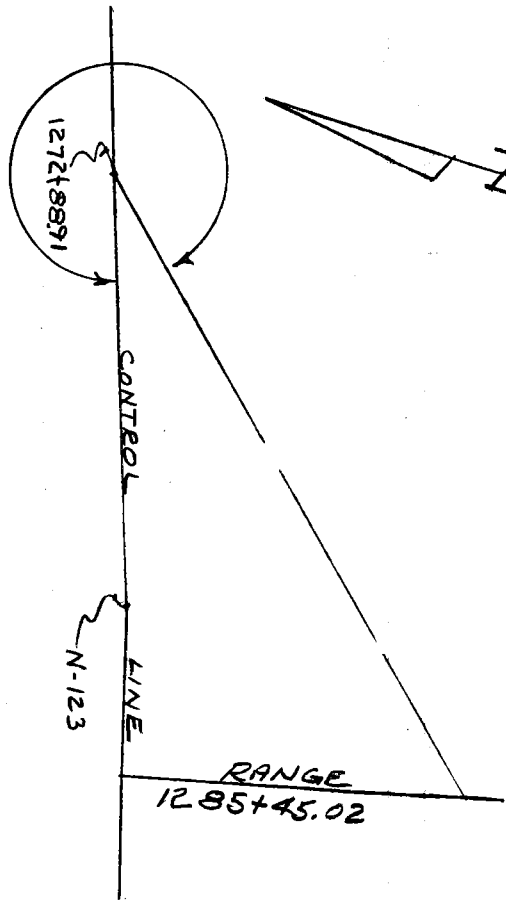
Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
1272+89	N-123	9:50	1	316	59	43	01	
		P.S.T.	2	318	41	41	19	
			3	320	18	39	42	
			4	321	46	38	14	
			5	323	51	36	09	
			6	326	11	33	49	
			7	328	46	31	14	
			8	331	27	28	33	
			9	333	00	27	00	
			10	334	24	25	36	
			11	335	30	24	30	
			12	336	19	23	41	
			13	337	33	22	27	
			14	338	26	21	34	
			15	339	40	20	20	
			16	340	24	19	36	
			17	341	34	18	26	
			18	342	24	17	36	
			19	343	02	16	58	
			20	344	02	15	58	



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 23 00 02 Division No. 11 F.B. 2822 Pg. 17
X-Sec. No. ____ Date ____ Date ____ Survey of HYDRO SURVEYS - MALIBU
Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes JJB Date 6-26-89
Date ____ Date ____ Map No. ____ Indexed D. H. GALLS Date ____

F. B. 2822 PG. 18 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDRO SURVEYS - MALIBU Date _____ Date _____ No. _____

Survey by RICHARDS Notes J.J.B. Notes Chkd. _____ Checked _____ X-Sec.

Indexed C.J. GALLI Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

INST. AT DON'T PUNCH	SIGHT ON DON'T PUNCH	TIME DON'T PUNCH	ANGLE Nº DON'T PUNCH	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº.
			21	344	59			
			22	346	12	13	48	
			23	347	04	12	56	
			24	348	01	11	59	
			25	348	25	11	35	
			26	348	56	11	04	
			27	349	14	10	46	
			28	349	45	10	15	
	PST.	9:56	29	350	34	9	26	

76-L-298 CE 307 5-66

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
				STA. 1287+95.09		
	Sight on N-124				88°38' Lt	
T.P.				11.62	T.P. Cont. from Sta 1285+45.02	
T.P.				8.87	T.P. 1"x2" @ Sta.	Sand.
				13.2	18' Rt.	Brk @ House - Sand
				13.6	50' Rt.	Sand under House
				6.99	10' Lt. 1"x2." Sand	
T.P.				12.42	T.P. El. 12.42 - Top NUT	
		7.36			Cont. from 1285+45.02	
	1.44	7.95	0.85	6.51	T.P.	
					⊼ AT N 124	SIGHT ON N 123
		ESTIM.	2.05	-1.25	∡ #1 44° 32	
			1.91	-1.11	2 40 43	
			1.87	-1.07	3 36 43	
			1.81	-1.01	4 33 28	
			1.46	-.66	5 30 08	
			1.60	-.80	6 32 04	OUT [illegible]
			1.21	-.41	7 25 14	
			.98	-.18	8 19 18	
			.85	-.05	9 13 48	
			.76	.04	10 9 35	

DATUM
MEAN LOWER LOW WATER

CONT.

Profile No. ____ Notes Red ____ Plotted ____ Job No. ____ Division No. 11 F.B. 282 Pg. 19
X-Sec. No. ____ Date ____ Date ____ Survey of [illegible]
Notes Chk'd. ____ Date ____ Checked ____ Survey by ____ Notes ____ Date ____
Map No. ____ Date ____ Indexed C. J. GALLI Date JUL 9 '89

F. B. 2822 PG. 20

Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

Survey by_____ Notes_____ Notes Chk'd._____ Checked_____ X-Sec.

Indexed C. J. GALLI Date_____ Date_____ Date_____ No._____

STATION	B. S.	H. I.	F. S.	ELEV.	
		795			
			56	24	4+11 5° 39'
			33	46	20 FT LEFT M.H.T.
			4095	890	

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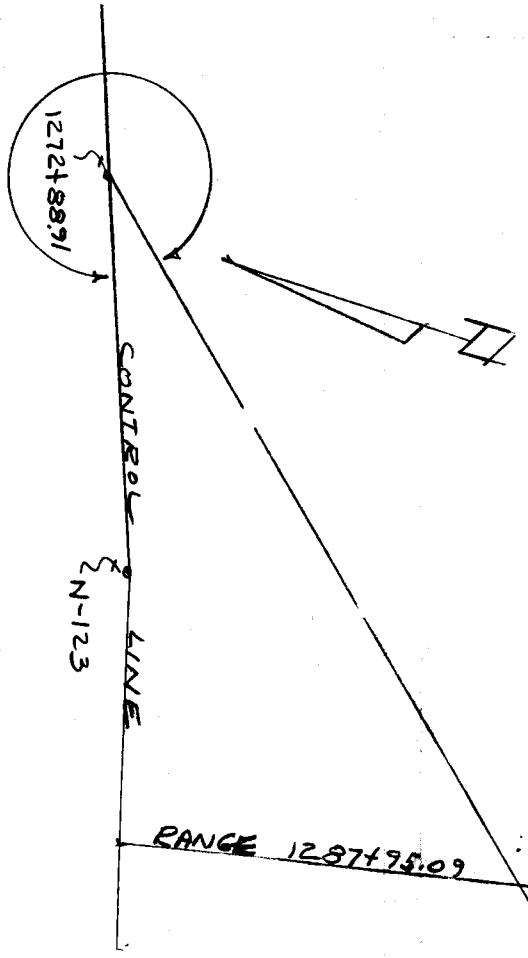
Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
1272+89	N-123	10:05	1	321	02	38	58	
		P.S.T.	2	321	42	38	18	
			3	322	36	37	24	
			4	323	44	36	16	
			5	324	44	35	16	
			6	326	10	33	50	
			7	327	10	32	50	
			8	328	47	31	13	
			9	330	20	29	40	
			10	331	57	28	03	
			11	333	55	26	05	
			12	335	34	24	26	
			13	337	00	23	00	
			14	338	07	21	53	
			15	339	38	20	22	
			16	340	53	19	07	
			17	341	49	18	11	
			18	343	22	16	38	
			19	344	24	15	36	
			20	345	27	14	33	



Profile Notes Red. ____ Plotted ____ Job No. 030002 Division No. 11 F. B. 2822 Pg. 21
No. ____ Date ____ Date ____ Survey of HYDRO SURVEYS - MALIBU
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes J.J.B. Date 6-26-69
No. ____ Date ____ Date ____ Map No. ____ Indexed C.T. GALLI Date [illegible] 9'89

F. B. 2822 PG. 22 | Job No. 0300.02 Division No. 11 | Notes Red. | Plotted | Profile

Survey of HYDRO Surveys - MALIBU | Date | Date | No.

Survey by RICHARDS | Notes J.J.B. | Notes Chkd. | Checked | X-Sec.

Indexed C. J. GALLI | Date | Date | Date | No.

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

Do not extend notes this side of this line.

INST. AT DON'T PUNCH	SIGHT ON DON'T PUNCH	TIME DON'T PUNCH	ANGLE Nº DON'T PUNCH	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº.
			21	346	29			
			22	347	29			
			23	348	57			
			24	349	45			
			25	350	43			
			26	351	50			
			27	352	13			
			28	353	07			
			29	353	37			
			30	354	25			
	P.S.T.	10:12	31	355	08			

76-L-298 CE 307 5-66

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

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

Do not extend notes this side of this line. N-124 1291+61.24

STATION	B. S.	H. I.	F. S.	ELEV.		
				STA. 1290+45.16		
	Sight on N-124					88° 38' Lt
T.P.				12.42	T.P. El. 12.42	
T.P.				7.60	T.P. 1"x2" @ STA.	Sand.
				13.7	25' Rt.	Brk-under Ho. Sand (Brk)
				13.6	45' Rt.	Sand " "
T.B.M. #95				11.51	T.B.M. #95 El. 11.51 F.B. 3790-140 Top NW Thr. bolt: Thru pile - Ho # 27062 - 3 [illegible] from West.	
					⊼ AT 1287+95.09	SIGHT ON N-124
	-0.38	7.22		7.60	T.P. 1x2 ℄ STA.	Flush
			26		16 FT LE	
			48	24	4 #1 6° 42'	
			60	12	2 9 59	
			71	01	3 14 42	
			79	-07	4 20 01	
			101	-29	5 30 26	
			123	-51	6 35 57	
			149	-77	7 40 53	
			173	-101	8 46 00	
			192	-120	9 48° 54'	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. 11 F.B. 2822 Pg. 23
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date JUL 9 '69

F. B. 2822 PG. 24

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

Survey of _____ Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

76S420A - CE 353A - Cdb 9-62

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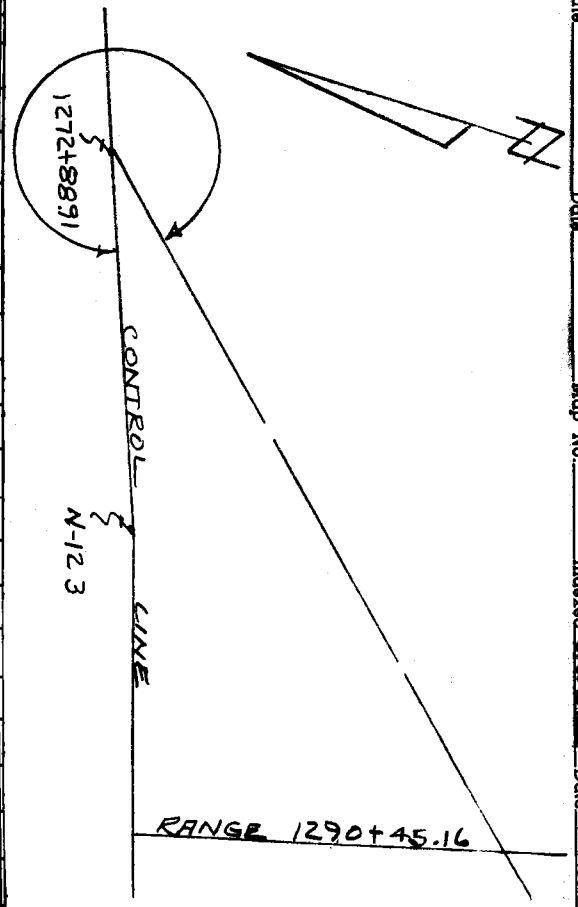
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
1272+88.9	N-123	10:21	1	324	29	35	31	
		P.S.T.	2	326	03	33	57	
			3	327	14	32	46	
			4	328	31	31	29	
			5	329	35	30	25	
			6	331	06	28	54	
			7	332	46	27	14	
			8	333	53	26	07	
			9	335	02	24	58	
			10	336	35	23	25	
			11	338	21	21	39	
			12	340	48	19	12	
			13	342	26	17	34	
			14	343	21	16	39	
			15	344	43	15	17	
			16	346	42	13	18	
			17	348	09	11	51	
			18	349	23	10	37	
			19	349	54	10	06	
			20	350	54	9	06	



Profile Notes Red. Plotted Job No. 23002 Division No. 11 Fb. 8 2 2 Pg. 25
No. Date Date Survey of HYDRO SURVEYS - MALIBU
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes J.J.B. Date 6-26-67
No. Date Date Map No. Indexed C.J. GALL Date 11-9-68

F. B. 2822 PG. 26

Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDRO SURVEYS - MALIBU Date _____ Date _____ No. _____

Survey by RICHARDS Notes J.J.B. Notes Chkd. _____ Checked _____ X-Sec.

Indexed C. J. GALLI Date _____ Date _____ Date _____ No. _____

PLEASE RETURN TO

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
			21	351	44	8	16	
			22	352	36	7	24	
			23	353	28	6	32	
			24	354	12	5	48	
			25	355	08	4	52	
			26	356	05	3	55	
		10:28	27	357	08	2	52	

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.		
				STA. 1292+95.99		
	Sight on N-125					83°45' Lt.
TBM #95				11.51	T.B.M. #95 Cont.	
T.P.				8.06	T.P. 1"x2" @ Sta.	Sand
				117	15' Rt.	Brk Sand
				14.2	34' Rt.	Bot wd, Red wall
				17.0	34' Rt.	Top " " "
					⊼ AT 1287+95.09	SIGHT ON N-U
	+1 04	7 06		8 06	T.P. 1X2 ℄	FLUSH
			166	-95	∡ #1 26 40	
			142	-71	2 23 47	
			117	-46	3 20 17	
			94	-23	4 16 36	
			80	-09	5 12 46	
			69	02	6 9 39	
			58	13	7 4 51	
			45	26	31 FT LEFT	
			25	46	18 " " M.H.T	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. ____ Division No. 11 F.B. 28 PG. 27
Date ____ Date ____ Survey of [illegible]
X-Sec. No. ____ Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date ____
Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date JUL 9 '69

F. B. 2822 PG. 28

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

Survey of _____ Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

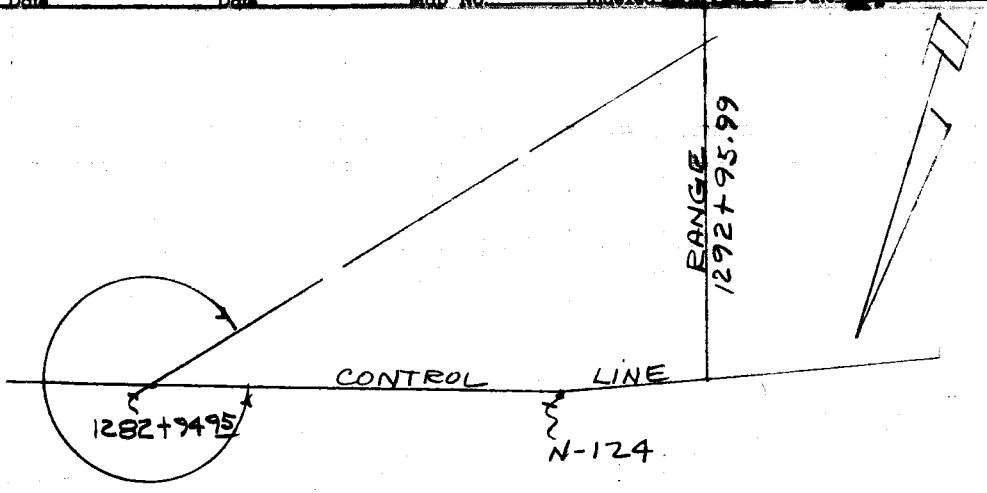
76-L-298 CE 307 5-66

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 030003 Division No. 11 F. B. 2822 Pg. 29

Date ____ Date ____ Survey of HYDRO SURVEYS - MALIBU

X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes J.J.B. Date 6-26-69

Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date [illegible]



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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
1282+95	N-124	10:37	1	303	21	56	39	
		P.S.T.	2	304	21	55	39	
			3	305	54	54	06	
			4	307	09	52	51	
			5	308	59	51	01	
			6	310	20	49	40	
			7	311	38	48	22	
			8	313	27	46	33	
			9	315	25	44	35	
			10	317	41	42	19	
			11	319	38	40	22	
			12	321	43	38	17	
			13	324	26	35	34	
			14	327	40	32	20	
			15	330	05	29	55	
			16	332	37	27	23	
			17	336	17	23	43	
			18	339	18	20	42	
			19	341	58	18	02	
			20	343	15	16	45	

76S420A - CE 353A - Cdb 9-62

F. B. 2822 Pg. 30 | Job No. 03000.02 | Division No. 11 | Notes Red. | Plotted | Profile

Survey of HYDRO SURVEYS - MALIBU | Date | Date | No.

Survey by RICHARDS | Notes J.J.B. | Notes Chkd. | Checked | X-Sec.

Indexed C.J. GALLI | Date | Date | Date | No.

Inst. At Don't Punch	Sight On Don't Punch	Time Don't Punch	Angle No Don't Punch	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
	P.S.T.	10:42	21	345	15			
			22	347	17			

Do not extend notes this side of this line.

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.		
			STA. 1295+47.49			
	Sight on N-125				83°45' Lt	
T.P.				8.06	T.P. Cont. from Sta 1292+95.79	
T.P.				9.05	T.P. 1"x2" @ Sta. Sand	
				12.6	17' Rt Brk Sand	
				14.5	36' Rt. Bot. Wd Rot. Wl.	
				19.3	" " Top " " "	
	-032	6 68		7.00	10' Lt. 1"x2" Sand.	
			21		21 FT LEFT M.H.T.	
					T AT N124 SIGHT N125	
			44	23	∡ #1 6° 04	
			60	07	2 9 16	
			68	-01	3 12 22	
			82	-15	4 16 11	
			98	-31	5 20 58	
			115	-48	6 24 10	
			144	-77	7 28 08	
			161	-94	8 30 50	
			185	-118	9 33 29	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____ F. B. 2822 PG. 31
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date JUL 9 '69

F. B. 2822 Pg. 32 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

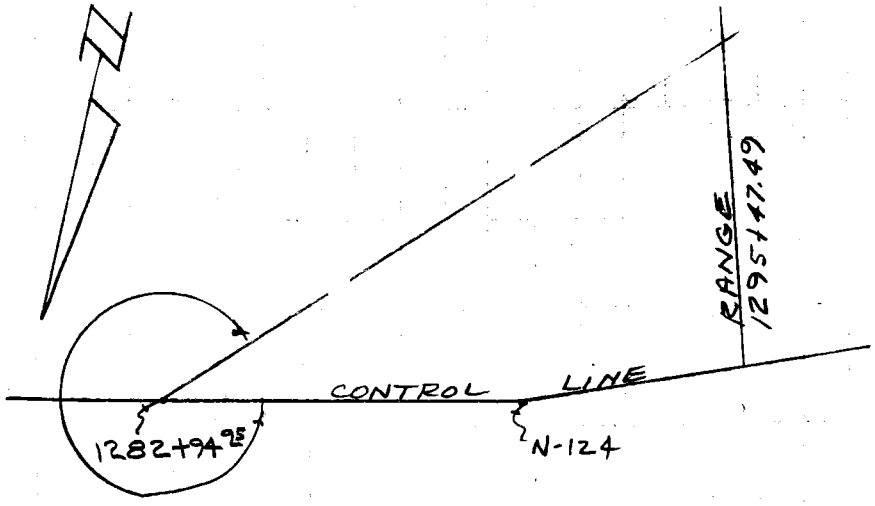
76-L-288 CE 307 5-66

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 0300,02 Division No. 11 | F. B. 2822 Pg. 33

X-Sec. No. _____ Date _____ Date _____ Survey of HYDRO SURVEYS - MALIBU

Notes Chkd. _____ Checked _____ Survey by RICHARDS Notes J.N.B. Date 6-26-69

Date _____ Date _____ Map No. _____ Indexed G.J. GALLI Date 11 9 '69



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

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
1282+95	N-124	10:50	1	311	18			
		P.S.T.	2	312	02			
			3	313	11			
			4	314	26			
			5	315	52			
			6	317	05			
			7	318	26			
			8	319	48			
			9	321	57			
			10	322	57			
			11	324	07			
			12	325	11			
			13	326	43			
			14	328	38			
			15	330	08			
			16	331	51			
			17	333	27			
			18	335	12			
			19	337	03			
			20	339	14			

765420A - CE 353A - Cdb 9-62

F. B. 2822 PG. 34 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDRO Surveys - MALIBU Date _____ Date _____ No. _____

Survey by RICHARDS Notes J. J. B. Notes Chkd. _____ Checked _____ X-Sec.

Indexed C. J. GALLI Date _____ Date _____ Date _____ No. _____

PLEASE RETURN TO

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT DON'T PUNCH	SIGHT ON DON'T PUNCH	TIME DON'T PUNCH	ANGLE Nº DON'T PUNCH	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº.
			21	340	30			
			22	342	02			
			23	343	04			
			24	344	10			
			25	345	32			
			26	346	27			
			27	347	31			
			28	348	41			
	P.S.T.	10:57	29	350	00			

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.		
				STA 1297+98.99		
Sight on N-125						83°45' Lt
T.P.				9.05	T.P. (Cont.)	
T.P.				10.52	T.P. 1"x2" @ Sta.	Sand
				12.0	6' Rt.	Brk
				13.6	39' Rt.	Bot. Wd. Rt. Wall
				18.6	39' Rt.	Top " " "
				8.47	10' Lt. 1"x2" Sand.	
TBM #				12.48	TBM #96 El. 12.48 Spk in Cor. Pile	FB. 3790-140 Bt. S.W. Cor. Wd. Rt. Wall
	-0.27	5.20		8.47	⊼ AT N124	SIGHT N125
			19.6	-11.4	✗ 1 31° 06'	
			18.8	-10.6	2 27 20	
			17.2	-9.0	3 24 22	
			16.9	-8.7	4 21 39	
			16.5	-8.3	5 19 03	
			12.8	-4.6	6 15 36	
			14.5	-6.3	7 16 50	OUT MOSE
			11.5	-3.3	8 13 54	
			9.6	-1.4	9 10 54	
			8.0	0.2	10 7 46	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. ____ Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of [illegible]
Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date ____
Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date JUL 9 '69

F.B. 282 Pg. 35

F. B. 2822 PG. 36 | Job No. 0300.02 | Division No. | Notes Red | Plotted | Profile

Survey of MALIBU HYDRO | Date | Date | No.

Survey by RICHARDS Notes DREIER | Notes Chk'd. | Checked | X-Sec.

Indexed C. J. GALLI | Date | Date | Date | No.

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

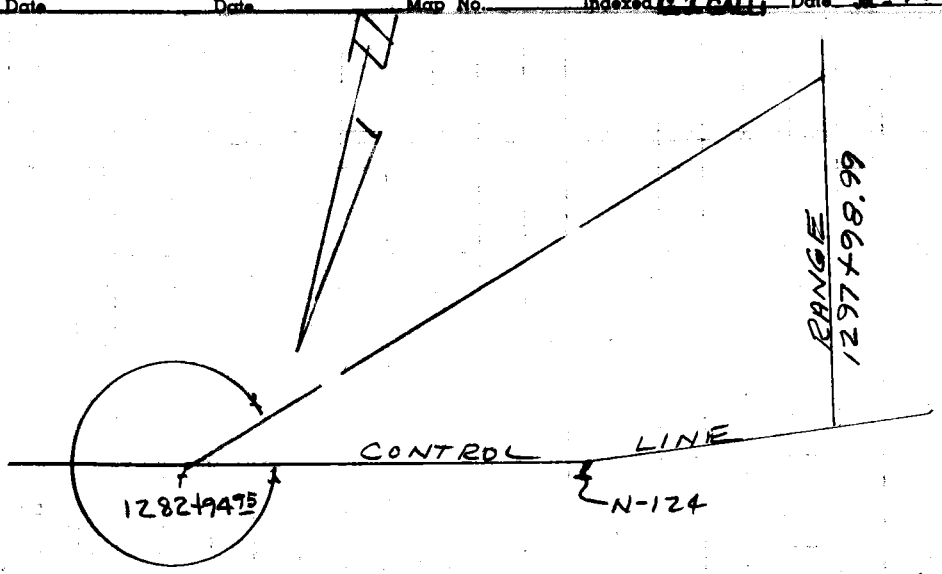
STATION	B. S.	H. I.	F. S.	ELEV.	
		820			
			68	14	CONT
			36	46	4+11 5° 09'
					20 FT LEFT MAT

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 0300.02 Division No. 11 F. B. 2822 Pg. 37

Date _____ Date _____ Survey of HYDRO SURVEYS - MALIBU

X-Sec. No. _____ Notes Chkd. _____ Checked _____ Survey by RICHARDS Notes J. J. B. Date 6-26-69

Date _____ Date _____ Map No. _____ Indexed C. J. CALLI Date JL 9'69



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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
1282+95	N-124	11:06	1	312	32			
		P.S.T.	2	314	08			
			3	316	03			
			4	317	13			
			5	318	13			
			6	319	02			
			7	320	04			
			8	321	17			
			9	323	30			
			10	326	46			
			11	328	08			
			12	329	40			
			13	333	36			
			14	335	15			
			15	336	44			
			16	339	02			
			17	340	10			
			18	340	56			
			19	342	07			
			20	343	17			

76S420A • CE 353A • Cdb 9-62

F. B. 2822 Pg. 38 | Job No. 030002 Division No. 11 | Notes Red | Plotted | Profile

Survey of HYDRO SURVEYS - MALIBU | Date | Date | No.

Survey by RICHARDS Notes J. B. | Notes Chkd. | Checked | X-Sec.

Indexed G. L. GALLI | Date | Date | Date | No.

Inst. At Don't Punch	Sight On Don't Punch	Time Don't Punch	Angle No. Don't Punch	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
			21	344	40			
			22	346	24			
			23	347	12			
			24	348	15			
			25	349	22			
	P.S.T.	11:13	26	350	55			

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.

Notes Ck'd by	Survey of HYDROGRAPHIC SURVEY	F. B. 7822 PG. 39
Map No.	JN 2300.5 Tape — Std — °F	
Office Work	Surveyed by RICHARDS	
Checked	Notes HARRIET Date 6-26-69	
Date	Indexed G. GALLI JUL 9	

TIDE GAGE READINGS
JUNE 26, 1969
TIME - P.S.T.
DATUM - M.L.L.W.

TIME	TIDE
6:00	3.1
6:30	3.3
7:00	3.3
7:30	3.2
8:00	3.1
8:30	2.9
9:00	2.7
9:30	2.6
10:00	2.3
10:30	2.2
11:00	2.1
11:30	2.1
12:00	2.2
12:30	2.4
1:00	2.6
1:30	3.0
2:00	3.4

NOTE - TIDE GAGE IS LOCATED AT SOUTH END OF BERTH 60, L.A. OUTER HARBOR.

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.
Do not extend this side of this line.
PLEASE RETURN TO
COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.
76F309S CE#310 3-68

F. B. 2822 PG. 40

PLEASE RETURN TO
COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line. N-125 1301+96.57

STATION	B. S.	H. I.	F. S.	ELEV.		
				STA. 1300+50.49		
	SIGHT ON N-125				83°45' Lt	
T.B.M. #76				12.48	T.B.M. #76 (Cont)	
T.P.				12.35	T.P. 1"x2" @ STA.	sand
				12.[illegible]	28' Rt. Brk	"
				12.3	35' Rt. Brk	"
				15.7	45 Rt. @ House	
	-675	7 22		7.97	20' Lt 1"x2" Sand Flush	
			26	46	38 FT LEFT M.H.T.	
			49	23	62 " "	
					⊼ AT STA 1297+98.99 SIGHT ON N125	
			69	03	4 #1 18° 30'	
			82	-10	2 25 24	
			103	-31	3 30 44	
			132	-60	4 35 49	
			120	-58	5 33 53	IN
			140	-68	6 39 09	
			151	-79	7 42 37	
			175	-103	8 47 12	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. ____ Division No. 11
X-Sec. No. ____ Date ____ Date ____ Survey of [illegible]
Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date ____
Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date 9 '69

F.B. 2822 PG. 41

F. B. 2822 PG. 42 | Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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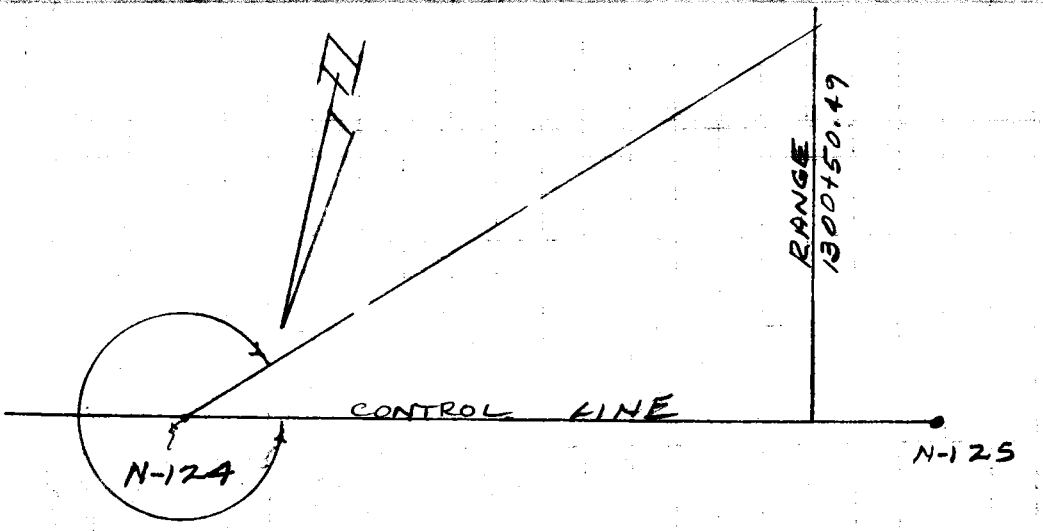
76-L-298 CE 307 5-66

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 030002 Division No. 11 F.B. 2822 Pg. 43

Date ____ Date ____ Survey of HYDRO SURVEYS

X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes W.A.R. Date 6-27-69

Date ____ Date ____ Map No. ____ Indexed C.J. GALLI Date 12-4-69



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

Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Min.	Card No
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
N 124	N 125	7:45	1	303	20			
			2	305	08			
			3	306	11			
			4	307	16			
			5	308	19			
			6	309	12			
			7	309	58			
			8	311	08			
			9	312	41			
			10	313	46			
			11	315	06			
			12	316	41			
			13	318	02			
			14	319	17			
			15	321	34			
			16	322	52			
			17	323	58			
			18	325	23			
			19	326	58			
			20	328	21			

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

765420A • CE 353A • Cdb 9-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F. B. 2822 Page 77 Job No. 63000 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of HYDRO SURVEYS - MALIBU Date ____ Date ____ No. ____
Survey by RICHARDS Notes W.A.R. Notes Chkd. ____ Checked ____ X-Sec. ____
Indexed C.J. GALLI Date ____ Date ____ No. ____

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
			21	331	44			
			22	334	02			
			23	335	30			
			24	337	09			
			25	339	18			
			26	341	11			
			27	343	45			
			28	345	34			
			29	346	43			
			30	348	41			
		7:52	31	350	04			

CON'T
RANGE 1300 + 50.49

76-L-298 CE 307 5-66

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
				STA 1303 + 14.81		
Sight on D-1A					77°52' Lt.	
T.P.				12.35	T.P. Cont from STA. 1300+50.49	
T.P.				13.78	T.P. 1"x2" @ STA.	Sand
				14.4	7.5 Rt. @ House	
				16.45	7.5 Rt. Floor Elev. House.	
				12.2	16' Lt. Brk. Sand	
	-0 27	6 71		6.98	46' Lt. 1"x2" Sand	
					AT 1297+98.97 SIGHT N125	
			154	-8 7	4# 1 31° 07'	
			167	-10 0	2 32 36	
			155	-8 8	3 28 49	
			138	-7 1	4 25 14	
			115	-4 8	5 22 02	
			98	-3 2	6 18 40	
			82	-1 3	7 15 30	
			64	0 3	8 11 28	
			49	1 8	9 8 22	
			21	4 6	54 FT LEFT M.H.T.	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date [illegible]

F.B. 2822 Pg. 75

F. B. 2822 PG 46 | Job No. ____ Division No. ____ Notes Red ____ Plotted ____ Profile

Survey of ____ Date ____ Date ____ No. ____

Survey by ____ Notes ____ Notes Chk'd. ____ Checked ____ X-Sec.

Indexed ____ Date ____ Date ____ Date ____ No. ____

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

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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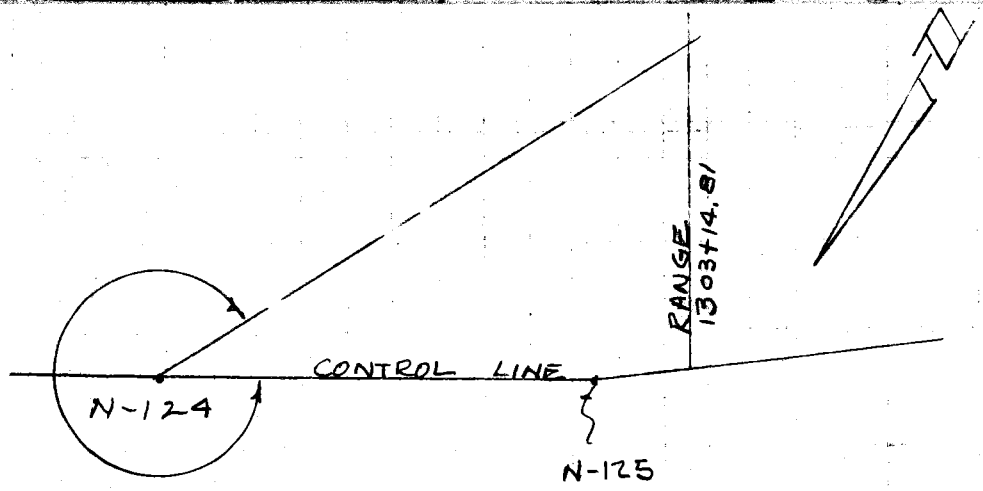
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 230002 Division No. 11 F.B. 2822 Pg. 47

X-Sec. No. ____ Date ____ Date ____ Survey of HYDRO SURVEYS - MALIBU

Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes W.A.R. Date 6-27-69

Date ____ Date ____ Map No. ____ Indexed C.J. GALLI Date [illegible]



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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

Inst. At Don't Punch	Sight On Don't Punch	Time Don't Punch	Angle No Don't Punch	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Deg.	For Office Use Only Line Min.	For Office Use Only Card No
N-124	N-125	8:00	1	307	16			
			2	308	20			
			3	309	47			
			4	310	59			
			5	312	36			
			6	314	09			
			7	316	05			
			8	317	07			
			9	318	17			
			10	319	22			
			11	320	04			
			12	321	05			
			13	322	03			
			14	323	04			
			15	323	53			
			16	325	00			
			17	326	29			
			18	329	25			
			19	330	50			
			20	332	33			

76S420A - CE 353A - Cdb 9-62

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LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
			21	333	49			
			22	335	38			
			23	338	12			
			24	339	36			
			25	340	08			
			26	343	00			
			27	344	03			
			28	345	23			
			29	346	48			
			30	348	24			
			31	349	29			
			32	350	59			
		8:08	33	351	42			

CON'T.
RANGE 1303 + 14.81 N.

F. B. 2822 Pg. 48 Job No. 030002 Division No. 11 Notes Red. Plotted Profile
Survey of HYDRO SURVEYS - MALIBU Date Date No. X-Sec.
Survey by RICHARDS Notes W. A. R. Notes Chkd. Checked
Indexed C. T. GALLI Date Date Date No.

76-L-298 CE 307 5-66

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.		
				STA. 1305 + 70.52		
	SIGHT on D-1A					77°52' Lt.
T.P.				13.78	T.P. Cont. from STA. 1303 + 14.81	
T.P.				12.29	T.P. 1"x2" @ STA	Sand
				14.1	15' Rt. Sand	
				15.1	25' Rt	"
				15.8	40' Rt	"
	-054	643		6.97	30' Lt. 1"x2" Sand.	
					⊼ AT 1303 + 14.81	SIGHT AHEAD, STA 1308
			18	46	43 FT LEFT M.H.T.	
			47	17	∡#1 13° 44	
			65	01	2 19 41	
			82	-18	3 25 50	
			103	-39	4 30 52	
			138	-74	5 35 11	
			142	-78	6 38 35	
			158	-94	7 43 11	
			153	-89	8 46 00	
			164	-100	9 48 26	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2822 Pg. 49
Date ____ Date ____ Survey of Malibu Area Hyd. Survey
X-Sec. No. ____ Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date 6-26-69
Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date [illegible]

F. B. 2822 PG. 50

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

Survey of _____ Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

765420A - CE 353A - Cdb 9-62

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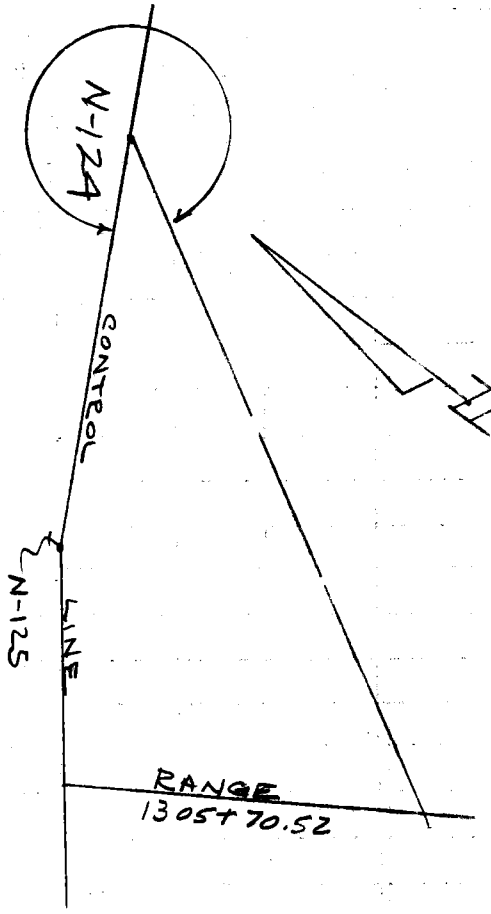
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	FOR OFFICE USE ONLY LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
N-124	N-125	8:20	1	311	49			
			2	312	24			
			3	313	43			
			4	314	25			
			5	315	18			
			6	316	25			
			7	317	43			
			8	319	11			
			9	320	20			
			10	321	25			
			11	322	36			
			12	323	37			
			13	325	16			
			14	326	53			
			15	327	58			
			16	329	14			
			17	330	26			
			18	332	22			
			19	334	08			
			20	335	53			



Profile Notes Red. Plotted Job No. 03000 Division No. 11 F. B. 2822 Pg. 51
No. Date Date Survey of HYDRO SURVEY - MALIBU
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes J.B. Date 6-27-62
No. Date Date Map No. Indexed T. GALLI Date

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F. B. 28722 Pg. 52 Job No. 03007 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of HYDRO SURVEY - MALIBU Date ____ Date ____ No. ____
Survey by RICHARDS Notes W.A.R. Notes Chkd. ____ Checked ____ X-Sec. ____
Indexed G. GALLI Date ____ Date ____ No. ____

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
			21	337	04			
			22	338	44			
			23	340	01			
			24	341	42			
			25	343	14			
			26	344	56			
			27	346	27			
			28	348	08			
			29	348	58			
			30	350	12			
			31	350	40			
			32	351	53			
		8:27	33	352	39			

RANGE 1305 + 70.52 N.

76-L-298 CE 307 5-66

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line. D-1A 1312+41.16

STATION	B. S.	H. I.	F. S.	ELEV.		
					STa. 1308 +26.23	
	Sight on D-1A					77°52' Lt.
T.P.				12.29	Cont. from STa. 1305+70.52	
T.P.				11.82	T.P. 1"X2" @ STa, Sand	
				14.0	20' Rt.	Sand
				15.9	35' Rt.	Brk. "
				16.0	40' Rt	Sand
				16.4	80' Rt	"
				6.91	25' Lt. 1"X2" ~~Sand~~	
T.P.				13.78	T.P. only	
TBM #96				12.48	TBM #96 El. 12.48	
					⊼ AT 1303+14.81	SIGHT 1308+26.23
	+051	6.40		6.91	T.P. 1"X2" 25 LEFT	
				6.5	25 LEFT SAND	
			163	-9.9	∡#1 33° 00'	
			161	-9.7	2 30 20	
			164	-10.0	3 27 28	
			152	-8.8	4 24 05	
			140	-7.6	5 20 55	
			108	-4.4	6 17 44	
			120	-5.6	7 19 32 out	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2822 Pg. 53
No. ____ Date ____ Date ____ Survey of Malibu Area Hyd. Survey
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 6-[illegible]-69
No. ____ Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date JL-9[illegible]

76-L-298 CE 307 5-66

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
		640				
			93	-29	∡ #8	15° 40'
			70	-06	9	11 59
			60	04	10	9 00
			49	15	11	6° 29'
			18	46	38 FT LEFT M.H.T	

F.B. 2822 PG. 54 | 03 00 02

Job No. Division No. 11 Notes Red Plotted Profile

Survey of MALIBU AREA HYDRO Date Date No.

Survey by RICHARDS Notes DREIER Notes Chk'd. Checked X-Sec.

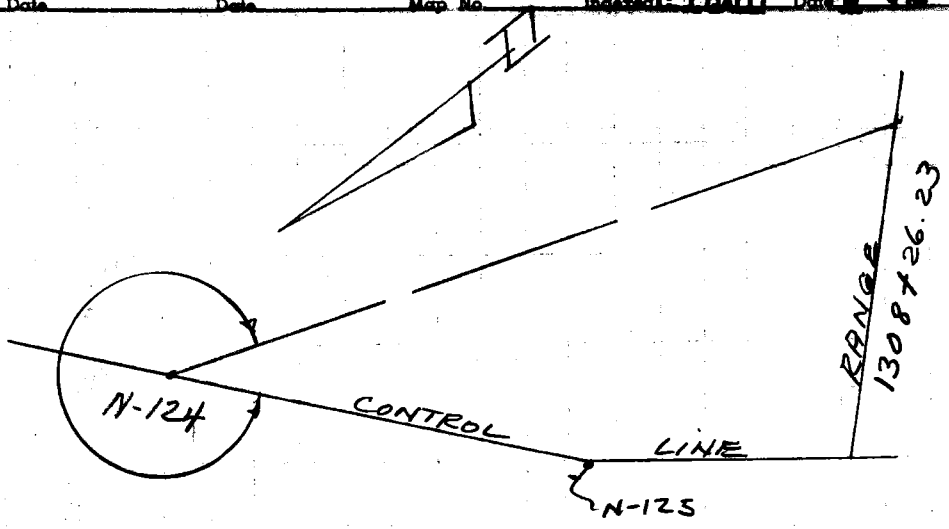
Indexed C. J. GALLI Date Date Date No.

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 030002 Division No. 11 F. B. 2822 Pg. 55

X-Sec. No. _____ Date _____ Date _____ Survey of HYDRO SURVEYS - MALIBU

Notes Chkd. _____ Checked _____ Survey by RICHARDS Notes W.A.R. Date 6-27-63

Date _____ Date _____ Map No. _____ Indexed C. T. GALLI Date [illegible]



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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
N-124	N-125	8:38	1	315	53			
			2	316	51			
			3	317	30			
			4	318	15			
			5	319	25			
			6	320	20			
			7	321	05			
			8	322	19			
			9	323	46			
			10	324	43			
			11	325	24			
			12	326	09			
			13	326	58			
			14	328	15			
			15	329	35			
			16	330	51			
			17	331	47			
			18	332	23			
			19	334	02			
			20	336	06			

76S420A - CE 353A - Cdb 9-62

PLEASE RETURN TO

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
N-124	N-125		21	337	16			
			22	339	11			
			23	340	15			
			24	341	04			
			25	342	55			
			26	344	35			
			27	345	45			
			28	346	50			
			29	347	51			
			30	348	56			
			31	349	40			
			32	350	40			
			33	351	17			
			34	351	52			
		8:46	35	352	52			

F.B. 2822 Pg. 56 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO SURVEY Date Date No.

Survey by RICHARDS Notes W.AR Notes Chkd. Checked X-Sec.

Indexed G.J. GALLI Date Date Date No.

Notes Ck'd by	Survey of HYDROGRAPHIC SURVEY
Map No.	JN 0300.02 Tape — Std — °F
Office Work	Surveyed by RICHARDS
Checked	Notes UHARRIET Date 6-27-69
Date	Indexed C.J. GALLI JUL - 9 '69

F. B 2822 PG. 57

TIDE GAGE READINGS
JUNE 27, 1969
TIME — P.S.T.
DATUM — M.L.L.W.

TIME	TIDE
6:00	2.8
6:30	3.0
7:00	3.4
7:30	3.5
8:00	3.5
8:30	3.4
9:00	3.2
9:30	3.1
10:00	2.8
10:30	2.6
11:00	2.4
11:30	2.3
12:00	2.3
12:30	2.2
1:00	2.4
1:30	2.6
2:00	2.9

NOTE — TIDE GAGE IS LOCATED AT SOUTH END OF BERTH 60, L.A. OUTER HARBOR.

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

PLEASE RETURN TO
COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76F309S CE#310 3-68

F. B 2822 PG 58

PLEASE RETURN TO
COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Notes Ck'd by	Survey of HYDRO-SURVEY	F. B 2822 PG. 57
Map No.	JN 0300.02 Tape — Std — °F	
Office Work	Surveyed by W. A. RICHARDS	
Checked	Notes W. A. R. Date 6-70	
Date	Indexed W. E. OTT JUL 23 '70	

J. N. 0300.02

HYDROGRAPHIC SURVEYS

FROM: WESTWARD BEACH
TO: LECHUZA POINT

NOTE: VERTICAL DATUM = M.L.L.W.
TIME IS PACIFIC STANDARD TIME

CONTROL SURVEYS REF.: F.B. 2100
" " " " 930
" " " C.S.B. 2311-1

SURVEY LETTER NO. 5534 (A)

RICHARDS	BAZEN	MYERS	DREIER
WILKS	KAPP	LEGAULT	MALDONADO
NUNEZ	TURRILL	BUSTRUM	SIEMAN
LIEBER	TULLIER	PRIEBE	McKNIGHT

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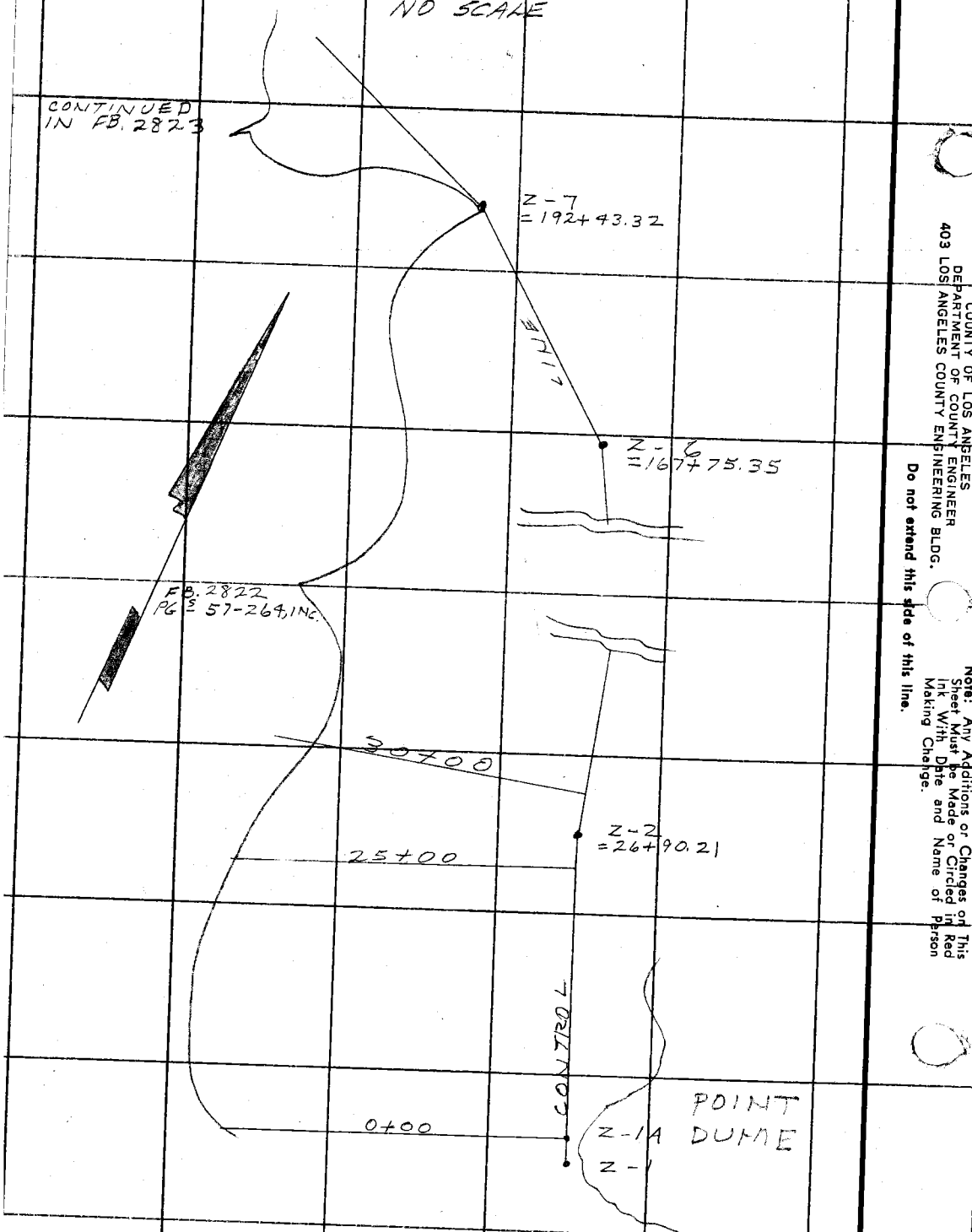
76F309S CE#310 3-68

F. B. 2822 PG. 58

AREA MAP
NO SCALE



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Notes Ck'd by	Survey of HYDROGRAPHIC SURVEY
Map No.	JN 0300.02 Tape Std °F
Office Work	Surveyed by RICHARDS
Checked	Notes UHARRIET Date 6-22-70
Date	Indexed H. E. OTT JUL 23 '70

F.B. 2822 PG. 59

TIDE GAGE READINGS
JUNE 22, 1970
TIME — P.S.T.
DATUM — M.L.L.W.

TIME	TIDE
6:00	-1.4
6:30	-1.2
7:00	-0.8
7:30	-0.3
8:00	0.3
8:30	0.9
9:00	1.4
9:30	2.0
10:00	2.6
10:30	3.1
11:00	3.5
11:30	3.6
12:00	3.7
12:30	3.8
13:00	3.6
13:30	3.4
14:00	3.2

NOTE — TIDE GAGE STATION IS LOCATED AT SOUTH END OF BERTH 60, L.A. OUTER HARBOR.

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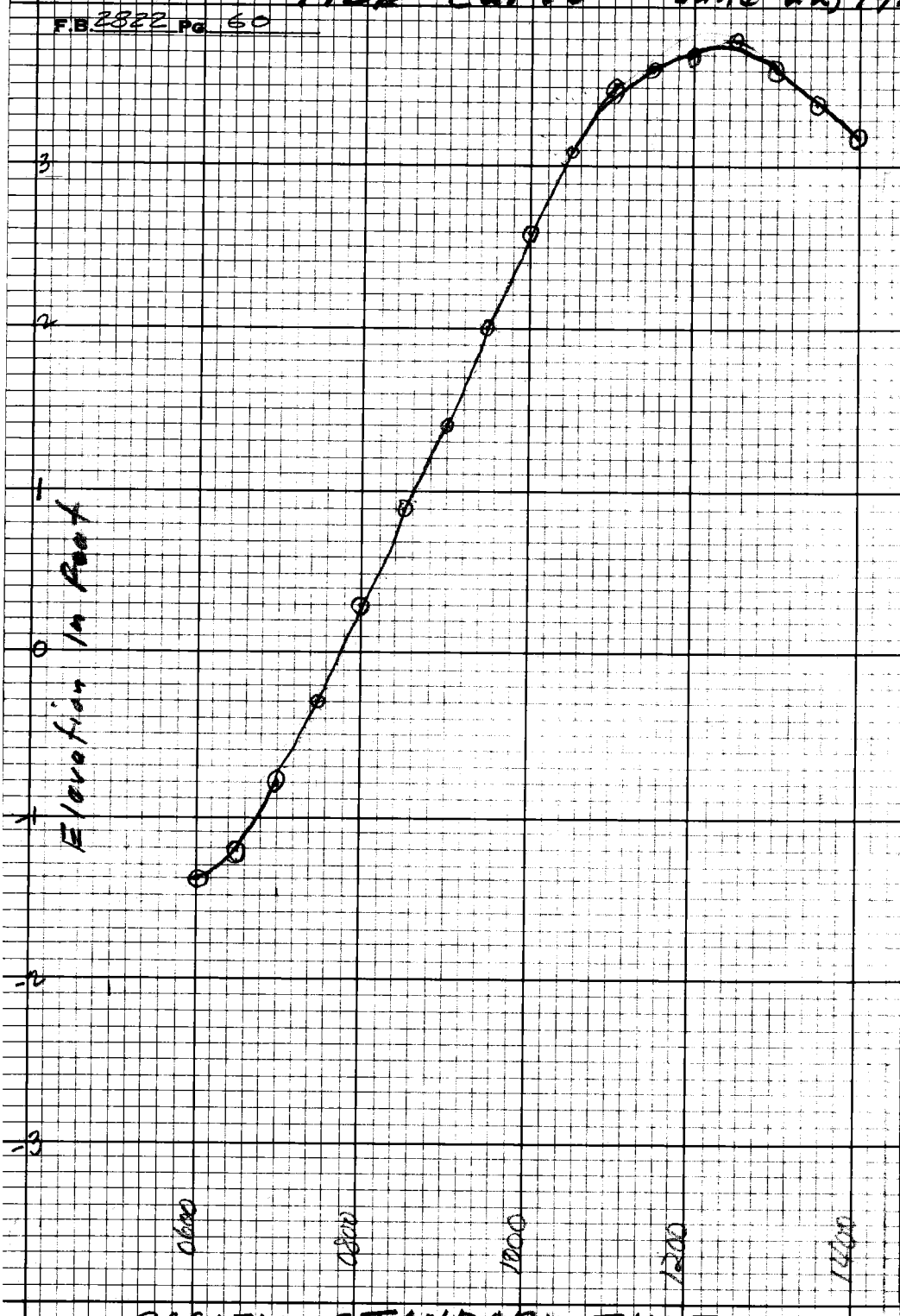
76F3098 CE#310 9-67

TIDE CURVE June 22, 1970

F.B. 2822 Pg. 60



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76-L-298 CE 307 5-66

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Z-1A	0+00
Z-1A 0+00				10 37	B.M. Z-1A El.= 10.37	F.B. 3790-142
					C.E. Brass Cap Mon.	DN. 18" Pipe F.B.
					2100-103, 45' N. of Face of Cliff	
					ON Beach At Point Dume, 15' S.W.	
					of Toe Slope of Front Bank.	
				12 5		5 5 Rt. Bot Brk
				14 0		7 5 " Top "
				10 9	77' Lt Top Brk	
				8 5	79' Lt. Bot Brk	
				10 19	T.P. 99' Lt. Top Rock (Keel Mark)	
				4 60	110.7 Lt. M.H.W	
T.P.				4 82	110.7 Lt. 1"x2" Stk. T.P.	
T.P.				4 94	T.P. ON Range Line 5+00 (1x2 Stk.)	
					⊼ AT 10+00	SIGHT ON 0+00
	102	5 84		4 82	T.P.	
			17	4 1	115 LEFT SAND	#1 NO ANGLE
			5-8	± 00		2 8° 58'
			77	-19		3 11° 20'
			11.1	-53		4 DATUM 14° 55'
						MEAN LOWER LOW WATER

CONT.

Profile No. ____ X-Sec. No. ____ Notes Red ____ Date ____ Notes Chk'd. ____ Date ____ Plotted ____ Date ____ Checked ____ Date ____ Job No. C-100 Survey of Beach Profile Survey by MYERS Map No. ____ Division No. 11 Notes DEGIER Indexed H. E. OTT Date JUL 23 70 Date 6-22-70 F.B. 282 PG. 61

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.	Z-1A	0100
		584'			CONT.	
			121	-63'	5 16° 37'	
			145	-87'	6 18° 55'	
			150	-92'	7 21° 24'	
			175	-117'	8 23° 20'	

DATUM
MEAN LOWER LOW WATER

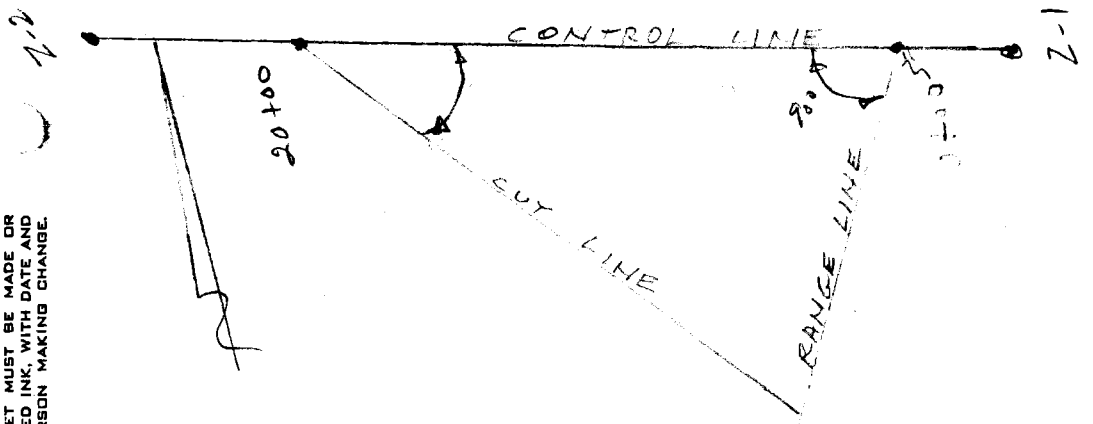
F. B. 2822 PG. 62
Job No. 0300 02 Division No. 11
Survey of Beach Erosion (Zuma Beach)
Survey by Notes DREIER
Indexed Date
Notes Red Date
Notes Chk'd. Date
Plotted Date
Checked Date
Profile No.
X-Sec. No.

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 030002 Division No. 11 F.B. 2822 Pg. 63

X-Sec. No. _____ Date _____ Date _____ Survey of HYDRO-SURVEY - ZUMA BEACH

Notes Chkd. _____ Checked _____ Survey by RICHARDS Notes B.N. Date 6-22-70

Date _____ Date _____ Map No. _____ Indexed H.E. OTT Date JUL 23 '70



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PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
20+00	Z-1	6:45	1	26	43			
			2	25	55			
			3	24	57			
			4	24	05			
			[illegible]	23	10			
			6	22	15			
			[illegible]	21	13			
			8	20	17			
			9	19	44			
			10	19	10			
			11	18	20			
			12	17	36			
			13	16	41			
			14	15	55			
			15	15	09			
			16	14	33			
			17	13	47			
			18	13	06			
		6:50	19	12	28			

76L298 307 Cdb 12-62

F. B. 2822 PG. 64 | 0300.02

Job No. _____ Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of ZUMA BEACH Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					

Do not extend notes this side of this line.

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STATION	B. S.	H. I.	F. S.	ELEV.		
					OK	5+00
5+00				4 94	T.P. 1X2" ON Range Line 5+00 (From Last page)	
				14 "	T.P. "	
				17 4		58' Lt. Top Bk
T.P.				22 69	T.P. "	
				28 5		106' Rt. Top Bk.
				28 10		115' " Edge Lip
T.B.M. #1				29 69	T.B.M. #1 El. = 29.65 F.B. 3190-142	
				16 9	5' Lt. Top Bk.	
				13 5	24' " Top "	
T.P.				12 86	T.P. 1X2"	
				11 9	14' Lt. Top. Bk.	
				4 60	162' Lt M.H.W. OK	
T.P.	104	60 5 98	OK	4 94	162' Lt. 1X2 ON Range Line 5+00 T.P.	

					SIGHT ON	0+00	
					AT	10+00	
					DIST.		
		180	-12 0	1	44°	44'	495'
		154	- 9 4	2	42°	05	452'
		135	- 7 5	3	38°	34	399'
		113	- 5 3	4	34°	27	343'
		93	- 3 3	5	30°	24	293'
		83	- 2 3	6	27	41	262
		61	- 0 1	7	22	45	210
		30	30	180 FT. LEFT			

Profile Notes Red ____ Plotted ____ Job No. 0300 Division No. 11
No. ____ Date ____ Date ____ Survey of Rancho Palos Verdes Tower Road
X-Sec. Notes Chk'd. ____ Checked ____ Survey by HYERS Notes ____ Date 6-22-70
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 70
F. B. 28 Pg. 67

F. B. 2822 PG. 66

Job No. 0300 02 Division No. 11 Notes Red ______ Plotted ______ Profile

Survey of Beach Erosion (Long Beach) Date ______ Date ______ No. ______

Survey by ______ Notes ______ Notes Chk'd. ______ Checked ______ X-Sec.

Indexed ______ Date ______ Date ______ Date ______ No. ______

STATION	B. S.	H. I.	F. S.	ELEV.	
			30		+85
					5700

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76-L-298 CE 307 5.66

76L298 307 Cdb 12-62

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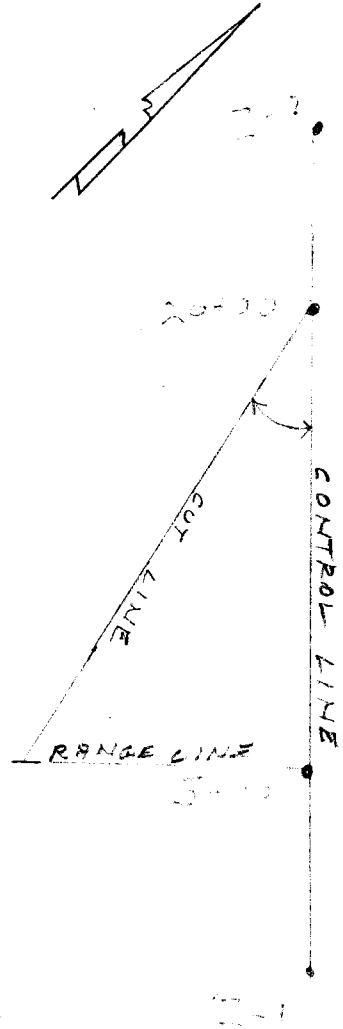
INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
20+00	Z-1	7:00	1	34	59			
			2	33	55			
			3	32	58			
			4	32	13			
			5	31	24			
			6	30	38			
			7	29	50			
			8	29	05			
			9	28	31			
			10	27	40			
			11	26	51			
			12	26	05			
			13	25	13			
			14	24	20			
			15	23	36			
			16	22	29			
			17	21	29			
			18	20	36			
			19	19	46			
			20	19	09			



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 28-22 Pg. 67

No. ____ Date ____ Date ____ Survey of ZUMA BEACH

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes B.N. Date 6-22-70

No. ____ Date ____ Date ____ Map No. ____ Indexed H.E. OD Date JUL 23 '70

F. B. 2822 PG 68 | 0300.02

Job No. ____ Division No. 11 Notes Red. ____ Plotted ____ Profile

Survey of ZUMA BEACH Date ____ Date ____ No. ____

Survey by RICHARDS Notes B. N. Notes Chkd. ____ Checked ____ X-Sec.

Indexed ____ Date ____ Date ____ Date ____ No. ____

Inst. At Don't Punch	Sight On Don't Punch	Time Don't Punch	Angle No Don't Punch	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
20+00	Z-1		21	18	10			
			22	17	30			
			23	16	47			
		7:05	24	16	00			

Do not extend notes this side of this line.

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761298 307 Cdb 12-62

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.		10+00
T.B.M.#1				29 65	T.B.M.#1 El = 29.65	F.B. 3790-142
T.P.				30 48	T.P. (S+N) El = 30.49	F.B. 3790-142
T.P.				24 24	"	
10+00				18 7		15' Rt. Top Brk
				19 7		70' " Bot "
				31 2		124' " Top "
				30 37		131' " Top "
				17 47		℄ 1x2' Stk.
				14 6	18' Lt. Bot Brk.	
				12 1	21' " Top "	
				ok 4 60	141' Lt. M.H.W.	
T.P.	116	6 04		ok 4 88	14' Lt. 1x2 Stk. T.P.	
					↑ AT 20+00 SIGHT ON 0+00	
			5 1	09	1 9° 59'	
			6 5	-05	2 11 40	
			8 2	-22	3 14 05	
			9 7	-37	4 16 50	
			10 9	-49	5 18 24	
			12 6	-66	6 20 09	
			13 2	-72	7 21 18	
			14 0	-80	8 24 00	
			15 7	-97	9 25 12	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 2300 Division No. ____
No. ____ Date ____ Date ____ Survey of [illegible] Flood Control Dept.
X-Sec. Notes Chk'd. ____ Checked ____ Survey by MYERS Notes [illegible] Date 6-22-70
No. ____ Date ____ Date ____ Map No. ____ Indexed H E OTT Date JUL 23 '70

F. B. 2822 Pg. 9

F. B. 2822 PG. 70

Job No. 0300 02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion (Zuma Beach) Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

STATION	B. S.	H. I.	F. S.	ELEV.
				10+00

DATUM
MEAN LOWER LOW WATER

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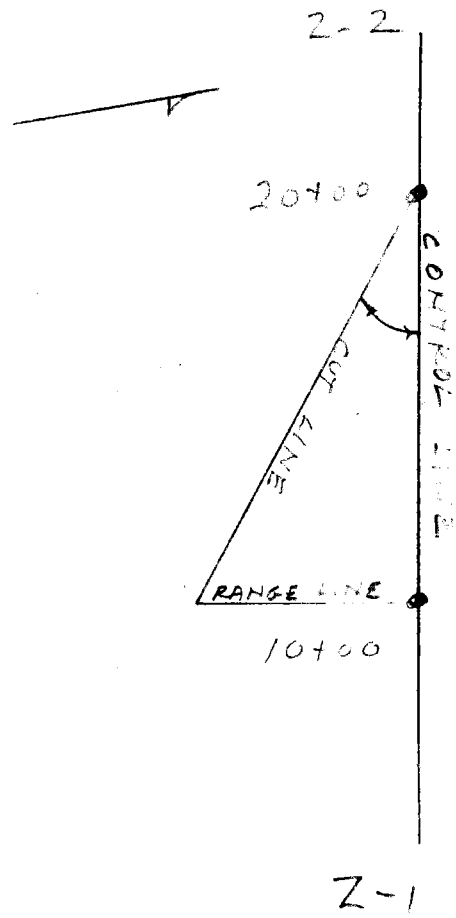
Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
20+00	Z-1	7:15	1	52	41			
			2	51	39			
			3	50	60	——	X	
			4	50	13			
			5	49	33			
			6	48	38			
			7	47	48			
			8	46	55			
			9	46	13			
			10	45	13			
			11	44	25			
			12	43	16			
			13	42	13			
			14	41	12			
			15	40	22			
			16	39	06			
			17	37	38			
			18	37	07			
			19	36	11			
			20	35	02			



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2972 Pg. 71

No. ____ Date ____ Date ____ Survey of ZUMA BEACH

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARD: Notes W.A.R. Date 6-22-70

No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F.B. 2822 PG. 72 | Job No. 030002 Division No. 11 Notes Red. Plotted Profile

Survey of ZUMA BEACH Date Date No.

Survey by RICHARDS Notes B.N. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
20+00	Z-1		21	34	06			
			22	33	15			
			23	32	04			
			24	30	45			
			25	29	31			
			26	28	29			
			27	27	25			
			28	26	06			
		7:20	29	25	13			

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.		15+00
10+00				17 47		℄ T.P. 1X2" Stk. Left Edge
15+00				18 42		℄ T.P. 1X2" Stk.
				19 9		16' Rt. Top Brk.
				23 4		76' Rt. Sand
				26 9		131' Rt. Sand
				26 37		161' Rt. Edge Road
				13 5	58' Lt. Top Brk.	
T.P.				9 77	T.P. 78' Lt.	
				4 60	114' Lt. M.H.W.	
T.P.	157	648		4 91	114' Lt. 1X2" Stk. T.P.	
					⊼ Occupy 20+00	SIGHT ON 0+00
			171	-106	#1 43° 50'	
			151	-86	2 40 46	
			136	-71	3 36 43	
			108	-43	4 30 24	
			97	-32	5 27 17	
			84	-19	6 22 47	
			55	10	7 17 27	
			30	35	8 130 Ft Left	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. ____ Division No. ____
Date ____ Date ____ Survey of Beach Erosion (Zuma Beach)
X-Sec. No. ____ Notes Chk'd. ____ Checked ____ Survey by Myers - Notes Dreier Date 6-22-70
Date ____ Date ____ Map No. ____ Indexed H. E. Ott Date Jul 23 '70

F. B. 2822 Pg. 3

F. B. 2822 PG. 77

Job No. 0300 02 Division No. 11 Notes Red______ Plotted______ Profile

Survey of Beach Erosion (Zuma Beach) Date______ Date______ No.______

Survey by______ Notes______ Notes Chk'd.______ Checked______ X-Sec.

Indexed______ Date______ Date______ Date______ No.______

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

15+00

DATUM
MEAN LOWER LOW WATER

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403 Los Angeles County Engineering Bldg.

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76-L-298 CE 307 5.66

76L298 307 Cdb 12-62

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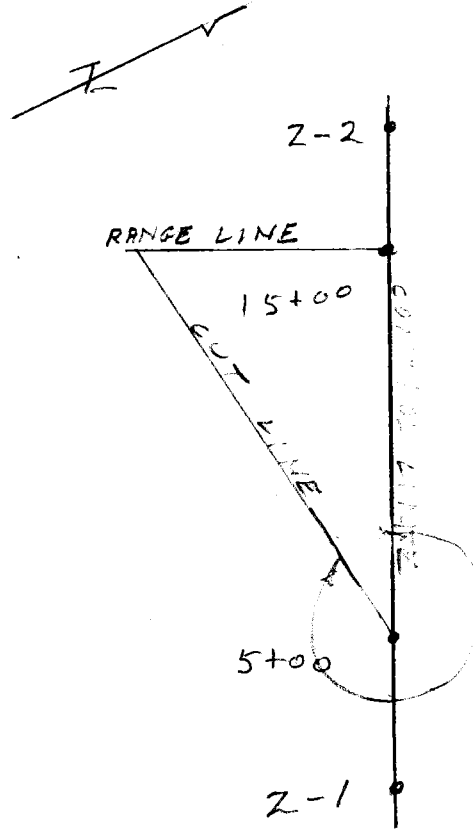
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
5+00	Z-2	7:36	1	304	30			
			2	305	24			
			3	306	45			
			4	307	24			
			5	308	09			
			6	308	56			
			7	309	45			
			8	310	33			
			9	311	38			
			10	312	15			
			11	313	10			
			12	314	25			
			13	315	32			
			14	316	38			
			15	317	47			
			16	318	39			
			17	319	26			
			18	320	35			
			19	321	34			
			20	322	37			



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 030002 Division No. 11 F.B. 2972 Pg. 75

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

Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes B.N. Date 6-22-70

Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No.	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
5+00	Z-2		21	323	47			
			22	324	59			
			23	325	50			
			24	326	51			
			25	327	52			
			26	328	48			
			27	330	01			
			28	331	10			
			29	331	26			
			30	331	34			
			31	332	14			
			32	333	40			
			33	335	18			
			34	336	23			
			35	338	07			
		7:43	36	339	03			

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date Notes Chkd. Date

Division No. 11 Job No. 030002

Survey of NUMA BEACH Notes B.N.

Survey by RICHARDS

Indexed Date

F.B. 282 Pg. 76

76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.		20+00
T.P. (15+00)				4 91	T.P. K2' Stk. From last page	
20+00				16 93		$ K2' Stk.
				17 4		57' Rt. Sub.
				19 6		100' Rt. Bot. Bnk.
T.P.				20 90		105' Rt.
				22 7		136' Rt. Top Bnk.
				24 35		177' Rt. Edge Pav.
B.M. Z-E4				26 41	B.M. Z-E4 51. = 26.41	F.B. 3770-1-43
201 . 00				16 93		$ K2' Stk.
				15 5	27' Lt. Top Bnk.	
				13 3	64½ Lt. Top Bnk.	
				4 60	126½ Lt. M.H.W.	
	187	6 75		4 88	126½ Lt. T.P. K2' Stk.	
					⊥ ⊥ OCCUPY 15+00	SIGHT ON 20+00
			32	36'	153 FT. LEFT	
			51	17'	1 17° 26'	
			66	02'	2 ×	(MISSED 4)
			69	-01.	3 21° 42'	
			82	-14	4 24 51	
			95	-27'	5 29 14	
			103	-35'	6 31 15	

DATUM
MEAN LOWER LOW WATER

CONT.

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. 11
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 6-22-70
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F. B. ____ Pg. ____

76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.		20+00
		8. 6 75			CONT.	
			130	-62'	7 36° 35'	
			154	-86'	8 40 13	

DATUM
MEAN LOWER LOW WATER

F. B. 2822 PG. 78

Job No. 0300 02 Division No. 11 Notes Red ____ Plotted ____ Profile ____

Survey of Beach Erosion (Zuma Beach) Date ____ Date ____ No. ____

Survey by Richards Notes DREIER Notes Chk'd. ____ Checked ____ X-Sec. ____

Indexed ____ Date ____ Date ____ Date ____ No. ____

76L298 307 Cdb 12-62

PLEASE RETURN TO

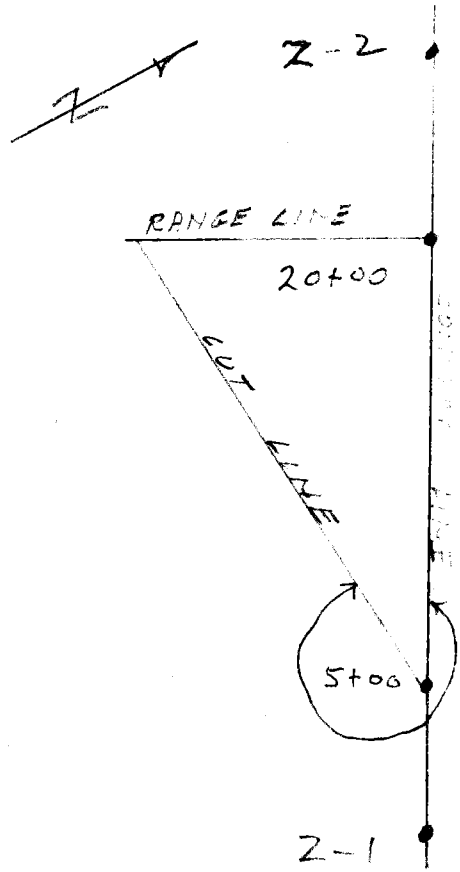
LOS ANGELES COUNTY SURVEYOR

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	FOR OFFICE USE ONLY LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
5+00	Z-2	7:51	1	314	34			
			2	315	29			
			3	316	10			
			4	316	59			
			5	317	42			
			6	318	25			
			7	319	18			
			8	320	13			
			9	321	03			
			10	321	55			
			11	322	44			
			12	323	41			
			13	324	41			
			14	325	44			
			15	326	54			
			16	327	60			
			17	329	12			
			18	330	28			
			19	331	26			
			20	332	35			



Profile Notes Red. Plotted Job No. 23002 Division No. 11 Pg. 74

No. Date Date Survey of ZUMA BEACH

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes B.H. Date 6-22-70

No. Date Date Map No. Indexed H. E. OTT Date JUL 23 '70

F. B. 2822 PG. 80 | Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of ZUMA BEACH Date Date No.

Survey by RICHARDS Notes B. N. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

76L298 307 Cdb 12-62

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.

INST. AT DON'T PUNCH	SIGHT ON DON'T PUNCH	TIME DON'T PUNCH	ANGLE Nº DON'T PUNCH	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº.
5+00	Z-2		21	333	47			
			22	334	41			
			23	335	45			
			24	336	33			
			25	337	26			
			26	338	20			
			27	338	52			
			28	339	50			
			29	340	24			
			30	341	15			
		7:58	31	341	59			

76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.		25+00
20+00				16 93		℄ 1"x2" Stk. [illegible]
25+00				14 18		℄ 1"x2" Stk.
				18 4		46' Rt. Bot. [illegible]
				12 4	84' Lt. Top Brk	
				4 60	142' Lt. M.H.W.	
	1 31	6 28		4 97	142' Lt. 1"x2" Stk. T.P.	
					⊼ OCCUPY 15+00	SIGHT ON 25+00
			163	-10 0	1 26° 52	
			150	-8 7	2 25 00	
			132	-6 9	3 22 16	
			105	-4 2	4 19 08	
			94	-3 1	5 14 43	
			56	+0 7	6 11° 15'	
			27	+3 6	⊼ 155 Left	NO ⊼

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. [illegible] Division No. [illegible]
No. ____ Date ____ Date ____ Survey of [illegible] (Trans Beach)
X-Sec. Notes Chk'd. ____ Checked ____ Survey by MYERS Notes DREIER Date 6-22-76
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F. B. [illegible] PG. 81

F. B. 2822 PG. 82

Job No. 0300 02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion (Zuma Beach) Date _____ Date _____ No. _____

Survey by RICHARDS Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

76-L-298 CE 307 5-66

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.		
						25+00

DATUM
MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

PLEASE RETURN TO

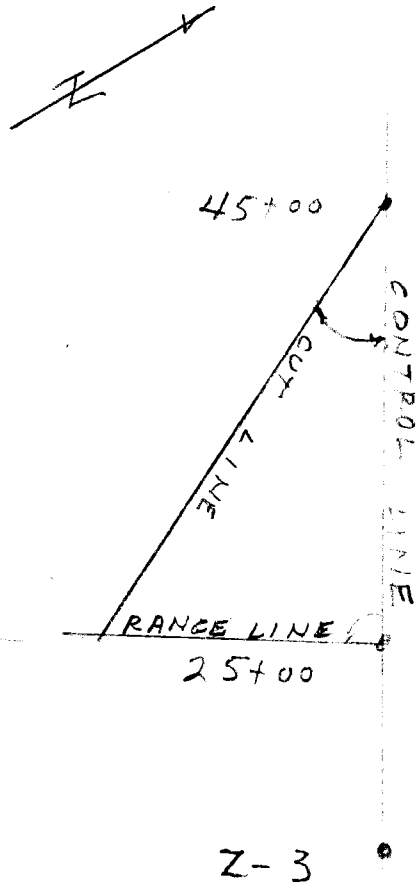
LOS ANGELES COUNTY SURVEYOR

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
45+00	Z-3	8.32	1	48	50			
			2	47	53			
			3	46	49			
			4	45	58			
			5	45	08			
			6	44	10			
			7	43	17			
			8	42	20			
			9	41	27			
			10	40	35			
			11	39	45			
			12	38	50			
			13	38	05			
			14	37	13			
			15	36	23			
			16	35	27			
			17	34	32			
			18	33	30			
			19	32	35			
			20	31	44			



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 E.B. 2822 Pg. 83

No. ____ Date ____ Date ____ Survey of ZUMA BEACH

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes B.N. Date 6/22/70

No. ____ Date ____ Date ____ Map No. ____ Indexed H.E. OD Date JL 23 70

E.B. 2822 Pg. 84 | Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of ZUMA BEACH Date Date No.

Survey by RICHARDS Notes B.N. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

Inst. At Don't Punch	Sight On Don't Punch	Time Don't Punch	Angle No Don't Punch	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
45+00	Z-3		21	30	53			
			22	29	56			
			23	28	48			
			24	27	42			
			25	26	55			
			26	26	09			
			27	25	29			
			28	24	23			
			29	23	33			
			30	22	40			
			31	21	43			
			32	20	53			
		8:38	33	20	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 Cdb 12-62

76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.		30+00
25+00				14 18	T.P. 1x2 Stk.	
30+00				19 45		& 1x2" Stk.
				20 4		45' Rt. Bot Brk.
				24 2		6' Rt Top Brk.
				12.8	87' Lt. Top Brk.	
				5 4	135' Lt. Bot Brk.	
	167	3 7 29		5 62	135' Lt. 1x2 Stk. TP	
					π OCCUPY Z-2 BACKSIGHT ON Z-1	
			27	4 6	142 MHW	
			55	18	1 26° 14'	
			70	03	2 30 28	
			88	-15	3 35 21	
			94	-21	4 34 43	
			110	-37	5 42 54	
			124	-51	6 46 40	
			153	-80	7 50 30	
			160	-87	8 52 28	
			169	-91	9 54 35	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 70

F. B. ____ PG. ____

F. B. 2822 PG. 86 | Job No. 0300 02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion (Zuma Beach) Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

STATION	B. S.	H. I.	F. S.	ELEV.
				30400

DATUM
MEAN LOWER LOW WATER

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

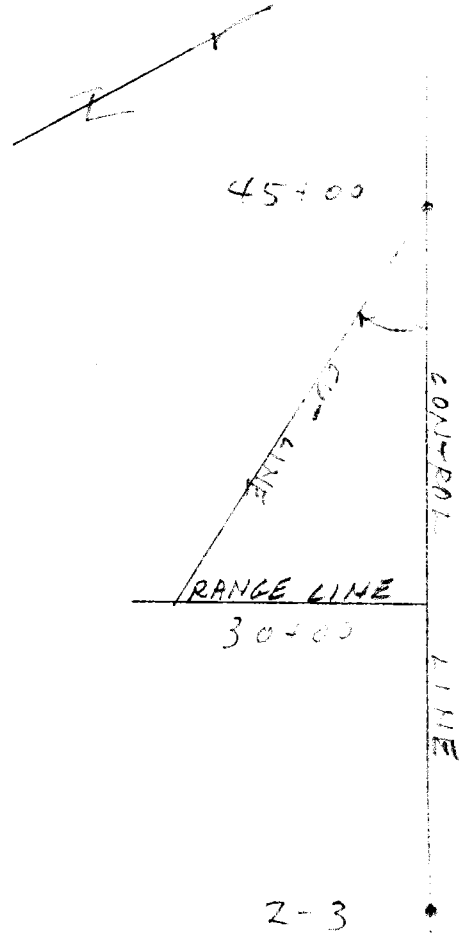
LOS ANGELES COUNTY SURVEYOR

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
45+00	Z-3	8:56	1	58	55			
			2	57	52			
			3	56	49			
			4	55	52			
			5	54	56			
			6	53	46			
			7	52	40			
			8	51	28			
			9	50	23			
			10	[illegible]	26			
			11	48	00			
			12	46	53			
			13	45	53			
			14	44	46			
			15	43	31			
			16	42	08			
			17	40	24			
			18	39	03			
			19	37	37			
			20	36	15			



Profile Notes Red. ____ Plotted ____ Job No. 030002 Division No. 11 F.B. 2822 Pg. 87

No. ____ Date ____ Date ____ Survey of ZUMA BEACH

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes B.N. Date 6/22/70

No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
95+00	Z-3		21	34	58			
			22	33	36			
			23	32	14			
			24	30	48			
			25	29	23			
			26	28	13			
			27	26	40			
			28	25	09			
			29	24	02			
			30	22	55			
			31	21	18			
			32	20	17			
		9:04	33	19	19			

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date Notes Chkd. Date

Division No. 11 Job No. 030002

Notes B.N.

Survey of ZUMA BEACH

Survey by RICHARDS

Indexed

F.B. 2822 Pg. 88

76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.		35+00
30+00				19 45	1"x2" Stk. T.P. From Last Page	
35+00				20 29		& NET
				22 6		22.5 Rt. Bot. Bank
				20 9	17' Lt. Top Brk.	
				14 1	65' Lt. Bot Brk.	
				13 3	101' Lt. Top Brk.	
T.P.	274	8 69		5 95	45' Lt. 1"x2" Stk. T.P.	
					↑ OCCUPY Z-2	SIGHT AHEAD to Z-3
			180	-93	1 29° 42'	
			165	-78	2 27 30	
			141	-54	3 24 52	
			127	-40	4 22 01	
			104	-17	5 17 00	
			79	08	6 13 38	
			54	3.3	7 11° 45'	
			41	46	152 FT LEFT	M HW.

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of [illegible] (Bank Block)
X-Sec. Notes Chk'd. ____ Checked ____ Survey by MYERS Notes PREIER Date 6-22-70
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F. B. [illegible] Pg. 89

F. B. 2822 PG. 90

Job No. 0300 02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion (Zuma Beach) Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

STATION	B. S.	H. I.	F. S.	ELEV.
				35400

DATUM
MEAN LOWER LOW WATER

Do not extend notes this side of this line.

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

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76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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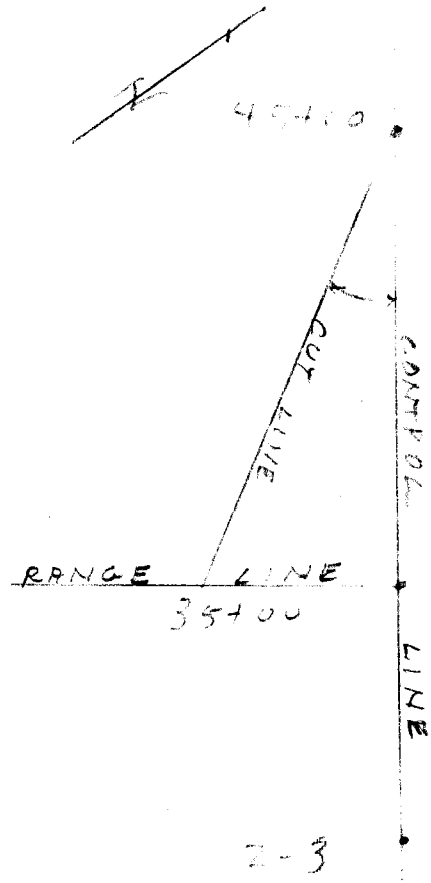
Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
45+00	Z-3	9:13	1	67	14			
			2	66	29			
			3	65	54			
			4	65	06			
			5	64	26			
			6	63	43			
			7	62	50			
			8	62	06			
			9	61	10			
			10	60	30			
			11	59	50			
			12	59	03			
			13	58	12			
			14	57	21			
			15	56	36			
			16	55	41			
			17	55	02			
			18	54	03			
			19	53	18			
			20	52	22			



Profile No.____ Notes Red.____ Plotted____ Job No. 030002 Division No. 11 F.B. 2822 Pg. 91

X-Sec. No.____ Date____ Date____ Survey of ZUMA BEACH

Notes Chkd.____ Date____ Checked____ Date____ Survey by RICHARDS Notes BJJ Date 6/22/70

Map No.____ Date____ Indexed H. E. OTT Date JUL 23 70

76L298 307 Cdb 12-62

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. 2822 Pg. 92 Job No. 030002 Division No. 11 Notes Red. Plotted Profile No.
Survey of ZUMA BEACH Date Date X-Sec. No.
Survey by RICHARDS Notes B.N. Notes Chkd. Checked
Indexed Date Date Date

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
45+00	Z-3		21	51	33			
			22	50	41			
			23	49	51			
			24	48	53			
			25	48	05			
			26	47	03			
			27	46	08			
			28	45	03			
			29	43	57			
			30	43	08			
			31	42	10			
			32	41	01			
			33	39	56			
			34	38	17			
			35	36	55			
			36	35	19			
			37	34	11			
			38	32	41			
			39	31	25			
			40	30	35			
		9:20	41	29	25			

RANGE 35+00

CONTINUED

76-L-298 CE 307 5-66

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

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		40+00
35+00				20 29	N&T T.P. From Last Pg.	
B.M. Z-3				19 43	B.M. Z-3, El. = 19.43	F.B. 3790-14
40+00				14 49		℄ 1"x2" Stk.
				15 2		21' Rt. Bot. Brk.
				17 2		27' Rt. Top Brk.
				19 87		70' Rt. Edge Road
				13 6	93.5 Lt. Top Brk.	
				12 75	98' Lt. T.P.	
	265	9 87		7 22	133' Lt. 1"x2" Stk. T.P.	
					⊼ OCCUPY Z-2 SIGHT AHEAD ON Z-3	
			53	46	155 FT LEFT M.H.W.	
			82	17	1 9° 08'	
			95	04	2 10 16	
			107	-08	3 11 35	
			129	-30	4 14 13	
			142	-43	5 16 09	
			160	-61	6 18 39	
			187	-88	7 20 56	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. ____ Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of [illegible] Notes Date 6-22-70
Notes Chk'd. ____ Checked ____ Survey by DIVERS Notes Date 6-22-70
Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F. B. [illegible] PG. 93

F. B. 2822 PG. 94

Job No. 0300 02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion (Zuma Beach) Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

DATUM
MEAN LOWER LOW WATER

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

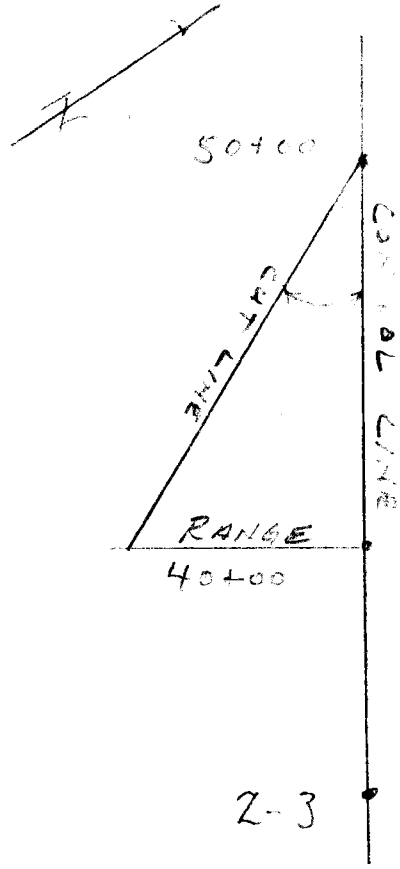
LOS ANGELES COUNTY SURVEYOR

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
50+00	2-3	7:46	1	63	07			
			2	62	37			
			3	62	05			
			4	61	43			
			5	61	15			
			6	60	59			
			7	60	35			
			8	60	12			
			9	59	55			
			10	59	22			
			11	58	53			
			12	58	23			
			13	57	53			
			14	57	16			
			15	56	52			
			16	56	33			
			17	56	04			
			18	55	26			
			19	54	58			
			20	54	26			



Profile No. ____ Notes Red. ____ Plotted ____ Job No. R300.02 Division No. 11 F. B. 2812 Pg. 45

X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION (YUMA BEACH)

Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by RICHARDS Notes B. N. Date 6-22-70

Map No. ____ Date ____ Indexed H. E. OTT Date JR 23 70

76L298 307 Cdb 12-62

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Do not extend notes this side of this line.

F. B. 2822 Pg. 96 | Job No. 0300.02 | Division No. 11 | Notes Red. | Plotted | Profile
Survey of ZUMA BEACH | Date | Date | No.
Survey by RICHARDS | Notes B.N. | Notes Chkd. | Checked | X-Sec.
Indexed | Date | Date | Date | No.

RANGE 40+00

CONTINUED

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
50+00	Z-3		21	53	53			
			22	53	13			
			23	52	35			
			24	51	56			
			25	51	22			
			26	50	50			
			27	50	11			
			28	49	32			
			29	48	45			
			30	48	07			
			31	47	23			
			32	46	35			
			33	45	44			
			34	44	52			
			35	44	03			
			36	43	15			
			37	42	25			
			38	41	31			
			39	40	36			
			40	39	47			

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

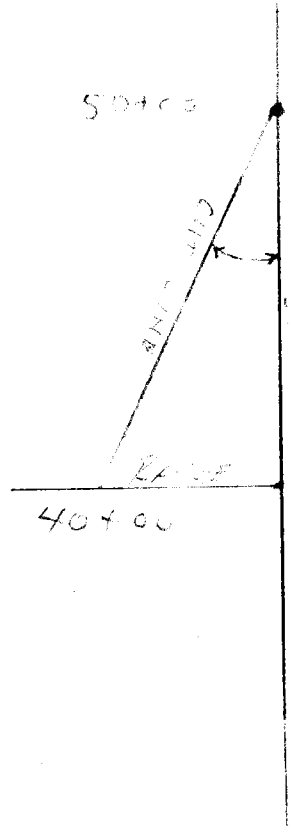
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

40+00 CONTINUED.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	FOR OFFICE USE ONLY LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
[illegible]	[illegible]		[illegible]	35	56			
			[illegible]	38	05			
			[illegible]	36	55			
			[illegible]	36	[illegible]			
			45	32	[illegible]			
			[illegible]	33	[illegible]			
			[illegible]	32	33			
			55	31	07			
			[illegible]	[illegible]	13			
			50	28	[illegible]			
		[illegible]	51	27	52			
			[illegible]					



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

X-Sec. No.____ Date____ Date____ Survey of [illegible] BEACH

Notes Chkd.____ Date____ Checked____ Date____ Survey by____ Date 6-22-70 Notes____

Map No.____ Indexed W. E. OTT Date JUL 23 '70

F. B. 2822 PG. 97

F. B. 2822 Pg. 98 | 0300.02 Job No. Division No. 11 Notes Red. Plotted Profile

Survey of ZUMA BEACH Date Date No.

Survey by RICHARDS Notes B.N. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					

Do not extend notes this side of this line.

PLEASE RETURN TO

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

76L298 307 Cdb 12-62

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.		45+00
40+00				14 49	1X2 STK. T.P. from Last Page	
45+00				15 31		℄ 1X2" STK.
				19 9		60' Rt. End Pile
				22 58		144' Rt. Edge Road
T.P.				22 83	P.K. SPK. ON West Wing Bat. Sign	
					IN Front of Lot # 6779, 0.25 mi. Hwy	
					Bird View St. For L.B. 3779-144 (22.85)	
				13 5	57.5 Lt. Top Brk.	
	077	15 17		14 40	52.5 Lt. Top Lath	
				628	95.5 Lt. 1X2" STK. T.P. (OUT GED)	
T.P.	020	9 50	5 87	9 30	⊼ OCCUPY Z-2 SIGHT ON Z-3	
		Estim.	200	-105	1 17° 36'	
		Estim.	185	-90	2 16 28	
			165	-70	3 15 19	
			143	-48	4 13 43	
			120	-25	5 11 30	
			81	14	6 08 21	
			60	35	7 7° 32'	
			49	46	111 FT LEFT M.H.W.	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. 2500 Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of 2000 Date ____
Notes Chk'd. ____ Date ____ Checked ____ Date ____ Survey by MYERS Notes DRESS Date 6-22-70
Map No. ____ Date ____ Indexed H. E. OTT Date JUL 23 '70

F. B. ____ PG. 99

F. B. 2822 PG. 100

Job No. 0300 02 Division No. 11 Notes Red ____ Plotted ____ Profile

Survey of Beach Erosion (Zuma Beach) Date ____ Date ____ No. ____

Survey by ____ Notes ____ Notes Chk'd. ____ Checked ____ X-Sec.

Indexed ____ Date ____ Date ____ Date ____ No. ____

STATION	B. S.	H. I.	F. S.	ELEV.
				45+00

DATUM
~~MEAN LOWER LOW WATER~~

Do not extend notes this side of this line.

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

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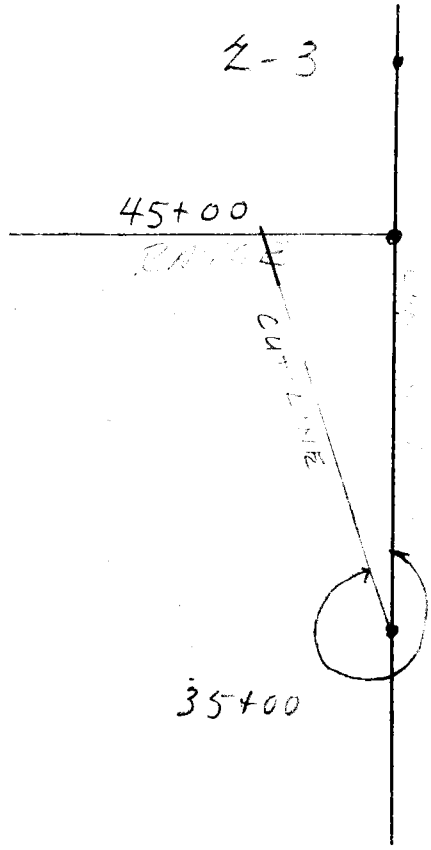
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
35+00	Z-3	10:18	1	290	58			
			2	291	37			
			3	292	09			
			4	292	23			
			5	292	48			
			6	293	16			
			7	293	48			
			8	294	29			
			9	295	21			
			10	296	02			
			11	296	54			
			12	297	25			
			13	298	20			
			14	299	07			
			15	299	55			
			16	300	39			
			17	301	29			
			18	302	07			
			19	303	07			
			20	304	10			



Profile No.____ Notes Red.____ Plotted____ Job No. [illegible] Division No. [illegible]

X-Sec. No.____ Date____ Date____ Survey of [illegible]

Notes Chkd.____ Checked____ Survey by [illegible] Notes [illegible] Date 4-23-70

Date____ Date____ Map No.____ Indexed H. E. Ott Date JUL 23 '70

F. B. 2822 PG. 101

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

RANGE 45+00

CONTINUED

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
35+00	Z-3		21	305	35			
			22	306	30			
			23	307	37			
			24	308	46			
			25	309	42			
			26	311	21			
			27	312	41			
			28	314	09			
			29	315	26			
			30	316	21			
			31	317	23			
			32	318	28			
			33	319	20			
			34	320	40			
			35	321	55			
			36	323	20			
			37	324	41			
			38	325	17			
			39	326	33			
			40	328	08			

F. B. 2822 PG. 102 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile
Survey of ZUMA BEACH Date Date No. X-Sec.
Survey by RICHARDS Notes B.N. Notes Chkd. Checked
Indexed Date Date No.

76L298 307 Cdb 12-62

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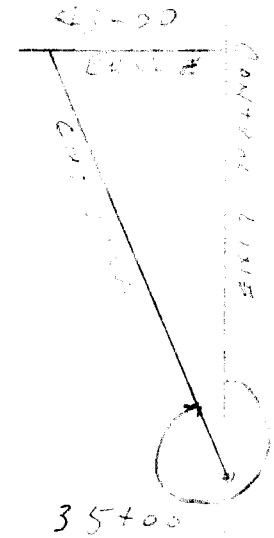
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

RANGE 45+00 CONTINUED

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
35+00	Z-3		41	329	29			
		10:25	42	330	38			

Z-3



Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. 2822 Pg. 103

No. ____ Date ____ Date ____ Survey of ____

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

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date JUL 23 '70

F. B. 2822 PG. 104 | 0300.02 Job No. Division No. 11 Notes Red. Plotted Profile

Survey of ZUMA BEACH Date Date No.

Survey by RICHARDS Notes B.N. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

Inst. At Don't Punch	Sight On Don't Punch	Time Don't Punch	Angle No Don't Punch	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.

Do not extend notes this side of this line.

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L298 307 Cdb 12-62

Notes Ck'd by	Survey of HYDROGRAPHIC SURVEY
Map No.	JN 0300-02 Tape Std °F
Office Work	Surveyed by RICHARDS
Checked	Notes UHARRIET Date 6-23-70
Date	Indexed H. E. OTT JUL 23 70

F.B. 2832 PG. 105

TIDE GAGE READINGS
JUNE 23, 1970
TIME – P.S.T.
DATUM – M.L.L.W.

TIME	TIDE
6:00	-1.1
6:30	-1.2
7:00	-1.1
7:30	-0.8
8:00	-0.4
8:30	0.0
9:00	0.6
9:30	1.2
10:00	1.7
10:30	2.3
11:00	2.9
11:30	3.3
12:00	3.7
12:30	3.7
13:00	3.8
13:30	3.9
14:00	3.8

NOTE – TIDE GAGE STATION IS LOCATED AT SOUTH END OF BERTH 60, L.A. OUTER HARBOR.

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

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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75F3098 CE#310 9-67

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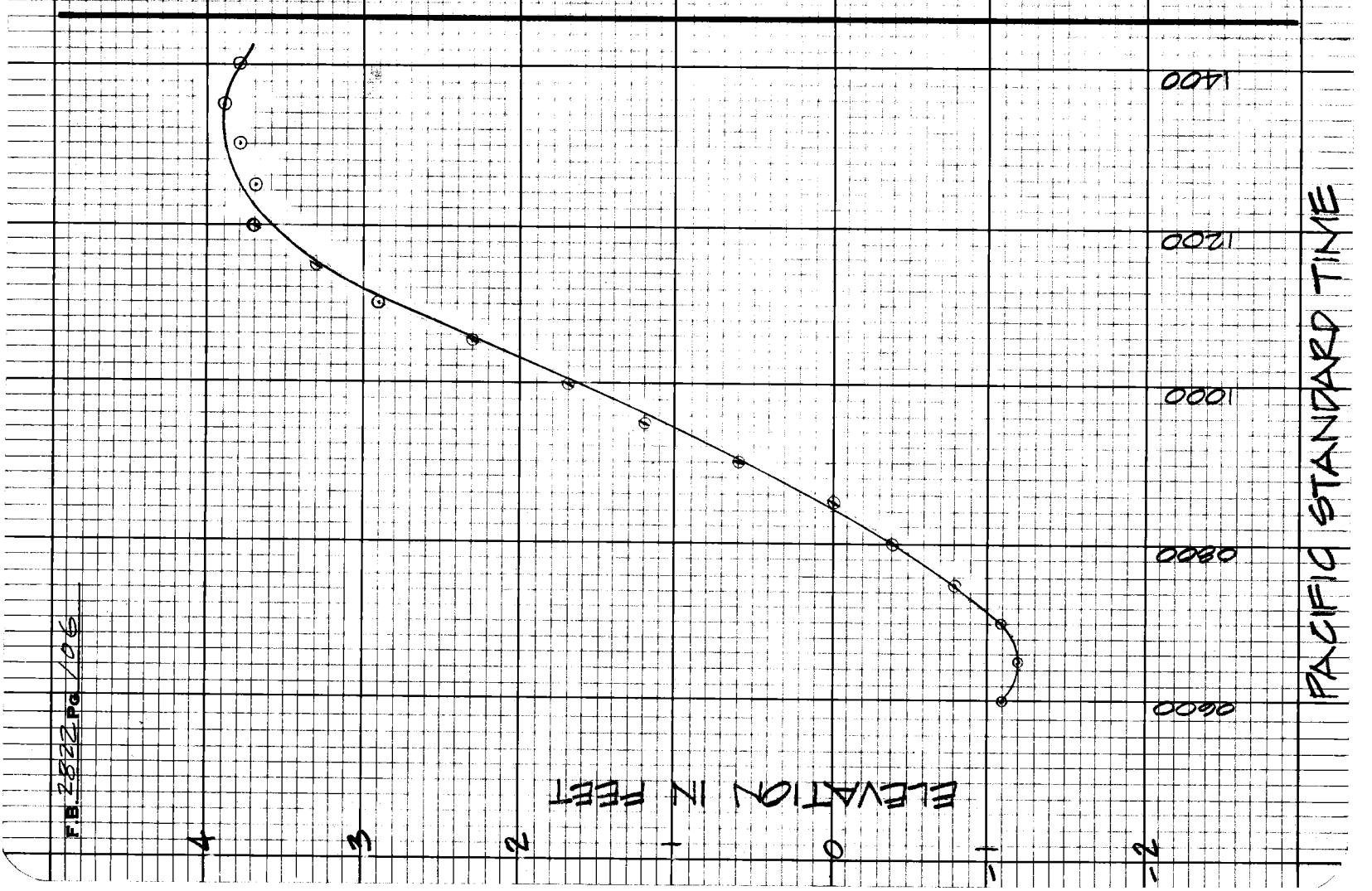
Note: Any Additions or Changes on this Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend this side of this line.



F.B. 2822 Pg. 106

76-L-298 CE 307 5-66

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		50+00
T.P.				22 85	P.K. Spk. From Last Page (F.B. 3790-144)	
50+00				14 28		℄ 1x2 Stk.
				15 2		100' Rt. [illegible]
				18 7		174' Rt Top Brk
				18 87		184.5 Edge Road
				13 5	42' Lt. Top Brk	
				9 85	T.P.	
				4 60	154' Lt. M.H.W.	
	119	6 03		4 84	154' Lt.	
					⊼ AT 45+00	SIGHT (AHEAD) 50+00
			36	24	178 FT LEFT	
			52	08	1 18° 02'	
			71	-11	2 22 30	
			84	-24	3 27 02	
			105	-45	4 31 21	
			138	-7.8	5 37 24	
			152	-92	6 39 12	
			180	-120	7 42° 23'	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. [illegible] Division No. [illegible]
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chk'd. ____ Checked ____ Survey by MYERS Note DREIER Date 6-23-70
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E OTT Date JUL 23 '70

F.B. 28[illegible] PG. 107

F. B. 2822 PG. 108

Job No. 0300 02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion (Zuma Beach) Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

76-L-298 CE 307 5-66

PLEASE RETURN TO

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
						50+00

DATUM

MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

PLEASE RETURN TO

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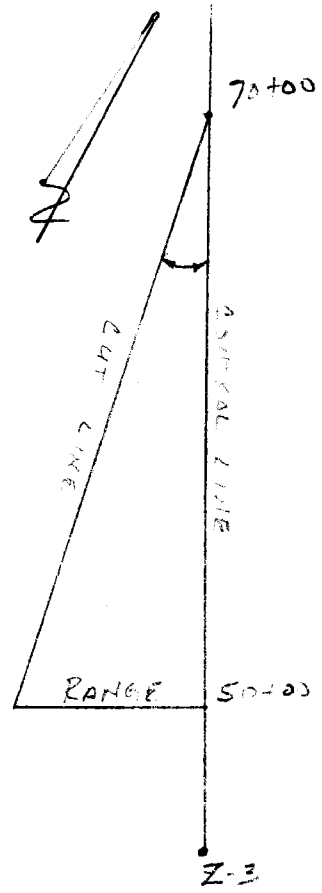
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	FOR OFFICE USE ONLY LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
70+00	Z-3	6:45	1	41	54			
			2	41	20			
			3	40	33			
			4	40	00			
			5	39	35			
			6	39	15			
			7	38	37			
			8	38	05			
			9	37	38			
			10	36	47			
			11	36	00			
			12	35	06			
			13	34	36			
			14	33	57			
			15	33	17			
			16	32	35			
			17	31	45			
			18	31	01			
			19	30	30			
			20	29	58			

RANGE 50+00



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

No. ____ Date ____ Date ____ Survey of ____ Notes ____ Date 6-23-70

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

No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F. B. 2822 PG. 109

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F. B. 2822 Pg. 110 | Job No. 0300.02 | Division No. 11 | Notes Red. | Plotted | Profile No.
Survey of ZUMA BEACH | Date | Date | X-Sec. No.
Survey by RICHARDS Notes D. L. W. | Notes Chkd. | Checked
Indexed | Date | Date

Inst. At	Sight On	Time	Angle No.	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
70+00	Z-3		21	29	00			
			22	28	35			
			23	27	59			
			24	27	13			
			25	26	38			
			26	25	52			
			27	25	17			
			28	24	45			
			29	23	50			
			30	23	27			
			31	22	43			
			32	22	10			
			33	21	40			
			34	20	50			
			35	20	13			
			36	~~17~~ 19	33			
			37	18	45			
			38	18	18			
			39	17	36			
			40	17	05			

RANGE 50+00
CONTINUED

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
70+00	Z-3		41	16	34			
			42	15	51			
			43	14	48			
			44	14	28			
			45	13	42			
			46	12	52			
		6:51	47	12	07			

RANGE 50+00
CONTINUED

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. 2822 Pg. 111

No. ____ Date ____ Date ____ Survey of ____

X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes D.L.W. Date 6-23-70

No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F. B. 2822 PG. 112 | 0300.02

Job No. Division No. 11 Notes Red. Plotted Profile

Survey of ZUMA BEACH Date Date No.

Survey by RICHARDS Notes D. L. W. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

INST. AT (DON'T PUNCH)	SIGHT ON (DON'T PUNCH)	TIME (DON'T PUNCH)	ANGLE Nº (DON'T PUNCH)	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY: RANGE LINE DEG.	FOR OFFICE USE ONLY: RANGE LINE MIN.	FOR OFFICE USE ONLY: CARD Nº

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 Cdb 12-62

76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.		55+00
50+00				14 28	1x2" Stk. T.P. From last page	
55+00				12 85		& 1x2" Stk.
				11 1		69' Lt. Sand
				14 1		147.5 Lt. Bot. Bk
				19 2		173' Rt. Top Bk
T.B.M. #2				18 23	T.B.M. #2 El. = 18.24 F.B. 3790-14	
				12 9	66' Lt. Top Brk.	
				4 60	116' Lt. M.H.W.	
	1 18	5 98		4 80	116' Lt. T.P.	
					⊼ OCCUPY 45+00	SIGHT AHEAD, ON 55+00
			162	-10 2	1 25° 12'	
			140	-8 0	2 22 55	
			120	-6 0	3 21 03	
			99	-3 9	4 18 34	
			80	-2 0	5 15 23	
			54	0 6	6 11 50	
			36	2 4	138 FT. LEFT	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. 300 Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of [illegible] (Zuma Beach)
Notes Chk'd. ____ Checked ____ Survey by MYERS Notes PREIER Date 6-23-70
Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F. B. [illegible] Pg. 13

F. B. 2822 PG. 114

Job No. 0300 02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion (Zuma Beach) Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

STATION	B. S.	H. I.	F. S.	ELEV.
				55400

DATUM
MEAN LOWER LOW WATER

Do not extend notes this side of this line.

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-299 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO
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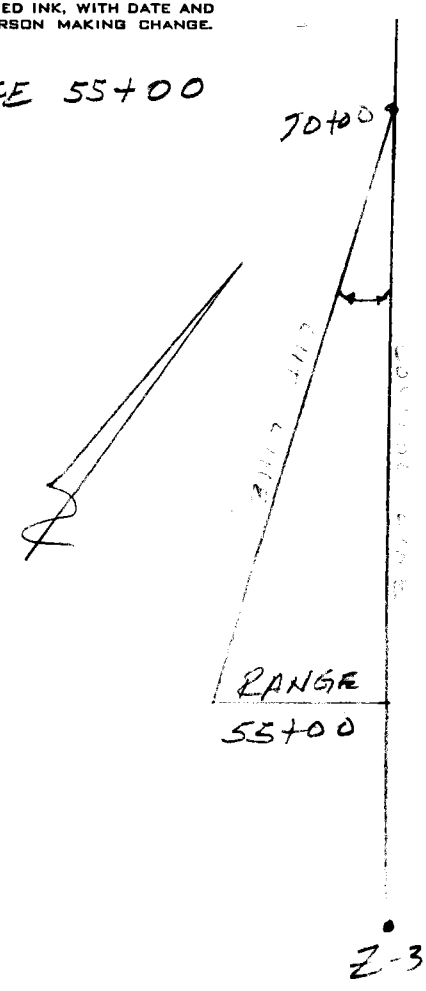
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	FOR OFFICE USE ONLY LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
70+00	Z-3	7:01	1	53	04			
			2	52	33			
			3	51	54			
			4	51	27			
			5	50	52			
			6	50	12			
			7	49	28			
			8	48	50			
			9	47	56			
			10	47	24			
			11	46	29			
			12	45	45			
			13	44	53			
			14	44	02			
			15	43	05			
			16	42	16			
			17	41	23			
			18	40	39			
			19	39	25			
			20	38	31			

RANGE 55+00



Profile No. ____ Notes Red. ____ Plotted ____ Job No. ____ Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of ____ Notes D.L.W. Date 6-23-70
Notes Chkd. ____ Checked ____ Survey by ____
Date ____ Date ____ Map No. ____ Indexed H.E. OTT Date JUL 23 70

F.B. 2822 PG. 115

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
70+00	Z-3		21	37	31			
			22	36	46			
			23	35	57			
			24	34	51			
			25	33	48			
			26	32	49			
			27	32	07			
			28	31	10			
			29	30	24			
			30	29	37			
			31	28	45			
			32	27	57			
			33	27	10			
			34	26	26			
			35	25	49			
			36	25	05			
			37	24	12			
			38	23	33			
			39	22	44			
			40	22	04			

RANGE 55+00

CONTINUED

F. B. 2822 PG. 116 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of ZUMA BEACH Date Date No. X-Sec.

Survey by RICHARDS Notes D.L.W. Notes Chkd. Checked

Indexed Date Date No.

76L298 307 Cdb 12-62

PLEASE RETURN TO

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
70+00	Z-3		41	21	31			
			42	20	34			
			43	20	05			
		7:07	44	19	40			

RANGE 55+00
CONTINUED

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2822 Pg. 117

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Notes D.L.W. Date 6-23-70

No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F. B. 2822 Pg. 118 | 0300.02 Job No. Division No. 11 Notes Red. Plotted Profile

Survey of ZUMA BEACH Date Date No.

Survey by RICHARDS Notes D. L. W. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					

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 Cdb 12-62

76-L-298 CE 307 5-66

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.		60+00
55+00				12 85	1X2" STK. T.P. Left Page	
60+00				11 03		℄ 1X2" STK.
				10 [illegible]		100 Rt. [illegible]
				10 5		200 Rt. Sand
				10 6		300 Rt. [illegible]
				12 3		400 Rt. Sand
				12 7	69' Lt. Top Brk.	
				4 60	121.5 Lt. M.H.W.	
TP.	1 42	6 21		4 79	121.5 Lt. 1X2" STK. T.P.	
			3 5	27°	⊼ OCCUPY 55+00	SIGHT ON 60+00
			4 0	22°	146 FT LEFT	
					161 " "	
			4 8	14°	#1 23° 10'	
			7 0	-08°	2 27 04	
			8 8	-26°	3 32 05	
			137	-75°	4 41 07	
			157	-95°	5 43 13	
			173	-111°	6 44 53	

DATUM
~~MEAN LOWER LOW WATER~~

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chk'd. ____ Checked ____ Survey by MYERS Notes DRIER Date 6-22-70
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F. B. ____ PG. 14

F. B. 2822 PG. 120

Job No. 0300 02 Division No. 11 Notes Red____ Plotted____ Profile

Survey of Beach Erosion (Zuma Beach) Date____ Date____ No.____

Survey by____ Notes____ Notes Chk'd.____ Checked____ X-Sec.

Indexed____ Date____ Date____ Date____ No.____

STATION	B. S.	H. I.	F. S.	ELEV.	
					60+00

DATUM
MEAN LOWER LOW WATER

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

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LOS ANGELES COUNTY SURVEYOR

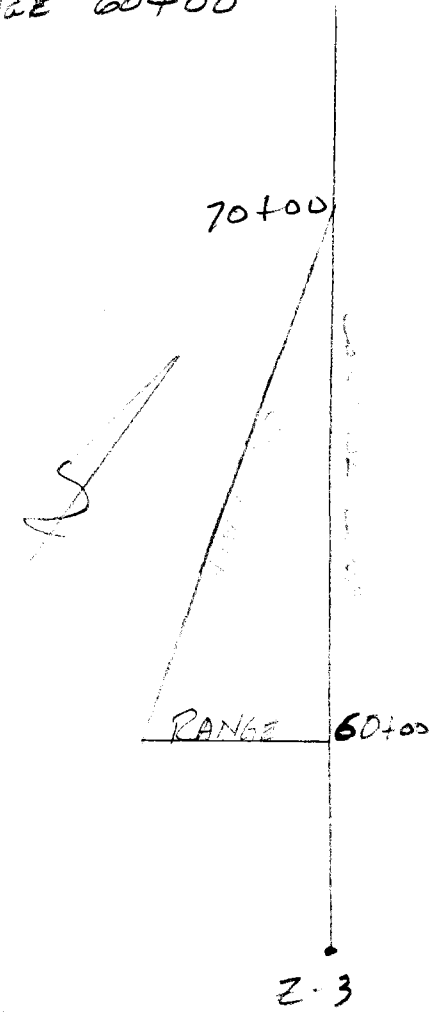
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

RANGE 60+00

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
70+00	Z-3	7:17	1	59	38			
			2	59	00			
			3	58	24			
			4	57	44			
			5	57	03			
			6	56	28			
			7	55	57			
			8	55	03			
			9	54	17			
			10	53	21			
			11	52	42			
			12	51	54			
			13	51	05			
			14	49	51			
			15	48	46			
			16	47	44			
			17	46	50			
			18	45	55			
			19	44	43			
			20	43	36			



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

No. ____ Date ____ Date ____ Survey of ____ Note ____

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

No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F. B. 2822 PG. 121

76L298 307 Cdb 12-62

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. 2822 Pg. 122 Job No. 030002 Division No. 11 Notes Red. Plotted. Profile
Survey of ZUMA BEACH Date Date No. X-Sec.
Survey by RICHARDS Notes D.L.W. Notes Chkd. Checked. Date No.
Indexed Date Date

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
70+00	Z-3		21	42	24			
			22	41	37			
			23	40	40			
			24	39	25			
			25	38	21			
			26	37	25			
			27	36	20			
			28	35	18			
			29	34	18			
			30	33	35			
			31	32	42			
			32	31	58			
			33	31	22			
			34	30	07			
			35	29	05			
			36	28	27			
			37	27	28			
			38	26	35			
		7:22	39	25	40			

RANGE 60+00
CONTINUED

76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.		65+00
60+00				11 03	1"x2" STK. T.P. From Last Page	
65+00				11 39		℄ 1"x2" STK.
				10 5		100' Rt. Sand
				11 6		200' Rt. Sand
				13 7		300' Rt. [illegible]
				16 7		[illegible] Rt. Sand @ [illegible]
				16 28		374.5 Rt. T.C. @ [illegible] Lot
				12 4	59' Lt. Top Brk.	
				4 60	109' Lt. M.H.W.	
	1 53	6 19 2		4 66	109' Lt 1"x2" STK. T.P.	
					⊼ OCCUPY 55+00	SIGHT ON 65+00
			17 1	-10 9	#1 26° 21'	
			15 0	-8 8	24 22	
			14 0	-7 8	23 13	
			11 5	-5 3	19 20	
			9 4	-3 2	18 07	
			7 5	-1 3	15 17	
			6 6	-0 4	13 05	
			4 8	1 4	10 43	
			3 6	2 6	134 FT LEFT	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. [illegible] Division No. ____
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chk'd. ____ Checked ____ Survey by MYERS Notes PREIER Date 6-23-70
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 70

F. B. [illegible] PG. 123

F. B. 2822 Pg. 124

Job No. 2300 02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion (Zuma Beach) Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

65400

DATUM
MEAN LOWER LOW WATER

Do not extend notes this side of this line.

PLEASE RETURN TO
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403 Los Angeles County Engineering Bldg.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO
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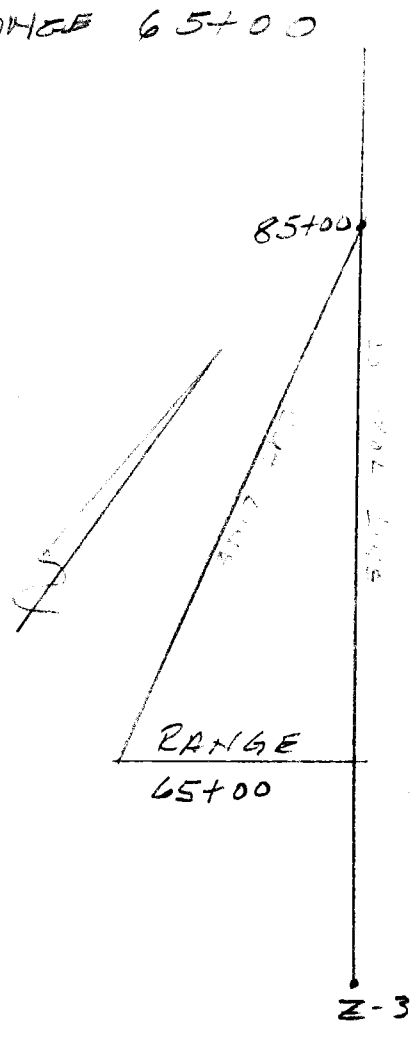
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
85+00	Z-3	7:53	1	40	12			
			2	[illegible]	[illegible]			
			3	38	54			
			4	38	13			
			5	37	24			
			6	36	29			
			7	35	50			
			8	34	57			
			9	34	00			
			10	33	06			
			11	32	13			
			12	31	24			
			13	30	29			
			14	29	26			
			15	28	30			
			16	27	46			
			17	26	44			
			18	25	48			
			19	24	45			
			20	23	47			



Profile No.____ Notes Red.____ Plotted.____ Job No.____ Division No.____
X-Sec. No.____ Date____ Date____ Survey of [illegible] Notes DLW Date 6-23-70
Notes Chkd.____ Checked.____ Survey by [illegible]
Date____ Date____ Map No.____ Indexed H. E. OTT Date JUL 23 '70

F. B. 2822 PG 125

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

RANGE 65+00 CONTINUED

Inst. At (Don't Punch)	Sight On (Don't Punch)	Time (Don't Punch)	Angle No (Don't Punch)	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
85+00	Z-3		21	22	43			
			22	22	04			
			23	21	00			
			24	20	19			
			25	19	32			
			26	18	38			
			27	18	01			
			28	17	16			
			29	16	41			
			30	16	15			
			31	15	28			
			32	14	55			
			33	14	38			
		7:58	34	13	55			

F. B. 2822 Pg. 126 Job No. 030002 Division No. 11 Notes Red. Plotted. Profile

Survey of ZUMA BEACH Date Date No. X-Sec.

Survey by RICHARDS Notes D.L.W. Notes Chkd. Checked. No.

Indexed. Date Date Date

76-L-298 CE 307 5-66

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.		70+00
65+00				11 39	1"X2" STK. T.P. From last page	
70+00				12 10		& 1"X2" STK.
T.B.M.#4				16 14	T.B.M.#4 El.=16.14, F.B. 3790-145	
70+00				140		100' Rt. Sand
				15 70		127' Rt. Conc. @ Food Stand
				140	60' Lt. Top Brk	
				4 60	108' Lt. M.H.W.	
	1 73	6 50		4 77	1"X2" STK. T.P.	
					⊼ OCCUPY 65+00	SIGHT AHEAD, ON 70+00
			37	28	126 FT. LEFT	
			46	19	143 FT LEFT,	Dist.
			50	15	1 20° 06'	185.0
			66	-01	2 24 16	225.0
			83	-18	3 30 03	289.0
			94	-29	4 32 48	322
			98	-33	5 38 58	404
			168	-103	6 43 33	475
			148	-83	7 41 43	446
			138	-73	8 39 33	413
			130	-65	9 38 24	396 10 FT W. OF LINE
			128	-63	10 39° 15'	409 DATUM MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 2520 Division No. ____
No. ____ Date ____ Date ____ Survey of [illegible] Equipment Earth
X-Sec. Notes Chk'd. ____ Checked ____ Survey by MYERS Notes PREIER Date 6-22-70
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F.B. 2822 PG. 127

F. B. 2822 Pg. 128

Job No. 0300 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion (Zuma Beach) Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

76-L-298 CE 307 5-66

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.
				70+00

DATUM
MEAN LOWER LOW WATE

76L298 307 Cdb 12-62

PLEASE RETURN TO

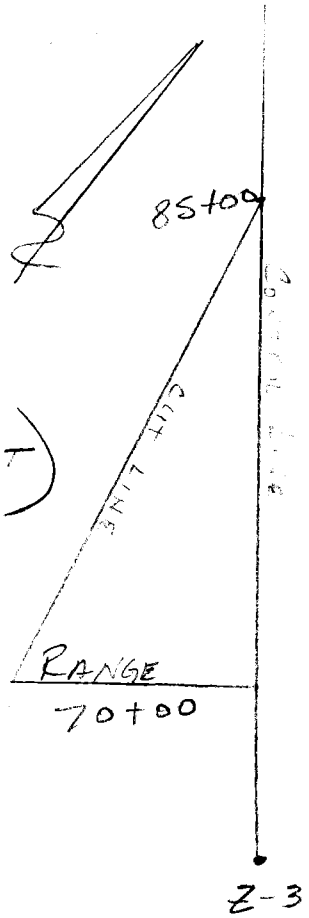
LOS ANGELES COUNTY SURVEYOR

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº	
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH						
85+00	Z-3	8:23	1	50	50				
			2	50	05				
			3	49	27				
			4	48	38				
			5	48	06	THESE SHOTS			
			6	47	23	BOAT IS			
			7	46	36	40' SOUTH		OF	
			8	46	05	RANGE LINE			
			9	45	46	(COMMERCIAL FISHING BOAT			
			10	45	15	ON RANGE LINE)			
			11	42	38				
			12	40	52				
			13	39	34				
			14	38	30				
			15	37	26				
			16	36	29				
			17	35	29				
			18	34	29				
			19	33	23				
			20	32	35				



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

X-Sec. No.____ Date____ Date____ Survey of____

Notes Chkd.____ Checked____ Survey by____ Notes D.L.W. Date 6-23-70

Date____ Date____ Map No.____ Indexed H. E. Ott Date JUL 23 '70

F. B. 2822 PG. 129

76L298 307 Cdb 12-62

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. 2822 Pg. 130 | Job No. 030002 | Division No. 11 | Notes Red. | Plotted | Profile

Survey of ZUMA BEACH | Date | No. | X-Sec.

Survey by RICHARDS | Notes D.L.W. | Notes Chkd. | Checked | Date | No.

Indexed | Date | Date | Date

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
85+00	Z-3		21	31	40			
			22	30	40			
			23	29	45			
			24	28	46			
			25	27	55			
			26	27	03			
			27	26	13			
			28	25	17			
			29	24	30			
			30	23	35			
			31	22	45			
			32	21	59			
			33	20	60			
		8:27	34	20	08			

RANGE 70+00
CONTINUED

76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.		75+00
70+00				12 10	1X2 STK. T.P.	
75+00				13 67		℄ 1X2 STK.
				13 90		14 LT T.C. @ 6.4
				13 4	23 LT Top Brk.	
				4 60	131 LT. M.H.W.	
	1 70	648		4 78	131 LT. 1X2" STK. T.P.	
					OCCUPY 65+00, SIGHT ON 75+00	
			135	-7 0	#1 24° 11'	DIST. 449,
			179	-11 4	2 OUT OF RANGE X NO ANGLE	
			155	-9 0	3 26° 07'	(ANGLE READ 21° 07') 380
			145	-8 0	4 25° 28'	476
			123	-5 8	5 22 57	423
			114	-4 9	6 21 51	401
			102	-3 7	7 19 42	358
			83	-1 8	8 17 26	314
			66	-0 1	9 14 04	251
			67	0 2	10 10° 19'	182
			57	0 5	163 FT LEFT.	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 3320 Division No. 11
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date 6-23-70
No. ____ Date ____ Date ____ Map No. ____ Indexed 4 E. OTY Date JU 23 '70

F. B. [illegible] PG. 131

F. B. 2822 Pg. 132

Job No. 0300 02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion (Zuma Beach) Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

STATION	B. S.	H. I.	F. S.	ELEV.
				75+00

DATUM
MEAN LOWER LOW WATER

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

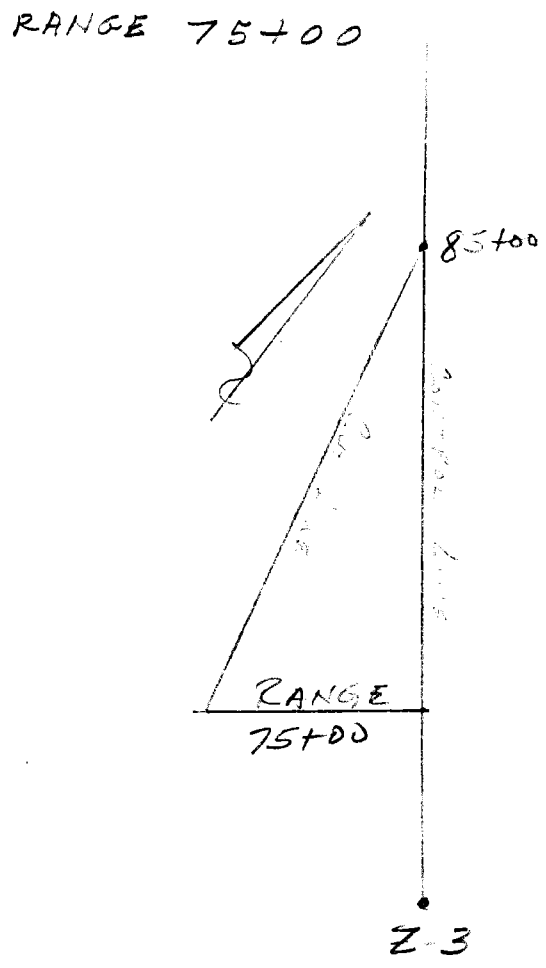
LOS ANGELES COUNTY SURVEYOR

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
85+00	Z-3	8:38	1	62	59			
			2	62	23			
			3	62	10			
			4	61	41			
			5	61	08			
			6	60	30			
			7	59	55			
			8	58	42			
			9	58	11			
			10	57	43			
			11	57	05			
			12	56	20			
			13	55	22			
			14	54	28			
			15	53	39			
			16	52	50			
			17	52	06			
			18	51	10			
			19	50	05			
			20	49	17			



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

Date____ Date____ Survey of____

X-Sec. No.____ Notes Chkd.____ Checked____ Survey by____ Noted D.L.W. Date 6-23-70

Date____ Date____ Map No.____ Indexed H.E. Ott Date JUL 23 70

F.B. 282 PG. 133

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
85+00	2-3		21	48	06			
			22	47	12			
			23	46	20			
			24	45	09			
			25	44	04			
			26	42	52			
			27	41	40			
			28	40	40			
			29	39	23			
			30	38	20			
			31	37	22			
			32	36	14			
			33	34	47			
			34	33	45			
			35	33	07			
			36	32	00			
			37	30	40			
			38	29	57			
			39	28	42			
			40	27	26			

RANGE 75+00

CONTINUED

F. B. 2822 PG. 134 Job No. 030002 Division No. 11 Notes Red. Plotted Profile

Survey of ZUMA BEACH Date Date No. X-Sec.

Survey by RICHARDS Notes D.L.W. Notes Chkd. Checked

Indexed Date Date No.

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
85+00	Z-3		41	26	40			
		8:43	42	35	50			

RANGE 75+00
CONTINUED

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes DOK Date 6-23-70
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F. B. 2822 PG. 135

F. B. 2822 PG. 136 | 030002 Job No. ____ Division No. 11 Notes Red. ____ Plotted ____ Profile

Survey of ZUMA BEACH Date ____ Date ____ No. ____

Survey by RICHARDS Notes D. L. W. Notes Chkd. ____ Checked ____ X-Sec.

Indexed ____ Date ____ Date ____ Date ____ No. ____

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					

Do not extend notes this side of this line.

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L298 307 Cdb 12-62

76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.					80+00
75+00				13 67	1x2 Stk. T.P. Last Page				
Z-3B				12 35	Pot Z-3B El = 12 36				F.B. 3790-145
80+00				12 16					℄ Spk. & T.
				12 30	10 3 Lt. T.C. @ Parking Lot				
				13 4	111' Lt. Top Brk.				
				4 60	158' Lt. M.H.W.				
	211	688		4 77	158' Lt. 1"x2" Stk. T.P.				
			58	+11	180				
					⊼ OCCUPY 75+00				SIGHT AHEAD ON 80+00
			83	-14	#1	23°	26'		217'
			66	03	2	25	38		240
			70	-01	3	29	39		285
			98	-09	4	33	36		332
			88	-19	5	35	21		355
			114	-45	6	41	33		443
			128	-59	7	43	36		476
			138	-69	8	44	51	497'	← SWIMMER ± 10 FT. W. OF LINE
			166	-97	9	48°	01'	556'	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300 Division No. 11
Date ____ Date ____ Survey of [illegible] Hosion (Zuma Beach)
X-Sec. No. ____ Notes Chk'd. ____ Checked ____ Survey by MYERS Notes DREIER Date 6-23-70
Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F. B. [illegible] Pg. 137

F. B. 2822 PG. 138

Job No. 0300-02 Division No. 11 Notes Red ___ Plotted ___ Profile

Survey of Beach Erosion (Zuma Beach) Date ___ Date ___ No. ___

Survey by ___ Notes ___ Notes Chk'd. ___ Checked ___ X-Sec.

Indexed ___ Date ___ Date ___ Date ___ No. ___

STATION	B.S.	H.I.	F.S.	ELEV.	
					80+00

DATUM
MEAN LOWER LOW WATER

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

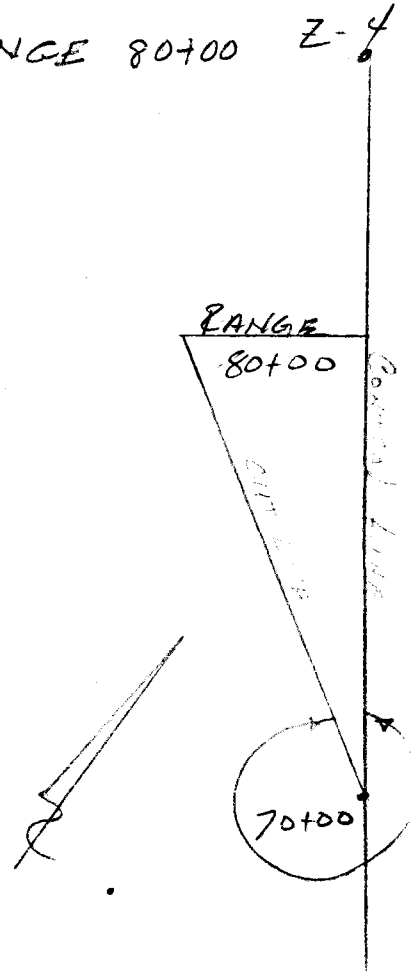
LOS ANGELES COUNTY SURVEYOR

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	FOR OFFICE USE ONLY LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
70+00	Z-4	9:09	1	298	48			
			2	299	36			
			3	300	15			
			4	300	48			
			5	301	25			
			6	302	10			
			7	303	15			
			8	303	58			
			9	304	58			
			10	305	50			
			11	306	35			
			12	307	23			
			13	308	29			
			14	309	15			
			15	310	23			
			16	311	26			
			17	312	32			
			18	313	30			
			19	314	13			
			20	315	02			



Profile Notes Red. Plotted Job No. Division No.

No. Date Date Survey of

X-Sec. Notes Chkd. Checked Survey by Notes D.L.W. Date 6-23-70

No. Date Date Map No. Indexed M. E. OTT Date JUL 23 '70

F. B. 2872 PG. 139

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
70+00	Z-4		21	316	05			
			22	316	56			
			23	318	06			
			24	318	57			
			25	320	20			
			26	321	09			
			27	321	59			
			28	323	24			
			29	324	02			
			30	325	15			
			31	326	16			
			32	326	60			
			33	327	48			
			34	328	38			
			35	329	12			
			36	330	10			
			37	331	13			
		9:14	38	332	00			

RANGE 80+00
CONTINUED

F. B. 2822 PG. 140 | 0300,02 Job No. Division No. 11 Notes Red. Plotted Profile
Survey of ZUMA BEACH Date Date No. X-Sec.
Survey by RICHARDS Notes D. L. W. Notes Chkd. Checked
Indexed Date Date No.

76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.			85+00
80+00				12 16	℄ SPK & T FROM Last Page		
85+00				12 34			℄ 1"x2" STK.
				15 65			75' Rt. Conc. Walk
				11 8	33 Lt. Sand.		
				13 6	133' Lt. Top Brk.		
				4 60	185' Lt. M.H.W.		
	1 98	8 6 75		4 77	185' Lt. 1"x2" STK. T.P.		
					↑ OCCUPY 75+00		SIGHT ON 85+00
			130	-62	1	26° 46'	504
			150	-82	2	29 07	557
			168	-100	3 OUT MORE	30 20	585
			118	-50	4	25 12	471
			85	-17	5	20 45	379
			67	01	6	15 58	286
			66	02	7	13 36	242
			65	03	8	12° 33'	223
			38	30	200 FT.		

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. 2300 Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion (Zuma Beach)
Notes Chk'd. ____ Checked ____ Survey by MYERS Notes DAFIER Date 6-22-70
Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F. B. [illegible] Pg. 14

F. B. 2822 PG. 142

Job No. 0300 02 Division No. 11 Notes Red ____ Plotted ____ Profile

Survey of Beach Erosion (Zuma Beach) Date ____ Date ____ No. ____

Survey by ____ Notes ____ Notes Chk'd. ____ Checked ____ X-Sec.

Indexed ____ Date ____ Date ____ Date ____ No. ____

STATION	B. S.	H. I.	F. S.	ELEV.	
					85+00

DATUM
MEAN LOWER LOW WATER

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

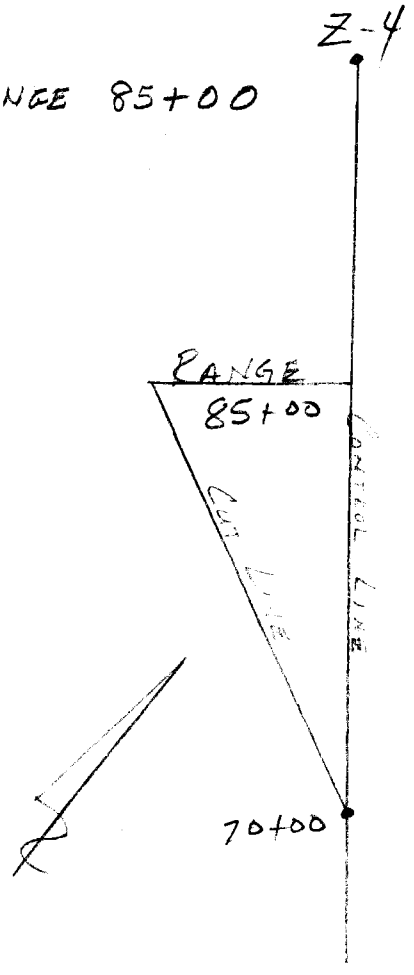
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
70+00	Z-4	9:27	1	303	22			
			2	304	04			
			3	304	47			
			4	305	25			
			5	306	15			
			6	307	40			
			7	308	13			
			8	308	50			
			9	309	43			
			10	310	29			
			11	311	17			
			12	312	20			
			13	313	15			
			14	314	11			
			15	315	08			
			16	316	01			
			17	316	55			
			18	317	60			
			19	318	60			
			20	320	05			

RANGE 85+00



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

X-Sec. No.____ Date____ Date____ Survey of Z-4

Notes Chkd.____ Date____ Checked____ Date____ Survey by____ Notes D L W Date 6-23-70

Map No.____ Indexed M E OD Date JUL 23 70

F.B. 2822 PG. 143

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
70+00	Z-4		21	321	11			
			22	321	47			
			23	323	01			
			24	324	04			
			25	325	04			
			26	326	16			
			27	326	55			
			28	327	42			
			29	328	28			
			30	329	18			
			31	330	15			
			32	330	51			
			33	331	50			
			34	332	40			
			35	333	35			
			36	334	18			
			37	334	46			
			38	335	28			
			39	336	06			
			40	337	09			

RANGE 85+00
CONTINUED

F. B. 2822 PG. 144 Job No. 030002 Division No. 11 Notes Red. Plotted Profile
Survey of ZUMA BEACH Date Date No.
Survey by RICHARDS Notes D L W. Notes Chkd. Checked X-Sec.
Indexed Date Date No.

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE	LINE	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH			DEG.	MIN.	
			41	337	36			
			42	338	35			
			43	339	58			
		9:33	44	340	25			

RANGE
85+00

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. 2822 Pg. 145

No. ____ Date ____ Date ____ Survey of ZUMA BENCH

X-Sec. Notes Chkd. ____ Checked ____ Survey by W.A.P. Notes DON Date 6-23-70

No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 70

F. B. 2822 Pg. 146 | 030002 Job No. Division No. 11 Notes Red. Plotted Profile

Survey of ZUMA BEACH Date Date No.

Survey by RICHARDS Notes D. L. W. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					

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 Cdb 12-62

76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.		90+00
85+00				12 34	1X 2" Stk. T.P. from last page	
T.B.M. #5				14 98	T.B.M. #5, El = 14 98 F.B. 3790-146	
90+00				14 37		℄ 1X2 Stk. T.P.
				15 16		21' Rt. T.C. Parking Lot
				11 6	75' Lt. Sand	
				13 6	150' Lt. Top Brk.	
	1 89	8 3 2		6 43	188' Lt. 1X2" Stk. T.P.	
		4 6				
		7			⊼ occupy 85+00	
			37	+46	200 ft LEFT M.HW. SIGHT ON 90+00	
			75	+08	1 23° 20'	
			89	-06	2 24 50	
			90	-07	3 28 57 OUT	BAD W'LY RIPE TIDES
			101	-18	4 34 13	10 FT E OF LINE
			180	-97	5 50 01	
			145	-62	6 44 57	
			120	-37	7 40 04 IN	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8800 Division No. 11 F. B. 3877 Pg. 147
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion (Zuma Beach)
Notes Chk'd. ____ Checked ____ Survey by Myers Notes Dreier Date 6-23-70
Date ____ Date ____ Map No. ____ Indexed H. E. Ott Date Jul 23 70

F. B. 2822 PG. 148

Job No. 2300-02 Division No. 11 Notes Red ______ Plotted ______ Profile

Survey of Beach Erosion (Zuma Beach) Date ______ Date ______ No. ______

Survey by ______ Notes ______ Notes Chk'd. ______ Checked ______ X-Sec.

Indexed ______ Date ______ Date ______ Date ______ No. ______

STATION	B.S.	H.I.	F.S.	ELEV.	
					70+00

DATUM
MEAN LOWER LOW WATER

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5.66

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

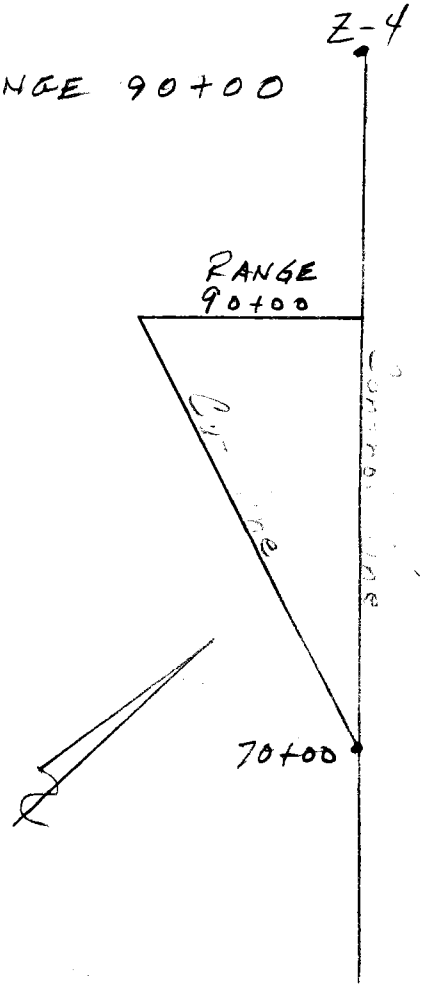
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range	Line	Card No
Don't Punch	Don't Punch	Don't Punch	Don't Punch			Deg.	Min.	
70+00	Z-4	9:45	1	312	16			
			2	313	03			
			3	313	38			
			4	314	24			
			5	315	05			
			6	315	45			
			7	316	10			
			8	317	36			
			9	318	47			
			10	319	45			
			11	320	40			
			12	321	35			
			13	322	35			
			14	323	27			
			15	324	13			
			16	325	06			
			17	326	03			
			18	326	57			
			19	327	50			
			20	328	38			

RANGE 90+00



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

X-Sec. No. ____ Date ____ Date ____ Survey of ____ Notes D.L.W. Date 6-23-70

Notes Chkd. ____ Checked ____ Survey by ____

Date ____ Date ____ Map No. ____ Indexed M. E. OTT Date JL 23 70

F. B. 2822 Pg. 140

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F. B. 2822 Pg. 150 Job No. 03002 Division No. 11 Notes Red. Plotted
Survey of ZUMA BEACH Date Date No. Profile
Survey by RICHARDS Notes D L W Notes Chkd. Checked X-Sec.
Indexed Date Date Date No.

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
70+00	z-4		21	329	44			
			22	330	22			
			23	331	23			
			24	332	15			
			25	333	00			
			26	333	52			
			27	334	45			
			28	335	24			
			29	336	11			
			30	336	52			
			31	337	27			
			32	338	13			
			33	338	57			
			34	339	30			
			35	340	30			
			36	341	10			
			37	341	47			
			38	342	22			
			39	343	01			
			40	343	30			

RANGE 90+00
CONTINUED

76L298 307 Cdb 12-62

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
70+00	Z-4		41	344	13			
		7:51	42	345	00			

RANGE

90+00

Profile No. ____ Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. 2822 Pg. 151

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

Notes Chkd. ____ Checked ____ Survey by ____ Notes DLW Date 6-23-70

No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date 11 23 70

F. B. 2822 PG. 152 | 0800.02 Job No. Division No. 11 Notes Red. Plotted Profile

Survey of ZUMA BEACH Date Date No.

Survey by RICHARDS Notes D.L.W. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76-L-298 CE 307 5-66

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.				95+00
90+00				14 37	1"x2" Stk. T.P. from last page			
95+00				11 38				& 1"x2" Stk.
				14 57				73.5 Rt. T.C. Parking Lot
				13 6	140' Lt. Top Brk			
	1 26	7 83		6 57	175' Lt. 1"x2" Stk. T.P.			
			157	-79°	1	25°	45	
		ESTIM.	20±	-122°	2 out	31	57	
			180	-102°	3	30	51	
			139	-61°	4	27	18	
			127	-49°	5	24	19	
			92	-14°	6	23	50	
			108	-30°	7	23	07	10 FT. W. LINE
			122	-44°	8	25	15	BAD SURF & RIPE TIDES 10 W. LINE
			102	-24°	9	22	09	
			120	-42°	10	24	31	
			60	+11°	11	11	29	
			95	-17°	12	13	48	
			87	-09°	13	14	44	
			32	+46°	188 FT LEFT			

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. 2500 Division No. 11 F. B. [illegible] Pg. 153
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion (Turnbull)
Notes Chk'd. ____ Checked ____ Survey by MYERS Notes DRIFTER Date 6-23-70
Date ____ Date ____ Map No. ____ Indexed M. E. OTV Date JUL 23 70

F. B. 2822 PG. 154

Job No. 0300 02 Division No. 11 Notes Red ______ Plotted ______ Profile

Survey of Beach Erosion (Zuma Beach) Date ______ Date ______ No. ______

Survey by ______ Notes ______ Notes Chk'd. ______ Checked ______ X-Sec.

Indexed ______ Date ______ Date ______ Date ______ No. ______

STATION	B.S.	H.I.	F.S.	ELEV.	
95+00					

Do not extend notes this side of this line.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76-L-298 CE 307 5.66

DATUM
MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

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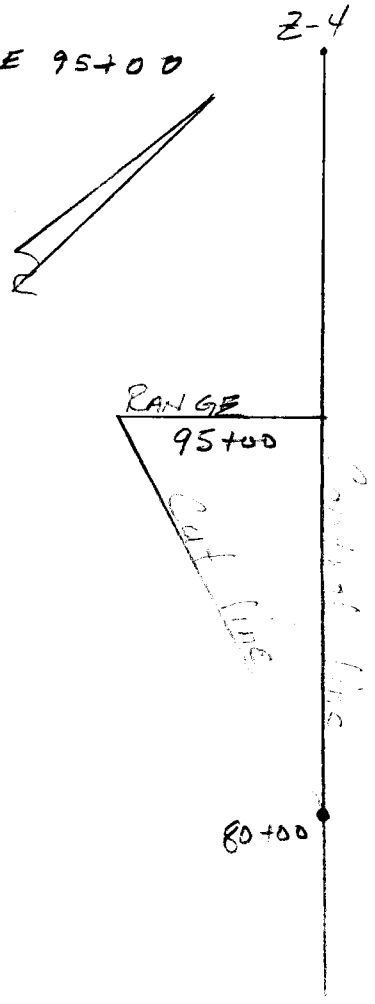
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
80+00	Z-4	10:18	1	305	32			
			2	305	54			
			3	306	33			
			4	307	22			
			5	308	11			
			6	308	53			
			7	309	47			
			8	310	40			
			9	311	31			
			10	312	20			
			11	313	30			
			12	314	27			
			13	315	26			
			14	316	16			
			15	317	21			
			16	318	24			
			17	319	20			
			18	320	13			
			19	321	16			
			20	322	30			



Profile Notes Red. Plotted Job No. Division No.

No. Date Date Survey of

X-Sec. Notes Chkd. Checked Survey by Notes D.L.W. Date 6-23-70

No. Date Date Map No. Indexed Date JUL 23 '70

F. B. 7822 PG. 155

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

RANGE 95+00 CONTINUED

Inst. At (Don't Punch)	Sight On (Don't Punch)	Time (Don't Punch)	Angle No. (Don't Punch)	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
80+00	Z-4		21	323	21			
			22	324	43			
			23	325	23			
			24	326	27			
			25	327	32			
			26	328	30			
			27	329	10			
			28	330	12			
			29	330	50			
			30	331	32			
			31	332	06			
			32	332	58			
			33	333	27			
			34	334	30			
			35	335	25			
			36	336	04			
			37	336	27			
			38	337	30			
			39	338	05			
		10'23	40	338	35			

F. B. 2822 Pg. 156 Job No. 030002 Division No. 11 Notes Red. Plotted
Survey of ZUMA BEACH Date Date No. X-Sec. Profile
Survey by RICHARDS Notes D. L. W. Notes Chkd. Checked
Indexed Date Date No.

Notes Ck'd by	Survey of HYDROGRAPHIC SURVEY
Map No.	JN 0300.02 Trape Std °F
Office Work	Surveyed by RICHARDS
Checked	Notes UHARRIET Date 6-24-70
Date	Indexed N. E. OTT JUL 23 '70

F.B. 2822 PG. 157

TIDE GAGE READINGS
JUNE 24, 1970
TIME - P.S.T.
DATUM - M.L.L.W.

TIME	TIDE
6:00	-0.4
6:30	-0.4
7:00	-0.7
7:30	-0.7
8:00	-0.5
8:30	-0.2
9:00	0.1
9:30	0.6
10:00	1.1
10:30	1.8
11:00	2.3
11:30	2.8
12:00	3.3
12:30	3.6
13:00	3.9
13:30	4.0
14:00	4.1

NOTE — TIDE GAGE STATION IS LOCATED AT SOUTH END OF BERTH 60, L.A. OUTER HARBOR.

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

Do not extend this side of this line.

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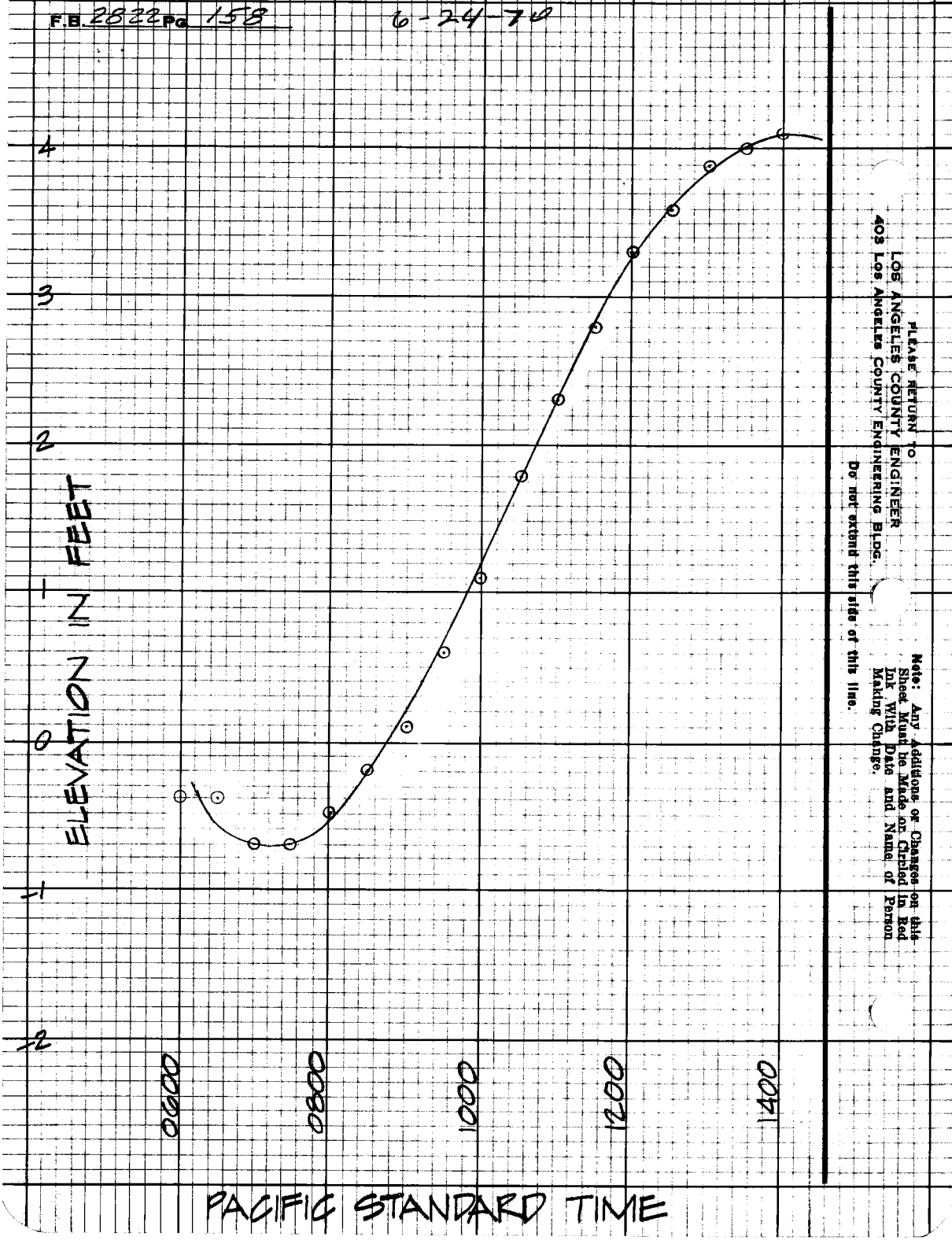
403 LOS ANGELES COUNTY ENGINEERING BLDG.

75F3098 CE#310 9-67

F.B. 2822 Pg. 158

6-24-70



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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.				100+00
95+00				11 38	1X2" STK. From Last Page			
100+00				11 49				& 1X2" STK.
T.B.M.#6				~~17 17~~	T.B.M. #6 El. = 17.21 F.B. 3790-147			
100+00				14 0				100' sand
"				14 34				120' Top cb. @ pr. lot
"				13 3	124' Top brk.			
"				4 6	174' M.H.W.			
"	1 25	6 15		4 90	174' 1X2 STK.			
					π occupy 95+00,			SIGHT ON 100+00
			4 6	1 6	203 FT LEFT			
			6 2	0 0	225 " "			
			6 8	-0 6	#1	28°	44'	
			7 3	-1 1	2	33	27	
			7 9	-1 7	3	37	18	
			8 7	-2 5	4	39	59	
			9 3	-3 1	5	41	21	
			13 5	-7 3	6	46	14	15 W. of LINE
		ESTIM.	20 00	—	7	VIS. BAD		No ANGLE

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. [illegible] Division No. 11
No. ____ Date ____ Date ____ Survey of [illegible] (Zuma Beach)
X-Sec. Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date 6-24-70
No. ____ Date ____ Date ____ Map No. H. E. OTT dexed ____ Date JUL 23 '70

F. B. [illegible] PG. [illegible]

F. B. 2822 Pg. 160

Job No. 0300 02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion (Cum Beach) Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

STATION	B. S.	H. I.	F. S.	ELEV.
				100.00

Do not extend notes this side of this line.

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76-L-298 CE 307 5-66

DATUM
~~MEAN LOWER LOW WATER~~

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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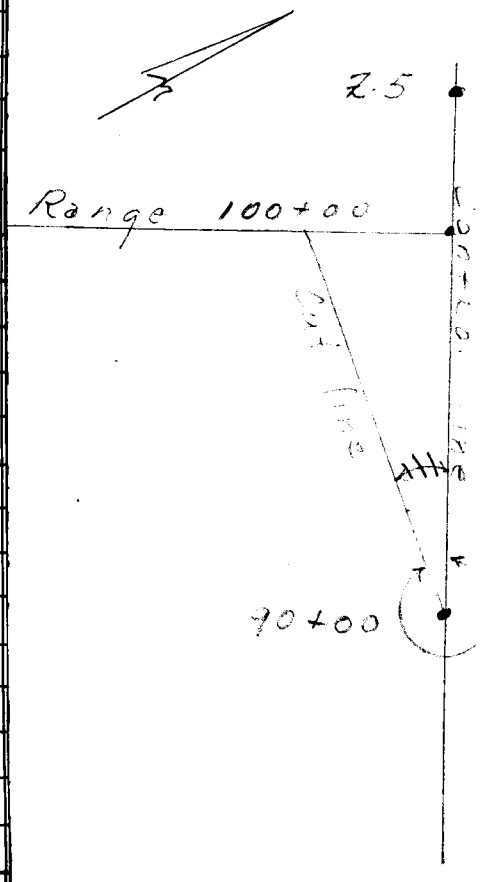
Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	FOR OFFICE USE ONLY LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
90+00	Z-5	6:55	1	298	10			
			2	298	30			
			3	299	20			
			4	300	00			
			5	300	51			
			6	301	44			
			7	302	18			
			8	302	52			
			9	303	33			
			10	304	15			
			11	305	07			
			12	305	43			
			13	306	34			
			14	307	25			
			15	308	17			
			16	309	05			
			17	310	08			
			18	311	05			
			19	311	49			
			20	312	42			



Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. 2822 Pg. 61

No. ____ Date ____ Date ____ Survey of ____

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

No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

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Do not extend notes this side of this line.

RANGE 100+00
CONTINUED

Inst. At (Don't Punch)	Sight On (Don't Punch)	Time (Don't Punch)	Angle No. (Don't Punch)	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
90+00	Z-5		21	313	25			
			22	314	23			
			23	315	14			
			24	315	57			
			25	316	45			
			26	317	45			
			27	318	22			
			28	319	12			
			29	320	15			
			30	320	55			
			31	321	59			
			32	322	59			
			33	323	34			
			34	324	26			
			35	325	34			
			36	326	12			
			37	327	12			
			38	328	1[illegible]			
			39	329	59			
			40	330	40			
		7:00	41	330	14			

F. B. 2822 Pg. 162 | Job No. 03300,02 | Division No. 11 | Notes Red. | Plotted | Profile
Survey of ZUMA BEACH | Date | No. | X-Sec.
Survey by RICHARDS | Notes B.N. | Notes Chkd. | Checked | Date | No.
Indexed | Date

76-L-298 CE 307 5-66

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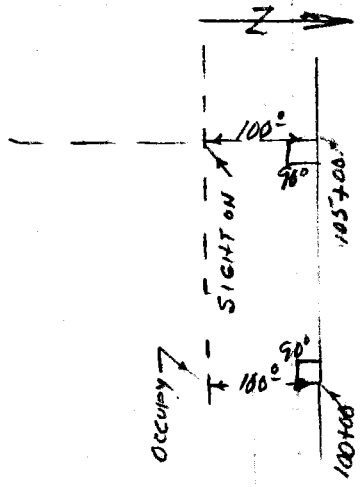
STATION	B. S.	H. I.	F. S.	ELEV.		
105+00				11 75		℄ 1X2 STK.
"				140		94' sand
"				1446		102' Top cb. @ Pk. lot
"				103	30' Bot. brk.	
"				132	115' Top brk.	
"		60		46	165' M.H.W.	
"	110	597		487	165' 1X2 STK.	
				3.7	↑ OCCUPY 100+00 100 OFFSET S, SIGHT 105+00	100 OFFSET S.
			33		185 ft. LEFT	
			58	02	#1 14° 40'	
			70	-10	2 18 08	
			76	-16	3 22 56	
			75	-15	4 27 23	
			81	-21	5 30 44	
			100	-40	6 36 13	
			115	-55	7 39 08	
			140	-80	8 42 56	
			170	-110	9 45 39	



DATUM
MEAN LOWER LOW WATER

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

Notes Red ____ Date ____ Notes Chk'd. ____ Date ____

Plotted ____ Date ____ Checked ____ Date ____

Job No. ____ Division No. ____ Survey of ____ Survey by ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F. B. ____ Pg. ____

F. B. 2822 PG. 164

Job No. 0300 02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion (Zuma Beach) Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.		
						105+00

DATUM

~~MEAN LOWER LOW WATER~~

76L298 307 Cdb 12-62

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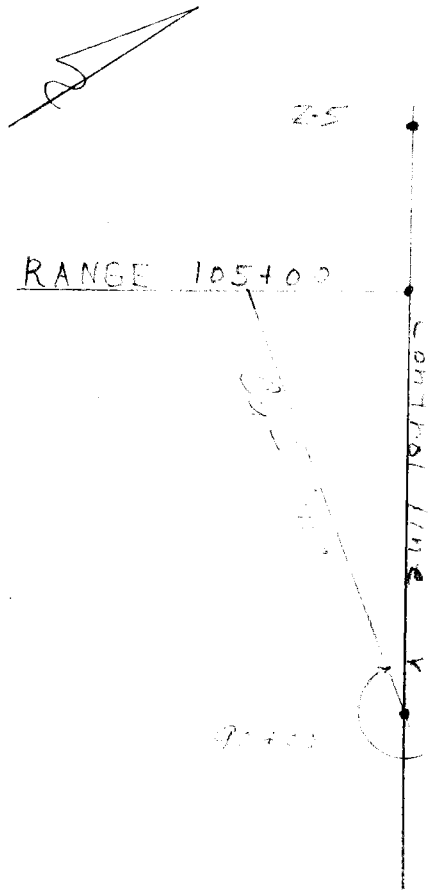
Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
90+00	2-5	7:14	1	306	26			
			2	307	03			
			3	307	41			
			4	308	06			
			5	308	30			
			6	308	59			
			7	309	49			
			8	310	42			
			9	311	55			
			10	312	58			
			11	313	43			
			12	314	33			
			13	315	25			
			14	316	16			
			15	317	06			
			16	317	56			
			17	318	40			
			18	319	18			
			19	320	08			
			20	320	53			



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

X-Sec. No. ____ Date ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of ____ Survey by ____ Map No. ____ Notes ____ Date ____ Indexed M. E. OTT Date JU 23 '76

76L298 307 Cdb 12-62

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Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
90+00	75		21	321	43			
			22	322	35			
			23	323	20			
			24	324	17			
			25	325	07			
			26	325	57			
			27	326	56			
			28	327	31			
			29	328	28			
			30	329	14			
			31	330	05			
			32	330	53			
			33	331	43			
			34	332	28			
			35	333	28			
			36	332	51			
			37	334	45			
			38	335	29			
			39	336	00			
			40	336	57			

RANGE 105+00
CONTINUED

F. B. 2822 Pg. 166 | Job No. 03000,02 | Division No. 11 | Notes Red. | Plotted | Profile
Survey of ZUMA BEACH | Date | Date | No.
Survey by RICHARDS | Notes B.N. | Notes Chkd. | Checked | X-Sec.
Indexed | Date | Date | Date | No.

76L298 307 Cdb 12-62

PLEASE RETURN TO

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

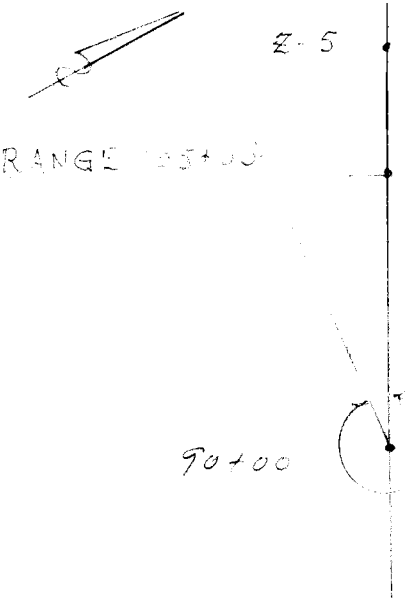
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
90+00	Z-5		[illegible]	337	28			
			[illegible]	338	16			
			[illegible]	[illegible]	58			
		7:20	[illegible]	339	45			

Range [illegible] CONTINUED

Inst. at [illegible]



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

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

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

No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 70

F. B. [illegible] Pg. 167

F. B. 2822 PG. 168 | Job No. 030002 Division No. 11 Notes Red. ______ Plotted ______ Profile

Survey of ZUMA BEACH ______ Date ______ Date ______ No. ______

Survey by RICHARDS Notes B.N. ______ Notes Chkd. ______ Checked ______ X-Sec.

Indexed ______ Date ______ Date ______ Date ______ No. ______

Inst. At (Don't Punch)	Sight On (Don't Punch)	Time (Don't Punch)	Angle No (Don't Punch)	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No

Do not extend notes this side of this line.

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L298 307 Cdb 12-62

76-L-298 CE 307 5-66

PLEASE RETURN TO
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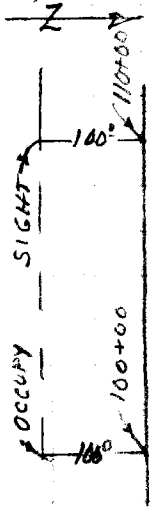
403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.		110+00
110+00				1121		℄ 1x2 Stk.
"				133		41' Bot. brk.
"				150		47' Top brk.
"				135	106' Top brk.	
"		9.		46	154' M.H.W.	
"	114	588		474	154' 1x2 Stk.	
					↑ OCCUPY 100+00, 100 FT. S, SIGHT ON 110+00 100 FT, SOUTH	
			33	26	177 FT LEFT	
			60	-01	#1 06° 15'	
			65	-06	2 8 12	
			76	-17	3 10 52	
			74	-15	4 13 52	
			80	-21	5 15 49	
			125	-66	6 21 35	
			164	-105	7 24 58	
			185	-126	8 27 08	
			134	-75	9 22 16	



DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300 Division No. 11 F. B. 2822 Pg. 169
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion (Zuma Beach)
Notes Chk'd. ____ Checked ____ Survey by K. Myers Notes K.M.K. Date 6-24-70
Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F. B. 2822 Pg. 170 | Job No. 0300 02 Division No. 11 | Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion (Zuma Beach) Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

STATION	B. S.	H. I.	F. S.	ELEV.
				110+00

DATUM
MEAN LOWER LOW WATER

Do not extend notes this side of this line.

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

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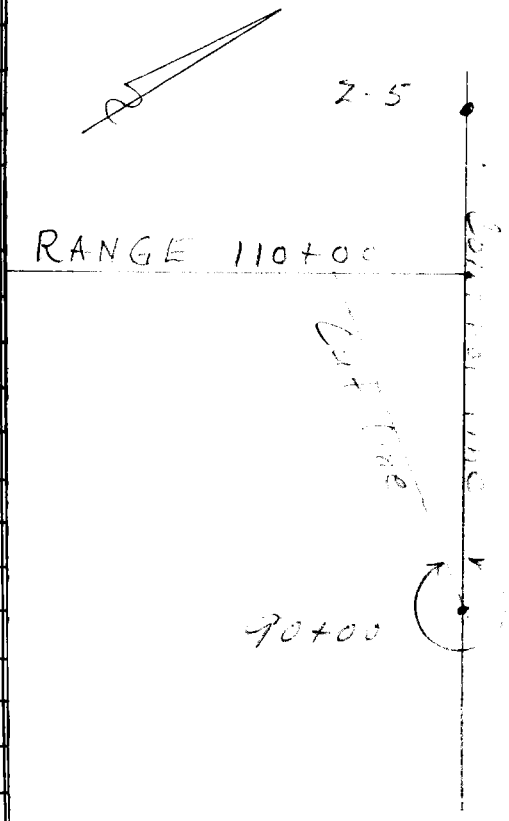
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
90+00	Z-5	8:54	1	318	15			
			2	319	28			
			3	320	12			
			4	320	53			
			5	321	42			
			6	322	18			
			7	323	06			
			8	323	55			
			9	324	37			
			10	325	30			
			11	326	10			
			12	326	53			
			13	327	39			
			14	328	17			
			15	328	58			
			16	329	42			
			17	330	11			
			18	331	00			
			19	331	40			
			20	332	13			



Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. 282.9 Pg. 171

No. ____ Date ____ Date ____ Survey of ZUMA BEACH

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

No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle Nº	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card Nº.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
90+00	Z-5		21	333	02			
			22	333	43			
			23	334	21			
			24	335	48			
			25	336	31			
			26	337	20			
			27	337	46			
			28	338	30			
			29	339	06			
			30	339	32			
			31	340	07			
			32	340	39			
			33	341	43			
			34	342	03			
		9:00	35	343	05			

F. B. 2822 Pg. 172 Job No. 0300,02 Division No. 11 Notes Red. Plotted. Profile

Survey of ZUMA BEACH Date Date No. X-Sec.

Survey by RICHARDS Notes B. N. Notes Chkd. Checked. Date No.

Indexed Date Date

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.		115+00
115+00				1138		℄ 1x2 STK.
"				126		48' Bot. brk.
"				143		56' Top brk.
"				1313		63' Top cb. @ pk. lot
"				133	94' Top brk.	
"				46	143' M.H.W.	
"	006	488		474	143' 1x2 STK.	
						100 OFFSET S.
					⊼ OCCUPY 100+00, 100 FT. OFFSET S. SIGHT 115+00	
			26	22	169 FT.	
			57	-09	#1 4° 19	
			62	-14	2 6 10	
			64	-16	3 8 00	
			68	-20	4 09 19	
			114	-66	5 14 35	
			140	-92	6 15 44	10 FT.W.
			165	-117	7 18 08	
			180	-132	8 19° 11'	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. ____ Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of ____ Pg. ____
Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 6-24-70
Date ____ Date ____ Map No. ____ Indexed M. E. OTT Date JUL 23 '70
F. B. ____

F. B. 3822 PG. 174 Job No. 2300 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion (Zuma Beach) Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

STATION	B. S.	H. I.	F. S.	ELEV.
				115700

DATUM
MEAN LOWER LOW WATER

Do not extend notes this side of this line.

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

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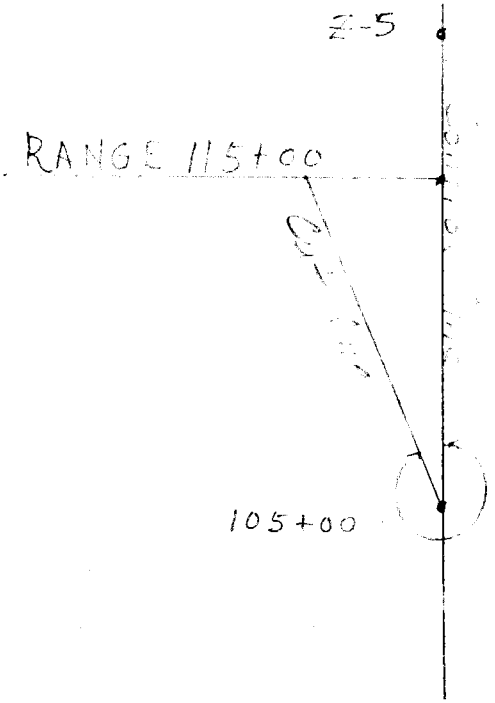
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
105+00	Z-5	9:11	1	295	49			
			2	296				
			3	297	08			
			4	297	31			
			5	297	43			
			6	298	13			
			7	298	53			
			8	299	35			
			9	300	24			
			10	301	13			
			11	301	47			
			12	303	00			
			13	303	49			
			14	304	33			
			15	305	31			
			16	306	18			
			17	306	58			
			18	307	47			
			19	308	38			
			20	309	32			



Profile No. ____ Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. ____ Pg. 75

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

Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by ____ Map No. ____ Indexed H. E. OTT Date JUL 23 70

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
105+00	Z-5		21	310	08			
			22	311	02			
			23	311	46			
			24	312	38			
			25	313	38			
			26	314	17			
			27	315	05			
			28	315	52			
			29	316	46			
			30	317	38			
			31	318	59			
			32	320	37			
			33	321	44			
			34	323	08			
			35	324	08			
			36	324	48			
			37	326	02			
			38	326	46			
			39	328	13			
			40	329	32			

RANGE 115+00
CONTINUED

F. B. 2822 PG. 176 | Job No. 030002 | Division No. 11 | Notes Red. | Plotted | Date | No. | Profile
Survey of ZUMA BEACH | Date | Notes Chkd. | Checked | Date | No. | X-Sec.
Survey by RICHAROS | Notes B. N. | Date | Date
Indexed

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
105+00	E-5		41	330	37			
			42	331	53			
			43	332	59			
		9:17	44	333	54			

Range 115 [illegible]

Inst. at 105+00

Profile Notes Red. ____ Plotted ____ Job No. [illegible] Division No. [illegible] F. B. 2822 Pg. 77

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date 6-24-70

No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F. B. 2822 PG. 178 | Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of ZUMA BEACH Date Date No.

Survey by RICHARDS Notes B.N. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					

Do not extend notes this side of this line.

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Notes Ck'd by	Survey of HYDROGRAPHIC SURVEY
Map No.	JN 030002 Trape Std "F
Office Work	Surveyed by RICHARDS
Checked	Notes UHARRIET Date 7-2-70
Date	Indexed H. E. On JUL 23 '70

F.B. 2822 PG. 179

TIDE GAGE READINGS
JULY 2, 1970
TIME – P.S.T.
DATUM – M.L.L.W.

TIME	TIDE
6:00	0.1
6:30	1.4
7:00	2.2
7:30	2.5
8:00	3.0
8:30	3.2
9:00	3.3
9:30	3.5
10:00	3.3
10:30	3.4
11:00	3.1
11:30	2.9
12:00	2.8
12:30	2.6
13:00	2.4
13:30	2.2
14:00	2.3

NOTE – TIDE GAGE STATION IS LOCATED AT SOUTH END OF BERTH 60, L.A. OUTER HARBOR.

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

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75F3C98 CE#310 9-67

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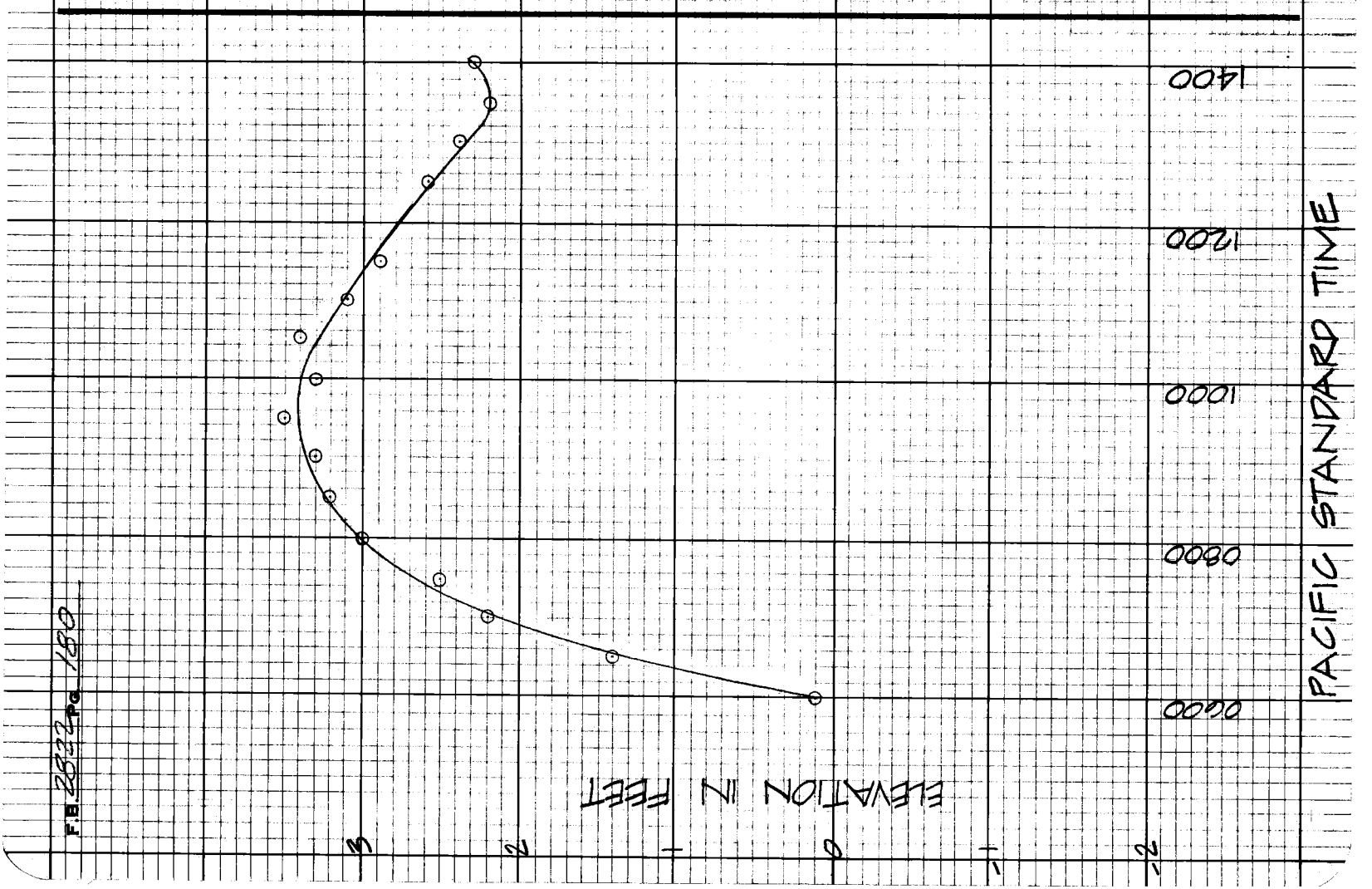
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend this side of this line.



F.B. 2833 Pg. 180

76-L-298 CE 307 5-66

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.		120+00
T.B.M. #7				1500	T.B.M. #7 Elev. = 14.97 F.B. 3790-148	
120+00				1283		℄ 1X2 STK.
"				149		12' Top brk.
"				132	85' Top brk.	
"	190	876		686	120' Lt. 1x2" Stk. T.P.	
"					⊼ SET AT 115+00 SIGHT ON 120+00	
			42	46	137' Lt. M H.W.	
			67	21	#1 12° 22'	
			88	00	2 13 03	
			110	-22	3 21 15	
			118	-30	4 25 16	
			115	-27	5 27 43	
			105	-17	6 30 55	
			102	-14	7 33 34	
			110	-22	8 36 36	
			130	-42	9 40 28	
			148	-60	10 43 20	
			162	-74	11 44 53	

DATUM
~~MEAN LOWER LOW WATER~~

Profile Notes Red ____ Plotted ____ Job No. 0300 Division No. 11
No. ____ Date ____ Date ____ Survey of [illegible] Profile
X-Sec. Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date 7/2/70
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 70

F. B. 78[illegible] PG. 181

F. B. 2822 PG. 182 Job No. 0300[02] Division No. 11 Notes Red______ Plotted______ Profile

Survey of Beach Erosion (Zuma Beach) Date______ Date______ No.______

Survey by______ Notes______ Notes Chk'd.______ Checked______ X-Sec.

Indexed______ Date______ Date______ Date______ No.______

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

120+00

DATUM
MEAN LOWER LOW WATER

Do not extend notes this side of this line.

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5.66

76L298 307 Cdb 12-62

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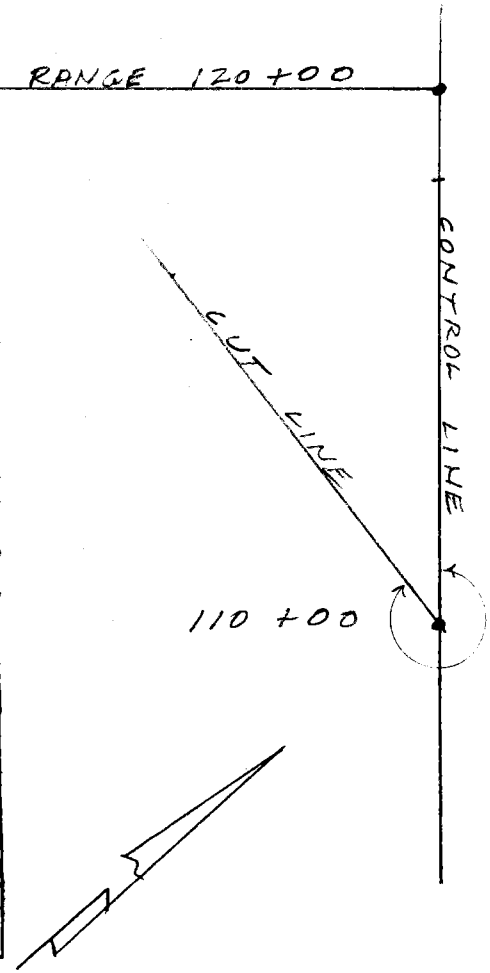
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
110+00	120+00	7:36	1	296	41			
			2	297	18			
			3	298	00			
			4	298	36			
			5	299	16			
			6	299	58			
			7	300	34			
			8	301	19			
			9	302	21			
			10	303	23			
			11	304	26			
			12	305	16			
			13	306	11			
			14	307	13			
			15	308	20			
			16	309	25			
			17	310	35			
			18	311	32			
			19	312	32			
			20	313	29			



Profile Notes Red. ____ Plotted ____ Job No. 0300 [illegible] Division No. [illegible] F.B. 28[illegible] Pg. 183

No. ____ Date ____ Date ____ Survey of ZUMA BEACH

X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Notes W.A.R. Date 7/2/[illegible]

No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JU 23 70

76L298 307 Cdb 12-62

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Do not extend notes this side of this line.

Profile No. X-Sec. No.
Plotted Date Checked Date
Notes Red. Date Notes Chkd. Date
Division No. 11 Job No. 83002
Survey of ZUMA BEACH Notes 7/2/70 Date
Survey by RICHARDS
Indexed
F. B. 2822 Pg. 184

Inst. At	Sight On	Time	Angle No.	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
110+00	120+00		21	314	36			
			22	315	25			
			23	316	37			
			24	317	45			
			25	318	50			
			26	320	01			
			27	320	58			
			28	322	24			
			29	323	23			
			30	324	14			
			31	325	25			
			32	326	27			
			33	327	43			
			34	328	35			
			35	329	46			
			36	330	53			
			37	331	28			
			38	332	54			
			39	333	21			
			40	334	28			
		7:42	41	335	29			

RANGE 120+00

Inst. at 110+00

76-L-298 CE 307 5-66

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.		125+00
125+00				1117		℄ 1x2 Stk.
"				133		24' Top brk.
"				1515		65' Top cb. @ pk. lot
"		80		130	83' Top brk.	
"	108	798		690	114' Lt. 1"x2" Stk. T.P.	
"					↑ OCCUPY 120+00 SIGHT ON 125+00	
			34	46° 129	FT. LEFT MHW	
			57	23° 1	16° 21'	
			70	10° 2	18 26	
			87	-07° 3	21 58	
			106	-26° 4	24 23	
			105	-25° 5	NO ANGLE	
			88	-08° 6	30 06	
			98	-18° 7	33 33	
			97	-17° 8	35 21	
			~~120~~	~~-40° 9~~	~~33~~ 8? 32	? BAD ANGLE READING
			135	-~~50~~ 58° 10	40 36	
			161	-81° 11	43 35	

DATUM
~~MEAN LOWER LOW WATER~~

Profile No. ____ Notes Red ____ Plotted ____ Job No. 2301 Division No. 11
X-Sec. No. ____ Date ____ Date ____ Survey of [illegible] Date 7/2/70
Notes Chk'd. ____ Checked ____ Survey by K. [illegible] Notes K. [illegible] Date ____
Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F. B. [illegible] PG. 185

F. B. 2822 PG. 186 Job No. 0300-02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion (Zuma Beach) Date _____ Date _____ No. _____

Survey by _____ Notes: _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

STATION	B. S.	H. I.	F. S.	ELEV.
				125+00

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

DATUM
MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

PLEASE RETURN TO

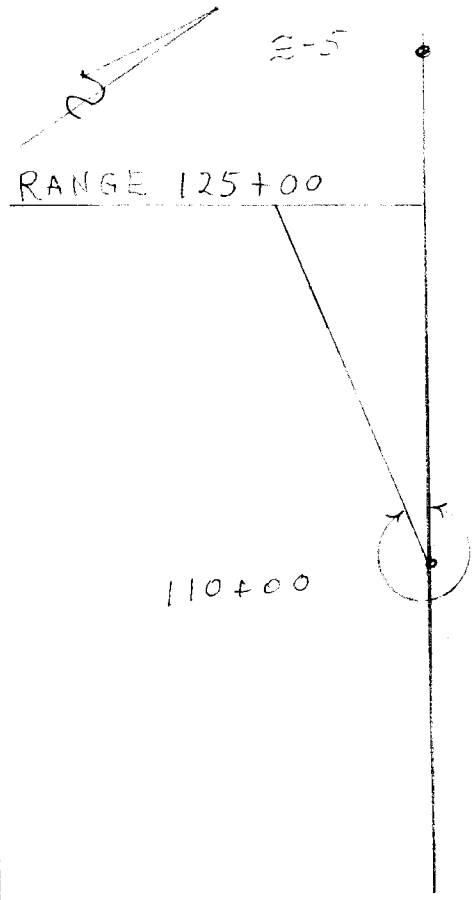
LOS ANGELES COUNTY SURVEYOR

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
110+00	E-5	7:53	1	313	08			
			2	313	58			
			3	314	47			
			4	315	33			
			5	316	21			
			6	316	55			
			7	317	48			
			8	318	23			
			9	319	17			
			10	320	03			
			11	320	25			
			12	321	39			
			13	322	15			
			14	322	57			
			15	323	38			
			16	324	27			
			17	325	02			
			18	326	00			
			19	327	05			
			20	327	56			



Profile Notes Red. ____ Plotted ____ Job No. 03000.02 Division No. 11 F.B. 2022 Pg. 187

No. ____ Date ____ Date ____ Survey of ZUMA BEACH

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes B.H. Date 7-2-70

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____ W. E. OTT JUL 23 '70

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
110+00	Z-5		21	328	40			
			22	329	19			
			23	330	05			
			24	330	46			
			25	331	41			
			26	332	35			
			27	333	29			
			28	334	25			
			29	335	09			
			30	335	49			
			31	336	38			
			32	337	16			
			33	338	06			
			34	338	55			
			35	339	33			
			36	340	06			
			37	340	51			
			38	341	46			
			39	342	35			
			40	343	19			

RANGE 125+00

Inst. at 110+00

F. B. 2822 PG. 188 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile
Survey of ZUMA BEACH Date Date No.
Survey by RICHARDS Notes Chkd. Checked X-Sec.
Indexed Date Date No.

76L298 307 Cdb 12-62

PLEASE RETURN TO

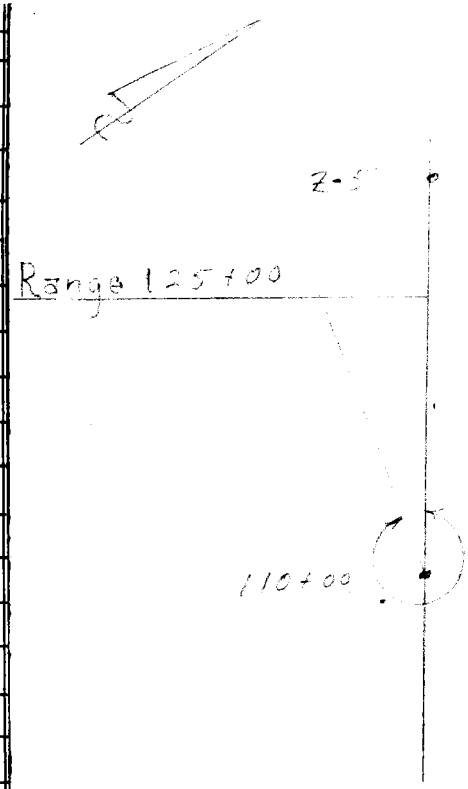
LOS ANGELES COUNTY SURVEYOR

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
110+00	Z-5		41	344	04			
			42	344	48			
		7:58	43	345	44			



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2822 Pg. 189

No. ____ Date ____ Date ____ Survey of ZUMA BEACH

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes B.H. Date 7/2/70

No. ____ Date ____ Date ____ Map No. ____ Indexed W. E. OTT Date JUL 23 '70

F. B. 2822 PG. 190 | Job No. 0300,02 Division No. 11 Notes Red. ______ Plotted ______ Profile

Survey of ZUMA BEACH Date ______ Date ______ No. ______

Survey by RICHARDS Notes B.N- 7/2/70 Notes Chkd. ______ Checked ______ X-Sec.

Indexed ______ Date ______ Date ______ Date ______ No. ______

Inst. At (Don't Punch)	Sight On (Don't Punch)	Time (Don't Punch)	Angle Nº (Don't Punch)	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card Nº

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 Cdb 12-62

76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.		130+00
130+00				9 97		℄ 1x2 Stk.
				14 3		91' Rt. Sand @ [illegible]
				14 4		100' Rt. T.C. @ [illegible]
				13 0	83' Lt. Top Brk.	
				6 69	120' Lt. 1"x2" Stk. T.P.	
T.B.M. #8				15 02	T.B.M. #8, El. = 15.02 F.B. 3790-148	
					π occupy 125+00 S	
	152	8 21		6 69		
			146	-64	#1	44° 05'
			153	-71	2 OUT MORE	46 16
			124	-42	3	~~45 17~~ X (BAD ANGLE)
			102	-20	4	34 57
			91	-09	5	30 43
			92	-10	6	23 43
			84	-02	7	21 07
			70	12	8	18 40
			36	46	136 FT LEFT M.H.W.	

DATUM
~~MEAN LOWER LOW WATER~~

Profile No. ____ Notes Red ____ Plotted ____ Job No. [illegible] Division No. ____
Date ____ Date ____ Survey of [illegible] Survey by [illegible] Notes [illegible] Date 7/2/70
X-Sec. No. ____ Notes Chk'd. ____ Checked ____ Map No. ____ Indexed H. E. OTT Date JUL 23 70

F. B. 7877 Pg 191

F. B. 2822 PG. 192 | Job No. 0300 02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion (Zuma Beach) Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ 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
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

130400

DATUM
~~MEAN LOWER LOW WATER~~

76L298 307 Cdb 12-62

PLEASE RETURN TO

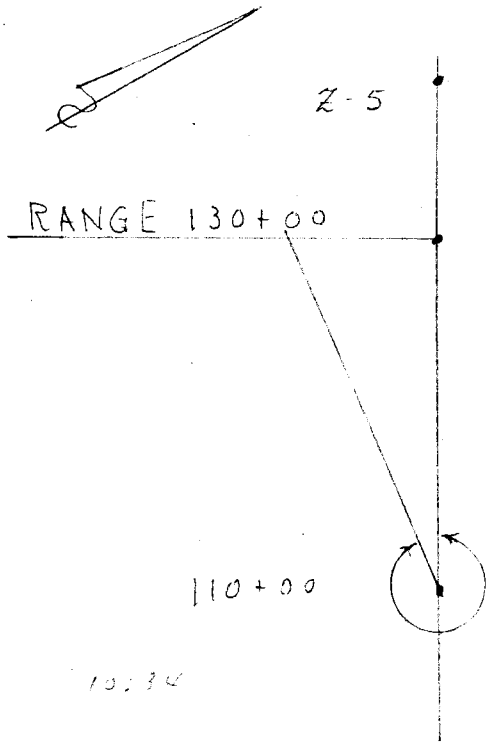
LOS ANGELES COUNTY SURVEYOR

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
110+00	Z-5	9:34	1	319	48			
			2	320	22			
			3	321	02			
			4	321	35			
			5	322	09			
			6	322	35			
			7	323	04			
			8	323	45			
			9	324	43			
			10	325	21			
			11	326	05			
			12	326	52			
			13	327	44			
			14	328	35			
			15	329	19			
			16	330	17			
			17	331	12			
			18	332	01			
			19	333	05			
			20	333	57			



Profile Notes Red. ____ Plotted ____ Job No. 030002 Division No. 11 F.B. 28222 Pg. 193

No. ____ Date ____ Date ____ Survey of ZUMA BEACH

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes B.N. Date 7/2/70

No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

76L298 307 Cdb 12-62

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.

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
110+00	Z-5		21	334	50			
			22	335	41			
			23	336	34			
			24	337	07			
			25	337	42			
			26	338	32			
			27	339	01			
			28	339	37			
			29	340	17			
			30	340	44			
			31	341	12			
			32	341	56			
			33	342	44			
			34	343	20			
			35	343	55			
			36	344	23			
			37	344	44			
			38	345	22			
			39	345	49			
			40	346	09			

RANGE 130+00

Inst. at 110+00

Profile No. X-Sec. No.
Plotted Date Checked Date
Notes Red. Date Notes Chkd. Date
Division No. 11 Job No. 030002 Notes 7/2/70 Date
F.B. 2822 Pg. 194
Survey of ZUMA BEACH
Survey by RICHARDS
Indexed

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
110+00	Z-5		41	346	27			
			42	347	20			
			43	347	40			
			44	348	07			
			45	348	26			
		9:39	46	349	05			

RANGE 130-0

Inst. at 110+00

Profile Notes Red. ____ Plotted ____ Job No. 030002 Division No. ____ F.B. 2822 Pg. 195

No. ____ Date ____ Date ____ Survey of ZUMA BEACH

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes B.N. Date 7/2/70

No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 70

F. B. 2822 Pg. 196 | Job No. 030002 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of ZUMA BEACH Date _____ Date _____ No. _____

Survey by RICHARDS Notes B.N. 7/2/70 Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					

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 Cdb 12-62

76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.	
					135+00
T.B.M. #8				15.02	T.B.M. #8, El = 15.02, F.B. = 3790-148
135+00				10.33	∅ 1"x2" Stk.
				15.9	68' Rt. Sand @ Wall
				14.03	75' Rt. T.C. @ Bike Path
				12.6	99' Lt. Top Bnk
215	8.79			6.64	133' Lt. 1"x2" Stk. T.P.

π occupy 130+00 SIGHT ON 135+00

42	46.148	FT. LEFT	M.H.W.
65	13.±1	18°	26'
82	+06.2	21	33
98	-10.3	23	24
108	-20.4	26	41
93	-05.5	29	15
98	-10.6	32	07
107	-19.7	34	45
115	-27.8	37	20
135	-47.9	40	23
150	-62.10	43°	45'

DATUM
MEAN LOWER LOW WATER

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F. B. 3790 Pg. 197

F. B. 2822 PG. 198 Job No. 0300 02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion (Zuma Beach) Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

STATION	B. S.	H. I.	F. S.	ELEV.
				135+00

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

DATUM
MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

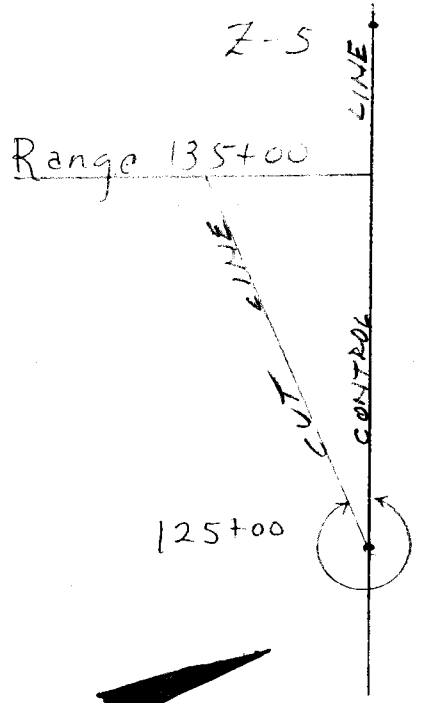
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
125+00	Z 5	9:53	1	298	34			
			2	299	06			
			3	299	34			
			4	300	01			
			5	300	30			
			6	301	14			
			7	301	41			
			8	302	07			
			9	302	57			
			10	303	38			
			11	304	20			
			12	305	18			
			13	306	14			
			14	306	50			
			15	307	37			
			16	308	21			
			17	309	04			
			18	309	53			
			19	310	47			
			20	311	35			

RANGE 135+00



Profile No.____ Notes Red.____ Plotted____ Job No. 0300.02 Division No. 11 F.B. 2872 Pg. 100

X-Sec. No.____ Date____ Date____ Survey of ZUMA BEACH

Notes Chkd.____ Checked____ Survey by RICHARDS Notes B.N.L. Date 7/27/70

Date____ Date____ Map No.____ Indexed H.E. OTT Date JUL 23 70

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
125+00	Z-5		21	312	29			
			22	313	33			
			23	314	31			
			24	315	16			
			25	316	26			
			26	317	27			
			27	318	30			
			28	319	45			
			29	321	07			
			30	322	06			
			31	323	24			
			32	324	25			
			33	325	31			
			34	326	52			
			35	327	39			
			36	328	32			
			37	329	56			
			38	330	32			
			39	331	15			
			40	332	27			

RANGE 135+00
CONTINUED

Profile
Plotted ____ Date ____ No. ____
X-Sec.
Checked ____ Date ____ No. ____
Notes Red. ____ Date ____
Notes Chkd. ____ Date ____
Division No. 11
Job No. 0300.02
Notes B.N.
Date ____
Survey of ZUMA BEACH
Survey by RICHARDS
Indexed ____
F.B. 2822 PG. 200

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	FOR OFFICE USE ONLY LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
125+00	Z5		41	333	31			
			42	334	01			
			43	335	09			
			44	336	30			
			45	337	06			
			46	337	44			
			47	338	57			
		9:56	48	340	03			

Range 135+00 CONTINUED

Inst at 125+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 5822 Pg. 201

No. ____ Date ____ Date ____ Survey of ZUMA BEACH

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes B.N. Date 7/2/70

No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date 7 23 70

F.B. 2822 PG. 202 | Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of ZUMA BEACH Date Date No.

Survey by RICHARDS Notes B.N. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					

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 Cdb 12-62

76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.		140+00
135+00				10 33		℄ T.P. From Last [illegible]
140+00				9 02		℄ 1"x2" Stk.
				13 8		61' Rt. Sand @ [illegible]
				14 04		68' Rt. T.C. @ [illegible]
T.B.M.#9				13 67	T.B.M.#9 El. = 13.68	F.B. 3790-148
140+00				12 4	124' Lt. Top. Brk.	
	1 33	9 33		8 00	148.5 Lt. 1"x2" Stk T.P.	
					↑ OCCUPY 130+00 SIGHT 140+00	
			16 0	-67.1	26° 28'	
			13 8	-45.2	24 30	
			12 2	-29.3	22 34	
			10 9	-16.4	19 47	
			10 2	-09.5	17 41	
			11 0	-17.6	14 55	
			9 4	-01.7	13 04	
			7 4	19.8	11° 01'	
			4 7	46	170 FT LEFT M.H.W.	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0500 Division No. 11
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion (Zuma Beach)
Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date ____
Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F. B. 2822 PG. 203

F. B. 2822 PG. 204 Job No. 0300 02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion (Zuma Beach) Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

76-L-298 CE 307 5-66

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.	
					140+00

DATUM

~~MEAN LOWER LOW WATER~~

76L298 307 Cdb 12-62

PLEASE RETURN TO

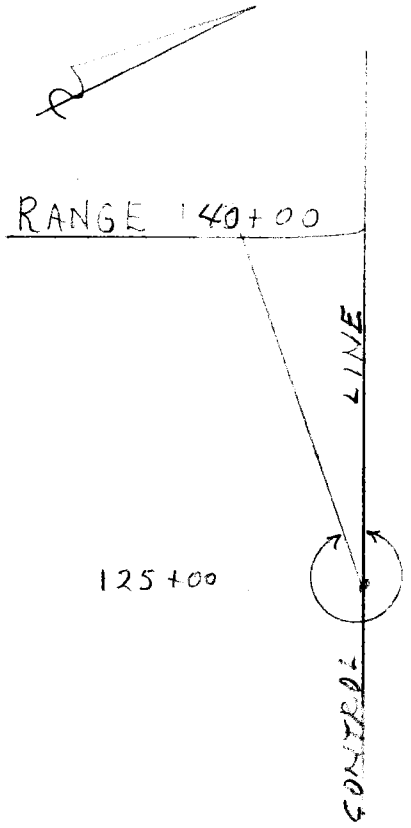
LOS ANGELES COUNTY SURVEYOR

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
125+00	Z5	10:09	1	307	59			
			2	308	44			
			3	309	24			
			4	309	57			
			5	310	27			
			6	310	60			
			7	311	54			
			8	312	51			
			9	313	39			
			10	314	35			
			11	315	30			
			12	316	20			
			13	317	30			
			14	318	17			
			15	319	23			
			16	320	24			
			17	321	22			
			18	322	19			
			19	323	26			
			20	324	30			



Profile Notes Red. ____ Plotted ____ Job No. 030007 Division No. 11 F. B. 2922 Pg. 205

No. ____ Date ____ Date ____ Survey of ZUMA BEACH

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes B.N. Date 7/2/70

No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
125+00	Z-5		21	325	43			
			22	326	50			
			23	327	40			
			24	328	53			
			25	329	53			
			26	330	59			
			27	331	54			
			28	333	05			
			29	333	59			
			30	334	56			
			31	335	31			
			32	336	02			
			33	336	53			
			34	337	30			
			35	338	06			
			36	338	41			
			37	339	22			
			38	340	00			
			39	340	46			
			40	341	17			

RANGE 140+00 CONTINUED

Inst. at. 125+00

Profile No. X-Sec. No.
Plotted Date Checked Date
Notes Red. Date Notes Chkd. Date
Division No. 11 Job No. 030002 Notes B.N.
Survey of ZUMA BEACH
Survey by RICHARDS
Indexed Date
F.B. 2822 Pg. 206

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	FOR OFFICE USE ONLY LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
125+00	Z-5		41	341	58			
		10:14	42	342	51			

RANGE 140+00
CONTINUED

Inst. at 125+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F2B 2822 Pg. 207

No. ____ Date ____ Date ____ Survey of ZUMA BEACH

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes B.N. Date 7/2/70

No. ____ Date ____ Date ____ Map No. ____ Indexed H.E. OTT Date JUL 23 '70

F. B. 2822 Pg. 208 | Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of ZUMA BEACH Date Date No.

Survey by RICHARDS Notes B.N. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					

Do not extend notes this side of this line.

761.298 307 Cdb 12-62

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LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.			145+00
140+00				9 02			℄ 1"x2" FROM Last Pg
145+00				11 93			℄
				11 8			100' Lt. Sand
				12 7	156' Lt. Top Brk		
T.P.	162	9 14		7 52	190' Lt. 1"x2" Stk.		
					⊼ occupy 140+00		SIGHT ON 145+00
			45	46	209	mHW	
			72	19	*1	24° 50'	
			89	02	2	27 25	
			97	-06	3	28 58	
			102	-11	4	31 09	
			100	-09	5	34 45	
			110	-19	6	39 06	
			121	-30	7	~~47 50~~	BAD ANGLE ?
			138	-47	8	45 25	
			159	-68	9	47 33	
			158	-67	10	47 08	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300 Division No. 11 F. B. 2822 Pg. 201
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Sunset Beach
Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F. B. 2822 PG. 210

Job No. 0300 02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion (Zuma Beach) Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

76-L-298 CE 307 5-66

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
						145+00

DATUM

~~MEAN LOWER LOW WATER~~

76L298 307 Cdb 12-62

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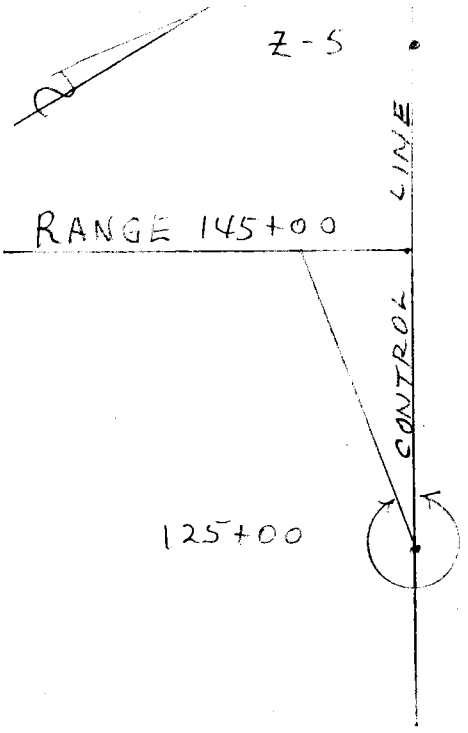
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	FOR OFFICE USE ONLY LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
125+00	Z-5	10:30	1	314	35			
			2	315	17			
			3	316	09			
			4	317	06			
			5	317	45			
			6	318	25			
			7	319	05			
			8	320	00			
			9	320	40			
			10	321	29			
			11	322	15			
			12	323	00			
			13	323	55			
			14	324	41			
			15	325	29			
			16	326	27			
			17	327	20			
			18	328	19			
			19	329	23			
			20	330	12			



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 030002 Division No. 11 F.B. 3822 Pg. 211

X-Sec. No. ____ Date ____ Notes Chkd. ____ Date ____ Date ____ Checked ____ Survey of ZUMA BEACH Survey by RICHARDS Notes BN Date 7/2/70 Map No. ____ Indexed H. E. OTT Date JUL 23 70

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
125+00	Z-5		21	330	59			
			22	331	55			
			23	332	42	X		
			24	333	29			
			25	334	28			
			26	335	22			
			27	336	16			
			28	336	56			
			29	337	37			
			30	338	19			
			31	339	02			
			32	339	39			
			33	340	24			
			34	341	13			
			35	341	57			
			36	342	43			
			37	343	33			
			38	343	53			
			39	344	23			
			40	344	57	X		

40 left out

RANGE 145+00 CONTINUED

Inst at 125+00

F.B. 2822 Pg. 212 Job No. 030002 Division No. 11 Notes Red. Plotted Profile

Survey of ZUMA BEACH Date Date No. X-Sec.

Survey by RICHARDS Notes B.N. Notes Chkd. Checked

Indexed Date Date No.

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	FOR OFFICE USE ONLY LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
125+00	Z-5		41	345	29			
			42	345	56			
		10:40	43	34[illegible]	10			

RANGE 145+00
CONTINUED

Inst. at 125+00

Profile Notes Red. ____ Plotted ____ Job No. 030002 Division No. 11 F.B. 2822 Pg. 213

No. ____ Date ____ Date ____ Survey of ZUMA BEACH

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes B.N. Date 7/2/70

No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F.B. 2822 PG. 214 | 030002

Job No. ______ Division No. 11 Notes Red. ______ Plotted ______ Profile

Survey of ZUMA BEACH Date ______ Date ______ No. ______

Survey by RICHARDS Notes B.N. Notes Chkd. ______ Checked ______ X-Sec.

Indexed ______ Date ______ Date ______ Date ______ No. ______

Inst. At (Don't Punch)	Sight On (Don't Punch)	Time (Don't Punch)	Angle No. (Don't Punch)	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.

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 Cdb 12-62

76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.		
						150+00
145+00				11 93		℄ 1"x2" Stk. Last Ry.
150+00				10 42		℄ Keel Mrk. on Rvm.
				10 0	38' Lt. Bot. Brk.	
				12 3	60' Lt. Top Brk	
				11 7	147' Lt. Sand	
		3		12 9	206' Lt. Top Brk.	
	158	927		7 69	240' Lt. 1"x2" Stk. T.P.	
					⊼ occupy 140+00, SIGHT ON 150+00	
			47	46	260 FT LEFT M.H.W	
			81	12	7 10° 55'	
			90	03	2 16 51	
			106	-13	3 18 50	
			106	-13	4 21 45	
			110	-17	5 24 27	
			127	-34	6 26 35	
			146	-53	7 28 30	
			175	-82	8 30° 52'	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300 Division No. 11 F. B. [illegible] Pg. 215
Date ____ Date ____ Survey of Beach Erosion Cement Lead
X-Sec. No. ____ Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes ____ Date 7/2/70
Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F. B. 2822 PG. 216 Job No. 0300 02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion (Zuma Beach) Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

STATION	B. S.	H. I.	F. S.	ELEV.
				150400

DATUM
~~MEAN LOWER LOW WATER~~

Do not extend notes this side of this line.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

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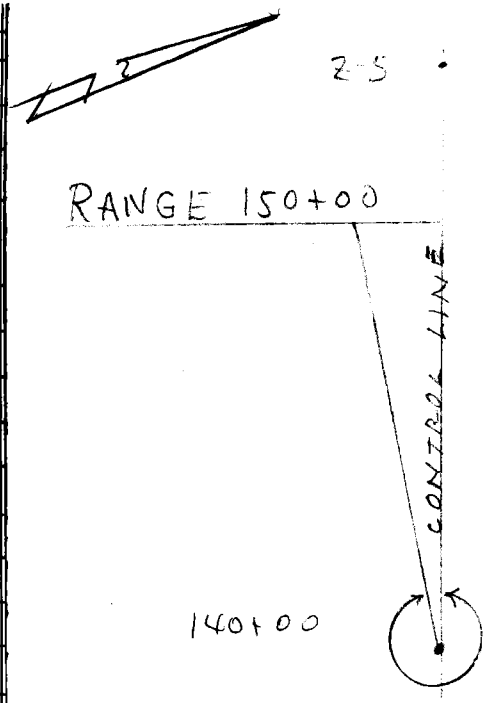
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
140+00	Z 5	11:03	1	298	32			
			2	299	23			
			3	300	00			
			4	300	54			
			5	301	53			
			6	302	39			
			7	303	29			
			8	304	29			
			9	305	29			
			10	306	34			
			11	307	28			
			12	308	38			
			13	309	52			
			14	311	05			
			15	312	22			
			16	313	36			
			17	314	40			
			18	315	44			
			19	316	50			
			20	318	06			



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300002 Division No. 11 F.B. 2822 Pg. 217

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

Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes B.N. Date 7/2/70

No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 70

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Profile No. X-Sec. No.
Plotted Date Checked Date
Notes Red. Date Notes Chkd. Date
Division No. 11 Job No. 030092 Notes B.N. Date
Survey of ZUMA BEACH
Survey by RICHARDS
Indexed
F.B. 2822 Pg. 218

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
140+00	2-5		21	319	28			
			22	320	22			
			23	321	31			
			24	322	33			
			25	323	45			
			26	324	39			
			27	325	12			
			28	326	11			
			29	326	57			
			30	327	25			
			31	328	01			
			32	328	57			
			33	329	22			
			34	330	02			
			35	331	08			
			36	331	40			
			37	332	09			
			38	332	55			
			39	333	37			
		11:08	40	334	28			

RANGE 150+00 CONTINUED.

Notes Ck'd by	Survey of HYDROGRAPHIC SURVEY
Map No.	JN 2300.02 Tape Std °F
Office Work	Surveyed by RICHARDS
Checked	Notes UHARRIET Date 7-3-70
Date	Indexed H. E. OTT JR 23 70

F.B. 2822 PG 219

TIDE GAGE READINGS
JULY 3, 1970
TIME - P.S.T.
DATUM - M.L.L.W.

TIME	TIDE
6:00	0.4
6:30	1.0
7:00	1.4
7:30	2.1
8:00	2.4
8:30	2.8
9:00	3.1
9:30	3.2
10:00	3.4
10:30	3.4
11:00	3.3
11:30	3.2
12:00	3.1
12:30	2.7
13:00	2.6
13:30	2.6
14:00	2.3

NOTE - TIDE GAGE STATION IS LOCATED AT SOUTH END OF BERTH 60, L.A. OUTER HARBOR.

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

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76F3098 CE# 310 9-67

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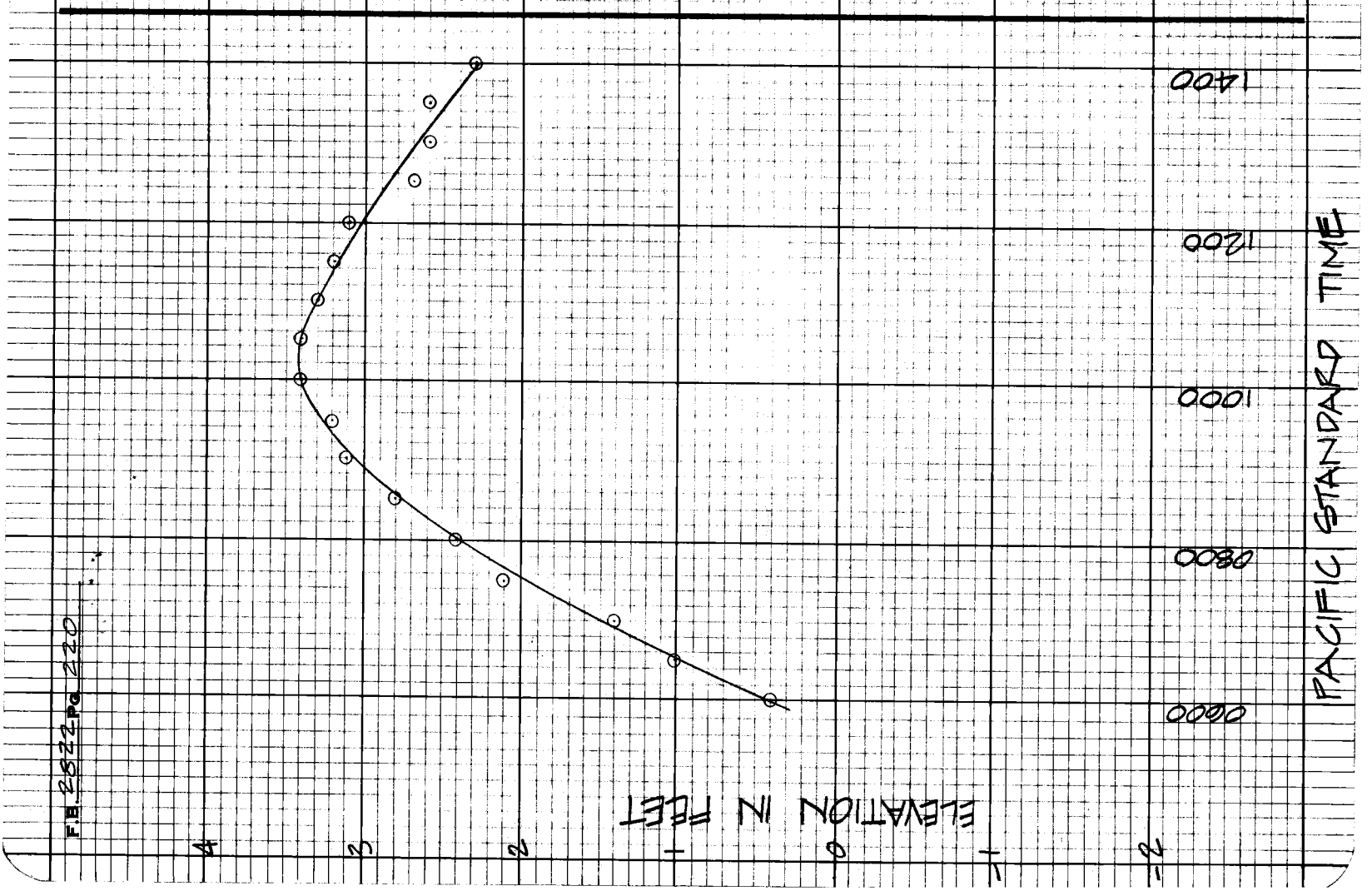
LOS ANGELES COUNTY ENGINEER
408 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend this side of this line.



FB 2822 PG 220

76-L298 CE 307 3-61

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.	155+00 (100' Offset To Left)
150+00				10.42	& Keel Mark on Point.
B.M. Z-5				8.62	B.M. Z-5 El. = 8.64 F.P. 3790-150
155+00				12.71	100' Lt. 1"x2" Stk. T.P.
				13.4	12' Rt. Bot Sand Dune
				18.4	29' Rt. Top Sand Dune
				12.7	52' Rt. Bot Sand Dune
				13.0	100' Rt. ℄ Control Line
				11.3	127' Rt. Sand.
				12.9	90' Lt. Top Brk.
				11.04	107' Lt. 1"x2" Stk. T.P.
	0.73	6.50		5.77	156' Lt. 1"x2" Stk. T.P.
					⊼ Z-5 100 FT. S., SIGHT ON 155+00, 100' Lt.
			19	46	147 FT LEFT M.H.W
			51	14	# 1 20° 30'
			74	-09	2 22 13
			67	-02	3 22 30
			63	02	4 24 45
			67	-02	5 27 45
			75	-10	6 30 49
			78	-13	7 32 42
			82	-17	8 34 11

DATUM
MEAN LOWER LOW WATER

Profile No. ____ X-Sec. No. ____ Notes Red ____ Date ____ Notes Chkd. ____ Date ____ Plotted ____ Date ____ Checked ____ Date ____ Job No. 150 Division No. 11 Survey of Lennox Drainage (Zone 42 Extn.) Survey by MYERS & Notes Date 6-16 Date 7-21-70 Map No. ____ Indexed M. E. OTT Date JUL 21 70 F.B. ____ Pg. 22

76-L298 CE 307 3-61

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.	155+00 (100' Offset To Left)		
		6 50'					
			100	-35'	9	38°	28'
			112	-47'	10	40	30
			140	-75	11	44	12
			151	-8.6	12	45	20

DATUM
MEAN LOWER LOW WATER

F. B. 2822 Pg. 222 Job No. 0300 02 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of Beach Erosion (Zuma Beach) Date ____ Date ____ No. ____
Survey by ____ Notes DREIER Notes Chkd. ____ Checked ____ X-Sec. ____
Indexed ____ Date ____ Date ____ Date ____ No. ____

76L298 307 Cdb 12-62

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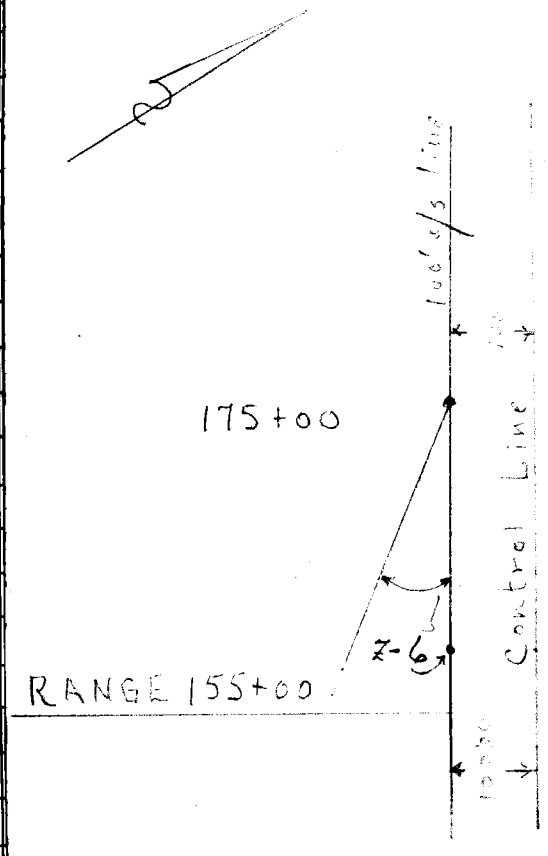
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	FOR OFFICE USE ONLY LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
175+00	Z-6	7:15	1	50	48			
			2	50	03			
			3	49	10			
			4	48	26			
			5	47	29			
			6	46	26			
			7	45	15			
			8	44	17			
			9	43	24			
			10	42	39			
			11	41	54			
			12	41	10			
			13	40	11			
			14	39	22			
			15	38	26			
			16	37	34			
			17	36	57			
			18	36	03			
			19	35	20			
			20	34	45			



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 030002 Division No. 11 F.B. 2822 Pg. 223

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

Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes B.N. Date 7/3/70

No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date 11 23 70

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
175+00	Z-6		21	33	57			
			22	33	09			
			23	32	09			
			24	31	13			
			25	30	21			
			26	29	26			
			27	28	33			
			28	27	48			
			29	27	03			
			30	26	22			
			31	25	34			
			32	24	46			
			33	24	11			
			34	23	35			
			35	23	00			
			36	22	29			
			37	21	32			
			38	21	02			
			39	20	24			
			40	19	33			
		7:20	41	19	07			

RANGE 155+00
CONTINUED
Inst. at 175+00

E.B. 2822 Pg. 224 Job No. 030002 Division No. 11 Notes Red. Plotted Profile
Survey of ZUMA BEACH Date Date No.
Survey by RICHARDS Notes B.H. Notes Chkd. Checked X-Sec.
Indexed Date Date No.

76-L298 CE 307 3-61

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 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.

STATION	B.S.	H.I.	F.S.	ELEV.	160+00 (100' offset To left)	
155+00				12 71	100' Lt. 1"x2" Stk.	From last Pg
160+00				13 81	100' Lt. 1"x2" Stk.	
				14 1		17' Rt. [illegible]
				16 8		41' Rt. Top Bank
				13 1		100' Rt. Sand (Contact Line)
				12 3		130' Rt. Sand.
T.B.M. #10				13 57	T.B.M. #10 El. = 13.59 F.B. 3190-151	
160+00				13 0	17' Lt. Sand	
				12 7	72' Lt. Top Bnk.	
	1 36	7 07		5 71	33' Lt. 1"x2" Stk. T.P.	

100 FT. S.

OCCUPY 2-5, 100 FT OFFSET, SIGHT ON 160+00

172	-10 1	1	26°	00
146	-75	2	24	06
130	-59	3	22	27
112	-41	4	21	00
104	-33	5	19	40
95	-24	6	18	40
89	-18	7	19	49
84	-13	8	14	12
75	-04	9	12	26
69	02	10	10	53

CONT.

DATUM
~~MEAN LOWER LOW WATER~~

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____
No. ____ X-Sec. Date ____ Date ____ Survey of [illegible]
No. ____ Notes Chkd. ____ Checked ____ Survey by MYERS Notes PREIER Date 7/3/70
Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 70

F.B. Pg. 225

F.B. 2822 Pg. 226 | Job No. 0300 02 | Division No. 11 | Notes Red | Plotted | Profile

Survey of Beach Erosion (Zuma Beach) | Date | Date | No.

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

Indexed | Date | Date | Date | No.

76-L298 CE 307 3-61

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.	
					160+00 (100' off Set to Left)
					CONT.
		1. 707			
			58	13. 11	09 45
			25	46. 139 FT LEFT	M.H.W.

DATUM
MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

PLEASE RETURN TO

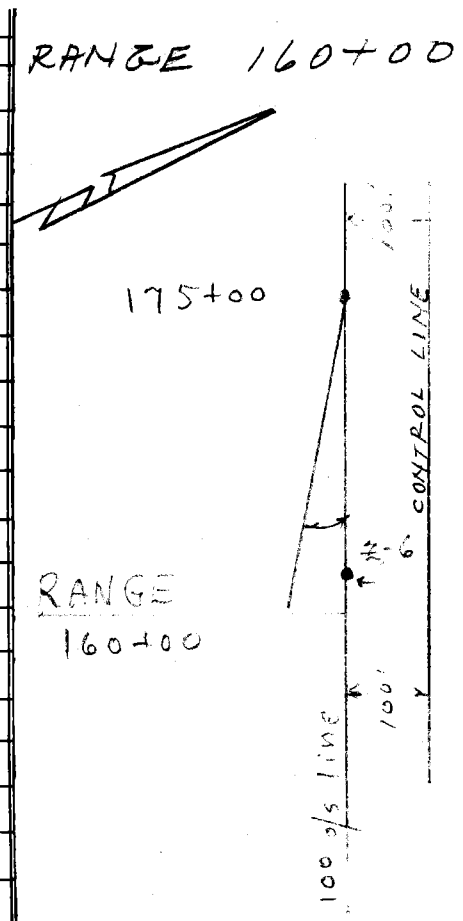
LOS ANGELES COUNTY SURVEYOR

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
175+00	Z 6	7:33	1	59	29			
			2	58	27			
			3	57	28			
			4	56	34			
			5	55	34			
			6	54	40			
			7	52	57			
			8	51	36			
			9	50	11			
			10	48	42			
			11	47	15			
			12	46	04			
			13	44	49			
			14	43	28			
			15	42	22			
			16	41	02			
			17	39	43			
			18	38	23			
			19	37	18			
			20	36	05			



Profile Notes Red. ____ Plotted ____ Job No. 030002 Division No. 11 F.B. 2822 Pg. 227

No. ____ Date ____ Date ____ Survey of ZUMA BEACH

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes B.N. Date 7/3/70

No. ____ Date ____ Date ____ Map No. ____ Indexed H.E. OD Date JUL 23 '70

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
175+00	Z-6		21	34	49			
			22	33	42			
			23	32	33			
			24	31	45			
			25	30	47			
			26	29	54			
			27	29	04			
			28	28	00			
			29	27	25			
			30	26	30			
			31	25	46			
			32	25	09			
			33	24	14			
			34	23	29			
			35	22	57			
			36	22	05			
			37	21	22			
			38	21	09			
			39	19	43			
		7:38	40	19	20			

RANGE 160+00 CONTINUED

Inst. at 175+00

F.B. 2822 Pg. 228 Job No. 030002 Division No. 11 Notes Red. Plotted Profile

Survey of ZUMA BEACH Date Date No.

Survey by RICHARDS Notes B.N. Notes Chkd. Checked X-Sec.

Indexed Date Date No.

76-L298 CE 307 3-61

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.	165+00 (100' Offset To Left)	
160+00				13 81	100' Lt. 1X2" Stk.	
165+00				12 27	100' Lt. 1X2 Stk	
				13 2		14' Rt Bot. Brk.
				15 3		27' Rt. Top Brk
				18 9		37.5 " " "
				16 1		57' " Brk
				11 9		69.5 Bot. Brk.
				11 8		100' Rt. (Control Line
				12 6		130' Rt. Sand
				12 9	103' Lt. Top Brk.	
	1 99	8 52		6 53	135' Lt. 1X2" Stk.	
			39	46	146 FT LEFT MHW	
					✱ OCCUPY 160+00	SIGHT AHEAD.
			67	18	1 18° 29'	
			80	05	2 20 40	
			86	-01	3 23 23	
			94	-09	4 27 15	
			99	-14	5 30 05	
			115	-30	6 31 53	
			120	-35	7 35 39	
			130	-45	8 37 25	

CONT

DATUM
MEAN LOWER LOW WATER

Profile No. ___ Notes Red ___ Plotted ___ Job No. 0300 Division No. 11 F.B. 2877 Pg. 229
X-Sec. No. ___ Date ___ Date ___ Survey of Beach Erosion (Zuma Beach)
Notes Chkd. ___ Checked ___ Survey by ___ Notes ___ Date ___
Date ___ Date ___ Map No. ___ Indexed ___ Date ___

76-L298 CE 307 3-61

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.	165+00 (100' OFFSET TO LEFT)
					CONT.
		852			
			156	-71	9 40° 46'
			178	-93	10 43° 18'

DATUM
MEAN LOWER LOW WATER

F. B. 2822 PG. 230
Survey of Beach Erosion (Long Beach)
Survey by
Indexed
Profile No.
X-Sec. No.
Plotted Date
Checked Date
Notes Red Date
Notes Chkd. Date
Job No. 0300 02
Division No. 11
Notes DRIER
Date

Profile | Notes Red. | Plotted | Job No. 0300.02 | Division No. 11 | F. B. 2822 | Pg. 231
No. | Date | Date | Survey of ZUMA BEACH
X-Sec. | Notes Chkd. | Checked | Survey by RICHARDS | Notes B.H. | Date 7/3/70
No. | Date | Date | Map No. | Indexed H. E. CH | Date 23 '70

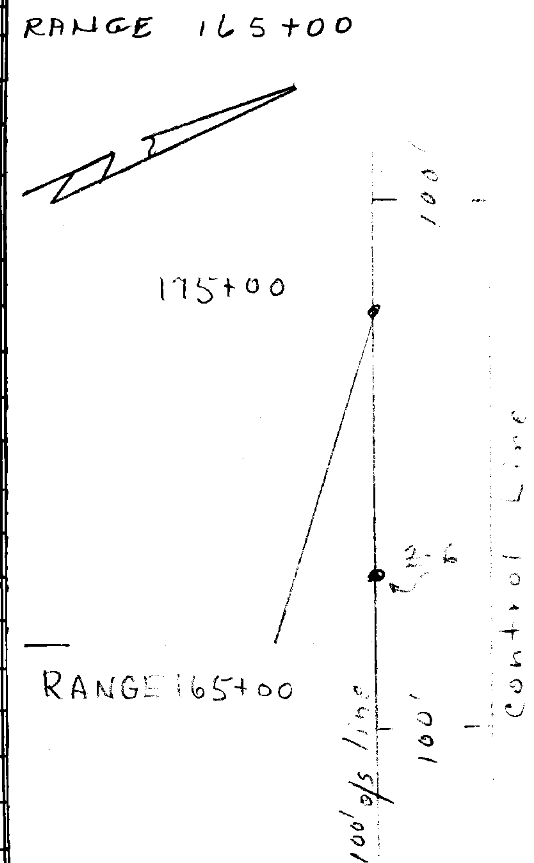
76L298 307 Cdb 12-62

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.

Inst. At	Sight On	Time	Angle Nº	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card Nº
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
175+00	26	7:45	1	71	59			
			2	71	20			
			3	70	44			
			4	69	56			
			5	69	02			
			6	68	10			
			7	67	12			
			8	66	02			
			9	65	50			
			10	64	20			
			11	63	24			
			12	62	38			
			13	61	32			
			14	60	34			
			15	59	31			
			16	58	38			
			17	57	36			
			18	56	18			
			19	55	12			
			20	54	00			



76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
175+00	Z-6		21	52	31			
			22	51	14			
			23	49	41			
			24	48	05			
			25	46	17			
			26	44	49			
			27	43	19			
			28	41	37			
			29	40	21			
			30	38	58			
			31	37	46			
			32	36	52			
			33	35	29			
			34	34	14			
			35	33	03			
			36	31	30			
			37	30	16			
			38	28	58			
			39	27	48			
			40	26	17			
		7:51	41	24	40			

RANGE 165+00
CONTINUED
Inst. at 175+00

Profile

Plotted ____ Date ____ No. ____

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

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

Division No. 11 Job No. 0300.02

Pg. 232

Survey of ZUMA BEACH

Survey by RICHARDS Notes B.N.

Indexed ____ Date ____

5-8-22

76-L298 CE 307 3-61

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.	170+00 (100' Offset To Left)			
165+00				12 27	100' Lt. 1"x2" Stk.			
170+00				12 09	100' Lt. 1"x2" Stk.			
				13 5				100' Rt. Sand Control Line
				14 1				130' Rt. Sand
				12 9	85' Lt. Top Brk.			
	1 73	842°		6 69	116' Lt. 1"x2" Stk. TP			
					↑ OCCUPY 160+00			SIGHT AHEAD
			161	-77°	1	25°	34	
			154	-70°	2	24	25	
			134	-50°	3	22	52	
			121	-37°	4	21	06	
			115	-31°	5	20	00	
			105	-21°	6	18	45	
			99	-15°	7	17	09	
			92	-08°	8	15	00	
			83	01°	9	13	05	
			72	12°	10	11	26	
			51	33°	11	10	13	
			38	46°	128 FT LEFT M.H.W			

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 0300 Division No. 11 Survey of Beach Erosion (Zuma Beach) Survey by Myers & Notes Dreier Date 7-3-70 Map No. ____ Indexed H. E. Ott Date [illegible]

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

F.B. 2822 Pg. 233

F.B. 2822 PG. 234 Job No. 0300 02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion (Zuma Beach) Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76-L298 CE 307 3-61

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.	
					170+00 (100' offset to Left)

DATUM

MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

PLEASE RETURN TO

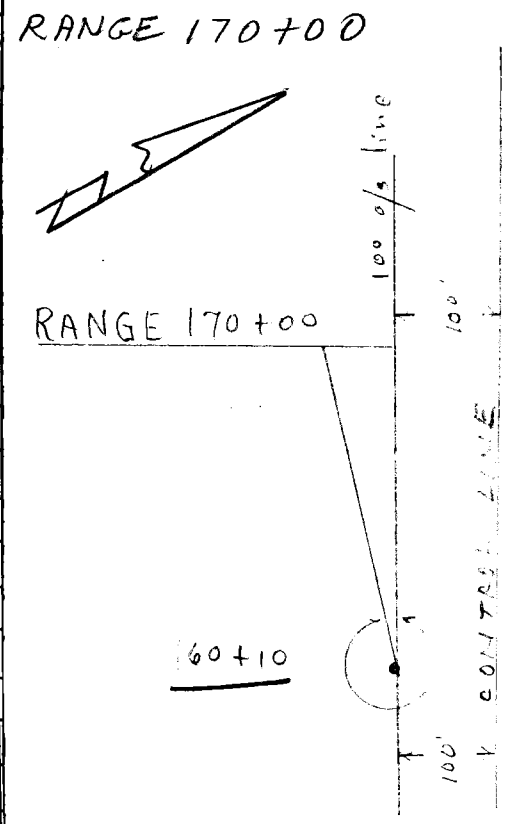
LOS ANGELES COUNTY SURVEYOR

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
160+10	Z6	8.08	1	289	57			
			2	290	51			
			3	291	56			
			4	293	05			
			5	294	17			
			6	295	24			
			7	296	20			
			8	297	20			
			9	298	38			
			10	299	35			
			11	300	48			
			12	302	06			
			13	303	35			
			14	305	10			
			15	306	50			
			16	308	40			
			17	310	08			
			18	311	38			
			19	312	54			
			20	314	21			



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2822 Pg. 235

No. ____ Date ____ Date ____ Survey of ZUMA BEACH

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes B.N. Date 7/3/70

No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OIT Date 8 23 70

76L298 307 Cdb 12-62

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.

Book 282 Pg. 236 Job No. 0300.02 Division No. 11

Survey of ZUMA BEACH

Survey by RICHARDS Notes B.N.

Indexed Date

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date Notes Chkd. Date

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
160+10	Z-6		21	315	56			
			22	317	21			
			23	318	51			
			24	320	01			
			25	321	16			
			26	322	11			
			27	323	31			
			28	324	28			
			29	325	28			
			30	326	37			
			31	327	38			
			32	328	38			
			33	330	01			
			34	331	15			
			35	332	32			
			36	334	05			
		8:13	37	334	51			

Range 170+00 CONTINUED

Inst. at 160+10

76-L298 CE 307 3-61

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.	175+00 (100' offset To Left)	
170+00				1209	100' Lt. 1x2 Stk	From last Pg.
175+00				1206	100' Lt. 1"x2" Stk	
				116		100' Rt. Sand (Contact Line)
				132		175' Rt.
				129	38' Lt. Top Bk	
	122	885		763	61' Lt. 1x2" Stk. T.P.	
					⊼ OCCUPY 170+00	SIGHT ON 175+00
			42	46	80 FT LEFT M.H.W.	
			55	33	#1 10° 03'	
			70	18	2 11 48	
			81	07	3 14 33	
			90	-02	4 17 47	
			99	-11	5 20 39	
			122	-34	6 26 54	
			139	-51	7 30 40	
			161	-73	8 34 03	
			175	-87	9 35 33	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300 Division No. 11 F.B. 2822 Pg. 237
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion (Zuma Beach)
Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date ____
Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F.B. 2822 PG. 238 | Job No. 0300 02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion (Zuma Beach) Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

STATION	B.S.	H.I.	F.S.	ELEV.
				175+00 (100' OFFSET TO LEFT)

DATUM
MEAN LOWER LOW WATER

Do not extend notes this side of this line.

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

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

76-L298 CE 307 3-61

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

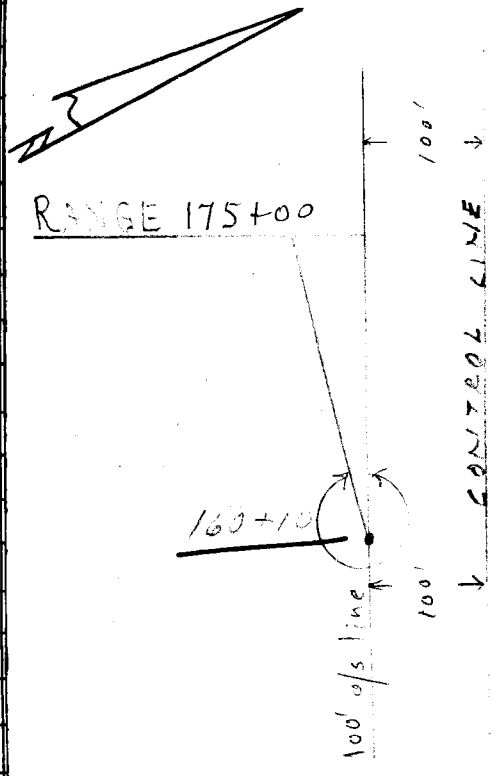
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
160+10	Z-6	8:20	1	302	18			
			2	303	25			
			3	304	45			
			4	306	09			
			5	307	04			
			6	308	15			
			7	309	27			
			8	310	39			
			9	312	01			
			10	313	09			
			11	314	24			
			12	315	24			
			13	316	36			
			14	317	43			
			15	318	54			
			16	320	05			
			17	321	01			
			18	322	13			
			19	323	05			
			20	324	03			

RANGE 175+00



Profile

No. Notes Red. Plotted Job No. 030002 Division No. 11 F.B. 222 Pg. 239

X-Sec. Date Date Survey of ZUMA BEACH Date 7/3/70

No. Notes Chkd. Checked Survey by RICHARDS Notes BN Date

No. Date Date Map No. Indexed Date

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
160+10	Z-6		21	325	16			
			22	326	11			
			23	327	16			
			24	328	16			
			25	329	05			
			26	330	03			
			27	330	55			
			28	331	41			
			29	332	32			
			30	333	14			
			31	333	42			
			32	334	40			
			33	335	21			
			34	336	17			
			35	337	21			
			36	338	04			
			37	338	52			
			38	339	23			
			39	340	19			
			40	341	13			
		8:25	41	341	48			

RANGE 175+00
CONTINUED

F.B. 2822 Pg 240 Job No. 0300,02 Division No. 11 Notes Red. Date Plotted Date No. Profile
Survey of ZUMA BEACH Notes Chkd. Date Checked Date No. X-Sec.
Survey by RICHARDS Notes B.N. Date
Indexed

76-L298 CE 307 3-61

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.	180+00 (100' offset To left)	
175+00				12 06	100' Lt. 1x2" Stk.	From last pg.
T.B.M. #12				13 85	T.B.M. #12 EL = 13.87, F.B. 3790-15	
180+00				12 66	100' Lt. 1x2" Stk.	
				13 5		109' Rt. Bot. Sand Dune
				18 4		122' Rt. Top " "
				12 3		150' Rt. Bot " "
				11 6		200' Rt Sand
				13 0	9' Lt. Top Bnk	
	0 36	7 64		7 28	31' Lt. 1x2" Stk. T.P.	
					↑ occupy 170+00	SIGHT ON 175+00
			140	-64°	#1 16° 29'	
			151	-75°	2 17 46	
			171	-95°	3 19 09	
			130	-54°	4 15 25	
			110	-34°	5 13 20	
			93	-17°	6 10 25	
			85	-09°	7 8 39	
			79	-03°	8 7 11	
			68	08°	9 5 25	
			59	17	10 4° 21'	
			30	46°	48 FT. LEFT M.H.W.	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ X-Sec. No. ____ Notes Red. ____ Date ____ Notes Chkd. ____ Date ____ Plotted ____ Date ____ Checked ____ Date ____ Job No. 0300 Division No. 11 Survey of BOUNDARY SECTION (ZONE 3 BOND) Survey by ____ Notes ____ Date 7/13/70 Map No. ____ Indexed H. E. OTT Date 8 23 70 F.B. 2877 Pg. 241

F.B. 2822 Pg. 242 Job No. 0300 02 Division No. 11 Notes Red ____ Plotted ____ Profile

Survey of Beach Erosion (Zuma Beach) Date ____ Date ____ No. ____

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

Indexed ____ Date ____ Date ____ Date ____ No. ____

76-L298 CE 307 3-61

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.	
					180+00 (100' offset to left)

DATUM

~~MEAN LOWER LOW WATER~~

76L298 307 Cdb 12-62

PLEASE RETURN TO

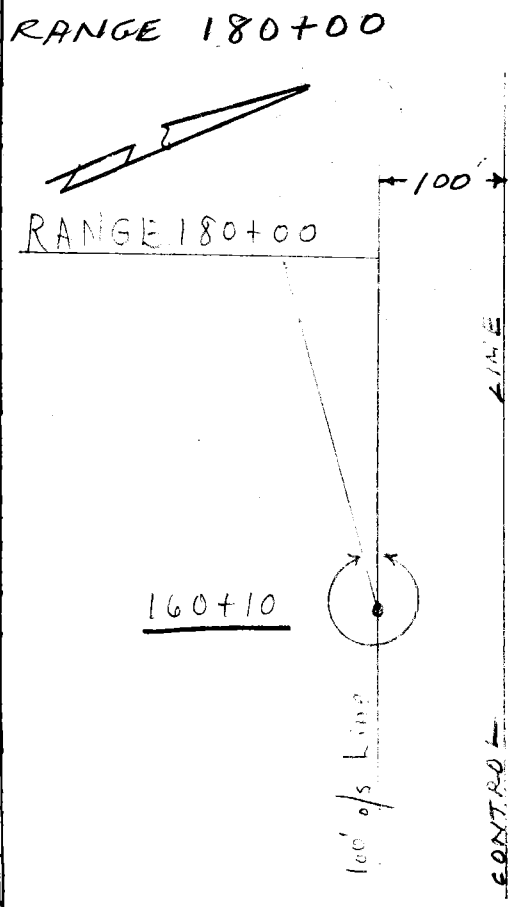
LOS ANGELES COUNTY SURVEYOR

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE MIN.	LINE	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH						
160+10	Z-6	8:34	1	308	33				
			2	309	22				
			3	310	15				
			4	311	20				
			5	312	22				
			6	313	22				
			7	314	27				
			8	315	37				
			9	316	28				
			10	317	22				
			11	318	27				
			12	319	22				
			13	320	11				
			14	321	06				
			15	322	07				
			16	323	04				
			17	324	15				
			18	325	18				
			19	326	37				
			20	327	19				



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 030002 Division No. 11 F.B. 227 Pg. 243

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

Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by RICHARDS Notes B.N. Date 7/3/70

Map No. ____ Date ____ Indexed M. E. OTT Date 8-23-70

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
160+10	Z 6		21	328	23			
			22	329	07			
			23	330	17			
			24	331	15			
			25	332	04			
			26	333	06			
			27	333	57			
			28	334	44			
			29	335	27			
			30	336	12			
			31	336	43			
			32	337	30			
			33	338	01			
			34	338	45			
			35	339	22			
			36	339	58			
			37	340	36			
			38	341	13			
			39	342	00			
			40	342	49			

RANGE 180+00
CONTINUED

F.B. 2822 PG. 244 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile
Survey of ZUMA BEACH Date Date No.
Survey by RICHARDS Notes B.N. Notes Chkd. Checked X-Sec.
Indexed Date Date No.

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
160+10	Z-6		41	343	27			
			42	344	12			
			43	345	04			
			44	345	48			
			45	346	17			
		8:40	46	346	55			

RANGE 180+00
CONTINUED

Inst. at 160+10

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2822 Pg. 245

No. ____ Date ____ Date ____ Survey of ZUMA BEACH

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes D.L.W. Date 7/3/70

No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 70

F.B. 2822 PG. 246 | Job No. 0300,02 Division No. 11 Notes Red. ______ Plotted ______ Profile No. ______

Survey of ZUMA BEACH ______ Date ______ Date ______

Survey by RICHARDS Notes D.L.W. ______ Notes Chkd. ______ Checked ______ X-Sec.

Indexed ______ Date ______ Date ______ Date ______ No. ______

Inst. At (Don't Punch)	Sight On (Don't Punch)	Time (Don't Punch)	Angle No (Don't Punch)	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	For Office Use Only: Range Line Min.	For Office Use Only: Card No

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 907 Cdb 12-62

76-L298 CE 307 3-61

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.	185+00 (100' Offset To Left)	
180+00				12 66	100' Lt. 1"x2" Stk. From Last Fig.	
185+00				11 85	100' Lt. 1"x2" Stk. T.P.	
				13 1		1° Rt. Top Brk.
				13 2		100' Rt. B[illegible]
				16 2		121' Rt. Top Sand [illegible]
				14 3		133' Rt Bot "
		4		14 1		200' Rt. Sand
	1 01	9 38		8 37	13' Lt. 1"x2" Stk. T.P.	↑ ON 180+00 SIGHT ON 185+00
			48	46	38 FT LEFT M.H.W.	
			60	34	1 6° 10'	
			80	14	2 8 20	
			87	07	3 11 37	
			99	05	4 11 56	
			103	-09	5 12 05	
			109	-15	6 13 57	
			120	-26	7 22 48	
			140	-46	8 27 05	
			150	-56	9 29 26	
			169	-75	10 32 12	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300 Division No. 11 F.B. 2822 Pg. 247
No. ____ Date ____ Date ____ Survey of Beach Erosion (Zuma Beach)
X-Sec. Notes Chkd. ____ Checked ____ Survey by Myers & Dreier Notes Date 7/31/70
No. ____ Date ____ Date ____ Map No. ____ Indexed M. E. Ott Date 7 23 70

F.B. 2822 PG. 248 | Job No. 0308 2 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion (Zuma Beach) Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

STATION	B.S.	H.I.	F.S.	ELEV.
				185400 (100' offset to left)

DATUM
MEAN LOWER LOW WATER

Do not extend notes this side of this line.

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

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

76-L298 CE 307 3-61

76L298 307 Cdb 12-62

PLEASE RETURN TO

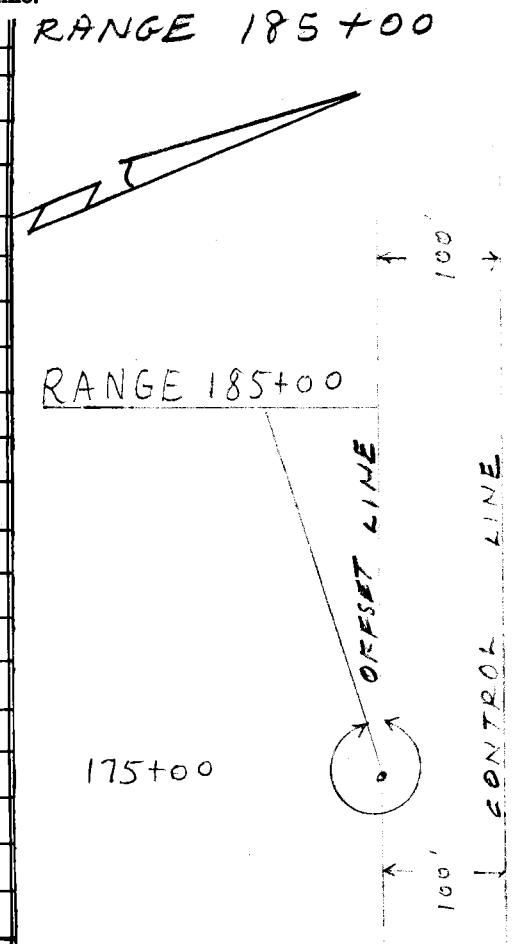
LOS ANGELES COUNTY SURVEYOR

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
175+00	Z-7	8:59	1	296	42			
			2	297	22			
			3	297	47			
			4	298	31			
			5	299	23			
			6	300	26			
			7	301	15			
			8	302	50			
			9	304	07			
			10	305	09			
			11	306	42			
			12	308	13			
			13	309	05			
			14	310	05			
			15	311	02			
			16	312	14			
			17	313	19			
			18	314	15			
			19	315	40			
			20	316	51			



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 030002 Division No. 11 F.B. 2822 Pg. 249

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

Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes D.L.W. Date 7/3/70

Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date 7/23/70

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
175+00	Z-7		21	318	28			
			22	319	30			
			23	320	37			
			24	321	53			
			25	323	08			
			26	324	23			
			27	325	16			
			28	326	40			
			29	327	20			
			30	328	59			
			31	330	33			
			32	332	18			
			33	333	23			
			34	334	40			
			35	335	52			
			36	337	06			
			37	338	15			
			38	339	26			
			39	340	15			
			40	341	26			

RANGE 185+00 CONTINUED

F.B. 2822 PG. 250 Job No. 030002 Division No. 11 Notes Red. Date Plotted Date No. Profile

Survey of ZUMA BEACH Notes Chkd. Date Checked Date X-Sec. No.

Survey by RICHARDS Notes D.L.W. Date

Indexed Date

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
175+00	Z-7		41	342	48			
			42	343	49			
			43	344	42			
		9:04	44	346	08			

RANGE 185+00
CONTINUED
Inst. at 175+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2822 Pg. 251
No. ____ Date ____ Date ____ Survey of ZUMA BEACH
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes D.L.W. Date 7/3/70
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F.B. 2822 PG. 252 Job No. 0300.02 Division No. 11 Notes Red. ______ Plotted ______ Profile

Survey of ZUMA BEACH Date ______ Date ______ No. ______

Survey by RICHARDS Notes D. L. W. Notes Chkd. ______ Checked ______ X-Sec.

Indexed ______ Date ______ Date ______ Date ______ No. ______

Inst. At (Don't Punch)	Sight On (Don't Punch)	Time (Don't Punch)	Angle No. (Don't Punch)	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	For Office Use Only: Range Line Min.	For Office Use Only: Card No.

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 Cdb 12-62

76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.	190+00 (100' offset To Left)	
185+00				11 85	100' Lt. 1"x2" Stk	
190+00				12 51	100' Lt. 1"x2" Stk. T.P.	
				14 3		94' Rt. Bot. Brk
				16 9		101' Rt. Top "
				13 6		120' Rt Bot. Br
				15 4		200' Rt Grd.
				13 0	13' Lt. Top Brk.	
	1 37	9 06		7 69	31 Lt. 1"x2" Stk. T.P.	
		4 6			180	185
		5	167	-7 6	1 13° 10' ?	18 10' ? ? ? ? ? ? ?
			157	-6 6	2 12 05 ?	17 05' ?
			138	-4 7	3 15 35	
			123	-3 2	4 13 29	
			114	-2 3	5 12 05	
			106	-1 5	6 11 00	
			90	0 1	7 8 14	
			80	1 1	8 6 20	
			69	2 2	9 4 40	
			45	4 6	56 FT LEFT M.H.W.	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300 Division No. 11 F. B. 28 22 Pg. 253
No. ____ Date ____ Date ____ Survey of Beach Erosion (Zuma Beach)
X-Sec. Notes Chk'd. ____ Checked ____ Survey by Myers & Notes Preier Date 7/3/70
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F. B. 2822 PG. 254

Job No. 0300 02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion (Zuma Beach) Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

76-L-298 CE 307 5-66

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.	
					190+00 (100' offset to left)

DATUM
MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

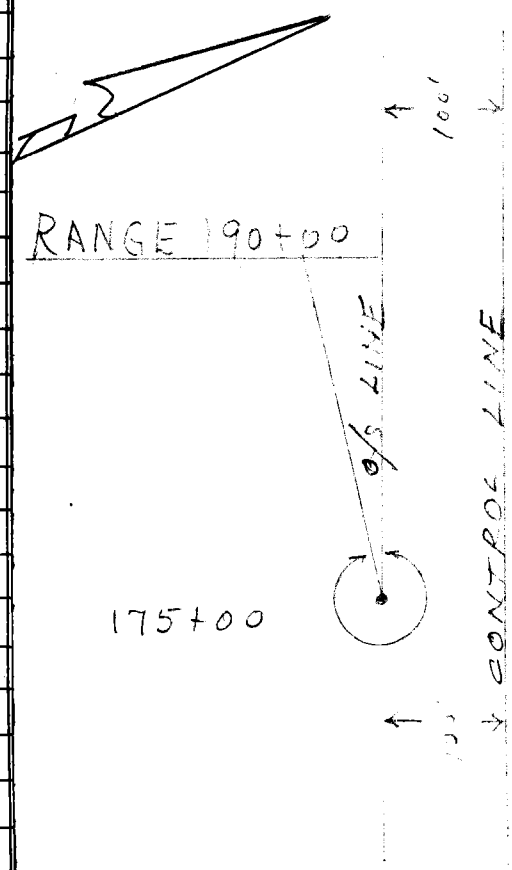
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

RANGE 190+00

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
175+00	Z-7	9:14	1	304	20			
			2	304	55			
			3	305	24			
			4	306	05			
			5	306	42			
			6	307	40			
			7	308	19			
			8	309	11			
			9	310	03			
			10	310	50			
			11	311	41			
			12	312	30			
			13	313	15			
			14	314	07			
			15	315	01			
			16	315	47			
			17	316	55			
			18	317	43			
			19	318	35			
			20	319	50			



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 030002 Division No. 11 F.B. 2822 Pg. 255
X-Sec. No. ____ Date ____ Date ____ Survey of ZUMA BEACH
Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes D.L.W. Date 7/3/70
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

76L298 307 Cdb 12-62

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.

RANGE 190+00 CONTINUED

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
175+00	Z-7		21	320	47			
			22	321	55			
			23	322	55			
			24	323	47			
			25	324	45			
			26	325	50			
			27	327	03			
			28	328	07			
			29	329	35			
			30	330	25			
			31	331	38			
			32	332	20			
			33	333	33			
			34	334	03			
			35	335	08			
			36	336	18			
			37	337	22			
			38	338	09			
			39	339	11			
			40	340	05			

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

Plotted ____ Date ____ Checked ____ Date ____

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

Division No. 11 Job No. 0300,02 Notes D L W.

Survey of ZUMA BEACH

Survey by RICHARDS

Indexed ____

5822 PG 256

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
175+00	Z-7		41	340	56			
			42	341	46			
			43	342	54			
			44	343	50			
			45	344	56			
			46	346	09			
			47	347	04			
			48	348	10			
			49	349	07			
		9:20	50	350	11			

RANGE 190+00
CONTINUED

Inst at 175+00

Profile Notes Red. ____ Plotted ____ Job No. 030002 Division No. 11 F.B. 2822 Pg. 257

No. ____ Date ____ Date ____ Survey of ZUMA BEACH

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes DLW Date 7/3/70

No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date 7-23-70

F. B. 2822 PG. 258 | 030002 Job No. Division No. 4 Notes Red. Plotted Profile

Survey of ZUMA BEACH Date Date No.

Survey by RICHARDS Notes D.L.W. Notes Chkd. Checked X-Sec.

Indexed Date: Date Date No.

- Inst. At — Don't Punch
- Sight On — Don't Punch
- Time — Don't Punch
- Angle No. — Don't Punch
- Hor. Angle — Deg. / Min.
- For Office Use Only — Range Line — Deg. / Min. — Card No.

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 Cdb 12-62

76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.	192+00 (100' Offset To Left)
190+00				125	100' Lt. 1"x2" Stk.
192+00				120.6	100' Lt. 1"x2" Stk.
				121	59' Rt. Bot. Brk.
				136	73' Rt. Top Brk.
				129	100' Rt. (Control Line
				131	125' Rt. Sand
T.B.M. #13				1350	T.B.M. #13 El.=1352 F.B. 3970-153
				128	29' Lt. Top Brk.
	094	6 8.58		1.64	49' Lt. 1"x2" Stk. T.P.
			22	64	57" SMALL BRK
			26	60	63" " "
			40	46	74 FT. LEFT M.H.W. AT 185+00 SIGHT ON (ON OFFSET) 192+00
			63	23	1 8° 04'
			72	14	2 10 07
			79	07	3 11 42
			85	01	4 13 20
			91	-05	5 14 52
			100	-14	6 17 25
			106	-20	7 20 04
			130	-44	8 23 35
			154	-68	9 27 00
			174	-88	10 28 50

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 2300 Division No. ____
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date [illegible]
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F. B. [illegible] PG. 259

F. B. 7822 PG. 260 Job No. 0300 02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion (Zuma Beach) Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

76-L-298 CE 307 5-66

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE 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.
				192+00 (100' offset To Left)

DATUM

MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

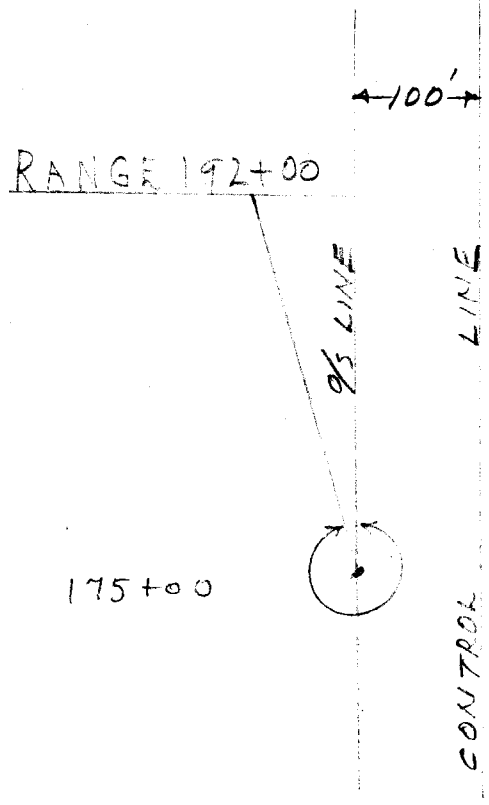
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
175+00	Z-7	9:24	1	309	00			
			2	309	50			
			3	310	45			
			4	311	41			
			5	312	46			
			6	313	35			
			7	314	17			
			8	315	09			
			9	316	05			
			10	316	54			
			11	317	41			
			12	318	37			
			13	319	26			
			14	320	20			
			15	321	00			
			16	321	54			
			17	322	46			
			18	323	40			
			19	324	31			
			20	325	13			

RANGE 192+00



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 030002 Division No. 11 F.B. 8822 Pg. 261
Date ____ Date ____ Survey of ZUMA BEACH
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes D.L.W. Date 7/3/70
Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date 7/23/70

76L298 307 Cdb 12-62

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.

RANGE 192+00 CONTINUED

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
175+00	Z-7		21	326	06			
			22	327	01			
			23	328	07			
			24	328	54			
			25	329	47			
			26	330	45			
			27	331	46			
			28	332	52			
			29	333	45			
			30	334	28			
			31	335	28			
			32	336	15			
			33	337	19			
			34	338	14			
			35	339	20			
			36	340	16			
			37	341	00			
			38	341	44			
			39	342	36			

F.B. 2822 Pg 262 Job No. 0300,02 Division No. 11 Notes Red. Plotted Profile
Survey of ZUMA BEACH Date Date No.
Survey by RICHARDS Notes D.L.W. Notes Chkd. Checked X-Sec.
Indexed Date Date No.

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
175+00	Z-7		40	343	40			
			41	344	29			
			42	345	27			
			43	346	19			
			44	347	15			
			45	347	46			
			46	349	03			
			47	349	30			
			48	350	33			
		9:31	49	351	10			

RANGE 192+00
CONTINUED
Inst. at 175+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2822 Pg. 263
No. ____ Date ____ Date ____ Survey of ZUMA BEACH
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes D L W Date 7/3/70
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JL 23 70

F.B. 2822 PG. 264 | Job No. | Division No. | Notes Red. | Plotted | Profile

Survey of | Date | Date | No.

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

Indexed | Date | Date | Date

BOOK CLOSED

CONTINUED IN FB. 2823