Notes Ck'd by	Survey of HYDROGRAPHIC SURVEYS	F. B. 2498 PG. 5
Office Work	JN 0300.02 Tape — Std — °F	
	Surveyed by W. A. RICHARDS	
	Notes W. A. R. Date 3-77	
	Indexed	

J. N. 0300.02
HYDROGRAPHIC SURVEY

FROM PLAYA DEL REY AREA
TO REDONDO BEACH (KING HARBOR)

HOR. CONTROL REF: C.S.B. 1726 DIV. # 2, 3, & 4

VERTICAL DATUM: M. L. L. W.

TIME REF: PACIFIC STANDARD TIME

TIDE GAGE: TIDAL 8, L. A. OUTER HARBOR

RICHARDS	BAZEN	ENGLISH	DREIER	BROOKS
MOODY	SHOEMAKER	CARO	GOBLE	BANKSON
TURRILL	PETERSON	STROUD	SIEMAN	KROHN
BUSTRUM	JACKSON	BRADLEY		CROWDER

+ LIFEGUARDS FOR SWIMMERS

Microfilmed July '85

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76E309S CE 8310 3-68

F. B. 2498 PG. 6

AREA INDEX MAP
(NO SCALE)
CONTINUED FROM FB. 2807 PG. 262

S-4
= 86+10.84 S.

RANGE 87+50 S.

3-24-77
PG. & 7-20, INC.

RANGE 97+50 S.

S-5
= 100+45.12 S.

RANGE 102+50 S.

3-28-77
PG. & 21-54, INC.

S-6
= 129+41.58 S.

S-7
= 129+41.58 S.

RANGE 137+50 S.

RANGE 142+50 S.

3-29-77
PG. & 55-78, INC.

LINE #10

RANGE 165+00 S.

S-8
= 165+00.00 S.

RANGE 170+00 S.

3-31-77
PG. & 79-112, INC.

S-9
= 180+00.00 S.

S-10
= 191+50.00 S.

RANGE 205+00 S.

RANGE 210+00 S.

4-1-77
PG. & 113 TO 126, INC.

CONT'D 1726

RANGE 220+00 S.

RANGE 225+00 S.

4-4-77
PG. & 127-156, INC.

S-11
= 231+00.00 S.

BEACH C.S.B.

RANGE 253+10 S.

LAST RANGE FOR THIS SURVEY

S-12
= 253+65.14 S.

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76-1-298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.	8:00 A.M.	3-24-77
					M.L.L.W.	Inshore
		19 63				87+50 -S.
T.P.	778	21 12	629	13 34	1x2	Control Line.
87+50-S			— —	— —	Bike Path, Painted "x".	
			09	202	54.0R. toe bk.	Sand
			44	167	103.0R. "	"
			68	143	256.0R. top "	"
			122	89	302.0R.	"
	-1.5	10.2	94	117	302.0R. top 1x2	
			55	47	330 OR High tide	353'
			80	22	#1 33° 56'	Inst @ 82+50 Target @ S-4
			98	04	#2 35° 26'	374
			130	-28	#3 36° 11'	384
			128	-26	#4 38° 51'	424
			132	-30	#5 40° 08'	444
			138	-36	#6 41° 49'	472
			125	-23	#7 44° 14'	515
			128	-26	#8 45° 32'	540
			138	-36	#9 48° 53'	610
			150	-48	#10 50° 40'	652
			152	-50	#11 52° 02'	686

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2498 Pg. 7
X-Sec. No. ____ Date ____ Date ____ Survey of Hydrosurvey
Notes Chkd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date 3-24-77
No. ____ Date ____ Date ____ Map No. 1 Indexed ____ Date ____

76L298 307 Cdb 12-62

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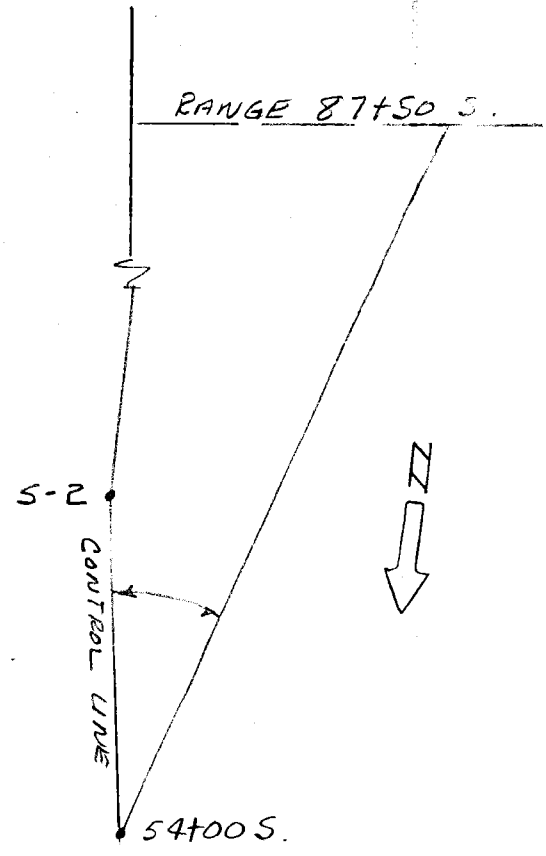
INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	FOR OFFICE USE ONLY LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
54+00S	S-2	8:33	1	53	46			
			2	53	10			
			3	52	19			
			4	51	47			
			5	51	00			
			6	50	07			
			7	48	51			
			8	47	41			
			9	46	43			
			10	44	56			
			11	43	47			
			12	42	27			
			13	41	14			
			14	39	41			
			15	38	00			
			16	34	59			
			17	33	19			
			18	30	48			
			19	29	08			
			20	27	26			



Profile Notes Red. Plotted Job No. 0300.02 Division No. 11 F. B. 2498 Pg. 9

No. Date Date Survey of BEACH EROSION PLAYA DEL REY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes Date 3-24-77

No. Date Date Map No. Indexed Date

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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					
54+00 S	S-2		21	25	29			
			22	23	49			
			23	22	05			
			24	20	37			
			25	19	17			
			26	17	49			
			27	16	41			
			28	15	58			
			29	15	06			
		9:41	30	14	00			

F. B. 2498 PG. 10

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

Survey of BEACH EROSION PLAYA DEL REY Date Date No.

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

Indexed Date Date Date No.

76-L298 CE 307 3-61

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	8:15 A.M.	3-24-77
					M.L.L.W.	Inshore
		21 12				92+50 -S.
T.P.	570	20 75	607	1505	1×2	Control Line.
92+50-S					Bath Path, Painted "X."	
			19	189	62.0 R. toe bk.	Sand.
			50	158	175.0 R.	"
			56	152	245.0 R. top brk	"
			127	81	310.0 R.	"
	-1.3	9 7	98	110	310.0 R. top 1×2	
			5 0	4.7	339 OR High tide	
					? level	
			18.7	-9 0	#1 36° 19' 789'	Inst @ 82+50 Target @ S-4
			15.6	-5 9	#2 32° 42'	690'
			13 5	-3 8	#3 29° 43'	614
			12 0	-2 3	#4 26° 47'	545
			11 2	-1 5	#5 24° 43'	499
			12 0	-2 3	#6 22° 35'	452
			11 5	-1 8	#7 20° 50'	416
			10 2	-0 5	#8 19° 44'	393
			8 8	0 9	#9 18° 57'	377
			6 0	3 7	#10 17° 30'	348

Profile Notes Red ____ Plotted ____ Job No. 030002 Division No. ____ F.B. 2498 Pg. 11
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes [illegible] Date 3-24-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 Cdb 12-62

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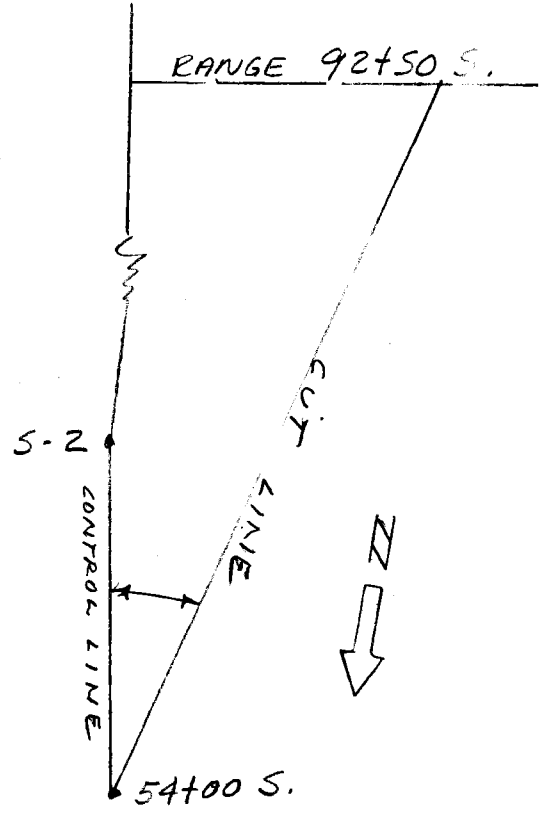
INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
54+00 S	S-2	8:57	1	49	07			
			2	48	05			
			3	47	27			
			4	46	39			
			5	45	33			
			6	44	29			
			7	43	29			
			8	42	18			
			9	40	59			
			10	39	41			
			11	38	26			
			12	37	17			
			13	36	18			
			14	34	51			
			15	33	27			
			16	32	07			
			17	30	15			
			18	28	41			
			19	27	11			
			20	25	34			



RANGE LINE 92+50 S.

Profile Notes Red. Plotted Job No. 030002 Division No. 11 F.B. 2498 Pg. 13
No. Date Date Survey of BEACH EROSION - PLAYA DEL RES
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes Date 3-24-77
No. Date Date Map No. Indexed Date

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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					
54+00 S	S-2		21	23	57			
			22	22	14			
			23	20	48			
			24	19	25			
			25	17	49			
			26	16	36			
			27	15	10			
			28	14	03			
			29	12	50			
			30	12	06			
		9:05	31	10	50			

F. B. 2498 PG. 14 Job No. 03000,02 Division No. 11 Notes Red. Plotted Profile

Survey of BEACH EROSION - PLAYA DEL REY Date Date No.

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

Indexed Date Date Date No.

76-1-298 CE 307 3-61

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	8:45 A.M.	3-24-77
		2075			M.L.L.W.	Inshore
T.P.	413	2016	472	16 03	1x2	97+50 -S.
T.P.	450	2026	440	15 76	1x2	Control Line
97+50 S.			— —	— —	Bike Path, Painted "X"	
			18	185	63.0 R. toe bk. Sand	
			44	159	158.0 R.	"
			55	148	269.0 R. top brk	"
			134	69	313.0 R.	"
	-12	86	105	98	313.0 R. top 1x2	
			39	47	326 OR High tide	
			58	28	#1 34° 23' 342	Inst @ 92+50 Target @ 97+50
			77	09	#2 36° 04'	364
			94	-08	#3 37° 55'	389
			106	-20	#4 39° 59'	419
			126	-40	#5 42° 55'	465
			138	-52	#6 44° 58'	499
			143	-57	#7 47° 17'	542
			117	-31	#8 50° 19'	603
			128	-42	#9 53° 38'	679
			144	-58	#10 55° 32'	728
			161	-65	#11 56° 51'	766

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2498 PG. 15
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes Card Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

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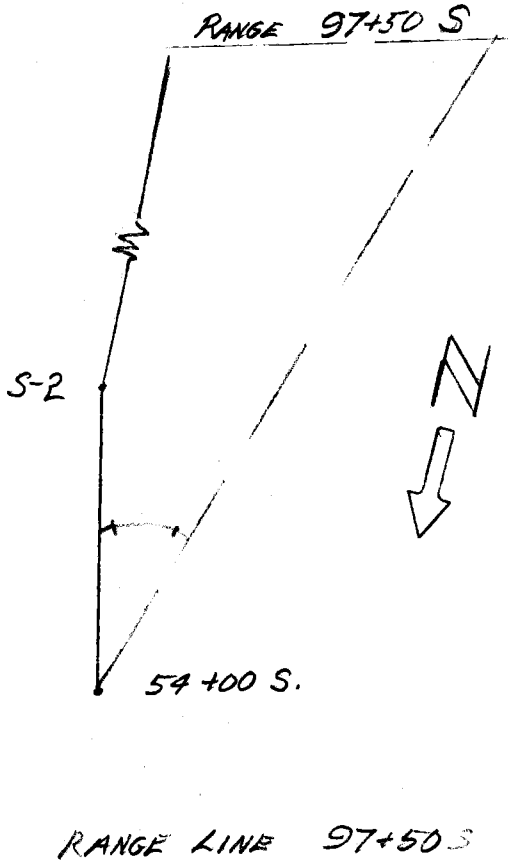
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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.	FOR OFFICE USE ONLY LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
54+00S	S-2	9:18	1	45	04			
			2	44	08			
			3	43	18			
			4	42	05			
			5	40	53			
			6	39	51			
			7	38	40			
			8	37	31			
			9	36	12			
			10	35	07			
			11	34	00			
			12	32	44			
			13	31	31			
			14	29	57			
			15	28	40			
			16	27	13			
			17	25	13			
			18	23	27			
			19	21	55			
			20	20	04			



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2498 Pg. 17

No. ____ Date ____ Date ____ Survey of BEACH EROSION-PLAYA DEL REY

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes ____ Date 3-24-77

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

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Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only		
						Range Line		Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch			Deg.	Min.	
54+00	S-2		21	18	14			
			22	16	43			
			23	15	28			
			24	14	16			
			25	13	12			
			26	12	20			
			27	11	16			
		9:26	28	10	22			

F. B. 2498 Pg. 18 Job No. 0300.02 Division No. 11 Notes Red. Plotted

Survey of BEACH EROSION - PLAYA DEL REY Date Date No.

Survey by RICHARDS Notes Chkd. Checked X-Sec.

Indexed Date Date Date Profile

PG S 19, 20 RESERVED
FOR TIDE GAGE READINGS

Readings
Turned in With
Marina Del Rey

76-1 298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.	7:30 A.M.	3-28-77
T.P.	1014	3216		2202	M.L.L.W.	Inshore
T.P.	437	3289	364	2852	1x2	102+50 - S.
T.P.	437	3291	435	2854	1x2	Control Line
T.P.	166	2982	475	2816		
102+50-S			300	2682	Bike Path, Painted "x".	
			320	2662	8.9 R. edge conc. B. P.	
			21	277	13.9 R. top	brk. sand
			30	268	19.9 R. top bk.	"
			93	205	45.0 R. toe "	"
T.P.	225	2072	1135	1847	1x2	"
			51	156	165.0 R.	"
			58	149	253.0 R	brk "
			139	68	321.0 R.	"
	-18	79	110	97	321.0 R. top 1x2	(5-5)
					CUT INST AT 97+50S, SIGHT ON 100+45 12	
			32	47	337.0 R mean High Tide	
			56	23	361.0 R	
			72	07	#1 35° 54'	377
			88	-09	#2 37° 12'	395
			98	-19	#3 37° 33'	400
			112	-33	#4 40° 02'	438

Profile No. ____ Date ____ Notes Red ____ Plotted ____ Job No. ____ Division No. ____ F.B. 2498 Pg. 21
X-Sec. No. ____ Date ____ Notes Chkd. ____ Checked ____ Survey of Hydrosurvey Survey by English Notes Caro Date 3-28-77
Map No. ____ Indexed ____ Date ____

76-L298 CR 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	LINE 102+50 Inst @ 97+50 Target @ ~~Xpt 3.5~~ 100+45.12		
		79	122	-43	#5	42° 49'	483
			130	-51	#6	45° 20'	529
			130	-51	#7	45° 59'	541
			130	-51	#8	47° 07'	563
			113	-34	#9	49° 08'	606
			118	-39	#10	51° 03'	650
			145	-66	#11	52° 19'	681
			158	-79	#12	54° 56'	752
			172	-93	#13	56° 37	803'

F.B. 2498 Pg. 22 Job No. 0300.02 Division No. ✓ Notes Red ____ Plotted ____ Profile ____
Survey of HYDRO-SURVEY Date ____ Date ____ No. ____ X-Sec. ____
Survey by ____ Notes ____ Notes Chkd. ____ Checked ____ No. ____
Indexed ____ Date ____ Date ____ Date ____

76L298 307 Cdb 12-62

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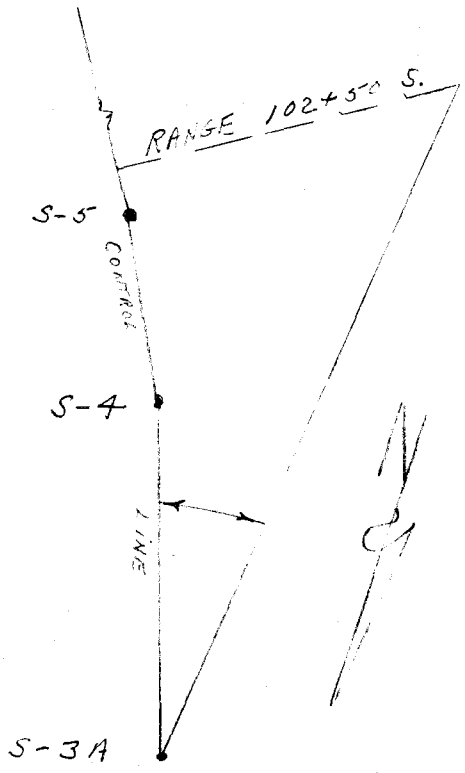
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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 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					
S-3A	S-4	8:17	1	53	38			
			2	53	06			
			3	52	23			
			4	51	45			
			5	51	02			
			6	50	25			
			7	49	47			
			8	49	11			
			9	48	18			
			10	47	43			
			11	46	49			
			12	46	02			
			13	45	15			
			14	44	18			
			15	43	13			
			16	42	11			
			17	41	10			
			18	40	08			
			19	38	44			
			20	37	19			



RANGE LINE 102+50 S.

Profile No.____ Date____ X-Sec. No.____ Date____

Notes Red____ Plotted____ Date____ Notes Chkd.____ Checked____ Date____

Job No. 0300.02 Division No. 11 Survey of [illegible] Survey by [illegible] Notes R.T. Date 2-8-17 Map No.____ Indexed____ Date____

F.B. 2498 PG. 23

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F. B. 2498 Pg. 24 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of BEACH EROSION PLAYA DEL REY Date Date No. X-Sec.

Survey by RICHARDS Notes Notes Chkd. Checked

Indexed Date 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					
S-3A	S-4		21	35	47			
			22	34	20			
			23	32	53			
			24	31	33			
			25	29	58			
			26	28	31			
			27	26	49			
			28	25	10			
			29	23	31			
			30	21	45			
			31	19	43			
			32	18	07			
			33	16	43			
			34	15	28			
			35	14	40			
		8:24	36	13	07			

76-L-298 CE 307 3-61

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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.	7:45 A.M.	3-28-77
					M.L.L.W.	Inshore
		2072				107+50 - S.
T.P.	385	1987	470	1602	1x2	Control line
107+50 - S.			— —	— —	Bike Path, Painted "x".	
			19	180	64.0 R. toe	bk. Sand
			40	159	139.0 R.	"
			52	147	258.0 R. top	brk. "
			82	117	233.0 R.	" "
			134	65	334.0 R.	"
	-1.5	72	112	87	334.0 R. top	1x2
			172	-100	#1 39° 44'	Cat. Inst. @ 97+50 875 Target @ XP13-5 100+45-12
			138	-66	#2 37° 22'	804
			128	-56	#3 36° 15'	772
			123	-51	#4 34° 28'	723
			133	-61	#5 32° 48'	680
			133	-61	#6 30° 16'	616
			125	-53	#7 27° 31'	551
			115	-43	#8 26° 07'	520
			98	-26	#9 24° 31'	485
			80	-06	#10 22° 52'	449
			64	08	#11 21° 00'	410

Profile Notes Red ____ Plotted ____ Job No. 03300.02 Division No. ____ F.B. 2498 Pg. 25
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. ____ Notes Chkd. ____ Checked ____ Survey by English Notes Loro Date 3-28
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 2498 Pg. 26 Job No. 030002 Division No. 11 Notes Red ____ Plotted ____ Profile

Survey of HYDRO-SURVEY Date ____ Date ____ No. ____

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

Indexed ____ Date ____ Date ____ Date ____ No. ____

76-L298 CE 307 3-61

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	
		72	55	17	LINE 107+50 Inst @ 97+50 Target @ 5-5 107+45.12
			25	47	#12 19.52' 389
					347 OR mean High tide

76L298 307 Cdb 12-62

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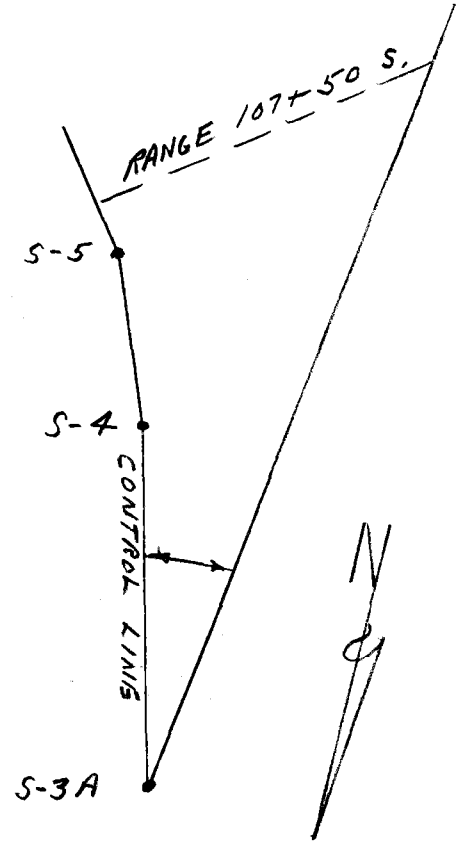
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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 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					
S-3A	S-4	8:39	1	48	49			
			2	47	41			
			3	47	06			
			4	46	16			
			5	45	34			
			6	44	54			
			7	44	18			
			8	43	27			
			9	42	29			
			10	41	23			
			11	40	38			
			12	39	53			
			13	39	07			
			14	38	25			
			15	37	17			
			16	36	09			
			17	35	05			
			18	34	03			
			19	32	35			
			20	31	11			



RANGE LINE 107+50 S.

Profile No.____ Date____ X-Sec. No.____ Date____

Notes Red.____ Plotted____ Date____ Notes Chkd.____ Checked____ Date____

Job No. 63002 Division No. 11 Survey of RANCH ESTATES PALMDALE REV Survey by RICHARDS Notes R.T. Date 3-28-74 Map No.____ Indexed____ Date____

F. B. 2498 Pg. 27

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.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
S-3A	S-4		21	29	55			
			22	28	37			
			23	26	58			
			24	25	25			
			25	23	52			
			26	22	12			
			27	20	41			
			28	19	08			
			29	17	38			
			30	15	58			
			31	14	47			
			32	13	29			
			33	12	37			
		8:47	34	11	48			

F. B. 2498 PG. 28

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

Survey of BEACH EROSION PLAYA DEL REY Date Date No.

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

Indexed Date Date No.

76-1-298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.	8:00 A.M.	3-28-77
					M.L.L.W.	Inshore
		1987				112+50 -S.
T.P.	018	1583	422	1565	1x2	Control Line
112+50-S.			— —	— —	Bike Path, Painted "x".	
	+ rod		+43	201	59.0 R. toe ok.	Sand
			04	154	147.0 R.	"
			10	148	262.0 R. top brk	"
			21	137	273.0 R.	" "
			103	55	3520 R.	"
	-1.2	67	79	79	352.0 R. top 1x2	
			20	47	360 OR moon High tide.	
			47	20	390 OR	
			65	02	#1 39°53'	Cat. Inst @ 418/107+50 Target @ 112+50
			76	-09	#2 41°17'	439
			79	-12	#3 42°48'	463
			85	-18	#4 44°29'	491
			80	-13	#5 46°13'	522
			86	-19	#6 48°01'	556
			90	-23	#7 48°51'	572
			97	-30	#8 50°34'	608
			103	-36	#9 51°39'	632

Profile No. ____ Notes Red ____ Plotted ____ Job No. 03000.02 Division No. ____ F.B. 2998 Pg. 29
X-Sec. No. ____ Date ____ Date ____ Survey of Hydrosurvey
Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by English Notes Carb Date 3-28-77
Map No. ____ Indexed ____ Date ____

76-1 [illegible] CE 307 3-61

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	LINE 112+50		Inst @ 107+50 Target @ 112+50
		6 7	115	-48	# 10	52°36'	654
			125	-58	# 11	54°42'	706
			138	-71	#12	57°06'	773
			155	-88	#13	58°03'	802
			166	-99	#14	58°53'	828
			173	-106	#15	59°24	845

F.B. 2498 Pg. 30 Job No. 030002 Division No. 11 Notes Red ____ Plotted ____ Profile
Survey of HYDRO-SURVEY Date ____ Date ____ No. ____
Survey by ____ Notes ____ Notes Chkd. ____ Checked ____ X-Sec.
Indexed ____ Date ____ Date ____ Date ____ No. ____

76L298 307 Cdb 12-62

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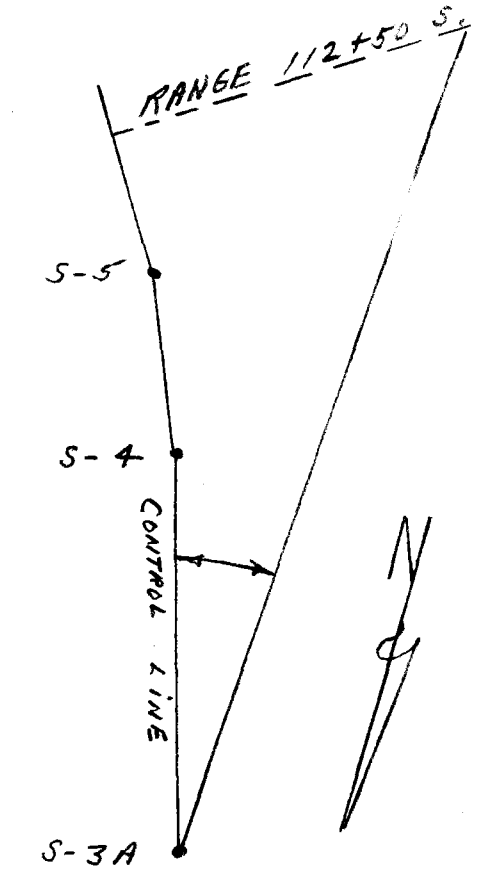
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

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					
S-3A	S-4	9:00	1	44	16			
			2	43	22			
			3	42	53			
			4	42	13			
			5	41	40			
			6	40	56			
			7	40	25			
			8	39	51			
			9	39	10			
			10	38	15			
			11	37	27			
			12	36	49			
			13	36	03			
			14	35	14			
			15	34	27			
			16	33	41			
			17	32	57			
			18	32	07			
			19	31	06			
			20	29	58			



RANGE LINE 112+50 S.

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2498 Pg. 31

No. ____ Date ____ Date ____ Survey of BEACH EROSION PLAYA DEL REY

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 3-28-77

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

76L298 307 Cdb 12-62

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Do not extend notes this side of this line.

F. B. 2498 Pg. 32 Job No. 2300.02 Division No. 11 Notes Red. Plotted Profile No.

Survey of BEACH EROSION PLAYA DEL REY Date Date X-Sec. No.

Survey by RICHARDS Notes Notes Chkd. Checked

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					
S-3A	S-4		21	29	12			
			22	27	54			
			23	26	37			
			24	25	38			
			25	24	43			
			26	23	29			
			27	22	33			
			28	21	29			
			29	20	08			
			30	18	40			
			31	17	33			
			32	16	25			
			33	15	42			
			34	15	02			
			35	14	01			
			36	12	58			
			37	12	09			
			38	11	19			
			39	10	24			
			40	9	41			
		9:08	41	8	47			

76-L-298 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.	8:30 A.M.	3-28-77
					M.L.L.W.	Inshore
		1583				117+50 -S.
T.P.	127	1694	016	1567	1×2	Control Line
117+50-S.			— —	— —	1×2 in slope	
	+ rod		+16	185	67.0 R. toe	bk. sand
			14	155	176.0 R.	"
			20	149	279.0 R. top	brk. "
			29	140	291.0 R.	" "
			111	58	353.0 R.	"
	-23	61	85	84	353.0 R. top	1×2 out inst @ 926 to 7+50
			182	-121	#1 42° 48'	Target @ 112+50
			168	-107	#2 41° 25'	882
			137	-76	#3 39° 48'	833
			122	-61	#4 37° 54'	778
			118	-57	#5 36° 24'	737
			115	-54	#6 34° 32'	688
			104	-43	#7 32° 32'	638
			89	-28	#8 30° 44'	595
			85	-24	#9 28° 38'	546
			105	-44	#10 26° 53'	507
			100	-39	#11 25° 22'	474

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. ____ Notes Chkd. ____ Checked ____ Survey by English Note Carol Date 3-28-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 2498 Pg. 33

F.B. 2498 Pg. 34 Job No. 030002 Division No. 11 Notes Red ____ Plotted ____ Profile

Survey of HYDRO-SURVEY Date ____ Date ____ No. ____

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

Indexed ____ Date ____ Date ____ Date ____ No. ____

76-L29 CE 307 3-61

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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.	LINE 117+50	Inst Target	107+50 112+50
		C 1	77	-1.6	#12	23° 45'	440
		~~C 4~~	C4	-0.3	#13	22° 26'	413
			48	1.7	#14	21° 30	394
			1.4	4.7	362 OR mean High tide		

76L298 307 Cdb 12-62

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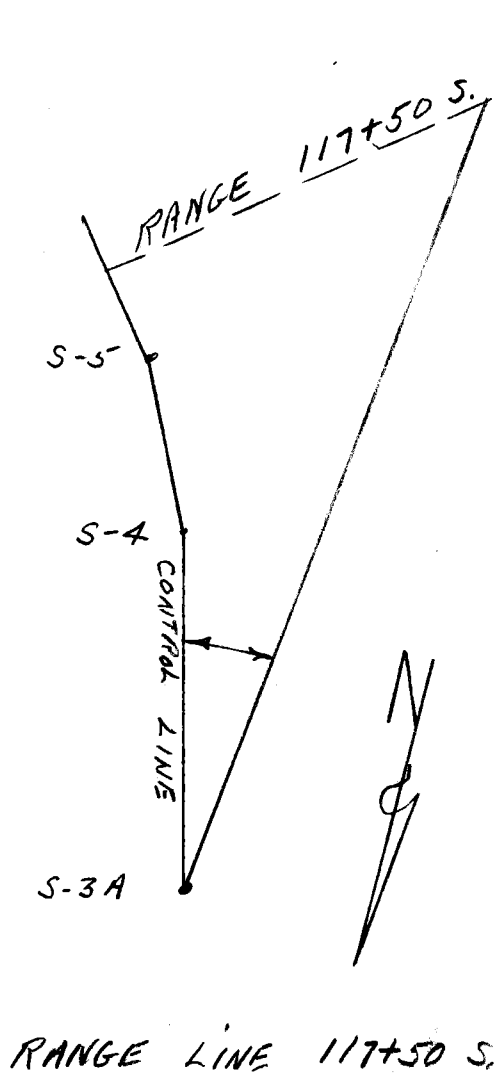
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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					
S-3A	S-4	9:28	1	40	04			
			2	39	31			
			3	38	33			
			4	37	37			
			5	36	54			
			6	36	10			
			7	35	17			
			8	34	15			
			9	33	23			
			10	32	05			
			11	30	44			
			12	29	50			
			13	28	55			
			14	27	43			
			15	26	49			
			16	25	38			
			17	24	49			
			18	23	56			
			19	22	59			
			20	22	14			



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2498 Pg. 35
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION PLAYA DEL REY
Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 3-28-77
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

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.

F. B. 2498 PG. 36 | Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile No.

Survey of BEACH EROSION PLAYA DEL REY Date Date X-Sec. No.

Survey by RICHARDS Notes Notes Chkd. Checked

Indexed Date 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					
S-3A	S-4		21	21	23			
			22	20	28			
			23	19	29			
			24	18	42			
			25	17	44			
			26	16	56			
			27	16	13			
			28	15	30			
			29	14	42			
			30	14	10			
			31	13	13			
			32	12	18			
			33	11	48			
			34	11	05			
			35	10	28			
			36	10	07			
			37	9	36			
			38	9	02			
		9:37	39	8	52			

76-1-298 CE 307 3-61

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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.	9:00 A.M.	3-28-77
		16 94			M.L.L.W.	Inshore
T.P	636	22 19	111	1583	1x2	122+50 -S.
T.P.	326	25 28	017	2202	Conc. Wall	Control Line
122+50-S.			--	--	Parking Lot, Painted "X."	
			027	2501	66.0 R. top Conc. Head Wall	
			8	174	66.0 R. Sand @ bot. " "	
			99	154	190.0 R. "	
T.P.	246	17 75	999	1529	1x2 R.	
			32	146	280.0 R. "	brk.
			110	68	361.0 R. "	
	-19	69	90	88	361.0 R. top	1x2
			22	47	378. OR mean High tide.	
			40	29	#1 38° 08'	cut INST @ 117+50 393 Target @ 122+50
			65	04	#2 39° 41'	415
			76	-07	#3 40° 36'	429
			96	-27	#4 41° 08'	437
			107	-38	#5 42° 53'	464
			115	-46	#6 44° 40'	494
			122	-53	#7 45° 33'	510
			87	-18	#8 47° 35'	547
			85	-16	#9 48° 51'	572

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2498 Pg. 37
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Note Cero Date 3-28-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76-L298 E 307 3-61

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	LINE 122+50	Inst @ 117+50 Target @ 122+50	
		69	94	-25	#10	51° 07'	620
			106	-37	#11	54° 16'	695
			120	-51	#12	56° 30'	755
			125	-56	#13	57° 20'	780
			138	-69	#14	58° 20'	811
			150	-81	#15	59° 21	844
			170	-101	#16	61° 31	922

F.B. 2498 Pg. 38 Job No. 0303.00 Division No. 11 Notes Red ____ Plotted ____ Profile No. ____
Survey of HYDRO-SURVEY Date ____ Date ____ X-Sec. No. ____
Survey by ____ Notes ____ Notes Chkd. ____ Checked ____
Indexed ____ Date ____ Date ____ Date ____

76L298 907 Cdb 12-62

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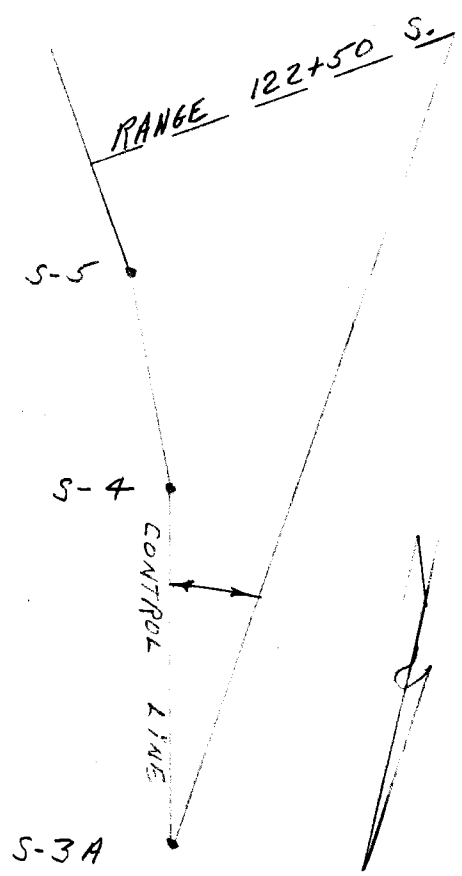
Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
S-3A	S-4	9:52	1	37	14			
			2	36	34			
			3	35	46			
			4	34	59			
			5	34	10			
			6	33	28			
			7	32	42			
			8	31	57			
			9	30	58			
			10	30	15			
			11	29	41			
			12	29	10			
			13	28	35			
			14	27	58			
			15	27	20			
			16	26	45			
			17	26	14			
			18	25	38			
			19	25	04			
			20	24	38			



RANGE LINE 122+50 S.

Profile Notes Red ____ Plotted ____ Job No. 0300.6 Division No. 11 F.B. 2498 Pg. 39
No. ____ Date ____ Date ____ Survey of BEACH EROSION PLAN
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 3-28-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

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F. B. 2498 Pg. 40 Job No. 0300.02 Division No. 11 Notes Red. Plotted

Survey of BEACH EROSION PLAYA DEL REY Date Date

Survey by RICHARDS Notes Chkd. Checked

Indexed Notes Date Date

Profile No. X-Sec. 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					
S-3A	S-4		21	23	58			
			22	23	23			
		—	23	22	48			
			24	22	18			
			25	21	33			
			26	20	54			
			27	20	08			
			28	19	36			
			29	18	58			
			30	18	19			
			31	17	45			
			32	17	06			
			33	16	15			
			34	15	28			
			35	14	39			
			36	14	02			
			37	13	11			
			~~38~~	~~12~~	~~41~~			
			~~39~~	~~11~~	~~58~~			
			~~40~~	~~11~~	~~22~~			
			~~41~~	~~10~~	~~48~~			
			~~42~~	~~10~~	~~12~~			
			~~43~~	~~9~~	~~34~~			
		10:01	44	8	58			

76-1298 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.	9:45 A.M.	3-28-77
					M.L.L.W.	Inshore
		1775				127+50 -S.
T.P.	696	1962	509	1266	1x2	Control Line
	1186	2988	160	1802	1x2	
127+50-S.			--	--	1x2 in Sand	
			537	2451	68.0 R. top	Conc. head Wall
T.P.	070	1945	1113	1875	1x2	
			40	151	68.0 R. Sand	@ bot. head Wall
			48	147	218.0 "	
			49	146	291.0 R. "	brk.
			75	120	321.0 R. "	"
			94	111	360.0 R. "	"
			144	51	389.0 R. "	
	1.1	64	120	75	389.0 R. top	1x2
	~~1.1~~		160	-96	#1 42° 07'	Cut Inst @ 117+50 Target @ 122+50 905
			140	-76	#2 40° 18'	848
			114	-50	#3 38° 23'	792
			109	-45	#4 36° 46'	747
			91	-27	#5 33° 23'	659
			80	-16	#6 31° 41'	617
			110	-46	#7 29° 45'	572

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes Carey Date 3-28-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 2498 Pg. 41

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.	LINE 127+50	Inst @ 117+50 Target @ 122+50
		64	100	-36	#8 27° 08'	512
			93	-29	#9 25° 57'	487
			71	-07	#10 24° 35'	457
			61	03	#11 23° 18'	431
			17	47	~~#12~~ 400.0 R mean High tide	

F.B. 2498 Pg. 42 Job No. 030002 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of HYDRO-SURVEY Date ____ Date ____ No. ____
Survey by ____ Notes ____ Notes Chkd. ____ Checked ____ X-Sec. ____
Indexed ____ Date ____ Date ____ Date ____ No. ____

76L298 307 Cdb 12-62

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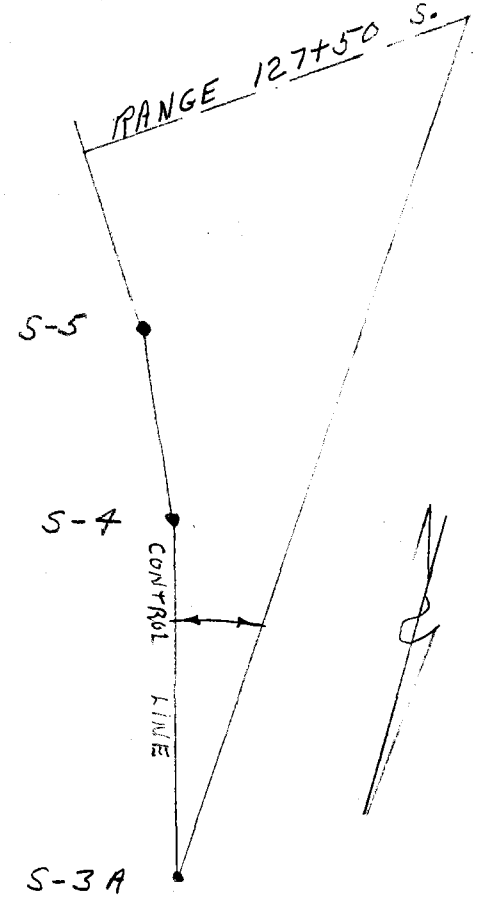
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
S-3A	S-4	10:16	1	33	46			
			2	32	53			
			3	32	13			
			4	31	42			
			5	30	56			
			6	30	11			
			7	29	26			
			8	28	39			
			9	27	52			
			10	27	06			
			11	26	24			
			12	25	38			
			13	24	53			
			14	24	10			
			15	23	27			
			16	22	37			
			17	21	56			
			18	21	07			
			19	20	21			
			20	19	25			



RANGE 127+50 S.

Profile Notes Red ____ Plotted ____ Job No 23 OC. 62 Division No. 11 F.B. 298 Pg. 43
No. ____ Date ____ Date ____ Survey of BLOCK EXPOSED PLANE WALL NEW
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes RT. Date 3-28-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

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.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
S-3A	S-4		21	18	23			
			22	17	43			
			23	16	51			
			24	16	05			
			25	15	34			
			26	14	49			
			27	14	02			
			28	13	18			
			29	12	38			
			30	12	12			
			31	11	22			
			32	10	44			
			33	10	16			
			34	9	36			
			35	9	07			
			36	8	38			
			37	7	48			
			38	7	27			
			39	7	04			
		10:24	40	6	45			

F. B. 2498 PG. 44 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of BEACH EROSION PLAYA DEL REY Date Date No. X-Sec.

Survey by RICHARDS Notes Notes Chkd. Checked

Indexed Date Date No.

76-L298 CE 307 3-61

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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.	10:00 A.M.	3-28-77
					M.L.L.W.	Inshore
		1945				132+50 - S.
T.P.	816	1934	827	1118	1×2	Control Line
	1105	2902	137	1797	1×2	
132+50-S.			99	191	Sand, 1×2	
			94	196	86.5 L. toe bank sand	
			32	258	59.0 L. top bank "	
			148	2754	8.0 L. edge Conc. Bike Path	
T.P.	082	1930	1054	1848	1×2	
			49	144	147.0 R.	Sand
			50	143	209.0 R. brk. "	
			150	43	306.0 R.	"
	-15	56	122	71	306.0 R. top 1×2	
			09	47	304.0 R min High tide	
			49	07	#1 41° 59' 288 out 1 mile Target	127+50 39 122+50 Bk Sight
			53	03	#2 42° 18' 292	342
			68	-12	#3 42° 51' 297	351
			59	-03	#4 44° 12' 311	372
			59	-03	#5 46° 35' 338	411
			64	-08	#6 48° 56' 365	448
			80	-24	#9 50° 56' 389	488

Profile No. ____ Notes Red ____ Plotted ____
X-Sec. No. ____ Date ____ Date ____ Job No. 0300.02 Division No. ____
Notes Chkd ____ Date ____ Checked ____ Date ____ Survey of Hydrosurvey
Survey by Engineering Notes Cargo Date 3-28-77
Map No. ____ Indexed ____ Date ____
F.B. 2498 Pg. 45

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.	LINE 132+50	Inst @ Target @	127+50 122+50	BK. Sight
		56	84	-28	#8	52° 00	402	512
			82	-26	#9	53° 25'	420	539
			88	-32	#10	54° 52'	440	572
			100	-44	#12	55° 30'	448	591
			97		#12		no 4	
			100	-44	#13	56° 14'	458	604
			120	-64	#14	57° 07'	471	628
			130	-74	#15	58° 17'	488	655
			150	-94	#16	60° 31	522	721
			173	-117	#17	62 - 60	551	783

F.B. 2498 Pg. 46 Job No. 030002 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of HYDRO-SURVEY Date ____ Date ____ No. ____
Survey by ____ Notes ____ Notes Chkd. ____ Checked ____ X-Sec. ____
Indexed ____ Date ____ Date ____ Date ____ No. ____

76L298 307 Cdb 12-62

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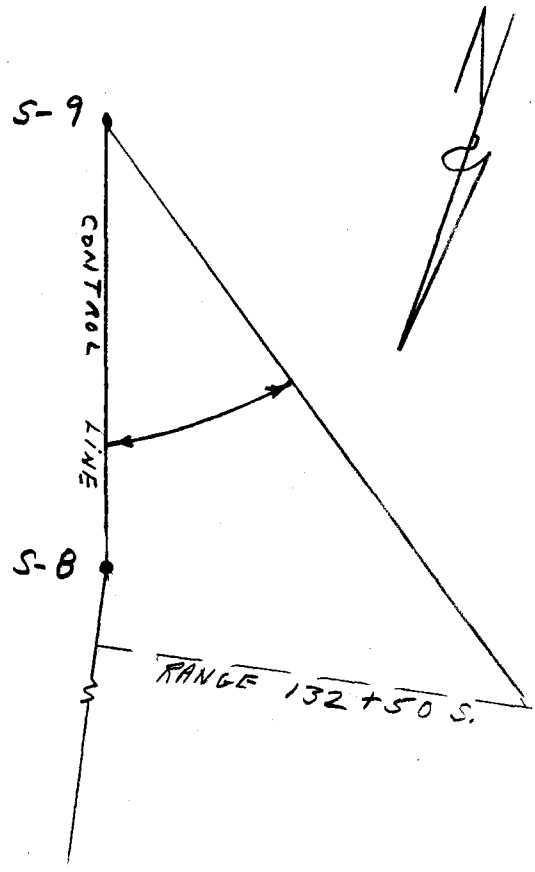
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
S-9	S-8	11:02	1	321	14			
			2	322	03			
			3	322	38			
			4	323	33			
			5	324	36			
			6	325	24			
			7	326	11			
			8	327	07			
			9	328	01			
			10	328	49			
			11	329	45			
			12	330	40			
			13	331	48			
			14	332	45			
			15	333	32			
			16	334	38			
			17	335	40			
			18	336	32			
			19	337	26			
			20	338	16			



RANGE LINE 132+50 S.

Profile Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 11 F.B. 2498 Pg. 47

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Notes R.T. Date 3-28-77

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

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 Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
S-9	S-8		21	339	14			
			22	340	14			
			23	341	28			
			24	342	20			
			25	343	29			
			26	344	45			
			27	345	53			
			28	346	44			
			29	347	30			
			30	348	18			
			31	349	06			
			32	349	44			
			33	350	46			
			34	351	20			
			35	352	20			
			36	352	58			
		1111	37	353	38			

F. B. 2998 PG. 48

Job No. 2300.02 Division No. 11 Notes Red. ____ Plotted ____ Profile ____

Survey of BEACH EROSION PLAYA DEL REY Date ____ Date ____ No. ____ X-Sec. ____

Survey by RICHARDS Notes ____ Notes Chkd. ____ Checked ____

Indexed ____ Date ____ Date ____ No. ____

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.	10:15 A.M.	3-28-77
					M.L.L.W.	Inshore
		1930				137+50-S.
T.P.	1.07	1754	283	1647	1x2	Control Line
137+50-S.			06	169	Sand, 1x2	
	+rod		+10	185	38.5 L. toe bank sand	
			27	148	98.0 R.	"
			34	141	197.0 R.	brk. "
			136	39	294.0 R.	"
	-09	58	118	67	294.0 R. top 1x2	
			160	-102	#1 43° 31'	Cut Inst @ 127+50 717 Target @ 122+50 BK Sight
			135	-77	#2 41° 21'	664
			130	-72	#3 39° 05'	612
			134	-76	#4 36° 07'	547
			120	-62	#5 35° 14'	528
			110	-52	#6 34° 49'	519
			107	-49	#7 34° 23'	510
			80	-22	#8 31° 09'	444
			72	-14	#9 29° 10'	405
			90	-32	#10 28° 08'	385
			85	-27	#11 26° 26'	353
			75	-19	#12 25° 10'	329

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2498 Pg. 49
X-Sec. No. ____ Date ____ Date ____ Survey of Hydrosurvey
Notes Chkd. ____ Checked ____ Survey by Elphish Note Coro Date 3-28-77
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 2498 Pg. 50 Job No. 030002 Division No. 11 Notes Red ____ Plotted ____ Profile

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

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

Indexed ____ 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.

STATION	B.S.	H.I.	F.S.	ELEV.	LINE 137+50	Inst @ 127+50 Target @ 122+50 Blk.
		58	57	01	#13 24° 21'	314
			11	47	288.0 R. mean high tide.	sift

76L298 307 Cdb 12-62

PLEASE RETURN TO
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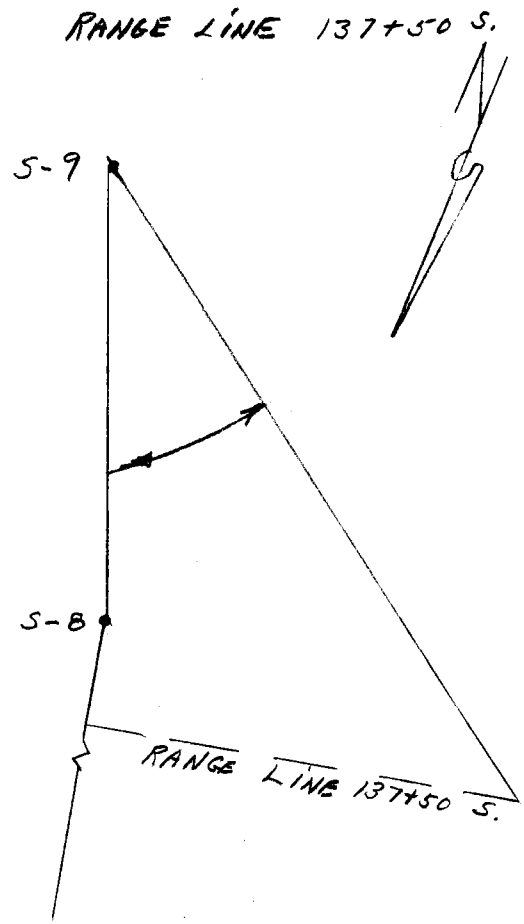
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
S-9	S-8	11:25	1	319	52			
			2	320	50			
			3	321	48			
			4	322	47			
			5	323	25			
			6	324	13			
			7	325	08			
			8	326	16			
			9	327	32			
			10	328	37			
			11	329	30			
			12	330	46			
			13	332	04			
			14	333	33			
			15	334	38			
			16	335	52			
			17	337	12			
			18	338	42			
			19	339	52			
			20	340	42			



Profile Notes Red. Plotted Job No. 0300.02 Division No. 11 F.B. 2498 Pg. 51
No. Date Date Survey of BEACH EROSION PLAYA DEL REY
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes Date 3-28-77
No. Date Date Map No. Indexed 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.

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					
S-9	S-8		21	342	05			
			22	342	51			
			23	343	48			
			24	344	58			
			25	346	05			
			26	346	51			
			27	347	40			
			28	348	35			
			29	349	16			
			30	349	40			
			31	351	06			
			32	351	24			
		11:33	33	351	42			

F. B. 2498 PG. 52

Job No. 300.02 Division No. 11 Notes Red. Plotted Profile

Survey of BEACH EROSION PLAYA DEL REY Date Date No.

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

Indexed Date Date Date No.

76-L298 CE 307 3-61

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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.	7:30 A.M.	3-29-77
					M.L.L.W.	Inshore
		1754				142+50 -S.
T.P.	410	1791	373	1381	1x2	Control Line
142+50-S			05	174	Sand, 1x2	
	+rod		+19	198	38.0 L. toe	bank. sand
			33	146	100.0 R.	"
			36	143	196.0 R.	brk "
			119	60	281.0 R.	"
	-0.9	74	96	83	281.0 R top	1x2
			2.7	47	294.0 R mean high tide	
			49	25	#1 32° 42'	Out Inst @ 137+50 321 Target @ 142+50
			67	07	#2 34° 24'	342
			77	-03	#3 36° 00'	363
			87	-13	#4 37° 42'	386
			93	-19	#5 40° 40'	430
			93	-19	#6 42° 53'	464
			93	-19	#7 45° 40'	512
			96	-22	#8 47° 22'	543
			104	-30	#9 49° 41'	589
			115	-41	#10 51° 25'	627
			130	-66	#11 52° 48'	659

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 0300.02 Division No. ____ F.B. 2498 Pg. 55
X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of Hydrosurvey Survey by English Notes Card Date 3-29-77
Map No. ____ Date ____ Indexed ____ Date ____

76-L298 CE 307 3-61

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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.	LINE 142+50	Cut Inst @ 137+50 Target @ 142+50	
		74	14 6	-7 2	#12	54° 06'	691
			15 8	-8 4	#13	55° 30'	728
			16 8	-9 4	#14	57° 12'	776
			17 8	-10 4	#15	57° 55'	798

F.B. 2498 Pg. 56 Job No. 0300.02 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of HYDRO-SURVEY Date ____ Date ____ No. ____
Survey by ____ Notes ____ Notes Chkd. ____ Checked ____ X-Sec. ____
Indexed ____ Date ____ Date ____ Date ____ No. ____

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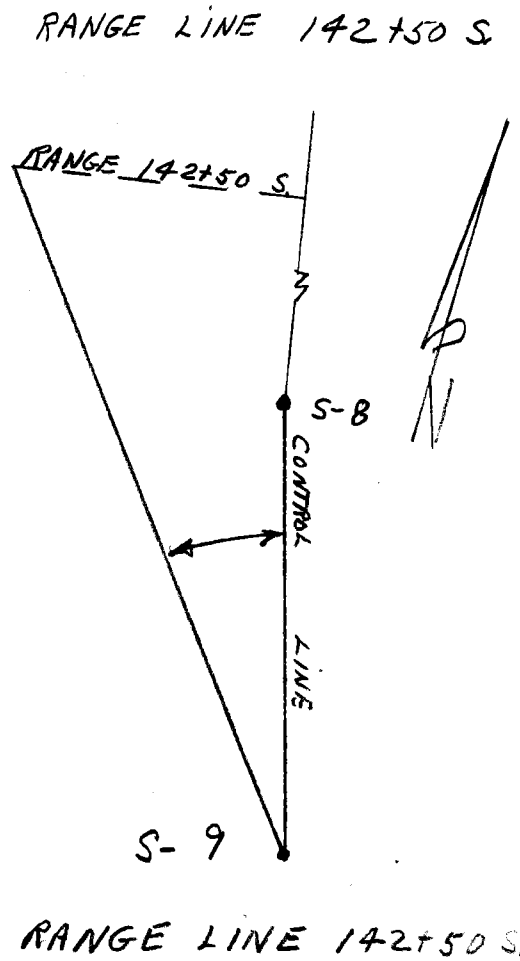
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

INST. AT	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					
S-9	S-8	8:04	1	316	07			
			2	317	01			
			3	317	53			
			4	318	48			
			5	320	08			
			6	321	07			
			7	322	03			
			8	322	51			
			9	323	50			
			10	324	54			
			11	325	50			
			12	327	03			
			13	328	25			
			14	329	35			
			15	330	58			
			16	332	16			
			17	333	26			
			18	334	35			
			19	335	52			
			20	337	21			



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2498 Pg. 57
No. ____ Date ____ Date ____ Survey of BEACH EROSION [illegible]
X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Notes R.T. Date 3-29-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

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					
S-9	S-8		21	338	29			
			22	339	42			
			23	341	04			
			24	342	14			
			25	343	20			
			26	344	29			
			27	345	42			
			28	346	32			
			29	347	09			
			30	347	44			
			31	348	04			
			32	348	34			
			33	349	13			
			34	349	50			
			35	350	22			
		8:13	36	350	47			

F. B. 2498 Pg. 58 Job No. 03 00 02 Division No. 11 Notes Red. Plotted Profile

Survey of BEACH EROSION MAYA DEL REY Date Date No. X-Sec.

Survey by RICHARDS Notes Notes Chkd. Checked

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.	8:00 A.M.	3-29-77
		1791			M.L.L.W.	Inshore
T.P.	242	1912	121	1670	1x2	147+50 -S.
			— —	— —		Control Line
147+50-S.			12	179	Sand, 1x2	
			04	187	12.0 L. toe bank	sand.
			46	145	90.0 R.	"
			50	141	208.0R. brk	"
			125	66	278.0R.	"
	-21	74	96	95	278.0R. top	1x2
			181	-107	#1 40° 52' 865	Cut Inst @ 137+50 Target @ 142+50
			172	-98	#2 39° 20'	819
			150	-76	#3 37° 30'	763
			133	-59	#4 35° 42'	719
			121	-47	#5 34° 16'	681
			117	-43	#6 32° 51'	646
			116	-42	#7 28° 57'	553
			152	-78	#8 28° 38'	546
			15.4	-80	#9 29° 17'	561 ? Terrific Rip Tide
			137	-63	#10 27° 32'	521
			122	-48	#11 25° 51'	484 10' left
			110	-36	#12 24° 31'	456

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2498 Pg. 59
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. ____ Notes Chkd. ____ Checked ____ Survey by English Notes Caro Date 3-29-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

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.

F.B. 2998 Pg. 60 | Job No. 03000.2 | Division No. 11 | Notes Red ____ Date ____ | Plotted ____ Date ____ | Profile No. ____
Survey of HYDRO-SURVEY | Notes Chkd. ____ Date ____ | Checked ____ Date ____ | X-Sec. No. ____
Survey by ____ Notes ____ Date ____
Indexed ____

STATION	B. S.	H. I.	F. S.	ELEV.	LINE 147+50			Inst @ 137+50 Target @ 142+50
		74	85	-11	#13	22°	03'	405
		~~74~~	70	04	#14	19°	52'	361
			60	14	#15	18°	40	338
			27	47	296.0 R	mean high tide		

76L298 307 Cdb 12-62

PLEASE RETURN TO
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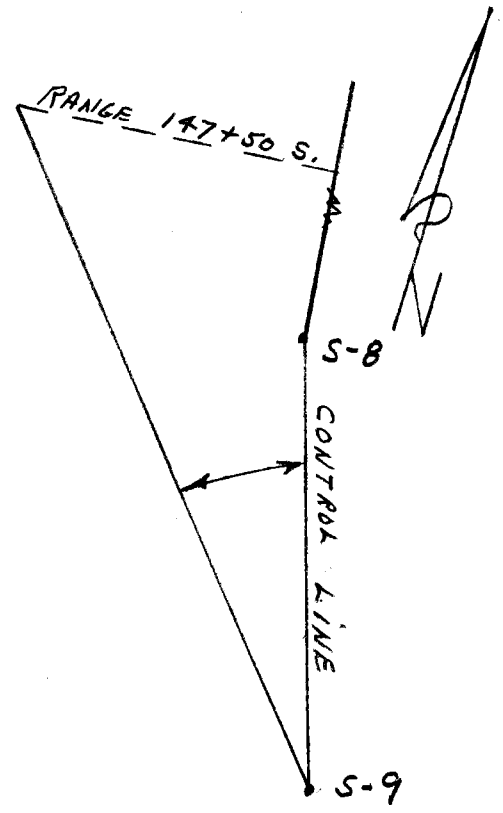
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
S-9	S-8	8:24	1	311	43			
			2	312	34			
			3	313	18			
			4	314	12			
			5	314	58			
			6	315	55			
			7	316	54			
			8	317	30			
			9	318	16			
			10	319	21			
			11	320	07			
			12	320	47			
			13	321	45			
			14	322	40			
			15	324	04			
			16	325	29			
			17	326	31			
			18	327	39			
			19	328	37			
			20	329	50			



RANGE 147+50 S.

Profile
Notes Red ____ Plotted ____ Job No. 0300-02 Division No. 11 F. B. 2498 Pg. 61
No. ____ Date ____ Date ____ Survey of REACH 1 - ASTON ... Date ____
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes RIT Date 3-29-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

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.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
S-9	S-8		21	330	54			
			22	331	58			
			23	333	11			
			24	334	12			
			25	335	31			
			26	336	41			
			27	338	15			
			28	339	25			
			29	340	37			
			30	342	14			
			31	343	32			
			32	344	44			
			33	345	19			
			34	346	09			
			35	346	48			
			36	347	13			
			37	347	49			
		8:33	38	348	20			

F. B. 2498 PG. 62

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

Survey of BEACH EROSION PLAYA DEL REY Date Date No.

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

Indexed Date Date No.

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.	8:15 A.M.	3-29-77
					M. L. L. W.	Inshore
		19 12				152+50 - S.
T.P.	416	18 96	432	14 80	1x2	Control Line
152+50-S.			12	177	Sand, 1x2	
			01	188	20.0 L. toe	bk. sand
			47	143	108.0 R.	"
			58	132	209.0 R.	brk. "
			79	111	243.0 R.	" "
			91	99	244.0 R.	" "
			131	59	295.0 R.	"
	-19	68	103	87	295.0 R. top	1x2
			21	47	307 FT. RIGHT M.H.W.	
					CUT INST. AT 147+50 S., SIGHT ON 152+50 S.	
			45	23	#1 34° 23'	342'
			73	-05	2 36° 22'	368
			82	-14	3 37° 53'	389
			86	-18	4 40° 16'	424
			75	-07	5 42° 30'	458
			115	-47	6 46° 36'	529
			130	-62	7 48° 34'	566
			140	-72	8 49° 14'	580

Profile No. X-Sec. No. Notes Red Date Notes Chkd. Date Plotted Date Checked Date Job No. 0300.0 Division No. Survey of Hydrosurvey Survey by English Note Coro Date 3-29-77 Map No. Indexed Date F.B. 2498 Pg. 63

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 IN INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

Do not extend notes this side of this line.

F. B. 2498 PG. 64 | Job No. 0300.02 | Division No. 11 | Notes Red ____ Date ____ | Plotted ____ Date ____ | Profile No. ____
Survey of HYDRO SURVEY | Notes DREIER 10-25-77 | Notes Chkd. ____ Date ____ | Checked ____ Date ____ | X-Sec. No. ____
Survey by ____ | Indexed ____ Date ____

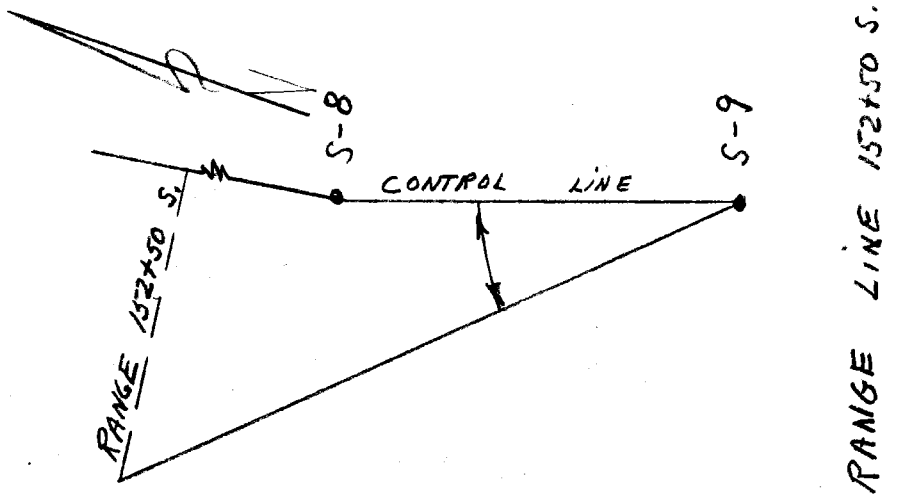
STATION	B. S.	H. I.	F. S.	ELEV.	LINE 152+50		CN Inst @ 147+50 Target @ 152+50
		68					
			109	-41	# 9	49° 57'	595
			95	-27	10	52° 04'	642
			104	-36	11	54° 00'	688
			115	-47	12	54° 51'	710
			121	-53	13	55° 18'	722
			130	-62	14	55° 56'	739
			136	-68	15	56° 51'	766
			147	-79	16	57° 38'	789
			165	-97	17	58° 23'	812
			176	-108	18	59° 19'	843

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 0300.02 Division No. 11 F. B. 2498 Pg. 65

Date _____ Date _____ Survey of BEACH EROSION PLAYA DEL REY

X-Sec. No. _____ Notes Chkd. _____ Checked _____ Survey by RICHARDS Notes R.T. Date 3-29-77

Date _____ Date _____ Map No. _____ Indexed _____ Date _____



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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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					
S-9	S-8	8:50	1	306	22			
			2	307	15			
			3	308	04			
			4	308	41			
			5	309	27			
			6	310	06			
			7	310	52			
			8	311	44			
			9	312	26			
			10	313	17			
			11	314	12			
			12	315	20			
			13	316	26			
			14	317	39			
			15	318	51			
			16	319	46			
			17	320	58			
			18	322	10			
			19	323	17			
			20	324	21			

76L298 307 Cdb 12-62

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					
S-9	S-8		21	325	45			
			22	327	14			
			23	328	55			
			24	330	30			
			25	331	58			
			26	333	41			
			27	335	14			
			28	336	45			
			29	338	18			
			30	340	04			
			31	341	26			
			32	342	49			
			33	343	46			
			34	344	26			
		8:58	35	345	35			

F. B. 2498 PG. 66 Job No. R300.02 Division No. 11 Notes Red. Plotted Profile

Survey of BEACH EROSION PLAYA DEL REY Date Date No. X-Sec.

Survey by RICHARDS Notes Notes Chkd. Checked

Indexed Date Date Date No.

76-L298 CE 307 3-61

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.	9:00 A.M.	3-29-77
		18 96			M.L.L.W.	Inshore
T.P.	772	20 29	639	1257	1×2	160+00 -S.
T.P.	383	21 42	270	1759	1×2	Control Line
T.P	455	21 56	441	1701	1×2	
160+00-S.			420	1736	L.&T. Conc. walk (Strand).	
			426	1730	5.7 R. edge Conc. Wlk	
			47	169	5.7 R. Sand	
			55	161	100.0 R. "	
			69	147	223.0 R. brk. "	
T.P.	230	17 66	620	1536	1×2	
			64	113	262.0 R. brk. Sand	
			130	47	313.0 R. "	
	-17	58	102	75	313.0 R. top 1×2	
			190	-132	#1 35° 51' 903	Cut Inst @ 147+50 Target @ 152+50
			152	-97	#2 33° 57'	842
			130	-72	#3 32° 27'	795
			117	-59	#4 31° 05'	754
			94	-36	#5 28° 04'	667
			102	-44	#6 23° 58'	556
			119	-61	#7 21° 07'	483
			60	-62	#8 19° 22'	439

Profile No. ____ Notes Red ____ Plotted ____ Job No. 03000.02 Division No. ____ F.B. 2498 Pg. 67
X-Sec. No. ____ Date ____ Date ____ Survey of Hydrosurvey
Notes Chkd. ____ Checked ____ Survey by Eagle Notes Corp Date 3-29-77
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

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.

F.B. 2498 Pg. 68 | Job No. 0300.02 | Division No. 11 | Notes Red ____ Date ____ | Plotted ____ Date ____ | Profile No. ____
Survey of HYDRO-SURVEY | Date ____ | Notes Chkd. ____ Date ____ | Checked ____ Date ____ | X-Sec. No. ____
Survey by ____ Notes ____ Date ____
Indexed ____

STATION	B.S.	H.I.	F.S.	ELEV.	LINE 160+00			Out Inst @ 147+30 Target @ 152+50
		58	60	-02	#9	17°	59'	406
		2	44	14	#10	16°	24'	368
			31	27	342.0	R		
			11	47	318.0	R	mean	High tide

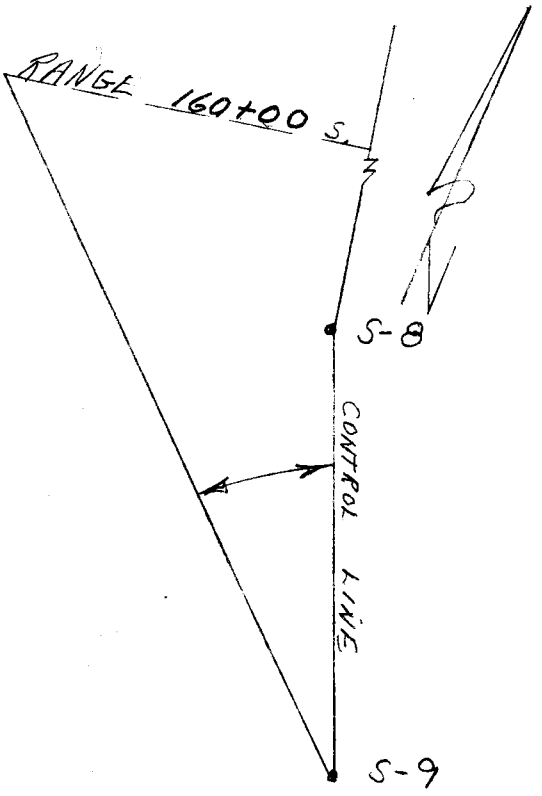
76L298 307 Cdb 12-62

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					
S-9	S-8	9:20	1	299	10			
			2	299	55			
			3	300	45			
			4	301	40			
			5	302	42			
			6	303	55			
			7	304	53			
			8	306	01			
			9	307	25			
			10	308	28			
			11	309	50			
			12	310	59			
			13	312	33			
			14	314	20			
			15	315	38			
			16	317	12			
			17	318	59			
			18	320	53			
			19	322	20			
			20	323	40			



RANGE LINE 160+00 S.

Profile Notes Red.____ Plotted____ Job No. 2300.02 Division No. 11 F.B. 2498 Pg. 69
No.____ Date____ Date____ Survey of BEACH EROSION PLAYA DEL REY
X-Sec. Notes Chkd.____ Checked____ Survey by RICHARDS Notes R.T. Date 3-29-77
No.____ Date____ Date____ Map No.____ Indexed____ Date____

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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. 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					
S-9	S-8		21	325	40			
			22	327	32			
			23	329	17			
			24	330	54			
			25	332	21			
			26	333	43			
			27	335	13			
			28	336	26			
			29	337	51			
		9:28	30	339	02			

F. B. 2498 Pg. 70 | Job No. 0300.02 Division No. 11 | Notes Red. | Plotted | Profile

Survey of BEACH EROSION PLAYA DEL REY | Date | Date | No. | X-Sec.

Survey by RICHARDS | Notes | Notes Chkd. | Checked | No.

Indexed | Date | Date | Date

76-1-298 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.	9:30 A.M.	3-29-77
		1766			M.L.L.W.	Inshore
	330	2039	057	1709		165+00 - S.
165+00-S.			311	1728	S-8, L.&T., F.B. 2100 -18+16A.	Control Line
			312	1727	5.8 R. edge	Conc. Wlk.
THIS PARK	O.K.		33	171	5.8 R. Sand	
			36	168	120.0 R. "	
			64	140	243.0 R. "	brk.
T.P. -	352	1788	603	1436	1×2	
			146	33	355.0 R. "	
			115	64	355.0 R. top	1×2
	-14	50	03	47	340.0 R mean	high tide
			27	23	380.0 R	Cut Inst. @ 160+00
SEE PG. 73 FOR			50	00	#1 39° 07'	Target @ 152+50 & Plunge
RE-RUN ON 3-30-77			48	02	#2 40° 51'	
			50	00	#3 43° 24'	
			60	10	#4 45° 06'	
			110	10	#5 47° 51'	
			108	-58	#6 50° 48'	
			100	-50	#7 53° 48'	
			90	-40	#8 56° 08'	
			75	-25	#9 57° 31'	

VOID
F.E.B.
30 Mar. 77.

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2498 Pg. 71
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Note Carol Date 3-29-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76-L298 CE 307 3-61

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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.

F.B. 298 Pg. 72 | Job No. 030002 | Division No. 11 | Notes Red ____ Date ____ | Plotted ____ Date ____ | Profile No. ____
Survey of HYDRO-SURVEY | X-Sec. No. ____
Survey by ____ Notes ____ Date ____ | Notes Chkd. ____ Date ____ | Checked ____ Date ____
Indexed ____ Date ____

STATION	B.S.	H.I.	F.S.	ELEV.	LINE 165+00			Cut/Inst. @ 160+00 Target @ 152+50 Plunger
		50	85	-35	#10	59°	04'	
			90	✓-40	#11	60°	22'	
			100	-50	#12	61°	36'	
			80	-30	#13	62°	05'	
			70	-20	#14	63°	42'	
			50	00	#15	65°	06'	

30 Mar. 77

76L-298 CE 307 11-58

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

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

Do not extend notes this side of this line.

235.8
87.2
323.0

STATION	B.S.	H.I.	F.S.	ELEV.	9:45	30 Mar 1977
165+00S	305			1728	S-8 L&T per pg.	
		2033				
	-30	62	1109	924	323.0 R. 1x2	
			15	47	342.0 R mean high tide.	
			43	19	#1 36° 30'	370 cut Inst. @ 160+00 Target @ 165+00
			55	07	#2 38° 28'	397
			50	12	#3 40° 34'	428
			60	02	#4 42° 53'	464
			78	-16	#5 45° 02'	501
			120	-58	#6 47° 02'	537
			135	-73	#7 48° 08'	558
			125	-63	#8 49° 53'	593
			125	-63	#9 51° 23'	626
			126	-64	#10 52° 00'	640 O.K. - HEAVY SURF
			125	-63	#11 51° 15'	623 CONDITIONS
			114	-52	#12 53° 28'	675
			127	-65	#13 58° 00'	800
			165	-103	#14 58° 52'	828
			165	-103	#15 59° 03'	834

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2498 Pg. 73
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Chkd. ____ Checked ____ Survey by FEBrooks Notes FEB Date 30 Mar 77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

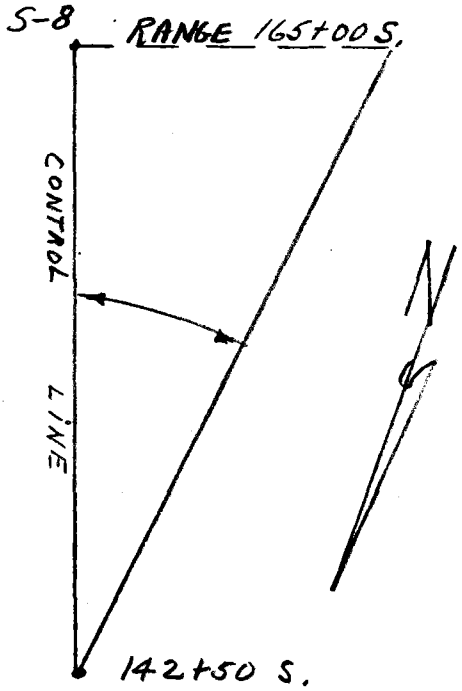
76L298 307 Cdb 12-62

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 DEG.	RANGE MIN.	LINE	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH						
142+50	S-8	10:22	1	58	33				
			2	57	58				
			3	57	22				
			4	56	36				
			5	55	52				
			6	55	07				
			7	54	16				
			8	53	31				
			9	52	35				
			10	51	38				
			11	50	42				
			12	49	41				
			13	48	39				
			14	47	44				
			15	47	05				
			16	46	11				
			17	45	18				
			18	44	04				
			19	42	54				
			20	41	52				



RANGE 165+00 S.

Profile Notes Red. Plotted Job No. 2302.02 Division No. 11 F.B. 2498 Pg. 75
No. Date Date Survey of BEACH EROSION PLAN DEL REY
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes R.T. Date 3-29-77
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.

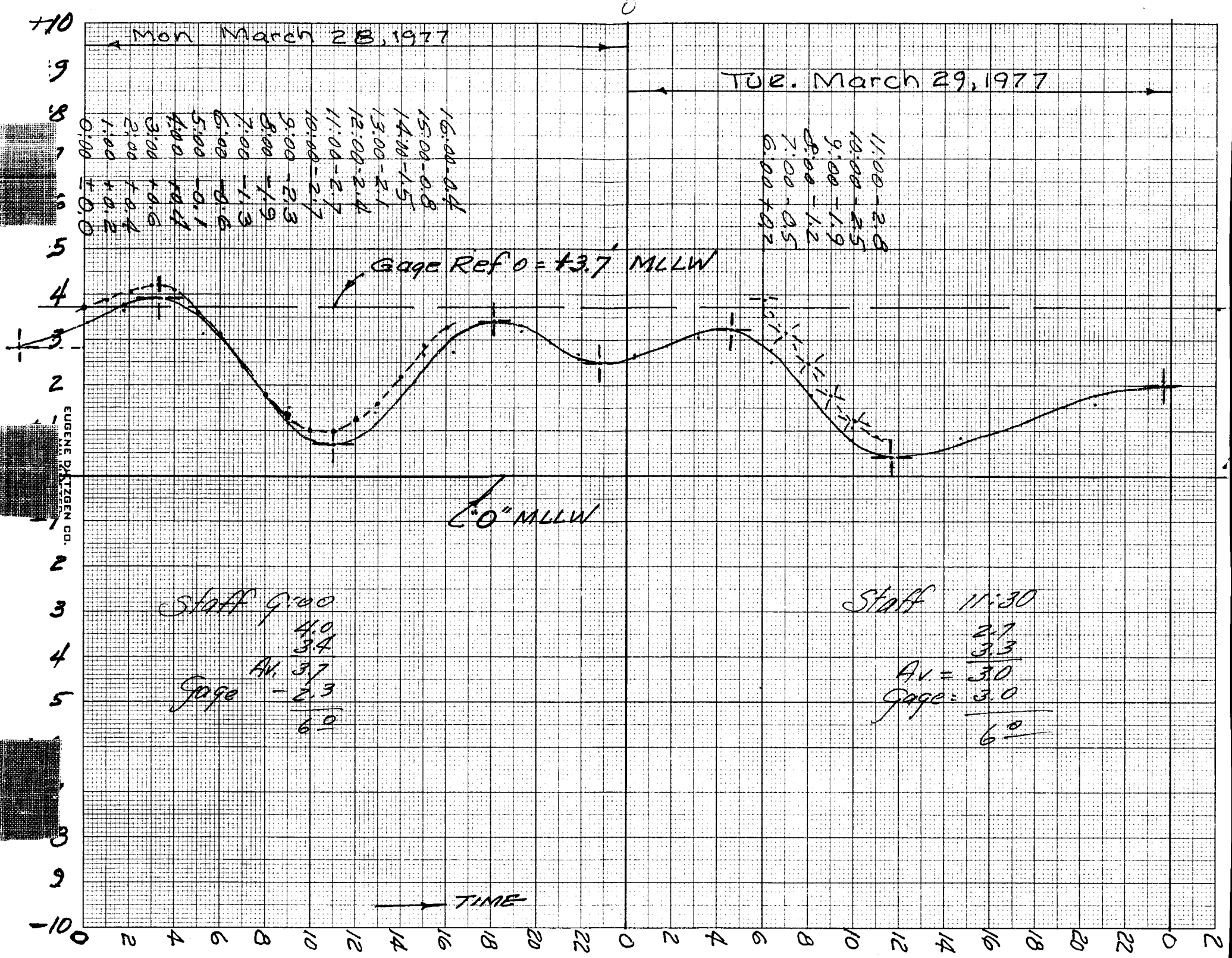
INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
142+50	S-8		21	40	57			
			22	39	40			
			23	38	30			
			24	36	10			
			25	35	47			
			26	34	32			
			27	33	19			
			28	31	48			
			29	30	35			
			30	29	15			
			31	27	53			
			32	26	35			
			33	25	17			
			34	23	47			
			35	22	56			
			36	21	49			
		10:31	37	21	01			

F. B. 2498 PG. 76 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of BEACH EROSION PLAYA DEL REY Date Date No.

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

Indexed Date Date No.


Mon March 28, 1977
Tue. March 29, 1977
Gage Ref 0 = +3.7' MLLW
"0" MLLW
Staff 9:00
4.0
3.4
Av. 3.7
Gage - 2.3
6.0
Staff 11:30
2.7
3.3
Av. = 3.0
Gage: 3.0
6.0
TIME
EUGENE DIETZGEN CO.

PG. 77, 78 BLANK

SEE PG. 59 FOR TIDE
GAGE READINGS FOR 3-29-77

76-1-298 CE 307 3-61

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.	7:00 A.M.	3-30-77
		1788			M.L.L.W.	Inshore
T.P.	440	2146	082	1706	1x2	170+00 - S.
170+00-S.			406	1740	Painted "x," Pavm't.	Control Line
			441	1705	11.0 R. edge	Pavm't (Wlk.).
			46	169	11.0 R. Sand	
			46	169	176.0 R. "	
			75	140	275.0 R. "	brk.
T.P.	619	2090	675	1471	1x2	
			121	88	308.0 R. Sand	
			940	1150	308.0 R. Top	of 1x2
	-23	92				
3-31-77			45	47	337.0 R mean	high tide
THIS PORTION			63	29	#1 35° 35'	Cut INST @ 165+00 Target @ 170+00
			89	03	#2 38° 24'	
			118	-26	#3 39° 42'	
			127	-35	#4 40° 44'	
			137	-45	#5 41° 46'	
			104	-12	#6 46° 48'	
			105	-13	#7 48° 02'	
			114	-22	#8 51° 37'	
			123	-31	#9 53° 11'	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2498 Pg. 79
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Note Coro Date 3-30-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 244 PG. 80 Job No. 030002 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of HYDRO-SURVEY Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76-L298 CE 307 3-61

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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

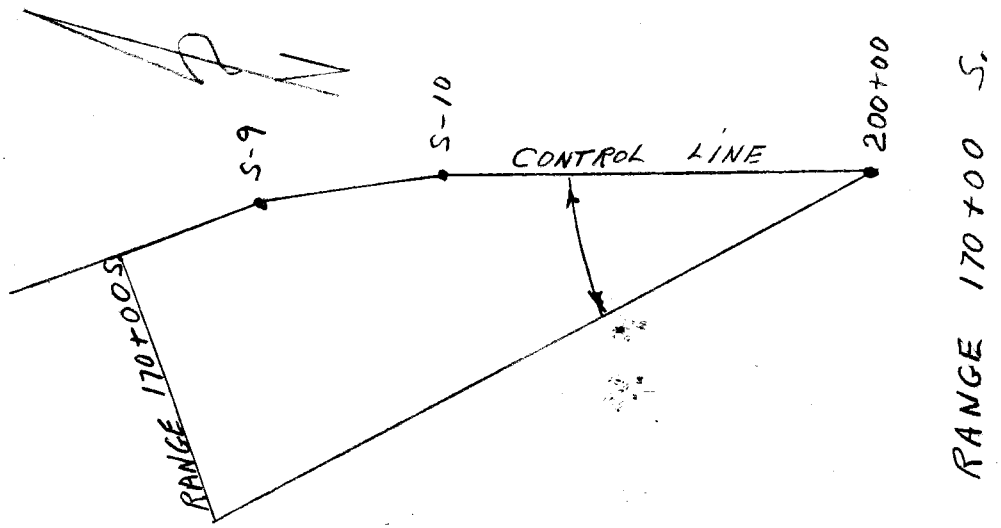
STATION	B.S.	H.I.	F.S.	ELEV.
		92	132	-40
			155	-63
			164	-45
			175	-83
LINE 170+00 OUT				
#10 55° 24'				
#11 57° 47'				
#12 58° 03'				
#13 59° 23'				
Last @ 163+00				
Target @ 170+00				

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 0366.02 Division No. 11 F. B. 2498 Pg. 81

Date _____ Date _____ Survey of BEACH EROSION PLAYA DEL REY

X-Sec. No. _____ Notes Chkd. _____ Checked _____ Survey by RICHARDS Notes R.T. Date 3-31-77

Date _____ Date _____ Map No. _____ Indexed _____ Date _____



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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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					
200+00	S-10	8:22	1	302	57			
			2	303	47			
			3	304	34			
			4	305	19			
			5	306	04			
			6	306	50			
			7	307	37			
			8	308	27			
			9	309	13			
			10	310	02			
			11	310	45			
			12	311	25			
			13	312	24			
			14	313	15			
			15	314	16			
			16	315	17			
			17	315	52			
			18	316	33			
			19	317	40			
			20	318	21			

76L298 307 Cdb 12-62

F. B. 2498 PG. 82 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION PLAYA DEL REY Date _____ Date _____ No. _____

Survey by RICHARDS Notes _____ 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	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					
200+00	S-10		21	319	02			
			22	320	05			
			23	321	04			
			24	322	06			
			25	322	58			
			26	323	49			
			27	324	37			
			28	325	44			
			29	326	50			
			30	327	53			
			31	328	53			
			32	329	54			
			33	331	01			
			34	332	23			
			35	333	22			
			36	334	22			
			37	335	25			
			38	336	19			
			39	337	12			
			40	338	02			
			41	339	06			
			42	339	56			
		8:32	43	340	53			

76-1-298 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.	7:30 A.M.	3-30-77
		2090			M.L.L.W.	Inshore
	252	18 14	528	1562	1x2	175+00 - S.
125+00-S			— —	— —	Painted "X" Conc. W.	Control Line
			058	1756	5.5 R. edge	Conc. W.
			13	168	6.0 R. sand	
			15	166	200.0 R. "	
			37	144	287.0 R. "	brk
			48	133	310.0 R. "	" —
			105	76	361.0 R. "	
			79	102	361.0 R. Top	of 1x2
	-21	81				Cut Inst @ 165+00
			172	-91	#1 42° 06'	Target @ 170+00
3-31-77			144	-63	#2 40° 13'	
THIS PORTION			125	-44	#3 38° 30'	
			151	-70	#4 36° 04'	
			144	-63	#5 33° 17'	
			122	-41	#6 31° 18'	
			97	-16	#7 29° 18'	
			82	-01	#8 27° 01'	
			70	11	#9 24° 57'	
			64	17	#10 23° H'	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. ____ Notes Chkd. ____ Checked ____ Survey by English Note Cero Date 3-30-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 2448 Pg. 83

F.B. 2498 Pg. 84 Job No. 030002 Division No. 11 Notes Red ____ Plotted ____ Profile

Survey of HYDRO-SURVEY Date ____ Date ____ No. ____

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

Indexed ____ Date ____ Date ____ Date ____ No. ____

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.	
		81	34	47	LINE 175+00 out [illegible] 125+00 target @ 170+00
					390.0 R moon high tide

76L298 307 Cdb 12-62

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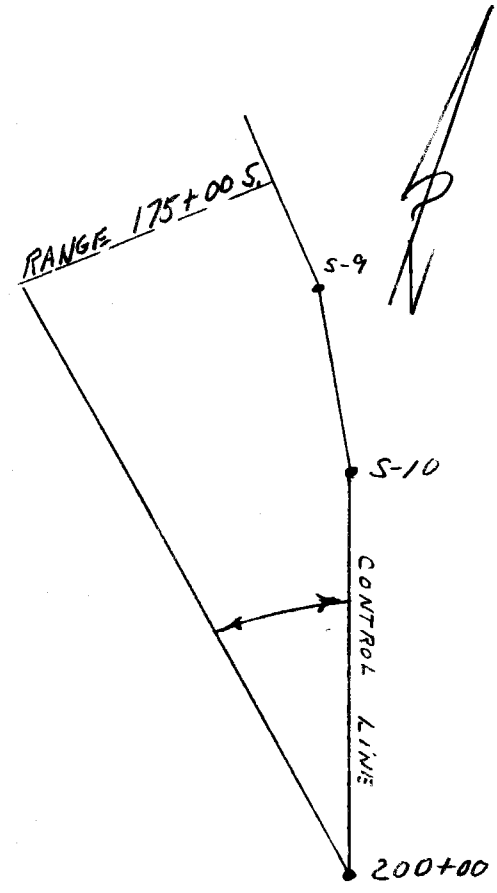
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
200+00	S-10	8:54	1	296	42			
			2	297	37			
			3	298	29			
			4	299	18			
			5	300	12			
			6	301	12			
			7	302	07			
			8	303	22			
			9	304	30			
			10	305	28			
			11	306	32			
			12	307	48			
			13	308	57			
			14	309	50			
			15	311	04			
			16	312	11			
			17	313	30			
			18	314	48			
			19	316	13			
			20	317	41			



RANGE LINE 175+00 S.

Profile Notes Red.____ Plotted____ Job No. 2300.02 Division No. 11 F.B. 2498 Pg. 85
No.____ Date____ Date____ Survey of BEACH EROSION PLAYA DEL REY
X-Sec. Notes Chkd.____ Checked____ Survey by RICHARDS Notes R.T. Date 3-31-77
No.____ Date____ Date____ Map No.____ Indexed____ Date____

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.

F. B. 2498 Pg. 86 Job No. 300.02 Division No. 11 Notes Red. Plotted Profile

Survey of BEACH EROSION PLAYA DEL REY Date Date No. X-Sec.

Survey by R.C. HARDS Notes Chkd. Checked Date No.

Indexed Notes Date Date

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					
200+00 S.	S-10		21	319	14			
			22	320	29			
			23	322	10			
			24	323	29			
			25	324	44			
			26	326	08			
			27	327	05			
			28	328	06			
			29	329	29			
			30	330	52			
			31	332	02			
			32	333	18			
			33	334	11			
			34	335	37			
			35	336	42			
			36	337	43			
		9:02	37	338	54			

76-1-298 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.	7:45 A.M.	3-30-77
		1814			M.L.L.W.	Inshore
T.P.	649	2262	201	1613	1x2	180+00 - S.
T.P.	522	2286	498	1764	Conc. wlk.	Control Line
180+00 T.P. S	339	2047	578	1708	L.&T., S-9, F.B. 2100-19 & 164.	
			362	1685	9.1 R	edge walk.
			36	1669	9.5 "	Sand
			39	1666	100' "	"
			70	1635	343' "	"
			124	81	392 "	"
			97	1008	392 "	Top of 1x2
	-29	79				
			32	47	427.0 R	mean high tide
3-31-77			61	18	#1	45° 17' cut Inst @ 175+00 Target @ 180+00 S-9
THIS PORTION			79	00	2	47° 00'
			76	03	3	49° 08'
			90	-11	4	50° 43'
			113	-34	5	52° 40'
			101	-22	6	55° 50'
			120	-41	7	57° 57'
			121	-42	8	59° 20'
			130	-51	9	61° 07'

Profile No. ____ Notes Red ____ Plotted ____
X-Sec. No. ____ Date ____ Date ____
Notes Chkd. ____ Checked ____
Date ____ Date ____
Job No. 0300.02 Division No. ____
Survey of Hydrosurvey
Survey by Engl. Note Corps Date 3-30-77
Map No. ____ Indexed ____
Date ____ Date ____
F. B. 1498 Pg. 87

F.B. 2498 PG. 88 Job No. 030002 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of HYDRO-SURVEY Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76-L298 CE 307 3-61

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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.	LINE 180+00	Cut Inst @ 175+00
		79	172	-93	10	Target @ 180+00

76L298 307 Cdb 12-62

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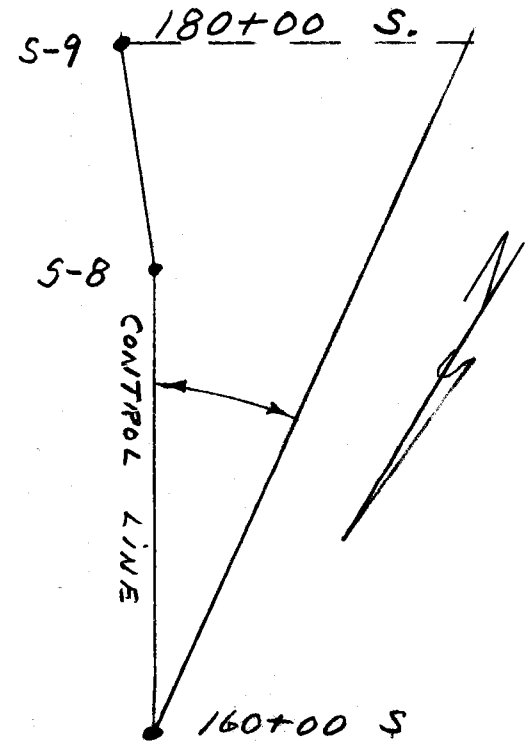
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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					
160+00 S.	S-8	9:32	1	62	19			
			2	62	04			
			3	61	36			
			4	60	57			
			5	60	27			
			6	59	48			
			7	59	11			
			8	58	19			
			9	57	28			
			10	56	47			
			11	55	44			
			12	54	55			
			13	54	06			
			14	52	55			
			15	51	57			
			16	50	56			
			17	49	52			
			18	48	33			
			19	47	30			
			20	46	09			



RANGE LINE 180+00 S.

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2498 Pg. 89
X-Sec. No. ____ Date ____ Date ____ Survey of REACH EROSION PLAYA DEL REY
Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 3-31-77
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 . 7 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. 2498 Pg. 90 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of BEACH EROSION PLAYA DEL REY Date Date No. X-Sec.

Survey by RICHARDS Notes Notes Chkd. Checked

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					
160+00	S-8		21	44	22			
			22	42	56			
			23	41	40			
			24	40	16			
			25	38	41			
			26	36	57			
			27	35	02			
			28	33	09			
			29	31	17			
			30	29	25			
			31	28	04			
			32	27	05			
			33	26	07			
			34	25	01			
			35	24	23			
			36	23	15			
		9:39	37	22	51			

76-1-298 CE 307 3-61

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.	8:00 A.M.	3-30-77
					M.L.L.W.	Inshore 185+00 -S.
185+00-S.	335	1973		16 38	L.&T., F.B. 2807-85.	Control Line
			349	16 24	6' R. edge conc.	
			35	16 2	6.5 R. Sand.	
			45	15 2	100' R. "	
			50	14 7	200' R. "	
			59	13 8	332 " "	Brk.
			117	8 0	374 " "	
			90	10 7	374 " Top of 1X2	
	-25	8 2				Cut Inst @ 175+00
			185	-10 3	#1 47° 17'	Target @ 180+00 S-9
3-31-77			150	-6 8	2 44° 40'	
THIS PORTION			148	-6 6	3 43° 23'	
			150	-6 8	4 41° 19'	
			140	-5 8	5 37° 46'	
			130	-4 8	6 35° 38'	
			95	-1 3	7 32° 00'	
			73	0 9	8 27° 57'	
			55	2 7	433.0 R	
			35	4 7	406.0 R mean high tide	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2498 Pg. 91
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes Cato Date 3-30-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

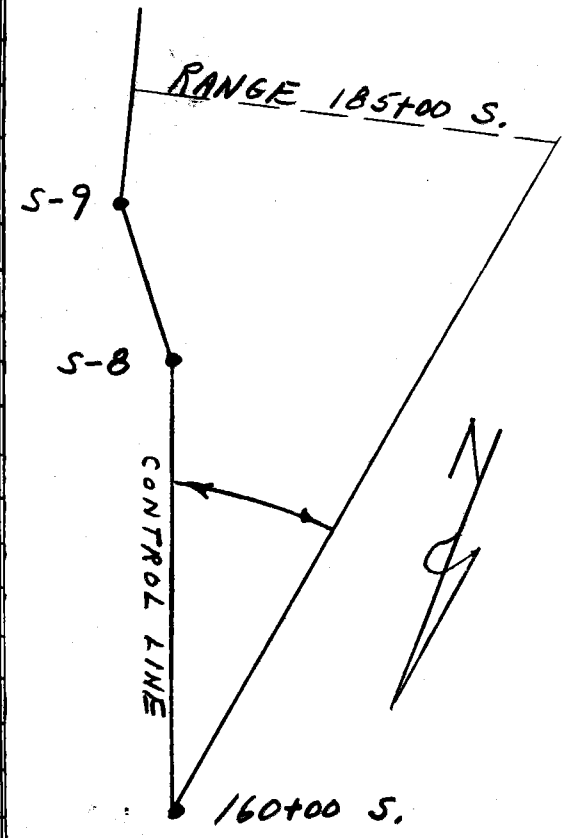
76L298 307 Cdb 12-62

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 DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
160+00	S-10	9:54	1	58	01			
			2	57	22			
			3	56	32			
			4	55	48			
			5	55	08			
			6	54	06			
			7	53	13			
			8	52	26			
			9	51	34			
			10	50	22			
			11	49	30			
			12	48	27			
			13	47	31			
			14	46	15			
			15	44	57			
			16	43	48			
			17	42	20			
			18	41	32			
			19	40	10			
			20	38	57			



RANGE LINE 185+00 S.

Profile No.____ Notes Red.____ Plotted____ Job No. 300.02 Division No. 11 F. B. 2498 PG. 93
X-Sec. No.____ Date____ Date____ Survey of BEACH EROSION PLAYA DEL REY
Notes Chkd.____ Date____ Checked____ Date____ Survey by RICHARDS Notes R.T. Date 3-31-77
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.

F. B. 2498 Pg. 94 Job No. 0300.02 Division No. 11 Notes Red. Plotted. Profile

Survey of BEACH EROSION PLAYA DEL REY 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. Deg.	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+00	S-8		21	38	09			
			22	36	43			
BROKEN		9:58	~~23~~	~~35~~	~~19~~	VOID		
STYLUS		10:12	24	34	18			
			25	33	12			
			26	32	04			
			27	31	10			
			28	30	06			
			29	28	58			
			30	27	29			
			31	26	20			
			32	25	07			
			33	24	09			
			34	23	13			
			35	22	03			
			36	21	03			
			37	19	54			
		10:15	38	19	14			

76-1-298 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.	8:15 A.M.	3-30-77
					M.L.L.W.	Inshore 190+00 - S.
190+00-S.	3 59	20 25		16 66	L.&T., FB. 2807-85.	Control Line
			387	16 38	8.6 R.	edge conc.
			38	16 4	9.0 "	Sand.
			38	16 4	100' "	"
			40	16 2	200' "	"
			63	139	329 "	" Brk.
			123	79	375 "	"
			97	105	375 "	Top of 1X2
	-21	84	37	47	401.0 R	mean high tide
			77	07	1 41° 25'	Cut Inst @ 185+00 Target @ 190+00
3-31-77			99	-15	2 43° 08'	
THIS PORTION			120	-31	3 45° 24'	
			130	-41	4 48° 16'	
			119	-35	5 50° 55'	
			107	-23	6 53° 14'	
			113	-29	7 55° 01'	
			132	-48	8 56° 43'	
			150	-66	9 57° 55'	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____
No. ____ X-Sec. ____ Date ____ Date ____ Survey of Hydrosurvey
No. ____ Date ____ Notes Chkd. ____ Checked ____ Survey by English Notes Coro Date 3-30-77
Date ____ Map No. ____ Indexed ____ Date ____

F.B. 2498 Pg. 95

F.B. 2498 Pg. 96 | Job No. 030002 Division No. 11 Notes Red ____ Plotted ____ Profile

Survey of HYDRO-SURVEY Date ____ Date ____ No. ____

Survey by RICHARDS 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.	
		84	172	-88	LINE 190+00 Cut Just @ 185+00 Target @ 190+00
					10 58° 02'

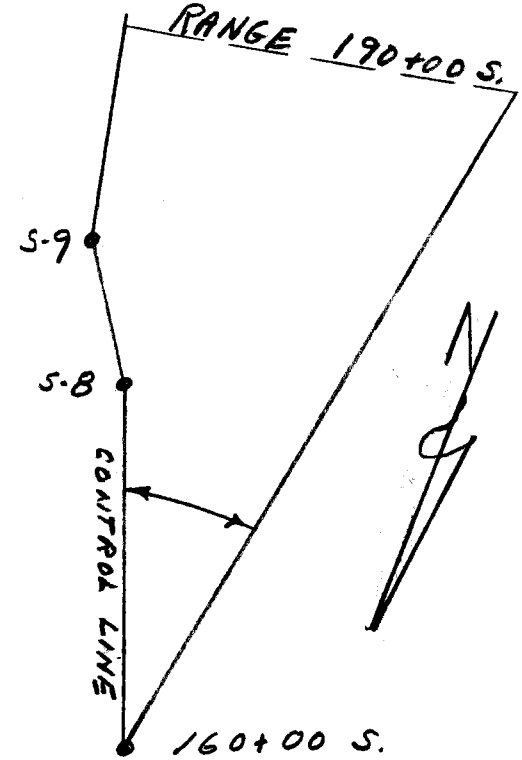
76L298 307 Cdb 12-62

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+00	S-8	10:31	1	54	01			
			2	53	21			
			3	52	15			
			4	51	29			
			5	50	47			
			6	49	52			
			7	48	59			
			8	48	19			
			9	47	34			
			10	46	59			
			11	46	14			
			12	45	38			
			13	44	56			
			14	44	06			
			15	43	27			
			16	42	33			
			17	41	51			
			18	40	58			
			19	40	17			
			20	39	12			



RANGE LINE 190+00 S.

Profile Notes Red. Plotted Job No. 0300.02 Division No. 11 F.B. 2498 Pg. 97
No. Date Date Survey of BEACH EROSION PLAYA DEL REY
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes R.T. Date 3-31-77
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+00	S-B		21	38	30			
			22	37	31			
			23	36	29			
			24	35	20			
			25	34	24			
			26	33	29			
			27	32	33			
			28	31	25			
			29	30	04			
			30	29	01			
			31	27	41			
			32	26	28			
			33	25	06			
			34	23	57			
			35	22	48			
			36	22	01			
			37	21	10			
			38	20	10			
			39	19	16			
			40	18	18			
			41	17	06			
			42	16	02			
		10'38	43	15	22			

F. B. 2498 PG. 98

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

Survey of BEACH EROSION PLAYA DEL REY Date Date No.

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

Indexed Date Date No.

76-1-298 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.	8:30 A.M.	3-30-77
					M.L.L.W.	Inshore 195+00-S.
195+00-S	261	1917		1656	L.8 T., F.B. 2807-85.	Control Line
			284	16.33	7.5 R	edge conc.
			29	162	8' "	Sand
			34	158	100' "	"
			39	153	200' "	"
			54	138	318 "	" brk.
			116	76	361 "	"
			90	102	361 "	Top of 1X2
						Cut Inst @ 185+00
	-23	79	176	-97	1 43° 00'	Target @ 190+00
			158	-79	2 41° 37'	
3-31-77			148	-69	3 40° 33'	
THIS PORTION			131	-52	4 39° 48'	
			116	-37	5 38° 37'	
			112	-33	6 37° 18'	
			124	-45	7 30° 03'	
			113	-34	8 27° 37'	
			108	-29	9 26° 06'	
			88	-09	10 25° 30'	

Profile Notes Red ____ Plotted ____
No. ____ Date ____ Date ____ Job No. 03300.02 Division No. ____
X-Sec. ____ Notes Chkd. ____ Checked ____ Survey of Hydrosurvey
No. ____ Date ____ Date ____ Map No. ____ Survey by English Note Lara Date 3-30-77
Indexed ____ Date ____

F. B. 2498 Pg. 99

F.B. 2498 Pg. 100 | 030002 Job No. Division No. 11 Notes Red Plotted Profile

Survey of HYDRO-SURVEY Date Date No.

Survey by RICHARDS 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.	
		79	72	47	LINE 195+00 Out Inst. @ 185+00 Target @ 190+00
					389.0 R mean high tide

76L298 307 Cdb 12-62

PLEASE RETURN TO

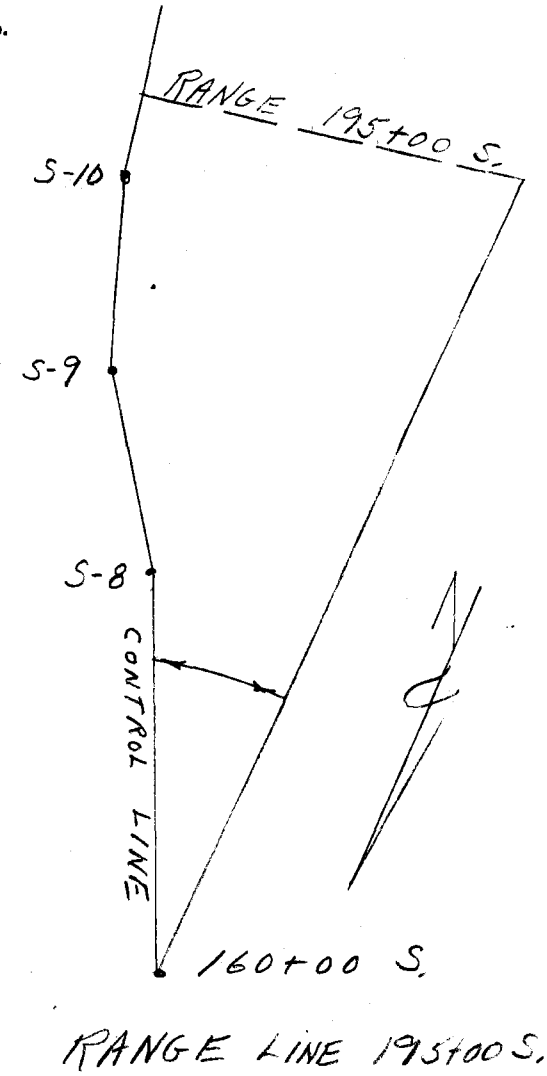
LOS ANGELES COUNTY SURVEYOR

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+00	S-8	10:56	1	51	37			
			2	50	57			
			3	49	59			
			4	48	47			
			5	47	42			
			6	46	41			
			7	45	14			
			8	43	41			
			9	42	12			
			10	40	38			
			11	39	12			
			12	37	42			
			13	36	11			
			14	34	51			
			15	33	06			
			16	31	33			
			17	29	47			
			18	28	22			
			19	26	27			
			20	24	58			



Profile Notes Red. Plotted Job No. 0360-02 Division No. 11 F.B. 2498 Pg. 101

No. Date Date Survey of REACH EROSION PLAYA DEL REY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes R.T. Date 3-31-77

No. Date Date Map No. Indexed Date

F. B. 2498 PG. 102 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION PLAYA DEL REY Date _____ Date _____ No. _____

Survey by RICHARDS Notes _____ 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	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+00	S-8		21	23	42			
			22	22	22			
			23	21	19			
			24	19	50			
			25	19	36			
			26	17	38			
			27	16	41			
			28	15	48			
			29	15	06			
			30	14	29			
		11:04	31	13	47			

76-1-298 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.	8:40 A.M.	3-30-77
					M.L.L.W.	Inshore 200+00 -S.
200+00 -S.	302	19 39		16 37	L.& T., F.B. 2807-85.	Control Line
			324	16 15	7.4 R.	edge conc.
			33	16 1	8 "	Sand
			33	16 1	100' "	"
			41	15 3	200' "	"
			66	12 8	297 "	" Brk.
			120	7 4	353 "	"
			92	10 2	353 "	Top of 1X2
	-29	73				
			26	47	390.0 R	mean high tide
3-31-77			66	07	1 42° 56'	cut last @ 195+00 Target @ 200+00
THIS PORTION			85	-12	2 45° 30'	
			102	-29	3 47° 03'	
			114	-41	4 49° 17'	
			140	-67	5 52° 45'	
			145	-72	6 55° 26'	
			112	-39	7 58° 23'	
			144	-71	8 60° 10'	
			154	-81	9 61° 18'	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2498 Pg. 103
X-Sec. No. ____ Date ____ Date ____ Survey of Hydro Survey
Notes Chkd. ____ Checked ____ Survey by English Note Card Date 3-30-77
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 2498 Pg. 104 | 030002 Job No. ____ Division No. 11 Notes Red ____ Plotted ____ Profile

Survey of HYDRO-SURVEY Date ____ Date ____ No. ____

Survey by RICHARDS 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.	
		73	190	-117	LINE 200+00 Cut Inst @ 195+00 Target @ 200+00
					10 C2°59'

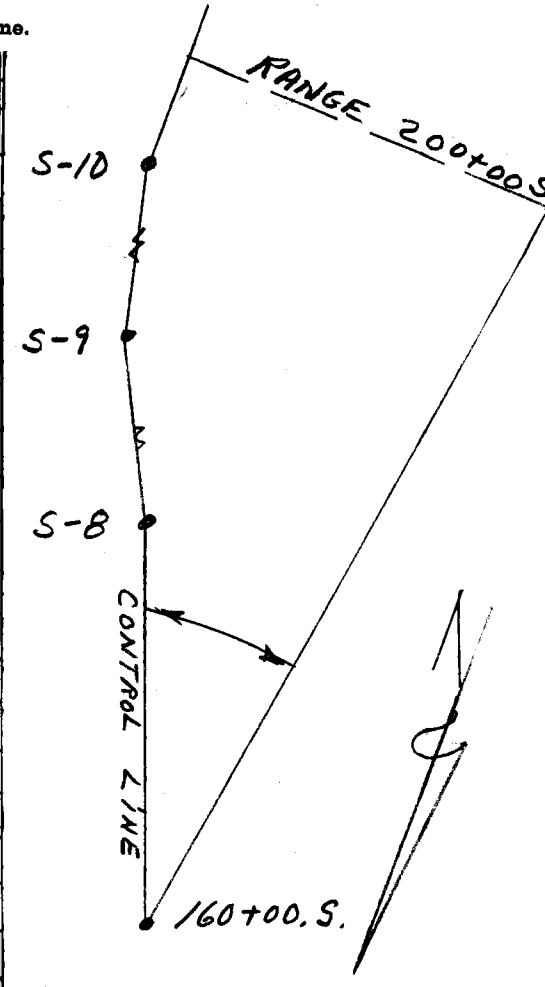
76L298 307 Cdb 12-62

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+00	S-8	11:18	1	47	45			
			2	46	28			
			3	45	02			
			4	44	04			
			5	43	09			
			6	41	41			
			7	40	28			
			8	39	13			
			9	38	08			
			10	36	58			
			11	35	43			
			12	34	29			
			13	33	19			
			14	32	06			
			15	30	48			
			16	29	29			
			17	28	19			
			18	26	57			
			19	25	39			
			20	24	19			



RANGE LINE 200+00 S.

Profile Notes Red. Plotted Job No. 0300.02 Division No. 11 F.B. 2498 Pg. 105
No. Date Date Survey of BEACH EROSION PLAYA DEL REY
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes R.T. Date 3-31-77
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+00	S-8		21	23	06			
			22	21	44			
			23	20	38			
			24	19	37			
			25	18	36			
			26	17	32			
			27	16	27			
			28	15	39			
			29	15	14			
			30	14	34			
		11:25	31	13	39			

F. B. 2498 Pg. 106

Job No. 2300.02 Division No. 11

Survey of BEACH EROSION PLAYA DEL REY

Survey by RICHARDS

Indexed ____ Date ____ Notes ____

Notes Chkd. ____ Date ____

Checked ____ Date ____

Plotted ____ Date ____

Notes Red. ____ Date ____

Profile No. ____ X-Sec. No. ____

76-1-296 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.	9 A.M.	3-30-77
					M.L.L.W.	Inshore 205+00 -S.
205+00-S.	3 38	19 56		16 18	L.&T., F.B. 2807-85.	Control Line.
			3 52	16 04	7.7 R. edge conc.	
			3 5	16 1	8' " Sand	
			4 6	15 0	100' " "	
			5 0	14 6	200' " "	
			5 6	14 0	287 " "	
			8 0	11 6	298 " "	Brk.
			12 7	5 9	368 " "	
			10 1	9 5	368 " Top of 1X2	
	-2 7	6 8	15 7	-8 9	1 40° 32'	Cut Inst @ 195+00 Target @ 200+00
			12 0	-5 2	2 38° 08'	
3-31-77			9 7	-2 9	3 35° 35'	
THIS PORTION			7 7	-0 9	4 30° 31'	
			7 3	-0 5	5 28° 43'	
			8 0	-1 2	6 26° 31'	
			6 8	0 0	7 24° 50'	
			2 1	4 7	388.0 R mean high tide.	

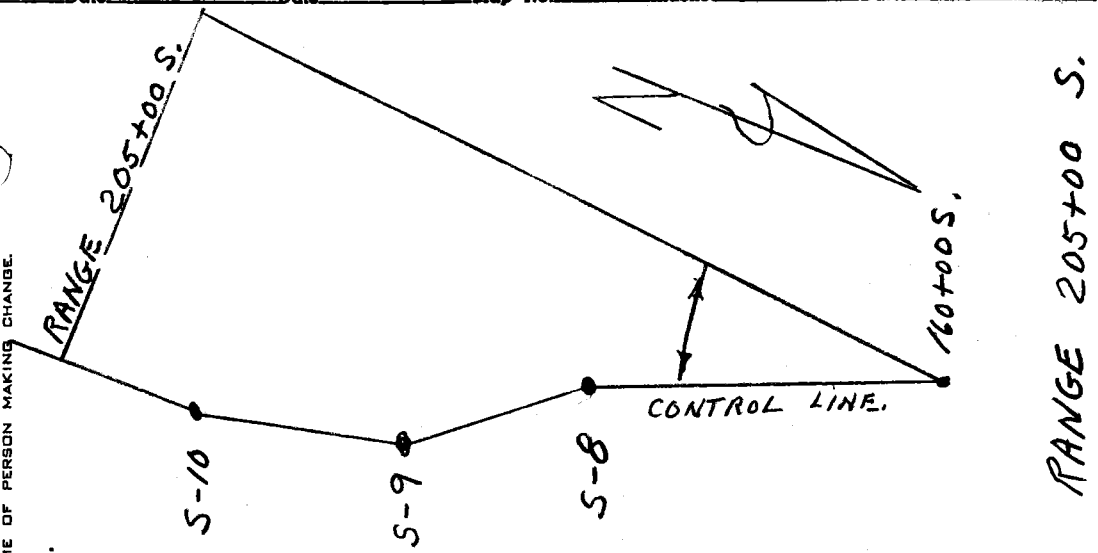
Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2498 Pg. 107
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes Caro Date 3-30-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 0300.02 Division No. 11 F. B. 2498 Pg. 109

X-Sec. No. _____ Date _____ Date _____ Survey of BEACH EROSION PLAYA DEL REY

Notes Chkd. _____ Checked _____ Survey by RICHARDS Notes R. T. Date 3-31-77

Date _____ Date _____ Map No. _____ Indexed _____ Date _____



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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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+00	S-8	11:41	1	44	28			
			2	43	31			
			3	42	36			
			4	41	51			
			5	41	01			
			6	40	25			
			7	39	35			
			8	38	31			
			9	37	49			
			10	36	55			
			11	36	13			
			12	35	38			
			13	34	43			
			14	33	48			
			15	32	39			
			16	31	37			
			17	30	32			
			18	29	28			
			19	28	26			
			20	27	18			

76L298 307 Cdb 12-62

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.

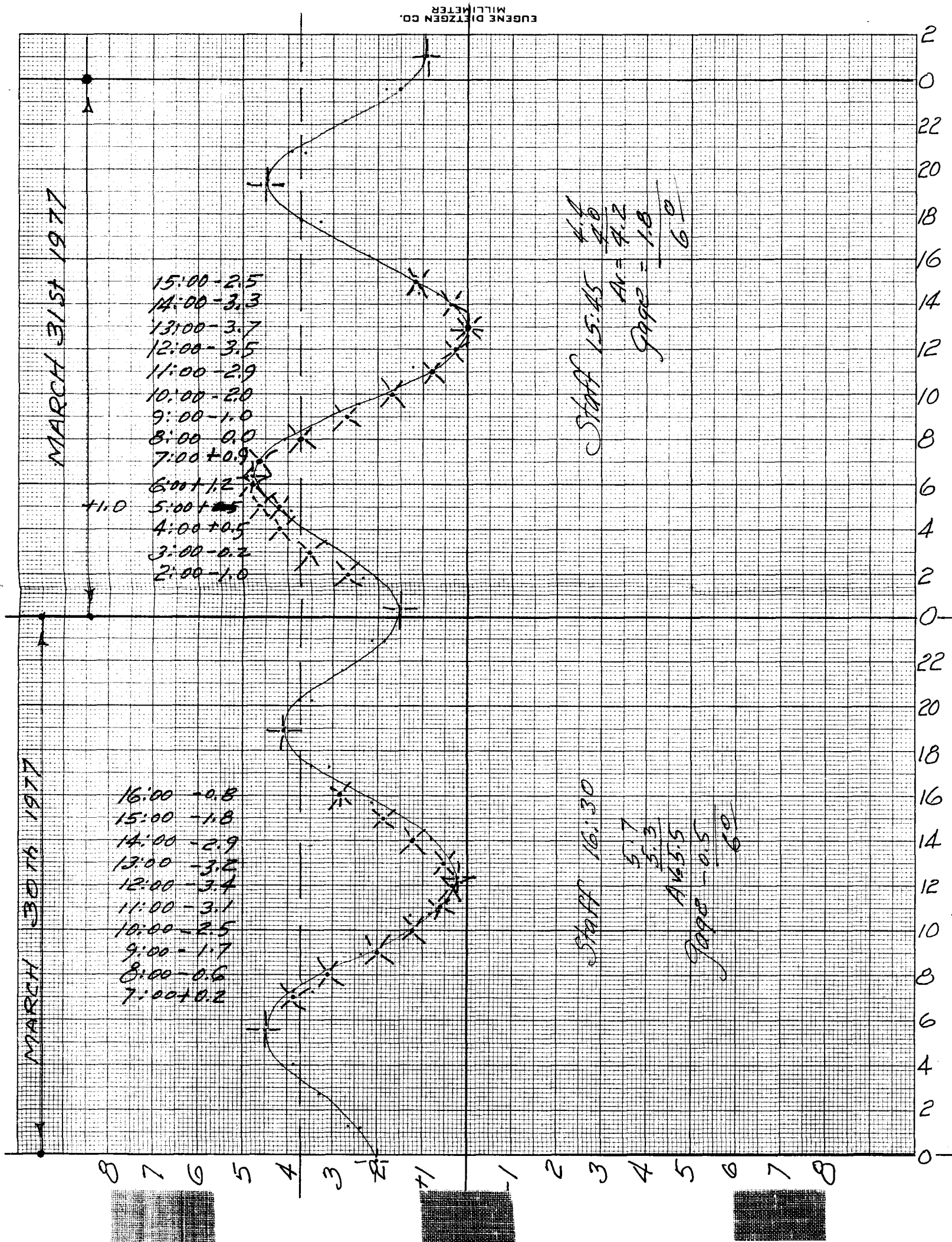
INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
160+00	S-8		21	26	02			
			22	24	45			
			23	23	23			
			24	22	21			
			25	21	11			
			26	20	14			
			27	18	48			
			28	17	40			
			29	16	26			
			30	15	38			
			31	14	58			
			32	14	17			
			33	13	40			
			34	13	06			
		11:49	35	12	35			

F. B. 2498 Pg. 110 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of BEACH EROSION PLAYA DEL REY Date Date No.

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

Indexed Date Date Date No.


EUGENE DIETZGEN CO.
MILLIMETER
MARCH 31st 1977
15:00 -2.5
14:00 -3.3
13:00 -3.7
12:00 -3.5
11:00 -2.9
10:00 -2.0
9:00 -1.0
8:00 0.0
7:00 +0.9
6:00 +1.2
+1.0 5:00 +1.5
4:00 +0.5
3:00 -0.2
2:00 -1.0
Start 15:45
Gage = 1.8
MARCH 30th 1977
16:00 -0.8
15:00 -1.8
14:00 -2.9
13:00 -3.2
12:00 -3.4
11:00 -3.1
10:00 -2.5
9:00 -1.7
8:00 -0.6
7:00 +0.2
Start 16:30
Gage -0.5

76-I-298 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.	7:45 A.M.	4-01-77
					M.L.L.W.	Inshore
						210+00 -S.
210+00-S	291	1829		1538	"X", F.B. 2807-85	Control Line
			293	1536	8.0 R	edge conc.
			30	1533	9.0 "	Sand.
			39	1444	100' "	"
			55	1338	200' "	"
			53	1330	326 "	Sand Brk.
			84	999	346 "	"
			58	1255	349 "	Top of 1X2
	-29	96				
			49	47	385.0 R mean	high tide
			73	23	#1 39° 38'	cut Inst @ 205+00
			88	08	2 42° 03'	Target @ 210+00
			172	-16	3 45° 03'	
			126	-30	4 49° 50'	
			160	-64	5 53° 36'	
			172	-96	6 57° 04'	
			170	-74	7 57° 41'	
			145	-49	8 59° 30'	
			164	-68	9 60° 32'	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. ____ Notes Chkd. ____ Checked ____ Survey by English Notes Lara Date 4-1-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 2807 Pg. 113

F.B. 2498 Pg. 114 Job No. 030002 Division No. 11 Notes Red ____ Plotted ____ Profile

Survey of HYDRO-SURVEY Date ____ Date ____ No. ____

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

Indexed ____ Date ____ Date ____ Date ____ No. ____

76-L298 CE 307 3-61

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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.	
		9.6	17.8	-8.2	LINE 210+00
					10 61° 12'
					cut Inst @ 205+00 Targht @ 210+00

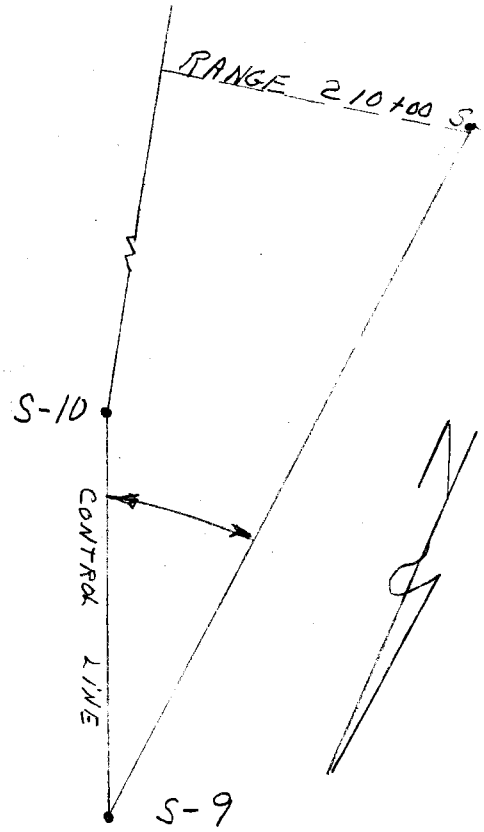
76L298 307 Cdb 12-62

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 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					
S-9	S-10	7:55	1	51	21			
			2	50	30			
			3	49	43			
			4	48	55			
			5	48	02			
			6	47	19			
			7	46	16			
			8	45	21			
			9	44	32			
			10	43	43			
			11	42	37			
			12	41	32			
			13	40	19			
			14	39	16			
			15	38	02			
			16	36	49			
			17	35	43			
			18	34	36			
			19	33	18			
			20	32	05			



RANGE LINE 210+00S.

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2498 Pg. 115
No. ____ Date ____ Date ____ Survey of BEACH EROSION PLAYA DEL REY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 4-1-77
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					
S-9	S-10		21	30	43			
			22	29	22			
			23	28	03			
			24	26	37			
			25	25	29			
			26	24	32			
			27	23	44			
			28	22	55			
			29	22	14			
			30	21	34			
			31	20	39			
			32	20	05			
		8:02	33	19	01			

F. B. 2498 Pg. 116 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of BEACH EROSION PLAYA DEL REY Date Date No.

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

Indexed Date Date No.

76-L 298 CE 307 3-61

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.	8:00 A.M.	4-01-77
					M.L.L.W.	Inshore
						215+00 -S.
215+00 -S.	303	18 39		1536	L.&T., F.B. 2807-85.	Control Line
			3 20	15 19	8.5 R. edge	conc.
			37	14 7	9' "	Sand
			48	13 6	100' "	"
			55	12 9	200' "	"
			48	13 6	330 "	" Brk.
			63	12 1	336 "	" "
			83	10 1	363 "	"
			63	12 1	363 "	Top of 1X2
	-17	104	29	75	T.P.	
	14	89			cut Inst @ 225+00	Target @ 220+00
			185	-96	? #1 313° 23'	(46° 37')
			185	-96	? 2 317° 04'	(42° 56')
			167	-68	3 319° 02'	(40° 58')
			140	-51	4 321° 42'	(38° 18')
			120	-31	5 323° 42'	(36° 18')
			97	-08	6 327° 10'	(32° 50')
			95	-06	7 330° 50'	(29° 10')
			94	-05	8 333° 27	(26° 33')

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes Caro Date 4-1-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2498 117

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.	LINE 215+00 CDF Inst @ 225+00 Target @ 220+00
		89	83	06	#9 335°19' (24°41')
			42	47	#18.0 R moon high tide

F. 249 Pg. 118 | Job No. 030002 Division No. 11 Notes Red Plotted Profile
Survey of HYDRO-SURVEY Date Date No.
Survey by RICHARDS Notes Notes Chkd. Checked X-Sec.
Indexed Date Date Date No.

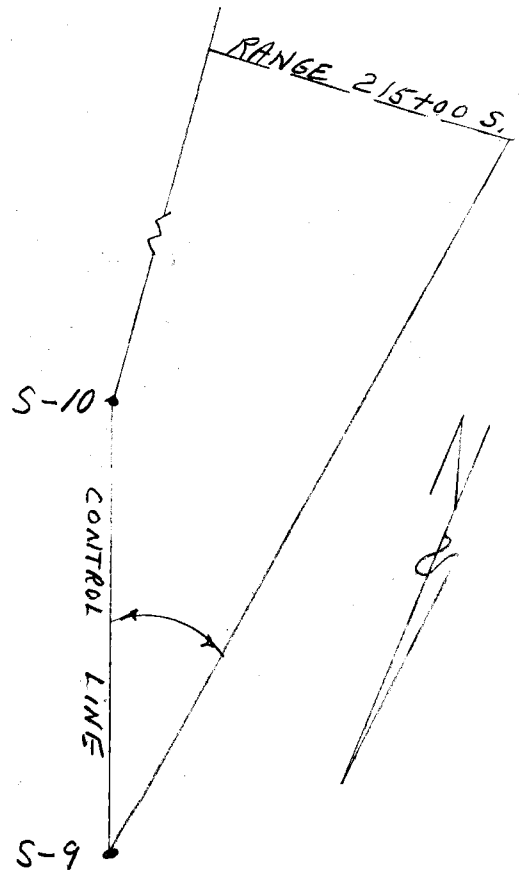
76L298 307 Cdb 12-62

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	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					
S-9	S-10	8:21	1	45	53			
			2	44	54			
			3	43	57			
			4	43	11			
			5	42	24			
			6	41	28			
			7	40	29			
			8	39	45			
			9	38	52			
			10	37	53			
			11	36	40			
			12	35	44			
			13	34	34			
			14	33	33			
			15	32	27			
			16	31	20			
			17	30	16			
			18	29	10			
			19	27	59			
			20	26	41			



RANGE LINE 215+00 S.

Profile Notes Red. ____ Plotted ____ Job No. 030002 Division No. 11 F. B. 2498 Pg. 119
No. ____ Date ____ Date ____ Survey of BEACH EROSION PLAYA DEL REY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 4-1-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2498 PG. 120 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION PLAYA DEL REY Date _____ Date _____ No. _____

Survey by RICHARDS Notes _____ 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.
S-9	S-10		21	25	26			
			22	24	29			
			23	23	23			
			24	22	01			
			25	20	57			
			26	19	39			
			27	18	48			
			28	17	53			
			29	16	53			
		8:28	30	15	57			

76-1-298 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.	8:45 A.M.	4-1-77
					M.L.L.W.	Inshore 220+00 -S.
220+00-S	343	19 62		16 19	L.&T., F.B. 2807-85.	Control Line
			3 56	16 06	6' R.	edge conc.
			36	16 0	7' "	Sand
			35	16 1	100' "	"
			53	14 3	200' "	"
			67	12 9	300' "	"
			74	12 2	372' "	" Brk.
			101	9 5	375 "	" "
			83	11 3	375 "	Top of 1X2
	-25	8 8			Cut Inst @ 225+00	Target @ 220+00
			41	47	40 6.0 R	mean high tide
			72	16	#1	318° 25' (41° 35')
			88	00	2	316° 12' (43° 48')
			118	-30	3	314° 19' (45° 41')
			131	-43	4	311° 39' (48° 21')
			122	-34	5	307° 24' (52° 36')
			133	-45	6	303° 35' (56° 25')
			155	-67	7	299° 45' (60° 15')

Profile No. X-Sec. No. Notes Red Date Notes Chkd. Date Plotted Date Checked Date Job No. Division No. 0300.02 Survey of Hydrosurvey Survey by English Notes Card Map No. Indexed Date 4-1-77 Date F.B. 2498 Pg. 121

F.B. 2498 Pg. 122 Job No. 030002 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of HYDRO-SURVEY Date _____ Date _____ No. _____

Survey by RICHARDS 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.	
		88	185	-97	LINE 220+00 Out Inst @ 225+00 Target @ 220+00
					#8 295° 00 (65° 00)

76L298 307 Cdb 12-62

PLEASE RETURN TO

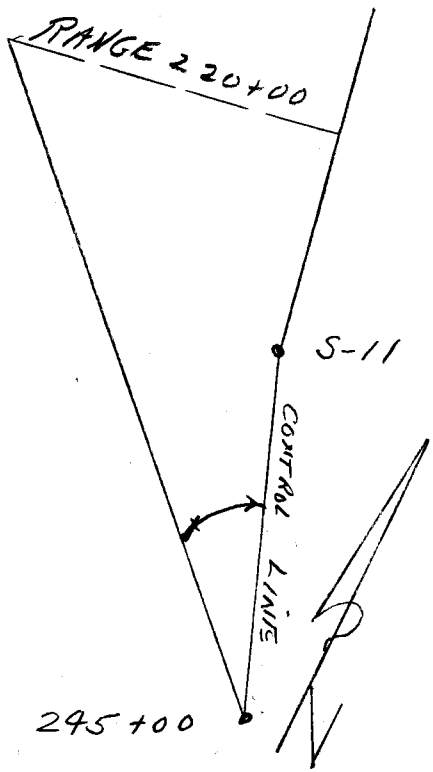
LOS ANGELES COUNTY SURVEYOR

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.	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					
245+00	S-11	9:01	1	312	07			
			2	312	54			
			3	313	48			
			4	314	35			
			5	315	12			
			6	315	56			
			7	316	42			
			8	317	34			
			9	318	41			
			10	319	42			
			11	320	36			
			12	321	35			
			13	322	31			
			14	323	40			
			15	324	53			
			16	325	49			
			17	327	06			
			18	328	23			
			19	329	38			
			20	330	43			



RANGE LINE 220+00 S.

Profile Notes Red.____ Plotted____ Job No. 0300.02 Division No. 11 F.B. 2498 Pg. 123

No.____ Date____ Date____ Survey of BEACH EROSION PLAYA DEL REY

X-Sec. Notes Chkd.____ Checked____ Survey by RICHARDS Notes [illegible] Date 4-1-77

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.

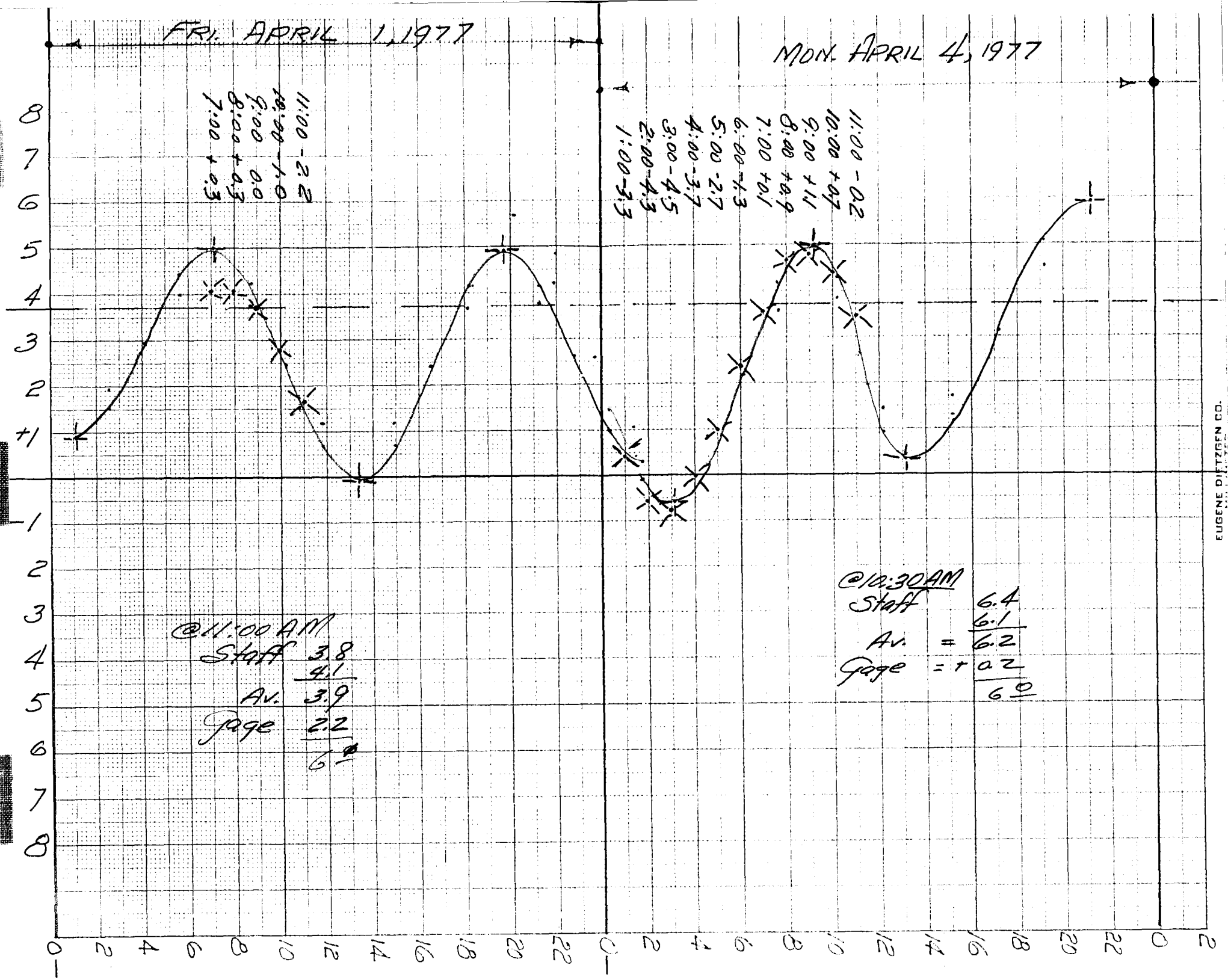
Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
245700	S-11		21	331	57			
			22	333	19			
			23	334	52			
			24	336	13			
			25	337	23			
			26	338	51			
			27	340	02			
			28	341	08			
		9:08	29	341	55			

F. B. 2498 PG. 124 Job No. 0300.02 Division No. 11 Notes Red. Plotted

Survey of BEACH EROSION PLAYA DEL REY Date Date X-Sec.

Survey by RICHARDS Notes Notes Chkd. Checked No.

Indexed Date Date Date


FRI. APRIL 1, 1977
MON. APRIL 4, 1977
@11:00 AM
Staff 3.8
4.1
Av. 3.9
Gage 2.2
6.1
@12:30AM
Staff 6.4
6.1
Av. = 6.2
Gage = +0.2
6.4

76-1-298 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.	7:20 A.M.	4-4-77
					M.L.L.W.	Inshore 225+00 -S.
225+00-S.	376	20 35		16 59	L.&T., F.B. 2807-85.	Control Line
			3 90	16 45	5.5 R.	edge conc.
			4 5	15 9	6' "	Sand
			4 9	15 5	100' "	"
			5 2	15 2	200' "	"
			6 8	13 6	300' "	"
			8 2	12 2	370' "	" Brk.
			13 2	7 2	402' "	"
			10 6	9 8	402' "	Top of 1X2
	-19	79				
			3 2	47	424.0 R	mean high tide
			5 0	29	#1 40° 45'	Cut Inst @ 220+00 Target @ 225+00
			6 6	1 3	2 43° 19'	
			9 4	-1 5	3 47° 14'	
			10 8	-2 9	4 49° 47'	
			12 0	-4 1	5 52° 41'	
			13 1	-5 2	6 55° 08'	
			13 2	-5 3	7 55° 58'	
			14 1	-6 2	8 57° 58'	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2498 Pg. 127
Date ____ Date ____ Survey of Hydrosurvey
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by English Caro Note ____ Date 4-4-77
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2998 Pg. 128 | 030002 Job No. Division No. 11 Notes Red Plotted Profile

Survey of HYDRO-SURVEY Date Date No.

Survey by RICHARDS 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.

Do not extend notes this side of this line.

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

STATION	B. S.	H. I.	F. S.	ELEV.	
		79	140	-6.1	#9 59° 14'
			166	-8.7	10 60° 33'
			195	-11.6	11 61° 38'
					12
LINE 225+00					
out inst @ 220+00 target @ 225+00					

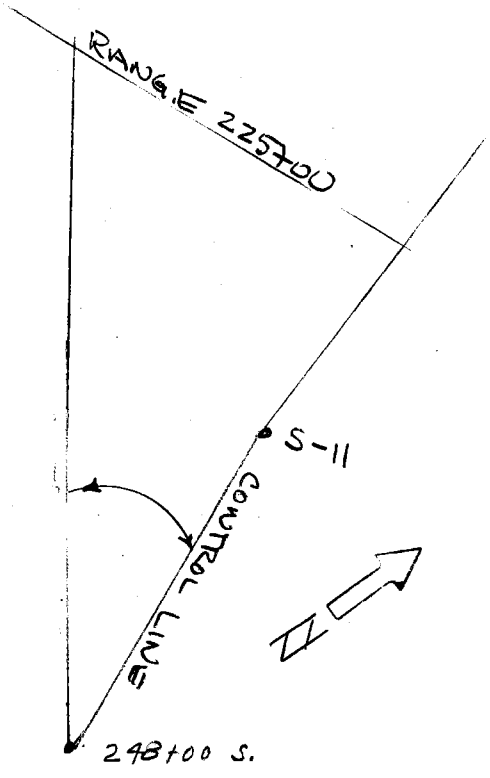
76L298 307 Cdb 12-62

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.	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					
248+00	S-11	8:55	1	310	10			
			2	311	15			
			3	312	12			
			4	312	39			
			5	313	23			
			6	314	14			
			7	315	02			
			8	316	04			
			9	316	51			
			10	317	52			
			11	319	10			
			12	320	18			
			13	321	21			
			14	322	32			
			15	323	44			
			16	324	59			
			17	326	03			
			18	327	18			
			19	328	37			
			20	329	52			



RANGE 225+00 S.

Profile Notes Red.____ Plotted____ Job No. 0300.02 Division No. 11 F.B. 2498 Pg. 129
No.____ Date____ Date____ Survey of BEACH EROSION PLAYA DEL REY
X-Sec. Notes Chkd.____ Checked____ Survey by RICHARDS Notes R.T. Date 4-4-77
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. 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					
295+00	S-11		21	330	55			
			22	332	00			
			23	333	19			
			24	334	34			
			25	335	35			
			26	336	43			
			27	337	55			
			28	339	00			
			29	340	07			
			30	340	56			
			31	342	14			
		9:02	32	343	23			

F. B. 2498 Pg. 130 Job No. 0300.02 Division No. 11

Survey of BEACH EROSION PLAYA DEL REY

Survey by RICHARDS

Indexed

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date Notes Chkd. Date

Notes Date

76-1-298 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.	7:40 A.M.	4-4-77
					M.L.L.W.	Inshore 230+00 -S.
230+00-S	327	1973		16 46	L.&T., F.B. 2807-85.	Control Line
			337	16 36	3.5 R.	edge conc.
			40	15 7	4.0 R	Sand
			37	16 0	100' R.	"
			52	14 5	200' "	"
			73	12 4	300' "	"
			73	12 4	372 "	" Brk.
			90	10 7	374 "	" Brk.
			124	7 3	395 "	"
			99	9 8	395 "	Top of 1X2
						cut Inst @ 220+00
	-18	80	170	-90	1 41° 58'	Target @ 225+00
			150	-70	2 40° 28'	
			162	-82	3 38° 51'	
			155	-75	4 37° 22'	
			144	-64	5 35° 25'	
			124	-44	6 33° 19'	
			113	-33	7 31° 05'	
			102	-22	8 28° 40'	

Profile Notes Red ____ Plotted ____ Job No. 2300.02 Division No. ____
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Note Carb Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2498 Pg. 131

F.B. 2498 Pg. 132 | 030002 Job No. ____ Division No. 11 Notes Red ____ Plotted ____ Profile

Survey of HYDRO-SURVEY Date ____ Date ____ No. ____

Survey by RICHARDS 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.	
		80	102	-22	9 26° 12'
			80	00	10 24° 39'
			55	25	11 23° 21'
			33	47	413.0 R mean high tide

LINE 270+00 cut line @ 220+00 target @ 225+00

76L298 307 Cdb 12-62

PLEASE RETURN TO

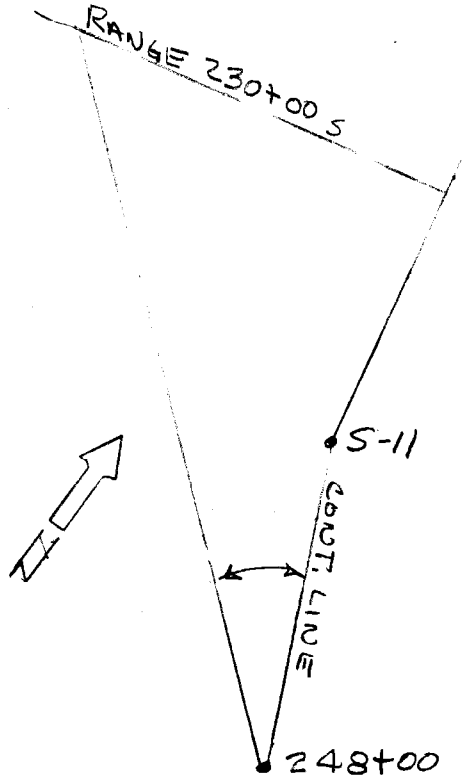
LOS ANGELES COUNTY SURVEYOR

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 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					
248+00 S	S-11	9:14	1	304	38			
			2	305	10			
			3	305	45			
			4	306	31			
			5	307	36			
			6	308	33			
			7	309	46			
			8	310	58			
			9	312	03			
			10	313	07			
			11	314	38			
			12	315	40			
			13	317	17			
			14	318	16			
			15	319	19			
			16	320	58			
			17	322	37			
			18	323	48			
			19	325	00			
			20	326	26			



RANGE LINE 230+00

Profile Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 11 F.B. 2498 Pg. 133

No. ____ Date ____ Date ____ Survey of BEACH EROSION PLAYA DEL REY

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 4-4-77

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

F. B. 2498 PG. 134 | Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION PLAYA DEL REY Date _____ Date _____ No. _____

Survey by RICHARDS Notes R.T. 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.
248+00	S-11		21	327	55			
			22	329	41			
			23	331	32			
			24	332	48			
			25	334	05			
			26	335	11			
		9:20	27	337	27			

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

76-1 298 CE 307 3-61

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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.	8 A.M.	4-4-77
					M.L.L.W.	Inshore 235+00 -S.
235+00-S	2 68	19 32		16 64	L.&T., F.B. 2807-85.	Control Line
			2 81	16 51	4' R. edge conc.	
			3 0	16 3	4.5 " Sand.	
			2 8	16 5	100' " "	
			3 7	15 6	200' " "	
			5 1	14 2	300' " "	
			7 1	12 2	400' " "	
			6 8	12 5	415' " "	Brk.
			11 8	7 5	441' " "	
			9 0	10 3	441' "	Top of 1X2
	-29	7 4	2 7	47	466.0 R mean high tide	
			51	23	1 40° 27'	Inst @ 230+00 Target @ 231+00 5-11
			72	02	2 41° 38'	
			80	-06	3 43° 19'	
			85	-11	4 46° 12'	
			90	-16	5 48° 42'	
			100	-26	6 50° 20'	
			101	-27	7 52° 16'	

Profile Notes Red ____ Plotted ____ Job No. 8300.02 Division No. ____
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. ____ Notes Chkd. ____ Checked ____ Survey by Engineer Note Carb Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2498 Pg. 135

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

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F.B. 2498 Pg. 136 | Job No. 030002 | Division No. 11 | Notes Red ____ Date ____ | Plotted ____ Date ____ | Profile No. ____
Survey of HYDRO-SURVEY | Date ____ | Notes Chkd. ____ Date ____ | Checked ____ Date ____ | ~~X-Sec.~~ No. ____
Survey by RICHARDS Notes ____ Date ____
Indexed ____

STATION	B.S.	H.I.	F.S.	ELEV.	LINE 235+00		cut Inst @ 230+00 Target @ 231+00
		74	117	-43	8	53° 47'	
			148	-74	9	55° 27'	
			160	-86	10	56° 42'	
			180	-106	11	57° 37'	
					12		

76L298 307 Cdb 12-62

PLEASE RETURN TO
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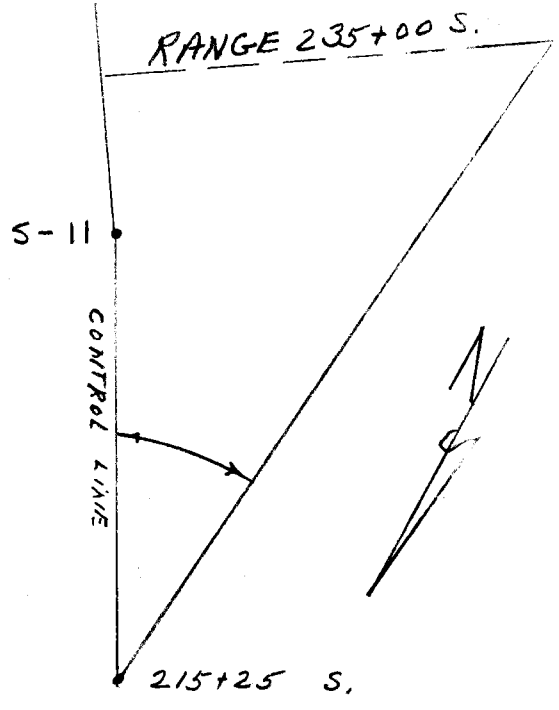
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
215+25 S	S-11	10:01	1	56	01			
			2	55	18			
			3	54	05			
			4	53	36			
			5	52	49			
			6	51	59			
			7	51	13			
			8	50	20			
			9	49	27			
			10	48	37			
			11	47	52			
			12	47	06			
			13	45	59			
			14	45	04			
			15	44	03			
			16	42	51			
			17	41	41			
			18	40	40			
			19	39	33			
			20	38	19			



RANGE LINE 235+00 S.

Profile Notes Red. ____ Plotted ____ Job No. 0300 02 Division No. 11 F.B. 2498 PG. 137
No. ____ Date ____ Date ____ Survey of BEACH EROSION PLAYA DEL REY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 4-4-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2498 PG. 138 | Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION PLAYA DEL REY Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

761.298 307 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.	Range Line Min.	Card No.
215725	5-11		21	36	50			
			22	35	11			
			23	33	45			
			24	32	14			
			25	30	50			
			26	29	53			
			27	28	36			
			28	27	46			
			29	26	32			
			30	25	22			
			31	24	02			
			32	23	12			
			33	22	08			
		10:08	34	21	05			

76-L-298 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.	8:15 A.M.	4-4-77
					M.L.L.W.	Inshore 240+00 -S.
240+00-S.	342	2021		1679	L.& T., F.B. 2807-86.	Control Line
			349	1672	4.5 R edge conc.	
			35	167	5 " Sand	
			39	163	100' " "	
			56	146	200' " "	
			74	128	300' " "	
			82	120	400' " "	
			81	121	424 " "	Brk.
			122	80	455 " "	
			96	106	455 "	Top of 1X2
	-22	84				at Inst. Inst. 230+00
			180	-96	1 39° 29'	Target @ 231+00 S11
			163	-79	2 38° 06'	
			148	-64	3 36° 19'	
			127	-43	4 34° 28'	
			104	-20	5 31° 51'	
			115	-31	6 28° 49'	
			105	-21	7 27° 13'	
			117	-33	8 missed. to many people on line.	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2498 Pg. 139
X-Sec. No. ____ Date ____ Date ____ Survey of Hydrosurvey
Notes Chkd. ____ Checked ____ Survey by English Note Coro Date ____
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 2498 Pg. 140 Job No. 030002 Division No. 11 Notes Red Plotted Profile

Survey of HYDRO-SURVEY Date Date No.

Survey by RICHARDS 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.	
		84	60	+24	LINE 240+00 Out Inst @ 230+00 Target @ 231+00 S-11
			37	47	#9 23° 13' 486.0 R mean high tide

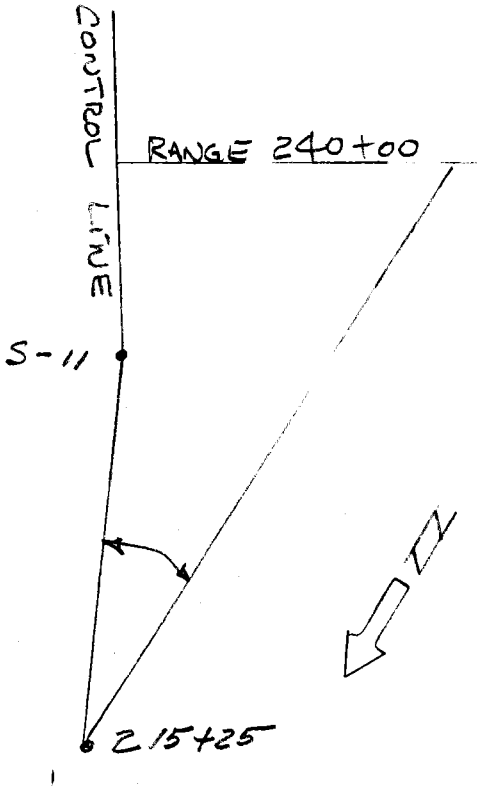
76L298 307 Cdb 12-62

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					
215+25	S-11	10:20	1	50	26			
			2	49	28			
			3	48	31			
			4	47	32			
			5	46	59			
			6	46	15			
			7	45	27			
			8	44	15			
			9	43	08			
			10	42	07			
			11	41	00			
			12	39	57			
			13	38	47			
			14	37	37			
			15	36	18			
			16	34	55			
			17	33	15			
			18	31	55			
			19	30	30			
			20	29	12			



RANGE LINE 240+00 S

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2498 Pg. 14
No. ____ Date ____ Date ____ Survey of BEACH EROSION PLAYA DEL REY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes RT. Date 4-4-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2498 PG. 142 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION PLAYA DEL REY Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

761.298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

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.
25425	5-11		21	28	00			
			22	26	49			
			23	25	19			
			24	24	25			
			25	22	54			
			26	21	24			
			27	20	30			
			28	19	13			
			29	18	13			
		10:27	30	17	18			

76-1-298 CE 307 3-61

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.	9:45 A.M.	4-4-77
					M.L.L.W.	Inshore 245+00 -S.
245+00-S	350	20 35		16 85	L.&T., F.B. 2807-86.	Control Line
			3 61	16 74	5.5 R edge conc.	
			3 6	16 8	6 " sand	
			3 8	16 6	100' " "	
			3 9	16 5	200' " "	
			6 1	14 3	300' " "	
			8 6	11 8	400' " "	
			7 9	12 5	425' " "	Brk.
			8 2	12 2	487' " "	
			10 6	9 8	487' " Top of 1X2	
	-21	77	3 0	4 7	519.0 R mean high tide	
			5 5	2 2	1 47° 28'	cut Inst @ 240+00 Target @ 245+00
			8 0	0 3	2 49° 04'	
			10 0	-2 3	3 50° 35'	
			10 9	-3 2	4 52° 21'	
			9 3	-1 6	5 53° 45'	
			10 2	-2 5	6 55° 28'	
			11 4	-3 7	7 56° 52'	

Profile No. X-Sec. No.
Notes Red Date Notes Chkd. Date
Plotted Date Checked Date
Job No. 0300.02 Division No. Survey of Hydrosurvey Survey by English Notes Carb Map No. Indexed
F.B. 2498 G. 193 Date 4-4-77 Date

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.

F.B. 2498 Pg. 144 Job No. 030002 Division No. 11 Notes Red ____ Date ____ Plotted ____ Date ____ Profile No. ____
Survey of HYDRO-SURVEY Notes Chkd. ____ Date ____ Checked ____ Date ____ X-Sec. No. ____
Survey by RICHARDS Notes ____ Date ____
Indexed ____

STATION	B. S.	H. I.	F. S.	ELEV.	LINE 245+00	CH Inst @ 240+00 Target @ 245+00	
		77	116	-39	8	57° 28'	
			142	-65	9	59° 05'	
			125	-48	10	60° 02'	
			124	-47	11	60° 47'	
			130	-53	12	62° 13'	
			165	-88	13	63° 36'	
			190	-113	14	64° 49	

76L298 307 Cdb 12-62

PLEASE RETURN TO
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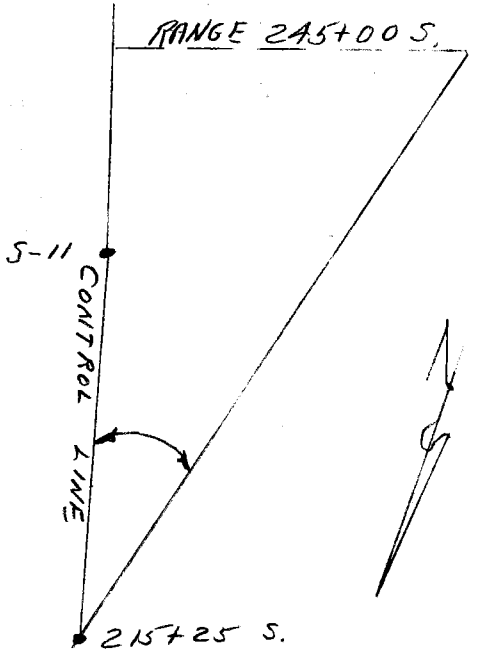
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
215+25 S.	S-11	10:53	1	44	10			
			2	43	32			
			3	42	41			
			4	41	56			
			5	41	04			
			6	40	20			
			7	39	29			
			8	38	30			
			9	37	35			
			10	36	35			
			11	35	24			
			12	34	31			
			13	33	34			
			14	32	29			
			15	31	08			
			16	29	48			
			17	28	29			
			18	27	17			
			19	26	07			
			20	25	28			



RANGE LINE 245+00 S.

Profile Notes Red. Plotted Job No. 2300.02 Division No. 11 F. B. 2498 Pg. 145
No. Date Date Survey of BEACH EROSION PLAYA DEL REY
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes R.T. Date 4-4-77
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 IN 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					
215+25 S.	S-11		21	24	42			
			22	23	49			
			23	22	53			
			24	22	05			
			25	21	17			
			26	20	07			
			27	19	05			
			28	18	14			
			29	17	42			
			30	16	52			
			31	16	12			
			32	15	37			
		11:00	33	15	08			

F. B. 2498 Pg. 146 Job No. 0300.02 Division No. 11

Survey of BEACH EROSION PLAYA DEL REY

Survey by RICHARDS Notes R.T.

Indexed Date

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date Notes Chkd. Date

76-1-298 CE 307 3-61

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.	10 A.M.	4-4-77
					M.L.L.W.	Inshore
	20	158		1381	sand	250+00 -S.
250+00-S.			12	146	1X2, F.B. 2807-88.	450' Offset
			13	145	sand F.B. 2807-86 & 88.	T.B. 489' Off.
250+00-S.			20	1381	L.& CE. Tg. in rock.	498.22 offset
			53	105	Sand B.B.	504' off.
			64	94	" Brk.	547' off
			89	69	"	567' off.
			63	95	Top of 1X2	" "
						cut Inst @ 240+00
	-26	69	172	-103	1 48° 07'	Target @ 245+00
			152	-83	2 46° 16'	
			139	-70	3 44° 08'	
			116	-47	4 42° 22'	
			95	-26	5 40° 11'	
			85	-16	6 38° 30'	
			76	-07	7 36° 33'	
			71	-02	8 34° 31'	
			48	21	9 32° 36	
			22	47	598.0 R mean high tide	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2498 Pg. 147
No. ____ Date ____ Date ____ Survey of Hydrasurvey
X-Sec. Notes Clkd ____ Checked ____ Survey by ____ Notes ____ Date 4-4-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2498 Pg. 148 | Job No. 030002 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of HYDRO-SURVEY Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

STATION	B. S.	H. I.	F. S.	ELEV.
		69		12

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76-L298 CE 307 3-61

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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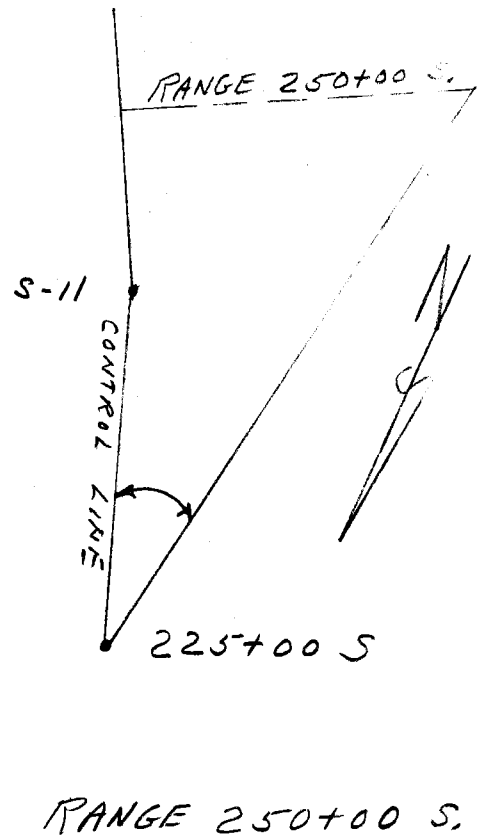
Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE 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					
225+00	S-11	11:11	1	49	07			
			2	48	20			
			3	47	25			
			4	46	29			
			5	45	28			
			6	44	39			
			7	43	36			
			8	42	29			
			9	41	25			
			10	40	08			
			11	38	50			
			12	37	35			
			13	36	28			
			14	35	19			
			15	34	12			
			16	32	53			
			17	31	55			
			18	30	49			
			19	29	42			
			20	28	33			



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2498 PG. 149

No. ____ Date ____ Date ____ Survey of BEACH EROSION PLAYA DEL REY

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes RT Date 4-4-75

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

F. B. 2498 PG. 150 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION PLAYA DEL REY Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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 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					
225+00	S-11		21	27	21			
			22	26	14			
			23	25	07			
			24	24	34			
			25	23	39			
			26	22	48			
			27	22	04			
			28	21	17			
			29	20	20			
		11:19	30	19	44			

76-1-298 CE 307 3-61

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	10:20 A.M.	4-4-77
					M.L.L.W.	Inshore
C.E. Tag in cb. F.B. 2807-88	437	16 55		12 18		253+10 -S.
253+10-S			25	14 0	1X2, F.B. 2807-88.	536' Offset
			39	12 4	Sand, Brk.	561' Off.
			98	6 7	"	618' "
			69	9 6	Top of 1X2	" "
	-25	71	24	47	647 .0 R mean high tide	Cut Inst @ 240+00 Target @ 245+00
			69	0 2	#1 28° 26'	
			80	-09	2 29° 28'	
			112	-41	3 30° 04'	
			144	-73	4 33° 30'	
			110	-39	5 34° 52'	
			172	-101	6 36° 07'	
			178	-107	7 38° 45'	
			180	-109	8 40° 47'	
			160	-89	9 42° 37'	
			155	-84	10 44° 40'	
			176	-105	11 46° 39	
					~~12~~	
T.B.M.			437	12 18	C.E. Tag in cb. { 536' offset 253+42.73, F.B. 2807-86 & 88.	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2498 Pg. 151
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes Carol Date 4-4-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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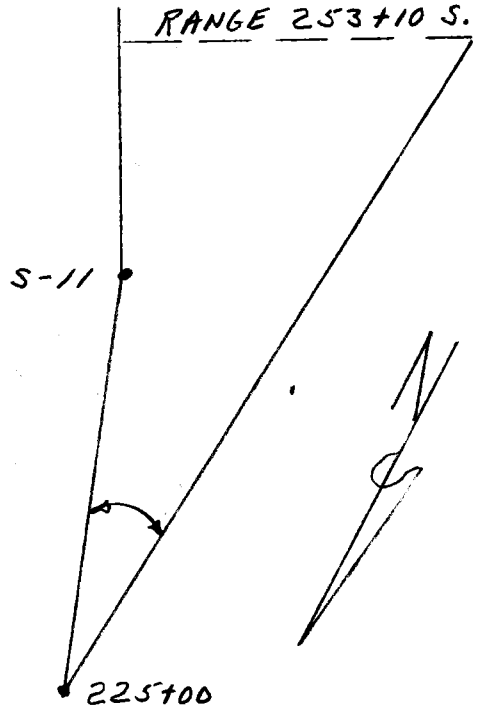
Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE 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					
225+00 S.	S-11	11:29	1	47	12			
			2	46	12			
			3	45	18			
			4	44	24			
			5	43	34			
			6	42	38			
			7	41	37			
			8	40	38			
			9	39	49			
			10	38	48			
			11	37	39			
			12	36	42			
			13	35	28			
			14	34	20			
			15	33	01			
			16	31	44			
			17	30	39			
			18	29	32			
			19	28	36			
			20	27	37			



RANGE LINE 253+10 S.

Profile Notes Red. ____ Plotted ____ Job No. 030002 Division No. 11 F. B. 2498 Pg. 153
No. ____ Date ____ Date ____ Survey of BEACH EROSION PLAYA DEL REY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 4-4-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2498 PG. 154 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION PLAYA DEL REY Date _____ Date _____ No. _____

Survey by RICHARDS Notes RT. 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.
225+00 S.	S-11		21	26	35			
			22	25	53			
			23	24	57			
			24	24	16			
			25	23	43			
			26	22	59			
			27	22	22			
			28	21	40			
		11:35	29	21	03			

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76L298 307 Cdb 12-62

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PG.S 155, 156 BLANK D.

SEE PG. 126 FOR TIDE GAGE

READINGS FOR 4-4-77

Notes Ck'd by	Survey of HYDRO-SURVEY
Map. No.	JN 03002 Tape — Std — °F
Office Work	Surveyed by W. A. RICHARDS
Checked	Notes W.A.R. Date 4-77
Date	Indexed

F. B. 2498 PG. 157

J. N. 0300.02

HYDROGRAPHIC SURVEY

FROM RANGE 168 +00 N.
TO " 216 + 00 N.

NORTH AND SOUTH OF MAIN ENTRANCE CHANNEL TO MARINA DEL REY

HOR. CONTROL REF: C.S.B. 1726 DIV. #3, 4

VERTICAL DATUM " M.L.L.W.

TIME REF: PACIFIC STANDARD TIME

TIDE GAGE: TIDAL 8, L.A. OUTER HARBOR

RICHARDS MOODY TURRILL BUSTRUM	BAZEN SHOEMAKER PETERSON JACKSON	ENGLISH CARO STROUD BRADLEY	DREIER GOBLE SIEMAN	BROOKS BANKSON KROHN CROWDER

+ LIFEGUARDS FOR SWIMMERS

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

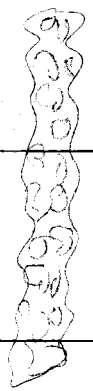
76F309S CE#310 3-69

F. B. 2498 PG. 158

AREA INDEX MAP
(NO SCALE)

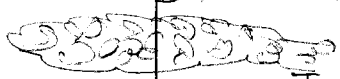
RANGE 216+00 N.

3-23-77
PG. 3 159 - 186, INC.



MAIN ENTRANCE CHANNEL
TO MARINA DEL REY

BALOGNA CREEK



RANGE 168+00 N.

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76-L 298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.	8:00 A.M.	3-23-77
T.B.M.	507	2164		1657	T.B.M. el = 16.57, F.B. 2100-173.	
T.P.	409	1830	743	1421	Wire Spk. Pacific	Ave. & 66th Ave.
T.P.	435	1806	459	1371	1x2	
T.P.	306	1689	423	1383	1x2	Inshore
168+00-N.			27	142	1x2 & Sand	168+00 N.
			42	127	100.0 R. "	501.73 Offset
			27	142	23.0 L. "	F.B. 2100-210.
			40	129	43.0 L. top brk.	Sand
			114	55	95.0 L.	"
	-02	83	84	85	95.0 L. top 1x2	
			36	47	99.0 L. M.H.W.	
			44	39	105 L.	
					CUT INST. AT 180+00N., SIGHT ON 168+00N.	(524)
			56	27	#1 5° 32'	
			75	08	2 6 28	
			93	-10	3 6 56	
			97	-14	4 8 06	
			90	-07	5 9 52	
			104	-21	6 11 50	
			125	-42	7 14 23	
			136	-53	8 16 03	

Profile Notes Red ____ Plotted ____ Job No. 03 00.02 Division No. ____ F.B. 2498 Pg. 159
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. ____ Notes Chkd. ____ Checked ____ Survey by English Note Card Date 3-23-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 2498 Pg. 160 | Job No. 0300.02 Division No. 11 Notes Red ____ Plotted ____ Profile

Survey of HYDRO-SURVEY Date ____ Date ____ No. ____

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

Indexed ____ Date ____ Date ____ Date ____ No. ____

STATION	B.S.	H.I.	F.S.	ELEV.
		83		
			142	-59
			166	-83
			9	180 11'
			10	190 43

76-L298 CE 307 3-61

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76L298 307 Cdb 12-62

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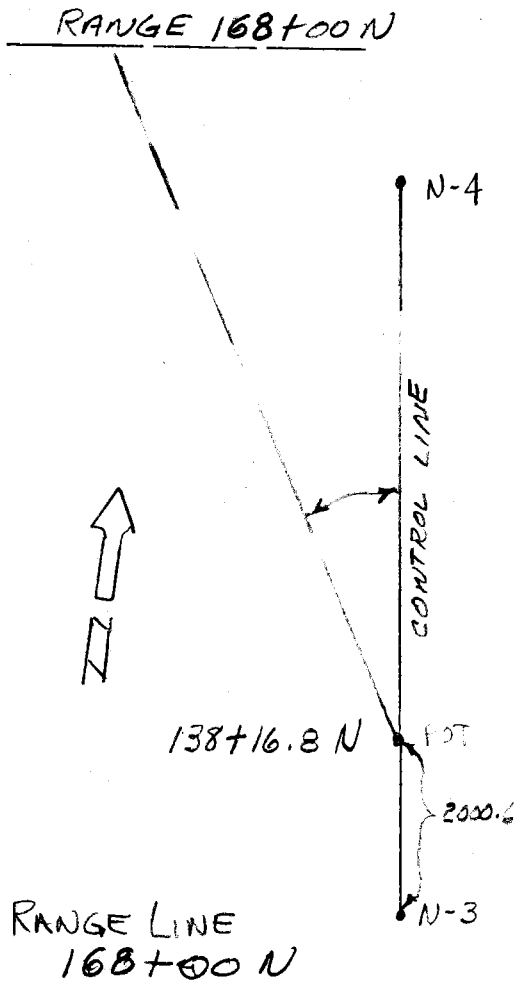
INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
138+16.8 N	N-4	7:51	1	297	46			
			2	299	16			
			3	300	29			
			4	302	04			
			5	303	52			
			6	305	44			
			7	307	28			
			8	309	40			
			9	311	41			
			10	314	43			
			11	317	34			
			12	320	42			
			13	323	09			
			14	325	58			
			15	328	20			
			16	330	45			
			17	332	38			
			18	334	24			
			19	336	04			
			20	337	43			



Profile Notes Red. Plotted Job No. 6300.02 Division No. 11 F.B. 2498 Pg. 161
No. Date Date Survey of BEACH EROSION CONTROL
X-Sec. Notes Chkd. Checked Survey by Notes JJB Date
No. Date Date Map No. Indexed Date

F. B. 2498 Pg. 162 | Job No. 030002 Division No. 11 Notes Red. ____ Plotted ____ Profile

Survey of BEACH EROSION PLAYA DEL REY Date ____ Date ____ No. ____

Survey by RICHARDS Notes JJB 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.
138+16.8 N	N-4		21	339	10			
			22	340	31			
			23	341	09			
		9.01	24	341	51			

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76L298 307 Gdb 12-62

76-I-298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.	8:15 A.M.	3-23-77
						Inshore
						172+00 N.
		1689				501.73 Off.
T.P.	135	1612	212	1477	1x2	F.B. 2100-210.
172+00-N.			20	141	1x2 & Sand	501.73 offset
			37	124	100.0 R. Sand	
			21	140	14.0 L. top	brk. Sand
			36	125	21.0 L.	" "
			108	53	80.0 L.	
	+03	87	77	84	80.0 L. top	1x2 (-24)
					CUT INST. AT 180+00 N	SIGHT ON 168+00N
			185	-98	*1 30 24	
			178	-91	2 28 32	
			155	-68	3 24 46	
			136	-49	4 21 08	
			110	-23	5 16 24	
			91	-04	6 12 25	
			93	-06	7 9 49	
			93	-06	8 9 02	
			74	13	9 8 33	
			64	23	10 7 35	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____
No. ____ Date ____ Date ____ Survey of Hydrasurvey
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes Cond. Date 3-23-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 2498 Pg. 163

F.B. 2498 Pg. 164 Job No. 030002 Division No. 11 Notes Red ____ Plotted ____ Profile

Survey of HYDRO-SURVEY Date ____ Date ____ No. ____

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

Indexed ____ Date ____ Date ____ Date ____ No. ____

STATION	B.S.	H.I.	F.S.	ELEV.	
		87			
			46	41	90 FT LEFT
			40	47	85 FT. " M.H.W.
			35	52	80 " " "

76-L298 CE 307 3-61

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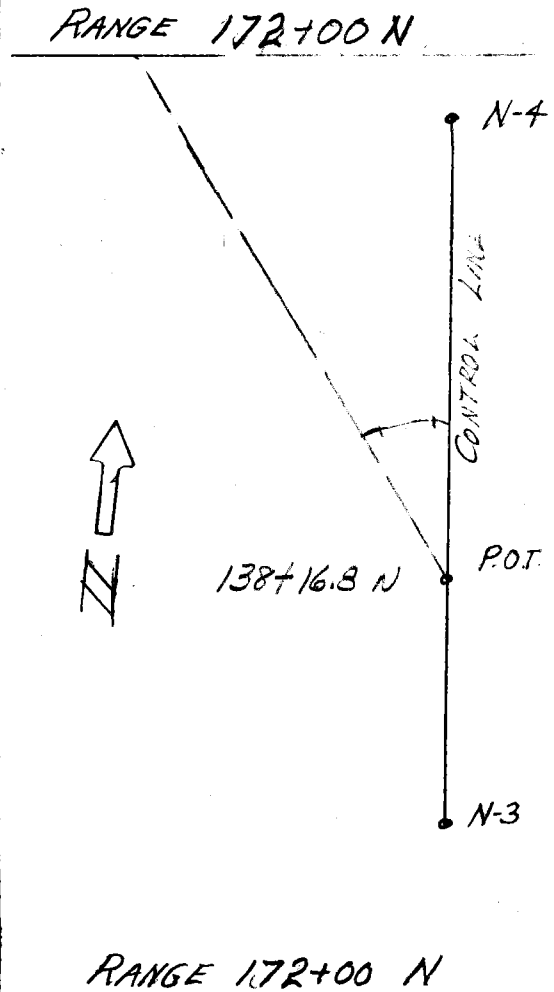
Do not extend notes this side of this line.

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					
138+16.8 N	N-4	9:15	1	300	36			
			2	301	56			
			3	303	16			
			4	305	07			
			5	306	30			
			6	308	06			
			7	309	52			
			8	312	14			
			9	314	51			
			10	317	19			
			11	319	36			
			12	322	40			
			13	325	51			
			14	328	51			
			15	331	21			
			16	334	06			
			17	336	19			
			18	338	00			
			19	339	12			
			20	340	26			



Profile Notes Red. Plotted Job No. 0300.02 Division No. 11 F. B. 2498 Pg. 165
No. Date Date Survey of BEACH & ROSIONI PLAYA DEL REY
X-Sec. Notes Chkd. Checked Survey by FIELDMEN Notes J.J. B Date 3-23-77
No. Date Date Map No. Indexed Date

F. B. 2498 PG. 166 | Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of BEACH EROSION PLAYA DEL REY Date Date No.

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

Indexed Date Date Date No.

761298 307 Gdb 12-62

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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.
138+16 8N	N-4		21	391	90			
			22	392	51			
			23	393	35			
		9:23	24	394	07			

76-1-298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.	8:30 A.M.	3-23-77
		1612				Inshore
T.P.	104	1552	164	1448	1x2	180+00 N.
T.P.	062	1463	151	1401	1x2	501.73 Off.
180+00-N.			29	117	1x2 & Sand	F.B. 2100-210
			26	120	100.0 R. Sand.	
			18	128	95.0 L. top brk. Sand	
			41	105	102.0 L. toe "	
			92	54	143.0 L. "	
	+00	84	62	84	143.0 L. top 1x2	
			32	52	143 SAND	
			37	47	149 M.H.W	
			44	40	153	
					CUT INST 172+00N, SIGHT ON 180+00N (NLY)	
			66	18	#1 347° 39' (12° 21')	
			71	13	2 347 03 (12 57')	
			88	-04	3 346 45 (13 15)	
			81	03	4 345 32 (14 28)	
			88	-04	5 343 18 (16 32)	
			98	-14	6 333? 39 (26 21) ? 4?	
			113	-29	7 336 38 (23 22)	
			122	-38	8 334 55 (25 05')	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2498 Pg. 167
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chkd. ____ Checked ____ Survey by Elfish Note Care Date 3-23-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 2498 Pg. 168 | 030002 Job No. Division No. 11 Notes Red Plotted Profile

Survey of HYDRO-SURVEY Date Date No.

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

Indexed Date Date Date No.

STATION	B.S.	H.I.	F.S.	ELEV.
		84		
			140	-56
			159	-75
				49 332 18
				10 330 08

76-L298 CE 307 3-61

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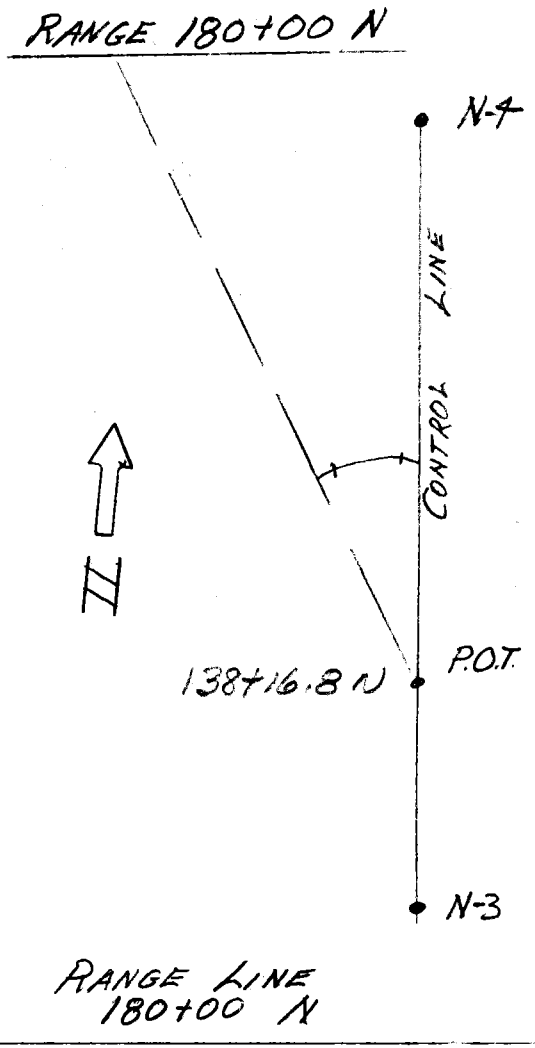
INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
138+16.8 N	N-4	9:36	1	307	20			
			2	308	57			
			3	310	47			
			4	312	13			
			5	313	48			
			6	315	48			
			7	317	32			
			8	319	36			
			9	321	26			
			10	323	45			
			11	325	52			
			12	328	17			
			13	330	15			
			14	332	36			
			15	334	29			
			16	336	45			
			17	338	42			
			18	340	16			
			19	341	25			
			20	342	41			



Profile Notes Red. Plotted Job No. 0300.02 Division No. 11 F.B. 2498 Pg. 169
No. Date Date Survey of BEACH EROSION PLAYA DEL REY
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes JJB Date 3-23-77
No. Date Date Map No. Indexed Date

F. B. 2498 PG. 170 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION PLAYA DEL REY Date _____ Date _____ No. _____

Survey by RICHARDS Notes JJB 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.
138+16.8 N	N-4		21	343	36			
			22	344	25			
			23	344	58			
			24	345	38			
		9:45	25	346	00			

Do not extend notes this side of this line.

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

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

761298 307 Cdb 12-62

76-1-298 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.	9:00 A.M.	3-23-77
						Inshore
		1463				186+00 N.
T.P.	010	1369	104	1359	1x2	479.93 Off.
186+00-N			62	75	1x2 & Sand	F.B. 2100-210
			68	69	100.0 R. Sand	479.93 offset
			45	92	130.0 R.	Sand
			68	69	260.0 R. brk	"
			53	84	272.0 R. "	"
			90	47	351.0 R.	"
	+03	81	59	78	351.0 R. top 1x2	
					CUT INST. AT 172+00 N., SIGHT ON 180+00 N (Ly)	
			147	-66	#1 331 11 (28° 49')	
			130	-49	2 332 48 (27 12')	
			119	-38	3 334 36 (25 24)	
			103	-22	4 336 15 (23 45)	
			93	-12	5 338 07 (21 53)	
			83	-02	6 339 54 (20 06)	
			77	+04	7 341 30 (18 30)	
			69	12	8 342 54 (17 06)	
			57	24	9 344° 14' (15° 56')	
			45	36	361 FT LEFT	
			34	47	351 FT LEFT M.H.W	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chkd ____ Checked ____ Survey by Triplett & Garr Date 3-23-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 2498 Pg. 171

76L298 307 Cdb 12-62

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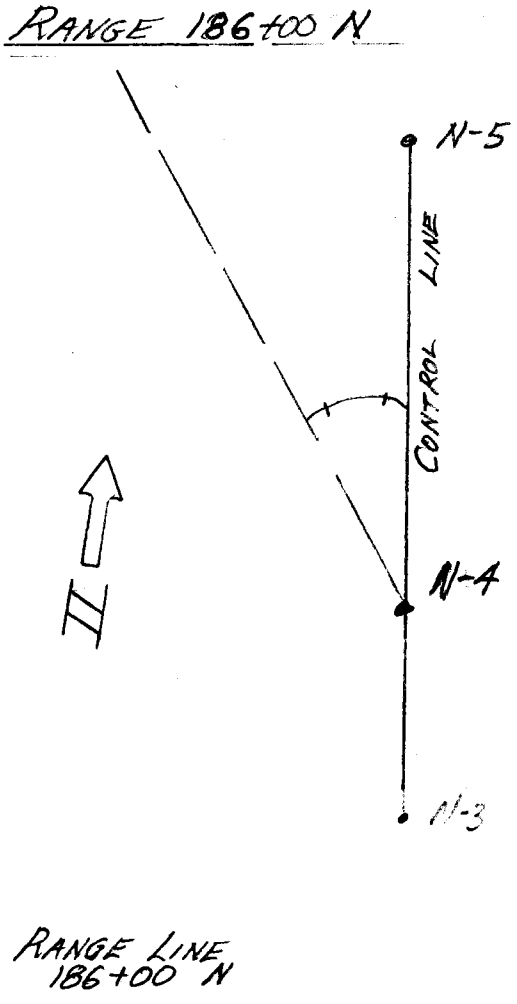
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
N-4	N-5	10:06	1	301	30			
			2	302	49			
			3	303	38			
			4	304	35			
			5	305	46			
			6	307	00			
			7	308	15			
			8	309	32			
			9	310	40			
			10	312	15			
			11	314	12			
			12	316	30			
			13	318	32			
			14	320	33			
			15	321	30			
OUTER BREAK WATER		10:13	16	321	48			
INNER BREAKWATER		10:16	17	324	00			
			18	325	25			
			19	326	53			
			20	328	18			



Profile Notes Red. ____ Plotted ____ Job No. 300.02 Division No. 11 F.B. 2498 Pg. 173
No. ____ Date ____ Date ____ Survey of BEACH EROSION PLAYA VEL REY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes JJB Date 3-23-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

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.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
N-4	N-5		21	329	02			
			22	330	04			
			23	331	16			
			24	333	07			
			25	334	51			
			26	335	45			
			27	337	11			
			28	338	07			
			29	338	55			
			30	339	39			
		10:20	31	340	19			

F. B. 2498 Pg. 174 Job No. 0300.62 Division No. 11 Notes Red. ____ Plotted ____ No. ____

Survey of BEACH EROSION PLAYA DEL REY Date ____ Date ____ X-Sec. ____

Survey by RICHARDS Notes JJB Notes Chkd. ____ Checked ____ No. ____

Indexed ____ Date ____ Date ____ Date ____ Profile

76-1-298 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.	11:00 A.M.	3-23-77
		1369				Inshore
T.P.	539	1711	197	1172	1x2	202+00 N.
T.P.	430	1712	429	1282	rock	479.93 Off.
T.P.			200	1512	"x" on rock	F.B. 2100-211.
T.P	466	2066	112	1600	1x2	
T.P.	459	2099	426	1640	1x2	
T.P.	427	2068	458	1641	1x2	
T.P.	566	2094	540	1528	1x2	
T.P.	085	1679	500	1594	1x2	
202+00-N			18	150	1x2 & Sand	479.93 offset
			40	128	100.0L. "	
			51	117	200.0L. "	
			52	116	450.0L. "	
			77	91	574.0L. "	
T.P.	294	1275	698	981	1x2	
			45	83	660.0L. top brk. Sand	
			75	53	692.0L. "	
	-01	82	45	83	692.0L. top	1x2
			35	47	700 LEFT M.H.W	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2498 Pg. 175
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chkd ____ Checked ____ Survey by English Note Cora Date 3-23-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76-L298 CE 307 3-61

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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.	202+00 ON 479.93 OFFSET
		82			CUT INST. AT 208+00N, SIGHT ON 202+00N
			60	22	#1 50 21
			70	12	2 50 51
			85	-03	3 51 30
			88	-06	4 52 33
			90	-08	5 53 31
			96	-14	6 54 42
			101	-19	7 55 47
			113	-31	8 58 03

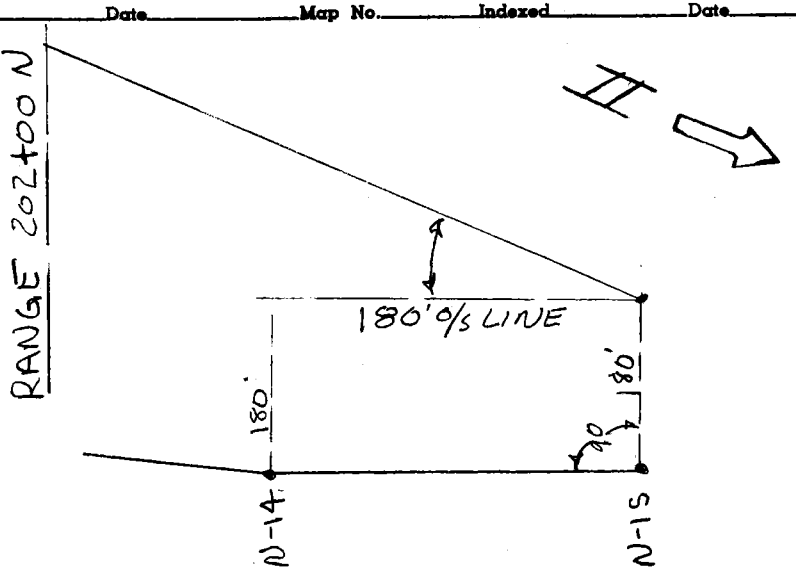
F.B. 2498 Pg. 176 Job No. 0300.02 Division No. 11 Notes Red Plotted Profile
Survey of HYDRO SURVEY Date Date No. X-Sec.
Survey by RICHARDS Notes DREIER 3-23-77 Notes Chkd. Checked
Indexed Date Date Date No.

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 0300.02 Division No. 11 F. B. 2498 Pg. 177

Date _____ Date _____ Survey of BEACH EROSION, PLAYA DEL REY

X-Sec. No. _____ Notes Chkd. _____ Checked _____ Survey by RICHARDS Notes JJB Date 3-23-77

Date _____ Date _____ Map No. _____ Indexed _____ Date _____



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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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					
N-15	N-14	12:17	1	47	10			
			2	46	09			
			3	44	01			
			4	42	45			
			5	41	41			
			6	40	31			
			7	39	39			
			8	38	48			
			9	37	22			
			10	36	09			
			11	34	52			
			12	33	42			
			13	32	37			
Outer Break Notes		12:25	14	31	35			
Inner Break Water		12:26	15	29	32			
			16	28	44			
			17	27	13			
			18	26	07			
			19	24	47			
			20	23	27			

76L298 307 Cdb 12-62

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					
N-15	N-14		21	22	13			
			22	21	10			
			23	20	15			
			24	19	45			
			25	19	15			
			26	18	43			
			27	18	17			
			28	17	49			
			29	17	22			
		12:29	30	17	02			

F. B. 2498 Pg. 178 Job No. 030002 Division No. 11 Notes Red. Plotted

Survey of BEACH EROSION N. PLAYA DEL REY Date Date No.

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

Indexed Date Date Date Profile

76-1-298 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.	11:30 A.M.	3-23-77
		1275				Inshore
T.P.	595	1450	420	855	1x2	208+00 N.
T.P.	554	1548	456	994	1x2	479.93 Off.
208+00-N			04	151	1x2 & Sand	F.B. 2100-211.
			26	129	111.0 L. Sand	
			24	131	187.0 L. "	
			67	88	291.0 L. "	
			70	85	339.0 L. top brk. sand	
			88	67	356.0 L. "	
	+01	95	61	94	356.0 L. top 1x2	
			48	47	373 L. M.H.W.	
					CUT. INST. AT 202+00 N. SIGHT 208+00 N	
			75	20	#1 326° 52' (33° 08')	
			100	-05	2 325 07 (34 53)	
			105	-10	3 323 28 (36 32)	
			115	-20	4 321 30 38 30)	
			140	-45	5 318 04 41 54)	
			160	-65	6 316 11 43 49)	
			186	-91	7 314 01 45 59)	
T.P.	465	1997	016	1532	1x2	
T.P.	366	2074	289	1708	1x2	
N-12			635	1439	N-12, L.&T. El. = 1439 F.B. 2100-174.	

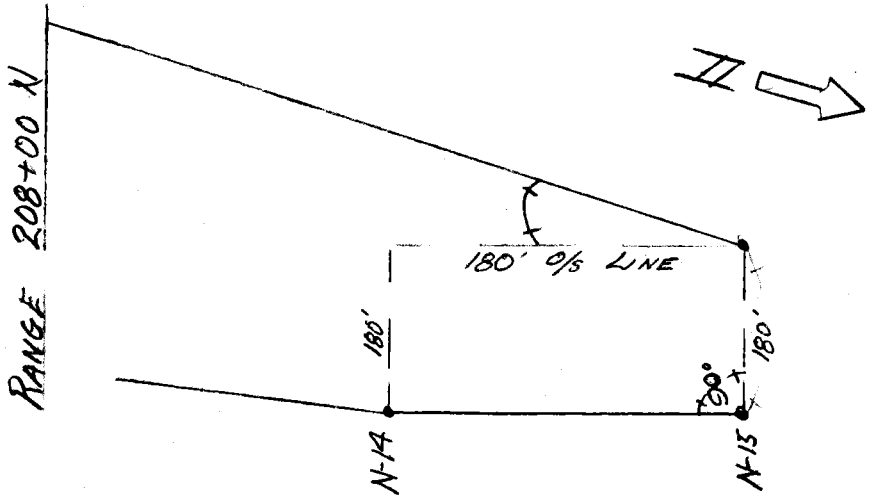
Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2498 Pg. 179
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chkd ____ Checked ____ Survey by English Card Date 3-23-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 030002 Division No. 11 | F. B. 2498 Pg. 181

Date _____ Date _____ Survey of BEACH EROSION, PLAYA DEL REY

X-Sec. No. _____ Notes Chkd. _____ Checked _____ Survey by RICHARDS Notes JJB Date 3-23-77

Date _____ Date _____ Map No. _____ Indexed _____ Date _____



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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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					
N-15	N-14	12:45	1	51	41			
			2	50	48			
			3	49	20			
			4	48	16			
			5	46	45			
			6	44	02			
			7	42	30			
			8	40	32			
			9	38	31			
			10	36	14			
			11	34	07			
			12	31	56			
			13	30	30			
			14	28	47			
			15	26	24			
			16	24	26			
			17	21	53			
			18	20	03			
			19	18	16			
			20	17	14			

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		Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch			Deg.	Min.	
N-15	N-14		21	16	27			
			22	15	44			
			23	15	04			
			24	14	35			
		12:54	25	13	58			

F. B. 2498 Pg. 182 | Job No. 030002 | Division No. 11 | Notes Red. | Plotted | No. | Profile

Survey of BEACH EROSION, PLAYA DEL REY | Date | Notes Chkd. | Checked | X-Sec.

Survey by RICHARDS | Notes JJB | Date | Date | No.

Indexed | Date | Date

76-1-298 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.	12:30 A.M. 3-23-77	
N-12	610	2049		1439	N-12, El.=14.39, F.B. 2100-174.	Inshore
T.P.	414	1857	606	1443	1x2	216+00 N.
T.P.	413	1733	537	1320	1x2	Control Line
T.P.	578	1926	385	1348	1x2	F.B. 2100-19.
			74	119	300.0L. Sand.	
			52	141	327.0L. "	
			58	135	601.0L. "	
			90	103	665.0L. "	
			91	102	710.0L. "	
			112	81	740.0L. "	
	-01	108	84	109	740.0L. top 1x2	
					CUT INST. AT 202+00N. SIGHT 208+00	
			20.8	-100	#1 342 36	
			163	-55	2 345 15	
			116	-08	3 346 40	
			127	-19	4 348 12	
			117	-09	5 349 30	
			99	09	6 349 55	
			61	47	782 FT LEFT, M.H.W	
T.P.	682	2047	561	1365	1x2	
N-12			608	1439	N-12, El. 14.39, See above	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2498 Pg. 183
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes Card Date 3-23-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 Cdb 12-62

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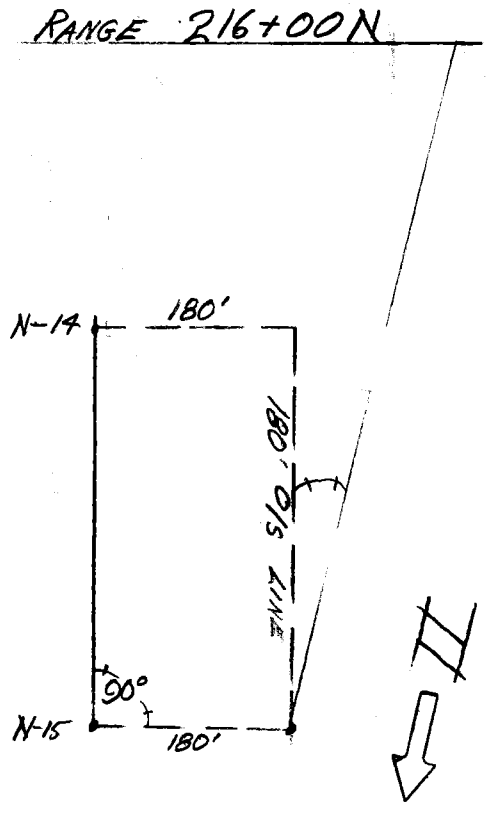
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
N-15	N-14	1:11 PM	1	58	41			
			2	57	35			
			3	56	07			
			4	55	07			
			5	53	46			
			6	52	28			
			7	51	10			
			8	49	36			
			9	47	53			
			10	46	00			
			11	44	05			
			12	41	41			
			13	38	24			
			14	36	00			
			15	33	43			
		1:45	16	31	54			
			17	28	58			
			18	26	54			
			19	25	03			
			20	23	15			



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 030002 Division No. 11 F. B. 2498 Pg. 185
X-Sec. ____ Date ____ Date ____ Survey of BEACH EROSION
Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes JJB Date 3-23-77
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2498 PG. 186 | Job No. 030002 Division No. 11 Notes Red. Plotted Profile

Survey of BEACH EROSION, PLAYA DEL REY Date Date No.

Survey by RICHARDS Notes JJB 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.
N15	N14		21	21	19			
			22	18	59			
			23	17	21			
			24	15	56			
			25	19	51			
		1:18 p.m.	26	19	13			

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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

PGS 187, 188

RESERVED FOR TIDE GAGE READINGS