Notes Ck'd by R. MANOR
Map No.
Office Work
Checked
Date JAN 17 1974

HYDROGRAPHIC SURVEYS # 2
Survey of
JN 0300.02 Tape — Std — °F
Surveyed by W. A. RICHARDS
Notes W.A.R. Date 11-73
Indexed G. D. BAILEY JAN 11 1974

F. B. 2429 PG. 5

J. N. 0300.02

HYDROGRAPHIC SURVEY

NO. 2

LECHUZA POINT TO SERVIT POINT
HORIZONTAL CONTROL - SUR. DIV FILE MAP
VERTICAL DATUM REF. = M. L. L. W.
TIME REF. = PACIFIC STANDARD TIME

SURVEY FILE # 6162

				(LIFEGUARDS)
RICHARDS	BAZEN	ENGLISH	DREIER	PAYNE
LEGAULT	SHOEMAKER	CARO	PETERSON	WESTERMAN
BUSTRUM	STROUD	TULLIER	GOBEL	
TURRILL	CLIFFORD	JOHNSON	MOORE	
NUNEZ			M^c KNIGHT	

Microfilmed July '85.

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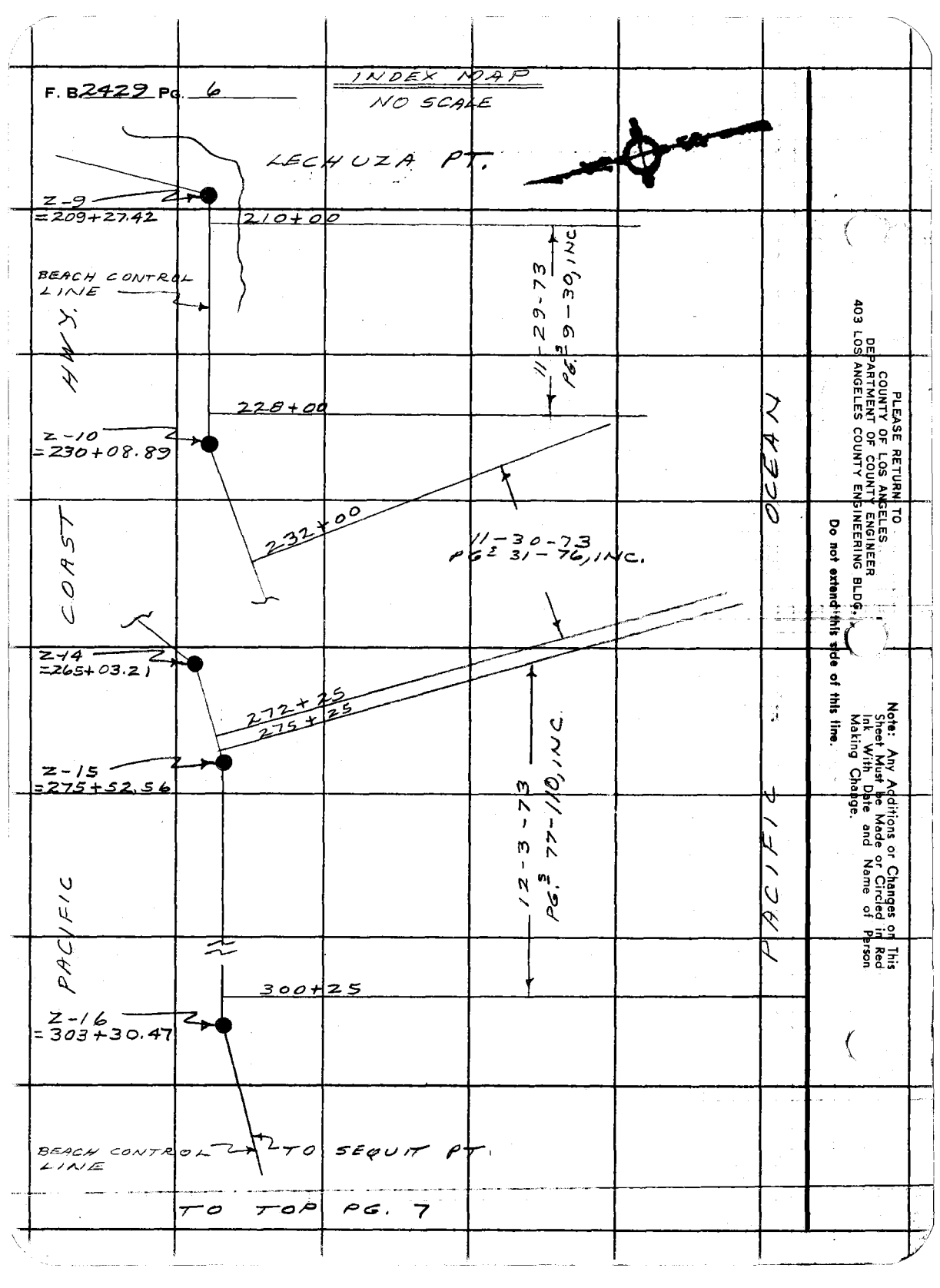
DEPARTMENT OF COUNTY ENGINEER
401 LOS ANGELES COUNTY PUBLIC WORKS BLDG.

F. B 2429 PG. 6

INDEX MAP
NO SCALE



TO TOP PG. 7

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DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Notes Ck'd by R. MANOR	HYDROGRAPHIC SURVEYS
Map No.	Survey of
Office Work	JN 0300.07 Tape — Std — °F
Checked	Surveyed by W.A. RICHARDS
Date JAN 17 1974	Notes W.A.R. Date 12-73
	Indexed G. D. BAILEY JAN 11 1974

F. B. 2479 PG. 7

TO BOT. PG. 6

INDEX MAP. (CON'T)

NO SCALE

BEACH CONTROL LINE TO LECHUZA PT.

Z-16 = 303+30.47

304+50

12-4-73 PG.S 111-160, INC.

Z-19 = 337+75.62

348+50

Z-20 = 349+28.12

350+50

Z-23 = 375+73.84

12-5-73 PG.S 161-198, INC.

380+00

Z-24 = 395+54.77

BEACH CONTROL LINE TO SEQUIT PT.

PACIFIC COAST HWY

PACIFIC OCEAN

TO TOP PG. 8

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DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

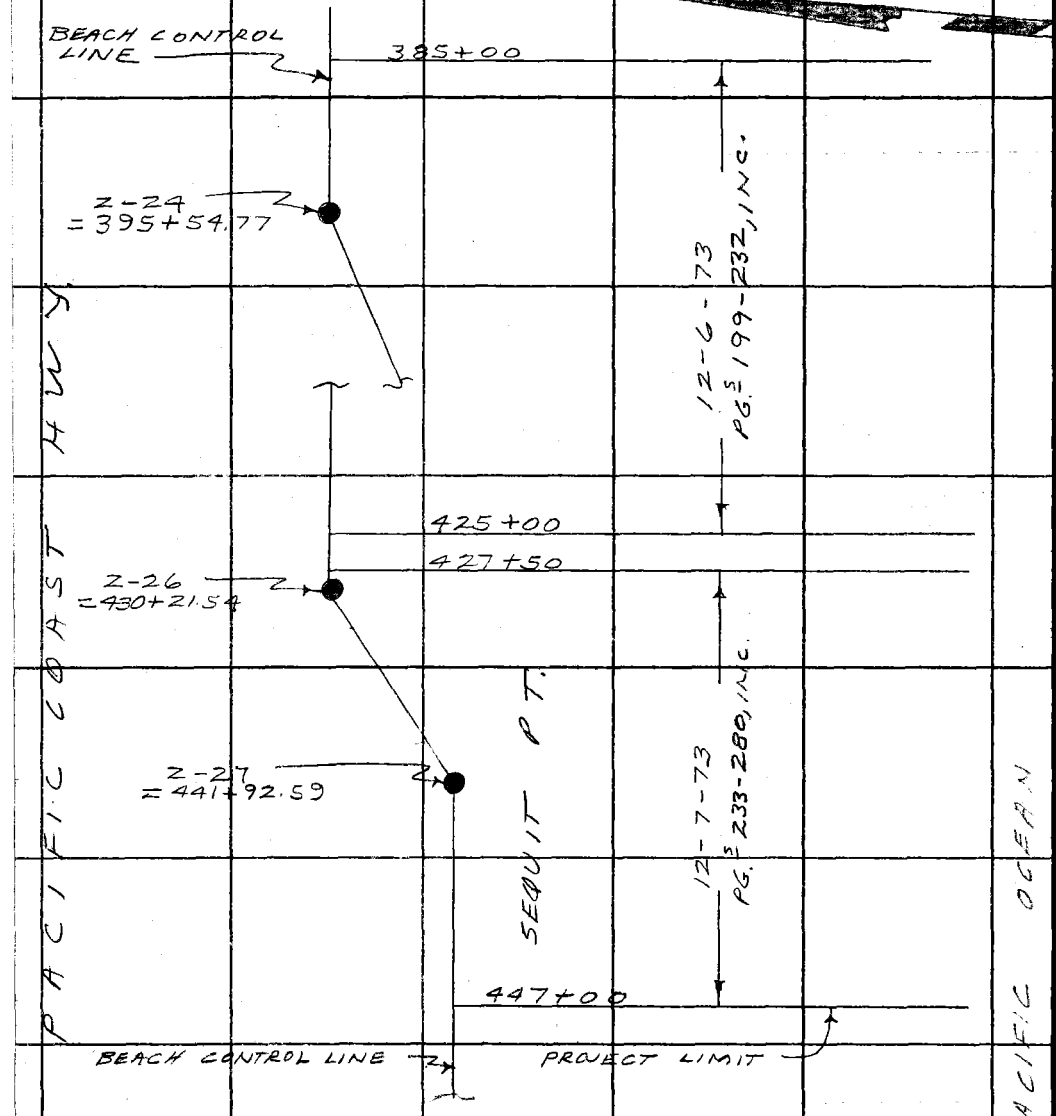
76F309S CE#310 3-69

F. B. 2429 Pg. 8

TO BOT. PG. 7

INDEX MAP (CONT.)

NO SCALE



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76-L-298 CE 307 8-70

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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.

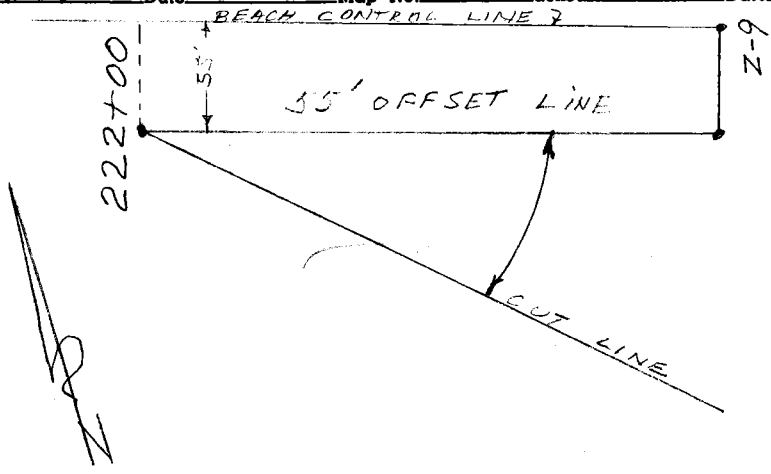
Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	210+00
Z-9	119	3373		3254	Z-9 El.=32.54	F.B. 2100-116
T.P.	084	2362	1095	2278		
T.P.	294	1539	1117	1245		
		(+)	25	179	(H.L.) 55' offset line	F.B. 2100-116
			33	121	5.0 L. brk sand	(+55 = 60 FROM CONTROL)
			94	60	109.0 L. "	
	148	946	741	798	109.0 L. top 4' 1x2	
			49	46	132 FT LEFT M.H.W.	(+55 = 187 FROM CONTROL 555)
					⊼ AT 218+00, 55 FT. OFFSET SLY SIGHT ON 210+00	
			85	10	#1 10° 47	
			107	-12	2 12 00	
			119	-24	3 14 28	
			128	-33	4 16 53	
			155	-60	5 19 54	
			215	-120	6 22 26	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2429 Pg. 9
X-Sec. No. ____ Date ____ Date ____ Survey of Hydro Survey
Notes Checked R. MANOR Checked ____ Survey by [illegible] Notes Cato Date 11-29-73
Date JAN 17 1974 Date ____ Map No. ____ Indexed D. BAILEY Date JAN 11 1974

Profile No.	Notes Red.	Plotted	Job No. 030002	Division No. 11	F. B. 2429 Pg. 11
	Date	Date	Survey of HYDRO. SURVEY		
X-Sec. No.	Notes Chkd.	Checked	Survey by RICHARDS	Notes R.T.	Date 11-29-73
	Date	Date	Map No.	Index 3 D. BAILEY	Date JAN 11 1974



RANGE = 210+00

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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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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					
222+00 55' OFF	Z-9 55' OFF	8:27	1	55	20			
			2	53	06			
			3	52	0			
			4	5				
			5	49	58			
			6	48	38			
			7	47	27			
			8	45	58			
			9	44	02			
			10	42	02			
			11	40	10			
			12	37	43			
			13	35	15			
			14	32	55			
			15	30	23			
			16	28	00			
			17	25	38			
			18	23	24			
			19	20	00			
			20	19	13			

76L298 307 Cdb 12-62

F. B. 2429 PG. 12 | Job No. 2300.02 Division No. 11 | Notes Red. | Plotted | Profile

Survey of HYDRO SURVEY | Date | Date | No.

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

Indexed G. D. BAILEY | Date JAN 11 1974 | Date | Date | No.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
222+00 55' OFF	Z-9 55' OFF		21	17	24			
			22	14	33			
			23	13	10			
		8:32	24	11	47			

Do not extend notes this side of this line.

761298 307 Cdb 12-62

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76-L-298 CE 307 8-70

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Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	214+00
		15 39				
T. P.	7 60	18 84	4 15	11 24		
			27	16 1	55' off set line	FB 2100-116
			24	16 4		19.0R brk. sand
			06	18 2		61.0R " "
			11 2		76.0L. sand	
	0 86	10 90	8 80	10 04	76.0L. top 4' 1x2	
					↑ AT 218+00 (55 S. off)	(55.S) SIGHT ON 210+00
			2 04	-9 5	#1 38° 12'	
			1 68	-5 9	2 34 54	
			1 50	-4 1	3 31 54	
			1 35	-2 6	4 28 20	
			1 20	-1 1	5 24 59	
			1 09	0 0	6 20 57	
			8 5	2 4	7 18 04	
			6 3	4 6	115 FT LEFT M.H.W.	(+55 = 170 FROM CONTROL)

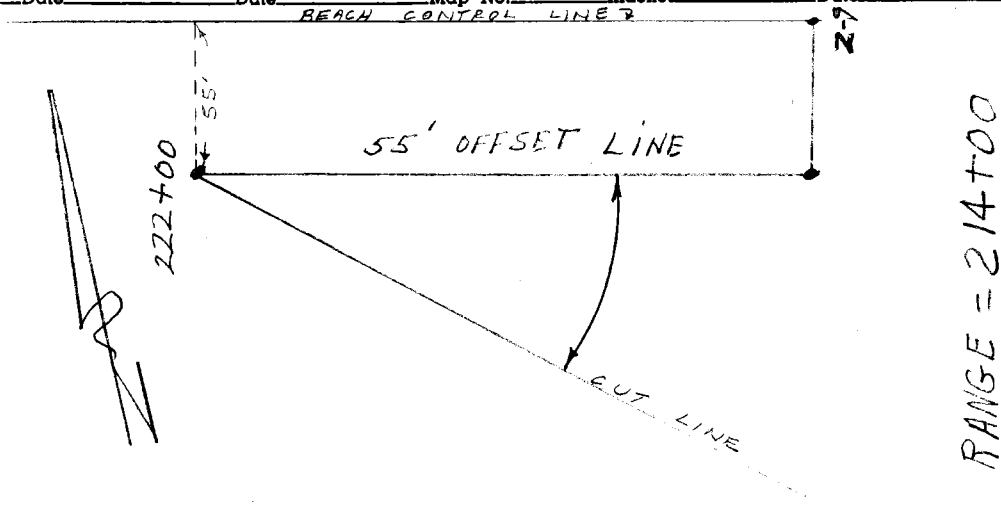
Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2429 Pg. 13
No. ____ Date ____ Date ____ Survey of Hydro survey
X-Sec. Notes Chk'd R. MANOR Checked ____ Survey by English Notes Caro Date 11-29-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Index G. D. BAILEY Date JAN 11 1974

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 0300.02 Division No. 11 F. B. 2429 Pg. 15

Date _____ Date _____ Survey of HYDRO SURVEY

X-Sec. No. _____ Notes Chkd. _____ Checked _____ Survey by RICHARDS Notes R.T. Date 11-29-73

Date _____ Date _____ Map No. _____ Indexed G. D. BAILEY Date JAN 11 1974



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					
222+00 55' OFF	Z-9 55' OFF	8:47	1	66	37			
			2	65	16			
			3	63	21			
			4	62	14			
			5	60	52			
			6	59	18			
			7	57	43			
			8	55	41			
			9	53	03			
			10	50	16			
			11	47	53			
			12	44	09			
			13	41	00			
			14	39	27			
			15	36	18			
			16	32	50			
			17	29	22			
			18	25	15			
			19	22	23			
			20	19	45			

76L298 307 Cdb 12-62

F. B. 2429 PG. 16 | Job No. 0304.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

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

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

Indexed G. D. BAILEY Date JAN 11 1974 Date _____ Date _____ No. _____

761298 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.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
222+00 55' OFF	2-9 55' OFF		21	15	55			
		8:53	22	14	31			

76-L-298 CE 307 8-70

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Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	218+00
		18 84				
T.P	002	1536	350	1534		
218+00			03	151	55' offset line	F.B. 2100-116
		(+)	13	167	(hand Leve)	21.0 R. brk. sand
		(+)	39	193	" "	34.0 R. " "
		(+)	40	194	" "	55.0 R. "
			12	142	6.0 L. brk. sand	
			48	106	13.0 L. " "	
			78	76	44.0 L. "	
	138	1134	540	996	44.0 L. top 4' 1x2	
			67	46	74 FT. LEFT	
					π AT 214+00, 55 S.,	SIGHT ON 218+00, 55 S.
			86	27	1 12° 21'	
			103	10	2 14 38	
			117	-04	3 17 28	
			125	-12	4 20 25	
			139	-26	5 23 28	
			153	-40	6 27 18	
			175	-62	7 31 28	
			199	-86	8 35° 00'	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2429 Pg. 17

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

Notes Chkd. R. MANOR Checked ____ Survey by English Notes Caro Date 11-29-73

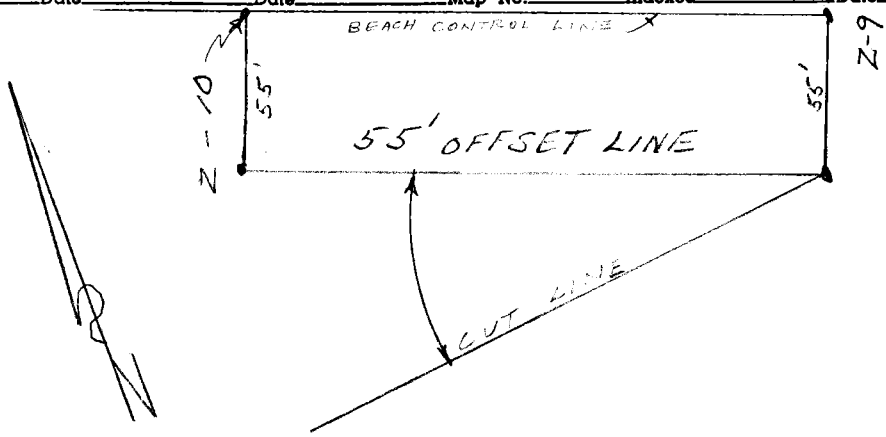
Date JAN 17 1974 Date ____ Map No. ____ Index D. BAILEY Date JAN 11 1974

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 0300.02 Division No. 11 F. B. 2429 Pg. 19

Date _____ Date _____ Survey of HYDRO SURVEY

X-Sec. No. _____ Notes Chkd. _____ Checked _____ Survey by RICHARDS Notes RT Date 11-29-73

Date _____ Date _____ Map No. _____ Indexed G. D. BAILEY Date JAN 11 1974



RANGE = 218+00

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

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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					
Z-9 55' OFF	Z-10 55' OFF	9:21	1	294	56			
			2	296	19			
			3	297	28			
			4	298	54			
			5	300	28			
			6	302	43			
			7	304	20			
			8	306	19			
			9	308	56			
			10	311	11			
			11	313	20			
			12	316	16			
			13	319	00			
			14	321	40			
			15	325	54			
			16	327	46			
			17	331	25			
			18	335	16			
			19	338	02			
			20	340	41			

76L298 307 Cdb 12-62

F. B. 2429 Pg. 20 | Job No. 0300.02 Division No. 11 | Notes Red. | Plotted | Profile

Survey of HYDRO SURVEY | Date | Date | No.

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

Indexed G.D. BAILEY | Date JAN 11 1974 | Date | Date | No.

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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.	Min.	For Office Use Only Range Line Deg.	Min.	Card No.
	2-9 55' OFF		2-10 55' OFF			21		343	38			
				9:27		23	22	347	50	346	36	

76-L-298 CE 307 8-70

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Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	222+00
		1536				
T.P.	712	1758	490	1046		
222+00			41	131	55' offset line	F.B. 2100-116
			33	143		21.0R. brk. sand
			12	164		40.0R. " "
			32	144		55.0R "
			77	99	6.0 L. brk sand	
			105	71	31.0 L. "	
	145	1073	830	928	31.0 L. top 4'1x2	
					π AT 214+00 (55' SLY)	SIGHT ON 222+00 (55' SLY)
			187	-80	#1 19° 04'	
			171	-64	2 17 06	
			148	-41	3 14 57	
			138	-31	4 13 16	
			121	-14	5 10 34	
			108	-01	6 8 42	
			101	06	7 7 23	
			88	19	8 5° 37'	
			61	46	54 FT LEFT M.H.W.	(+55 = 109 FT. to control)

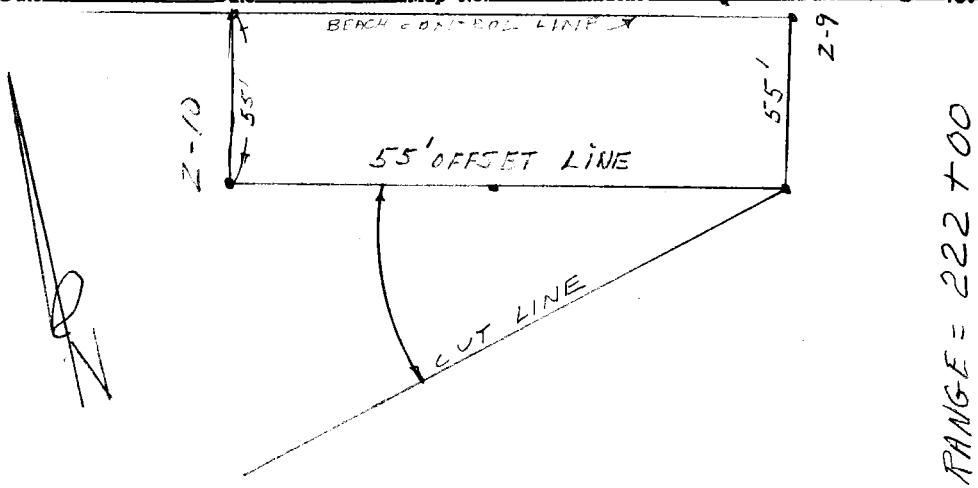
Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2429 PG. 21
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Checked ____ Survey by English Notes Carried Date 11-29-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed R. D. BAILEY Date JAN 11 1974

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 0300.02 Division No. 11 F. B. 2429 Pg. 23

Date _____ Date _____ Survey of HYDRO. SURVEY

X-Sec. No. _____ Notes Chkd. _____ Checked _____ Survey by RICHARDS Notes R.T. Date 11-29-73

Date _____ Date _____ Map No. _____ Indexed G. D. BAILEY Date JAN 11 1974



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PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
Z-9 55' OFF	Z-10 55' OFF	9:40	1	303	11			
			2	304	12			
			3	305	45			
			4	306	51			
			5	308	32			
			6	310	42			
			7	312	45			
			8	314	31			
			9	316	30			
			10	318	22			
			11	320	33			
			12	322	32			
			13	324	40			
			14	326	58			
			15	329	06			
			16	331	41			
			17	333	59			
			18	336	56			
			19	339	07			
			20	340	45			

76L298 307 Cdb 12-62

F. B. 2429 Pg. 24 | Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

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

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

Indexed G.D. BAILEY Date JAN 11 1974 Date _____ Date _____ No. _____

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
2-9 53' OFF	2-10 53' OFF		21	342	50			
			22	344	53			
			23	346	49			
			24	348	36			
			25	350	11			
			26	351	53			
		9:45	27	352	53			

Do not extend notes this side of this line.

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76-L-298 CE 307 8-70

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

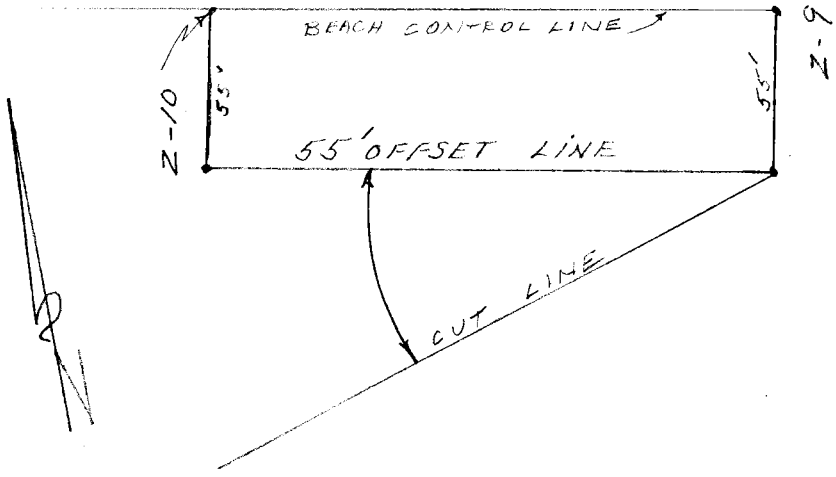
Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W	228+00
		17 58				
T. P	7 53	10 81	7 30	10 28		
228+00			40	~~134~~ 138	55' offset line	F.B. 2100-116
			30	148		15.0 R. brk. sand
			05	173		22.0 R " "
			30	148		69.0 R toe cliff "
			44	134	29.0 L. brk. sand	
			73	105	33.0 L. " "	
			97	81	52.0 L. "	
	0 61	10 94	7 48	10 33	52.0 L. top 4' 1x2	
			63	46	78 FT. LEFT M.H.W.	1+55 = 133 FT
					⊼ 218+00, 55 FT. SLY	SIGHT ON 228+00 55' SLY
			86	23	#1 5° 27'	
			101	08	2 6 43	
			107	02	3 7 40	
			115	-06	4 9 13	
			131	-22	5 10 58	
			143	-34	6 12 49	
			162	-53	7 14 16	
			172	-63	8 15 44	
			175	-66	9 17 12.	
			201	-92	10 18° 52	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2429 Pg. 25
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Rk. R. MANOR Checked ____ Survey by English Notes Caro Date 11-29-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Index G. D. BAILEY Date JAN 11 1974

Profile No.	Notes Red.	Plotted	Job No. 0300.02 Division No. 11	F. B. 2429 Pg. 27
	Date	Date	Survey of HYDRO. SURVEY	
X-Sec. No.	Notes Chkd.	Checked	Survey by RICHARDS Notes R.T. Date 11-29-73	
	Date	Date	Map No. Indexed G. D. BAILEY Dates JAN 11 1974	



RANGE = 228+00

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

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
Z-9 55' OFF	Z-10 55' OFF	9:58	1	313	18			
			2	314	42			
			3	316	22			
			4	317	57			
			5	320	01			
			6	321	58			
			7	323	47			
			8	325	58			
			9	327	58			
			10	329	30			
			11	331	06			
			12	332	54			
			13	334	36			
			14	337	45			
			15	340	16			
			16	341	22			
			17	343	50			
			18	345	08			
			19	347	04			
			20	348	12			

76L298 307 Cdb 12-62

F. B. 2429 PG. 28 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO. SURVEY Date Date No.

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

Indexed G. D. BAILEY Date JAN 11 1974 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					
Z-9 55' OFF	Z-10 55' OFF		21	349	45			
			22	351	11			
			23	352	39			
			24	353	47			
		10:04	25	354	51			

Notes Ck'd by R. MANOR	Survey of HYDROGRAPHIC SURVEY	F. B. 2429 PG. 29
Map No.	JN 0300.02 Tape Std °F	
Office Work	Surveyed by RICHARDS	
Checked	Notes HARRIET Date 11-29-73	
Date JAN 17 1974	Indexed G. D. BAILEY JAN 11 1974	

TIDE GAGE READINGS
NOV. 29, 1973
TIME - P.S.T.
DATUM - M.L.L.W.

TIME	TIDE
6:00	2.9
6:30	3.2
7:00	3.4
7:30	3.7
8:00	3.9
8:30	4.2
9:00	4.4
9:30	4.6
10:00	4.7
10:30	4.7
11:00	4.7
11:30	4.6
12:00	4.3
12:30	4.0
1:00	3.6
1:30	3.2
2:00	2.7

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

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

Do not extend this side of this line.

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

16F309S CE#310 3-68

76-L-298 CE 307 8-70

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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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	232+00
		17 81				
T.P.	413	17 80	414	13 67		
T.P.	965	27 22	023	17 57		
R.M.Z-10			094	26 28	Z.M.Z-10 El. = 26.29 F.B. 2100-117	
	069	26 98		26 29		
T.P.	000	17 66	932	17 66		
232+00			14	163	Beach con't. line sand	
			37	140		42.0 R. toe cliff "
			33	144	7.0 L. brk. sand	
			50	127	15.0 L. " "	
			52	125	39.0 L. " "	
			81	96	44.0 L. " "	
			112	65	73.0 L. "	
	044	9 26 (3)	884	882	73.0 L. top 4' 1x2	
					↑ 218+00 (55' SLY) SIGHT ON 222+00 55 S'LY	
			176	-83	#1 12° 53'	
			156	-63	2 11 19	
			149	-~~44~~ 56	3 9 54	
			117	-24	4 8 32	
			104	-11	5 7 20	
			91	02	6 6 07	
			80	13	7 4° 52	
			47	46	95 FT LEFT M.H.W. NO OFFSET	

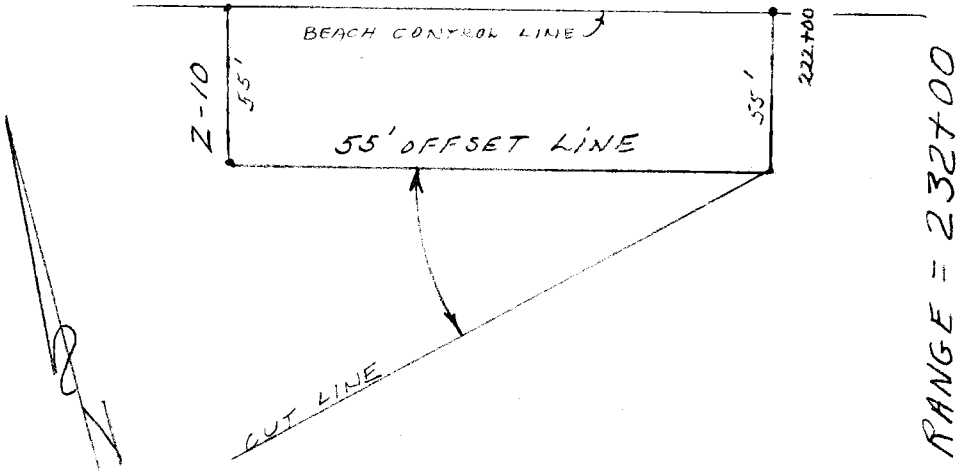
Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2429 Pg. 31
Date ____ Date ____ Survey of Hydrosurvey
X-Sec. No. ____ Notes Cut'd R. MANOR Checked ____ Survey by English Notes Caro Date 11 19 73
Date JAN 17 1974 Date ____ Map No. ____ Index G. D. BAILEY Date JAN 11 1974

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 0300.02 Division No. 11 | F. B. 2429 Pg. 33

Date _____ Date _____ Survey of HYDRO. SURVEY

X-Sec. No. _____ Notes Chkd. _____ Checked _____ Survey by RICHARDS Notes R.T. Date 11-30-73

Date _____ Date _____ Map No. _____ Indexed S. D. BAILEY Date JAN 11 1974



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.	Range Line Min.	Card No
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
222+00 55' OFF	Z-10 55' OFF	8:06	1	296	51			
			2	297	32			
			3	298	37			
			4	299	50			
			5	301	22			
			6	302	55			
			7	304	05			
			8	305	00			
			9	307	32			
			10	309	13			
			11	310	48			
			12	312	41			
			13	314	13			
			14	315	26			
			15	318	23			
			16	320	22			
			17	322	09			
			18	323	55			
			19	326	20			
			20	328	57			

76L298 307 Cdb 12-62

F. B. 2429 PG. 34 | Job No. D300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO. SURVEY Date Date No.

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

Indexed G. D. BAILEY Date JAN 11 1974 Date Date No.

761298 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					
222+00 53' OFF	N-10 53' OFF		21	331	35			
			22	333	40			
			23	336	20			
			24	339	26			
			25	342	35			
			26	343	54			
			27	344	34			
		8:13	28	347	34			

76-L-298 CE 307 8-70

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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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	235+00
		1766				
T.P.	538	1767	537	1229		
235+00			60	117	Beach Con't. line	sand
			37	140		25.0R. toe Cliff "
			64	113	6.0L brk. sand	
			78	99	10.0L. " "	
			110	67	42.0L. "	
	012	2 915	864	903	42.0L. top 4'1x2	
					⊼ AT 232+00 (NO OFF.)	SIGHT ON 235+00
			46	46	70 FT LEFT M.H.W.	(NO OFF.)
			66	36	#1 13° 50'	
			62	30	2 17 33	
			85	07	3 21 44	
			98	-06	4 24 24	
			108	-16	5 30 24	
			130	-38	6 32 42	
			131	-39	7 35 20	
			151	-59	8 39 02	
			164	-72	9 41 44	
			184	-92	10 43° 58'	

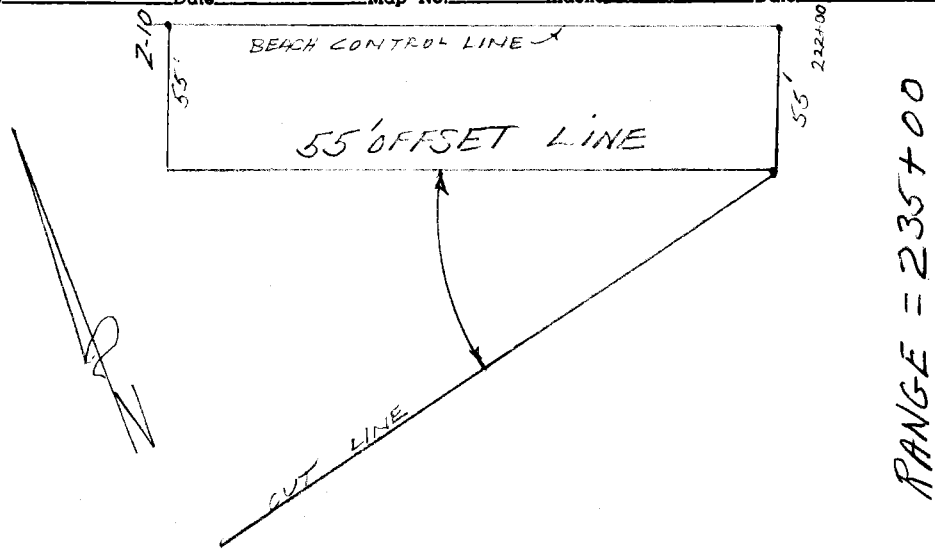
Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2429 Pg. 35
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Blk. MANOR Checked ____ Survey by English Notes Caro Date 11-29-30
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed B. D. BAILEY Date JAN 11 1974

Profile No. _____ Notes Red. _____ Date _____ Plotted _____ Date _____ Job No. 0300.02 Division No. 11 Survey of HYDRO. SURVEY

F. B. 2429 Pg. 37

X-Sec. No. _____ Notes Chkd. _____ Date _____ Checked _____ Date _____ Survey by RICHARDS Notes R.T. Date 11-30-73

Map No. _____ Indexed A. D. BAILEY Date JAN 11 1974



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					
222+00 55' OFF	Z-10 55' OFF	8:24	1	302	38			
			2	304	27			
			3	306	18			
			4	307	49			
			5	309	32			
			6	311	21			
			7	312	50			
			8	314	56			
			9	317	18			
			10	319	18			
			11	321	22			
			12	323	20			
			13	325	15			
			14	326	52			
			15	328	22			
			16	330	17			
			17	332	42			
			18	334	15			
			19	336	13			
			20	337	50			

76L298 307 Cdb 12-62

F. B. 2429 PG. 38 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

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

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

Indexed G. D. BAILEY Date JAN 11 1974 Date _____ Date _____ No. _____

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
222+00 55' OFF	Z-10 55' OFF		21	339	45			
			22	340	54			
			23	342	59			
			24	345	04			
			25	346	25			
		8:29	26	347	55			

76-L-298 CE 307 8-70

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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.

Range Line 239+00

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	239+00
		17 67				
T.P.	624	10 93	698	10 69		
239+00			61	10.8	Beach Cont. line	sand
			20	149		50.0R. toe cliff "
			98	71	46.0L. sand	
	032	9 93	732	96	46.0L. top 4'1x2	
					ON 232+00 SIGHT ON Z-11	
			185	-76	#1 18° 28'	
			148	-49	2 16 25	
			136	-37	3 14 23	
			121	-22	4 11 30	
			98	01	5 9 22	
			87	12	6 7 21	
			76	23	7 5° 07'	
			53	46	8.4 FT LEFT M.H.W.	

Profile Notes Red _____ Plotted _____ Job No. 03002 Division No. _____ F. B. 2179 PG. 39
No. _____ Date _____ Date _____ Survey of Hydrosurvey Date _____
X-Sec. Notes Chk'd R. MANOR Checked _____ Survey by English Notes Chk'd _____ Date _____
No. _____ Date JAN 17 1974 Date _____ Map No. _____ Indexed G. D. BAILEY Date JAN 11 1974

76L298 307 Cdb 12-62

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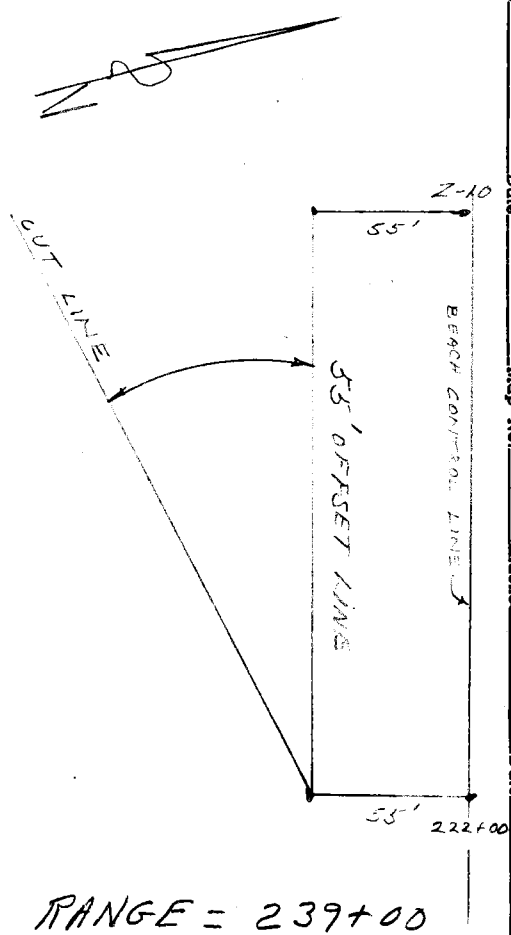
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
222+00 55' OFF	Z-10 55' OFF	8:40	1	310	53			
			2	312	23			
			3	314	04			
			4	315	48			
			5	317	11			
			6	318	51			
			7	320	43			
			8	322	47			
			9	324	38			
			10	326	44			
			11	328	31			
			12	330	49			
			13	334	32			
			14	337	03			
			15	339	35			
			16	341	58			
			17	343	23			
			18	345	28			
			19	347	10			
			20	348	00			



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 11 F. B. 2429 Pg. 41
X-Sec. No. ____ Date ____ Date ____ Date ____ Survey of HYDRO. SURVEY
Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by R.L. RICHARDS Notes R.T. Date 11-30-73
Map No. ____ Date ____ Indexed D. D. BAILEY Date JAN 11 1974

F. B. 2429 PG. 42 | Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

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

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

Indexed ~~G. D. BAILEY~~ Date JAN 11 1974 Date _____ Date _____ No. _____

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
222+00 55' OFF	2-10 55' OFF	8:46	21	349	23			

Do not extend notes this side of this line.

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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761.298 307 Cdb 12-62

76-L-298 CE 307 8-70

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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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	243+00
		16 93				
T.P.	8 14	18 20	6 87	10 06		
243+00			32	15 0	Beach Con't. line	sand
			11	17 1		40.0R. toe Cliff "
			10 5	7 7	73.0 Sand	
	0 19	10 3 ~~9~~ 27	8 12	10 ~~9~~ 08	73.0 top 4' 1x2	
					⊼ AT 239+00 SIGHT ON 243+00	
			4 7	5 ~~4~~ 6	96 FT. LEFT M.H.W.	
			6 6	3 ~~2~~ 7	#1 17° 18'	
			9 6	*0 7 ~~3~~	2 19° 18	
			9 9	*0 4 ~~6~~	3 21 32	
			10 8	-0 ~~1~~ 5	4 24 58	
			12 2	-1 ~~2~~ 9	5 28 55	
			13 7	-3 ~~4~~ 4	6 32 22	
			15 4	-5 ~~6~~ 1	7 35 44	
			17 5	-7 ~~8~~ 2	8 38 34	
			20 5	-10 ~~11~~ 2	9 40° 39'	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.07 Division No. ____ F.B. 2429 PG. 43

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

Notes Chk. MANOR Checked ____ Survey by Eng. Notes Carv. Date 11-29-73

Date ____ Date ____ Map No. ____ Index G. D. BAILEY Date JAN 11 1974

76L298 307 Cdb 12-62

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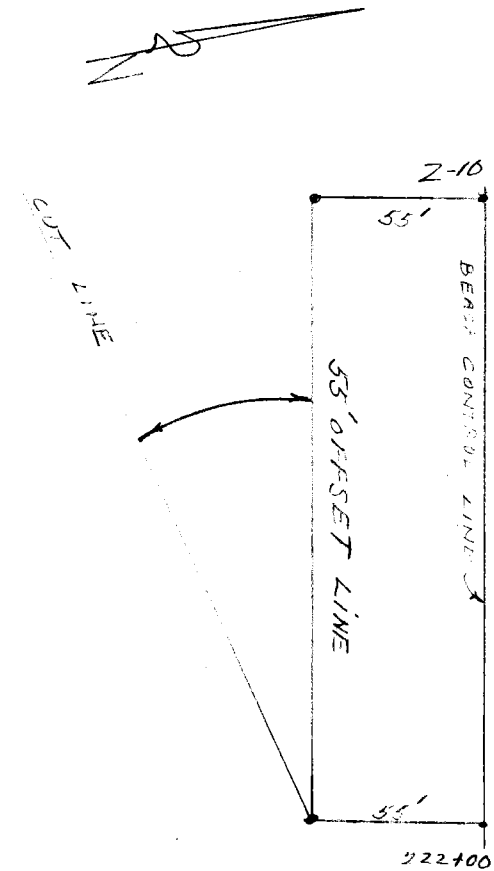
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
222+00 55' OFF	Z-10 55' OFF	8:56	1	315	45			
			2	317	03			
			3	318	22			
			4	319	47			
			5	321	23			
			6	323	16			
			7	324	41			
			8	326	16			
			9	327	51			
			10	329	36			
			11	331	37			
			12	333	30			
			13	335	27			
			14	336	59			
			15	338	27			
			16	340	09			
			17	341	35			
			18	342	50			
			19	344	21			
			20	346	01			



RANGE = 243+00

Profile Notes Red. Plotted Job No. 0300.02 Division No. 11 F. B. 2429 Pg. 45

No. Date Date Survey of HYDRO. SURVEY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes R.T. Date 11-30-73

No. Date Date Map No. Indexed G. D. BAILEY Date JAN 11 1974

F. B. 2429 PG. 46 | Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDRO SURVEY Date _____ Date _____ No. _____

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

Indexed G. D. BAILEY Date JAN 11 1974 Date _____ Date _____ No. _____

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
222+00 53' OFF	2-10 53' OFF		21	346	53			
			22	347	59			
			23	349	15			
			24	350	24			
			25	351	15			
		9.102	26	351	52			

Do not extend notes this side of this line.

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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761298 307 Cdb 12-62

76-L-298 CE 307 8-70

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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	247+00
		18 20				
T.P.	596	19 72	444	1376		
Z-12			344	1628	Z-12 El. = 16.29 F.B. 2100-119	
	183	18 09		1629		
247+00			30	151	Beach Cont. line	
			14	167		21.0R: toe cliff
			35	146	20.0L. brk. sand	
			46	135	22.0L. " "	
			55	126	64.0L. " "	
			92	89	98.0L. "	
	-069	10 49 (5, 16, 19)	691	11 18	98.0L. top 4'/X7	
					↑ AT 239+00 SIGHT ON Z-12 (245+94.85)	
			225	-120	#1 32° 15'	(EST. 4' OVER ROD)
			185	-80	2 28 34	
			183	-78	3 26 21	
			155	-50	4 23 54	
			136	-31	5 21 54	
			119	-14	6 19 05	
			107	-02	7 16 51	
			100	05	8 14 43	
			81	24	9 13 30	
			69	36	10 12° 31'	
			59	46	136 FT LEFT M.H.W.	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2429 Pg. 47
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Chk'd R. MANOR Checked ____ Survey by English Notes Carp Date 11-29-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

76L298 307 Cdb 12-62

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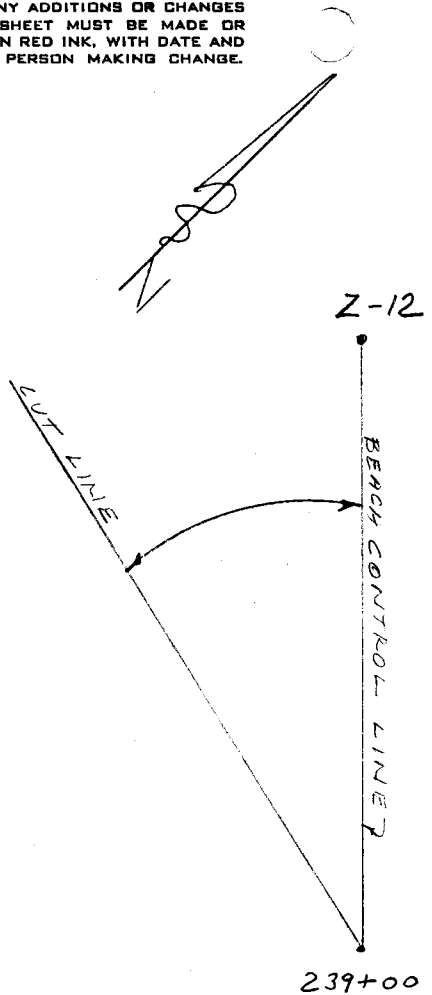
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
239+00	Z-12	9:24	1	274	33			
			2	275	34			
			3	277	05			
			4	278	23			
			5	280	10			
			6	281	49			
			7	283	38			
			8	285	55			
			9	288	59			
			10	292	17			
			11	294	49			
			12	298	14			
			13	301	13			
			14	304	46			
			15	307	38			
			16	311	14			
			17	315	02			
			18	318	29			
			19	322	17			
			20	326	02			



RANGE = 247+00

Profile Notes Red. Plotted Job No. 0300.02 Division No. 11 F. B. 2429 PG. 49
No. Date Date Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes Date 1-30-73
No. Date Date Map No. Indexed G. D. BAILEY Date JAN 11 1974

F. B. 2429 PG. 50 | Job No. 0300.02 | Division No. 11 | Notes Red. | Plotted | Profile

Survey of HYDRO. SURVEY | Date | Date | No.

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

Indexed D. D. BAILEY | Date JAN 11 1974 | Date | Date | No.

761.298 307 Gdb 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.
239+00	Z-12		21	329	07			
			22	331	09			
			23	335	22			
		9:30	24	338	32			

76-L-298 CE 307 8-70

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.

Range Line

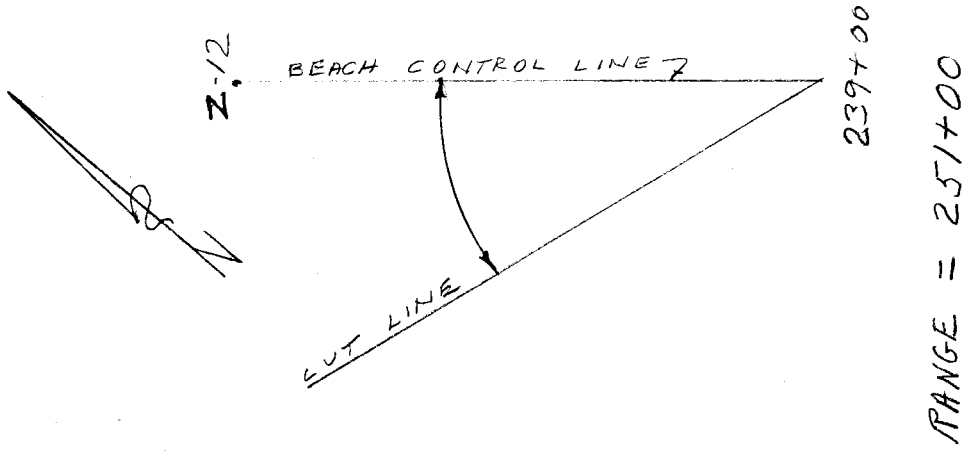
STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	251+00
		18 09				
T.P.	4 34	16.94	549	1260		
251+00		(+)	16	185	(H.L.) Beach Cont. line Sand	
		(+)	68	237	"	37.0R. toe cliff "
			48	121	10.0 L. brk. Sand	
			64	105	48.0 L. " "	
			90	79	79.0 L. "	
	-0 24	10 20	650	1044	79.0 L. top 4' 1x2	
					⊼ AT Z-12 SIGHT ON 251+00	
			56	46	120 FT. LEFT M.H.W.	
			70	32	#1 13° 43'	
			111	-09	2 16 04	
			107	-05	3 18 58	
			113	-11	4 21 42	
			150	-48	5 25 22	
			162	-60	6 28 26	
			159	-57	7 30 55	
			181	-79	8 33 41	
			186	-84	9 35° 49'	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2429 Pg. 51
Date ____ Date ____ Survey of Hydrosurvey
X-Sec. No. ____ Notes Ck'd R. MANOR Checked ____ Survey by English Notes Carg Date 11 30 73
Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

Profile No. _____ Notes Red. _____ Date _____ Plotted _____ Date _____ Job No. 0300.02 Division No. 11 Survey of HYDRO. SURVEY Survey by RICHARDS Notes R.T. Date 11-30-73 Map No. _____ Indexed G. D. BAILEY Date JAN 11 1974

F. B. 2429 Pg. 53

X-Sec. No. _____ Notes Chkd. _____ Date _____ Checked _____ 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					
239+00	Z-12	9143	1	287	34			
			2	289	11			
			3	291	07			
			4	292	40			
			5	294	54			
			6	297	10			
			7	299	22			
			8	302	07			
			9	304	27			
			10	306	07			
			11	308	29			
			12	310	52			
			13	312	28			
			14	313	45			
			15	314	47			
			16	316	21			
			17	318	22			
			18	320	09			
			19	322	48			
			20	325	35			

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. 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					
239+00	Z-12		21	327	36			
			22	330	10			
			23	332	47			
			24	334	26			
			25	336	50			
			26	338	10			
		9:49	27	339	54			

F. B. 2429 Pg. 54

Survey of HYDRO SURVEY

Survey by RICHARDS

Indexed A. D. BAILEY

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

Notes R.T. Date Date

Date JAN 11 1974 Notes Chkd. Checked

Date Date

Profile No. X-Sec. No.

76-L-298 CE 307 8-70

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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	255+00
		16 94				
T.P.	2 11	18 00	1 05	15 89	spk	
255+00			8 1	9 9	Beach Con't. line	Sand
			6 8	11 2		12.0 R. brk. "
			5 1	12 9		19.0 R. " "
			4 2	13 8		47.0 R " "
		(+)	0 3	18 3	(H. L.)	57.0 R. " "
		(+)	0 5	18 5	"	94.0 R. toe cliff "
			9 8	8 2	17.0 L. Sand	
	-0 65	9 75	7 60	10 40	17.0 L. top 4'1x2	
					⊼ AT Z 13 SIGHT ON Z 14	
			17 5	-7 7	#1 44° 15'	
			16 5	-6 7	2 40 08	
			15 2	-5 4	3 34 54	
			14 0	-4 2	4 29 56	
			11 6	-1 8	5 25 54	
			9 5	0 3	6 21 31	
			9 7	0 1	7 17 08	
			8 6	1 2	8 13 32	
			6 6	3 2	51 FT LEFT	
			5 2	4 6	43 " " M.H.W.	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2429 Pg. 55

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

Notes Rk. MANOR Checked ____ Survey by English Notes Carte Date 11-30-73

Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

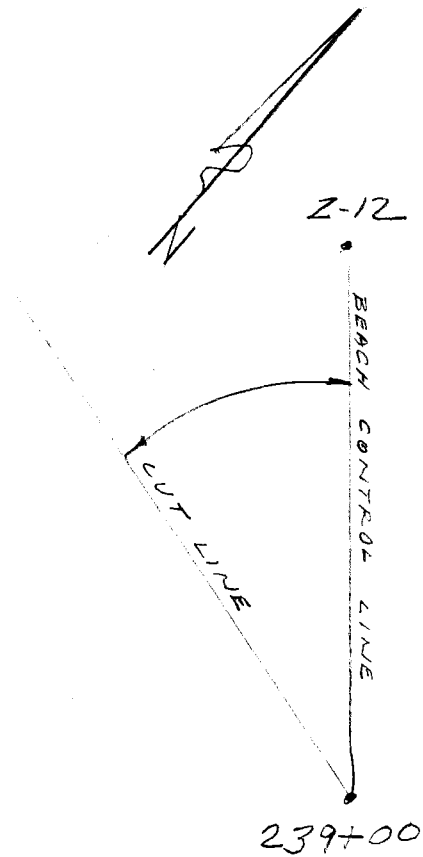
76L298 307 Cdb 12-62

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					
239+00	Z-12	10:00	1	285	37			
			2	287	16			
			3	289	17			
			4	291	50			
			5	294	40			
			6	297	10			
			7	299	38			
			8	303	18			
			9	306	14			
			10	308	54			
			11	311	56			
			12	314	58			
			13	318	18			
			14	321	32			
			15	324	20			
			16	327	21			
			17	329	23			
			18	331	25			
			19	335	13			
			20	336	20			



RANGE = 255+00

Profile Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 11 F.B. 2429 Pg. 57
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-30-73
No. ____ Date ____ Date ____ Map No. ____ Indexed D. BAILEY Date JAN 11 1974

F. B. 2429 PG. 58 | Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

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

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

Indexed G. D. BAILEY Date JAN 11 1974 Date _____ Date _____ No. _____

761298 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.
239+00	Z-12		21	338	31			
			22	339	41			
			23	341	30			
		10:06	24	342	33			

76-L-298 CE 307 8-70

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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	259+00
		18 00				
T.P.	340	14 15	725	10.75		
259+00			90	52	Beach Con't. line Sand	
			635	780	top 4' 1x2	
			35	107		49.0 R. brk. Sand
			25	117		51.0 R. " "
			10	132		59.0 R. " "
		(+)	15	157 (H.L.)		93.0 R toe Cliff "
					⊼ AT Z-13 SIGHT ON Z-14	
	182	962		780	TOP 4' 1x2	
			50	46	7 FT. LEFT M.H.W.	
			80	16	1 2° 31'	
			81	15	2 4 14	
			71	25	3 6 17	
			128	-32	4 8 33	
			137	-41	5 10 35	
			146	-50	6 13 48	
			163	-67	7 16 42	
			180	-84	8 19° 54'	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2429 Pg. 59

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

Notes Cont'd R. MANOR Checked ____ Survey by English Notes Carl Date 11-30-73

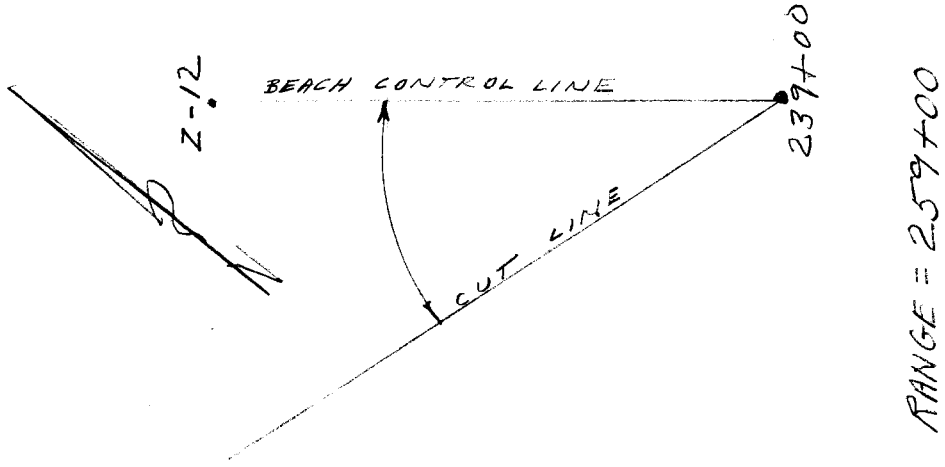
Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

Profile No. _____ Notes Red. _____ Date _____ Plotted _____ Date _____ Job No. 0300.02 Division No. 11 F. B. 2429 Pg. 61

X-Sec. No. _____ Notes Chkd. _____ Date _____ Checked _____ Date _____ Survey of HYDRO SURVEY

Survey by RICHARDS Notes R.T. Date 11-30-73

Map No. _____ Indexed G. D. BAILEY Date JAN 11 1974



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					
239+00	Z-12	10:19	1	293	27			
			2	294	49			
			3	296	37			
			4	298	57			
			5	300	49			
			6	303	04			
			7	305	32			
			8	308	08			
			9	310	40			
			10	312	51			
			11	315	46			
			12	318	25			
			13	321	01			
			14	323	51			
			15	326	38			
			16	328	20			
			17	330	04			
			18	332	33			
			19	334	45			
			20	336	13			

76L298 307 Cdb 12-62

F. B. 2429 PG. 62 | Job No. 030002 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDRO SURVEY Date _____ Date _____ No. _____

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

Indexed G. D. BAILEY Date JAN 11 1974 Date _____ Date _____ No. _____

761298 307 Gdb 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.
239+00	Z-12		21	338	00			
			22	339	24			
			23	341	17			
		13:25	24	342	34			

76-L-298 CE 307 8-70

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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	262+25
		14 15				
T.P.	785	15 83	617	798		
262+25			71	87	Beach Cont Line Sand	
	076		543	1040	top 4'1x2	
			27	131		52.0 R. brk. sand
			01	157		98.0 R. toe Cliff ..
					⊼ AT Z13 SIGHT ON Z14	
		110				
	057	10 97		1040		
			193	-83	#1 13° 13'	
			172	-62	2 11 11	
			150	-40	3 9 36	
			137	-27	4 7 44	
			120	-10	5 6 01	
			114	-04	6 4 47	
			98	12	7 3 28	
			78	32	8 2° 19'	
			64	46	33 FT. LEFT M.H.W.	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2429 Pg. 63

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

Notes Checked ____ Survey by English Notes Card Date 11-30-73

Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

R. MANOR

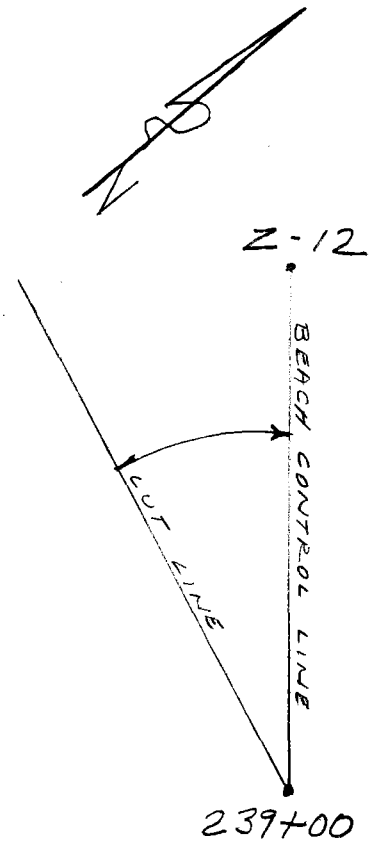
76L298 307 Cdb 12-62

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					
239+00	Z-12	10:44	1	298	03			
			2	299	26			
			3	301	33			
			4	303	31			
			5	305	22			
			6	307	22			
			7	309	08			
			8	311	34			
			9	314	05			
			10	316	02			
			11	317	36			
			12	319	22			
			13	321	12			
			14	323	05			
			15	324	43			
			16	325	32			
			17	327	54			
			18	329	10			
			19	330	27			
			20	332	29			



RANGE = 262+25

Profile Notes Red. ____ Plotted ____ Job No. 0300.03 Division No. 11 F.B. 2429 Pg. 65
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-30-73
No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

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. 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					
239+00	Z-12		21	333	41			
			22	334	55			
			23	336	11			
			24	337	18			
			25	338	36			
			26	339	54			
			27	340	26			
		10:51	28	341	08			

F. B. 2429 Pg. 66

Job No. 0300.02 Division No. 11

Survey of HYDRO SURVEY

Survey by RICHARDS

Indexed G. D. BAILEY

Profile No.

X-Sec. No.

Plotted Date

Checked Date

Notes Red. Date

Notes Chkd. Date

Notes

Date JAN 14 1974

76-L-298 CE 307 8-70

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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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV.	M. L. L. W	266+25
		15 83				
T.P.	897	1584	896	687		
266+25			69	89	Beach Con't. line Sand	
			501	1081	top 4' 1x2	
			17	141		71.0R. toe cliff "
		(+)	33	191		81.0R. Slope grd.
		6			⊼ AT 275+25, 25' OFFSET SLY SIGHT ON 266+25 25' OFFSET SLY	
	-023	1058		1081	Top 1x2	
			60	46	29 FT. LEFT M.H.W.	
			82	24	1 1° 26'	
			111	-05	2 4 16	
			115	-09	3 6 06	
			137	-31	4 8 09	
			171	-65	5 9 25	
			185	-79	6 12° 42'	

Profile Notes Red ____ Plotted ____ Job No. 030002 Division No. ____ F.B. 2429 PG. 67
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Cut ____ Checked ____ Survey by English Notes Cary Date [illegible]
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

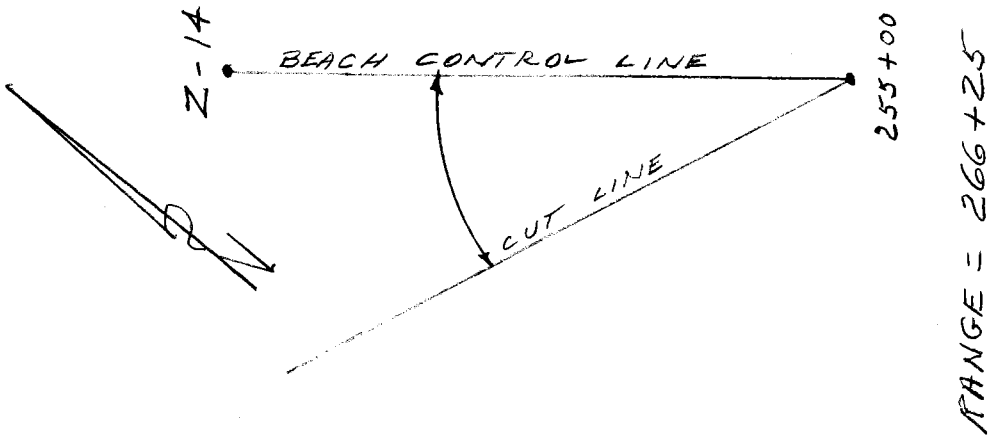
R. MANOR

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 11 F. B. 2429 Pg. 69

Date ____ Date ____ Survey of HYDRO. SURVEY

X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-30-73

Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974



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					
255+00	Z-14	11:11	1	302	28			
			2	303	48			
			3	305	11			
			4	306	38			
			5	308	35			
			6	310	40			
			7	312	38			
			8	314	35			
			9	315	40			
			10	318	25			
			11	320	04			
			12	322	23			
			13	324	50			
			14	326	42			
			15	328	42			
			16	330	37			
			17	332	45			
			18	335	09			
			19	337	19			
			20	339	45			

76L298 307 Cdb 12-62

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					
255+00	Z-14		21	343	05			
			22	345	11			
			23	348	02			
			24	350	52			
		11:17	25	353	07			

F. B. 2429 PG. 70 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO. SURVEY Date Date No.

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

Indexed G. D. BAILEY Date JAN 11 1974 Date Date No.

76-L-298 CE 307 8-70

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	272+25
		15 84				
T. P.	570	17 02	452	11 32		
272+25			90	80	Beach Con't. line	
			78	92		36.0 R. brk. sand
			48	12 2		42.0 R. " "
			45	12 5		98.0 Toe Cliff
			91	79	13.0 L. brk Sand	
			116	54	25.0 L. "	
	216	10 ~~11~~ 12	906	7 ~~8~~ 96	25.0 L. top 4' 1x2	
		4 6				OFFSET 25' SLY
		6 5			⊼ 275+25, 25 FT. OFF SLY SIGHT ON 272+25	
			174	-7 ~~6~~ 3	#1 33° 43'	
			158	-5 ~~4~~ 7	2 29 57	
			147	-4 ~~3~~ 6	3 26 23	
			128	-2 ~~1~~ 7	4 22 43	
			120	-1 ~~0~~ 9	5 19 01	
			115	-1 ~~0~~ 4	6 14 26	
			115	-1 ~~0~~ 4	7 10 47	
			91	3 ~~2~~ 0	8 6 36	
			81	4 ~~3~~ 0	9 3 45	
			65	5 ~~4~~ 6	34 FT. LEFT (25'+9=34') M.H.W.	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2429 Pg. 71

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

Notes Date JAN 17 1974 Checked ____ Date ____ Survey by Fletch Notes Sand Date 11-30-73

Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

76L298 307 Cdb 12-62

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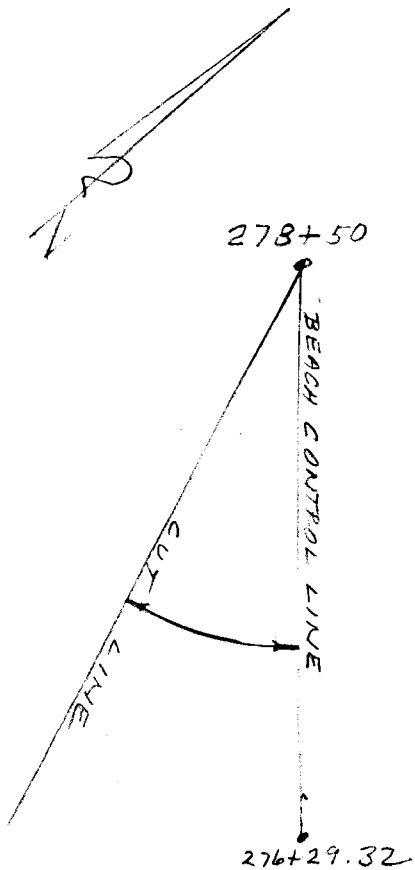
Do not extend notes this side of this line.

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					
278+50	276+29.32	11:48	1	63	28			
			2	62	37			
			3	61	31			
			4	60	36			
			5	59	38			
			6	58	00			
			7	56	48			
			8	55	26			
			9	53	17			
			10	52	01			
			11	50	27			
			12	49	09			
			13	47	23			
			14	45	28			
			15	42	44			
			16	39	00			
			17	37	13			
			18	34	10			
			19	32	28			
			20	28	38			



RANGE = 272+25

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2429 Pg. 73

No. ____ Date ____ Date ____ Survey of HYDRO SURVEY

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-30-73

No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F. B. 2429 Pg. 74 | Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDRO SURVEY Date _____ Date _____ No. _____

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

Indexed G. D. BAILEY Date JAN 11 1974 Date _____ Date _____ No. _____

761298 307 Gdb 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					
278+50	276+29.32		21	25	02			
			22	22	27			
		11/55	23	19	02			

Notes Ck'd by R. MANOR	Survey of HYDROGRAPHIC SURVEY
Map No.	JN 0300.02 Tape Std °F
Office Work	Surveyed by RICHARDS
Checked	Notes UHARRIET Date 11-30-73
Date JAN 17 1974	Indexed G. D. BAILEY JAN 11 1974

F. B. 2429 PG. 75

TIDE GAGE READINGS
NOV. 30, 1973
TIME - P.S.T.
DATUM - M.L.L.W.

TIME	TIDE
6:00	2.8
6:30	2.8
7:00	3.0
7:30	3.2
8:00	3.4
8:30	3.6
9:00	3.7
9:30	4.0
10:00	4.1
10:30	4.2
11:00	4.3
11:30	4.3
12:00	4.2
12:30	4.0
1:00	3.8
1:30	3.5
2:00	3.2

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

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.
Do not extend this side of this line.
PLEASE RETURN TO
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DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.
76F309S CE#310 3-69

76-L-298 CE 307 8-70

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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.

Range line

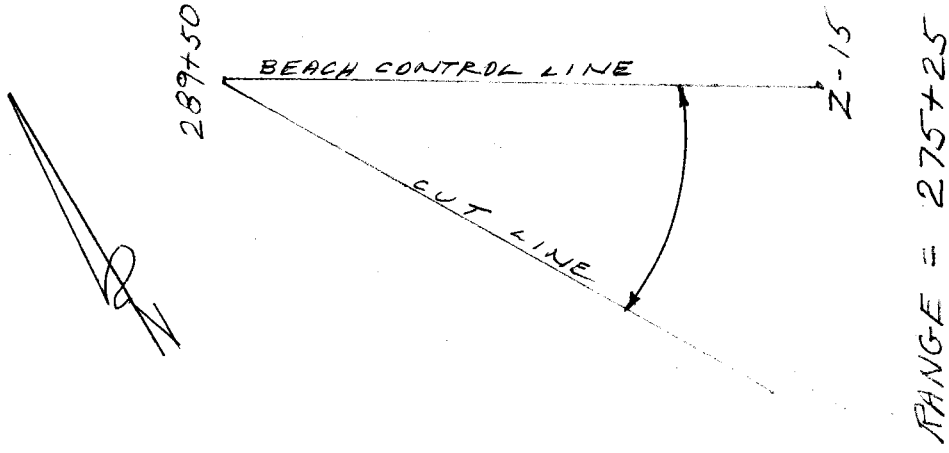
STATION	B. S.	H. I.	F. S.	ELEV.	M. L. L. W.	275+25
		17 02				
T.P.	236	16 22	316	1386		
T.B.M.			196	1426	T.B.M. El = 14.25	P.O.T. 275+03.77
	136	15 61		1425		F.B. 2316-60
275+25			34	122	25' Off set F.B. 2316-56 Sand	
			29	~~14~~ 12 7		6.0 R toe Cliff "
		4	89	67	54.0 L. Sand	
	-1 80	7 45	636	925	54.0 L. top 4' 1x2	
			28	46	79 FT. LEFT M.H.W.	
			~~60~~		↑ AT 284+50 SIGHT ON 275+25	
			60	14	#1 9° 17'	AMONG 3'± ROCKS
			78	-0 ~~6~~ 4	2 10 51	
			98	-24	3 12 46	
			131	-57	4 16 12	
			140	-66	5 18 27	
			147	-73	6 20 16	
			148	-74	7 22 36	
			140	-66	8 24 47	
			170	-96	9 27 17	
			181	-107	10 28° 47'	

Profile No. ____ Notes Red ____ Date R. MANOR Plotted ____ Date ____ Job No. 0300.02 Division No. ____ Survey of Hydrosurvey

X-Sec. No. ____ Notes Chk'd. ____ Date JAN 17 1974 Checked ____ Date ____ Survey by English Notes Card Date 12-3 Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F.B. 2429 PG. 77

Profile No.	Notes Red.	Plotted	Job No. 0300.02 Division No. 11	F. B. 2429 Pg. 79
	Date	Date	Survey of HYDRO. SURVEY	
X-Sec. No.	Notes Chkd.	Checked	Survey by RICHARDS Notes R.J. Date 12-3-73	
	Date	Date	Map No. Indexed G. D. BAILEY Date JAN 11 1974	



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					
289+50	Z-15	10:03	1	56	38			
			2	56	07			
			3	55	29			
			4	55	07			
			5	54	34			
			6	53	58			
			7	52	42			
			8	51	51			
			9	50	43			
			10	49	20			
			11	47	28			
			12	45	35			
			13	44	02			
			14	42	25			
			15	40	58			
			16	39	04			
			17	36	46			
			18	35	33			
			19	32	55			
			20	31	00			

76L298 307 Gdb 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					
289+50	2-15		21	28	45			
			22	26	58			
			23	24	52			
			24	23	30			
			25	21	50			
			26	20	01			
			27	18	27			
			28	16	44			
			29	15	09			
			30	13	55			
		10:10	31	12	51			

F. B. 2429 Pg. 80 | Job No. 0300.02 | Division No. 11 | Notes Red. | Plotted | Profile

Survey of HYDRO. SURVEY | Date | No. | X-Sec.

Survey by RICHARDS | Notes N.T. | Notes Chkd. | Checked

Indexed G. D. BAILEY | Date JAN 11 1974 | Date | Date | No.

76-L-298 CE 307 8-70

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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.

Range Line 278+50

STATION	B. S.	H. I.	F. S.	ELEV. =	M.L.L.W.	
		1561				
T.P.	529	1761	329	1232		
278+50			38	138	Beach Cont. line	Sand
			19	157		23.0 R. brk sand
			10	166		47.0 R. toe cliff "
			69	107	48.0 L. brk. sand	
			100	76	82.0 L. "	
	-197	766	798	963	82.0 L. top 4' 1x2	
					⊼ AT 284+50 SIGHT ON 278+50	
			-180	-103	1 43° 07	
			173	-96	2 40 38	
			180	-103	3 37 56	
			156	-79	4 35 03	
			154	-77	5 32 27	
			130	-53	6 28 48	
			139	-62	7 25 32	
			116	-39	8 22 22	
			95	-18	9 19 43	
			84	-07	10 17 01	
			73	03	11 14 26	
			62	15	12 12° 28'	
			31	46	111 FT. LEFT M.H.W.	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2429 Pg. 81
No. ____ Date ____ Date ____ Survey of Hydrog Survey
X-Sec. Notes Chkd. R. MANOR Checked ____ Survey by English Notes Caro Date 12-3-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

76L298 307 Cdb 12-62

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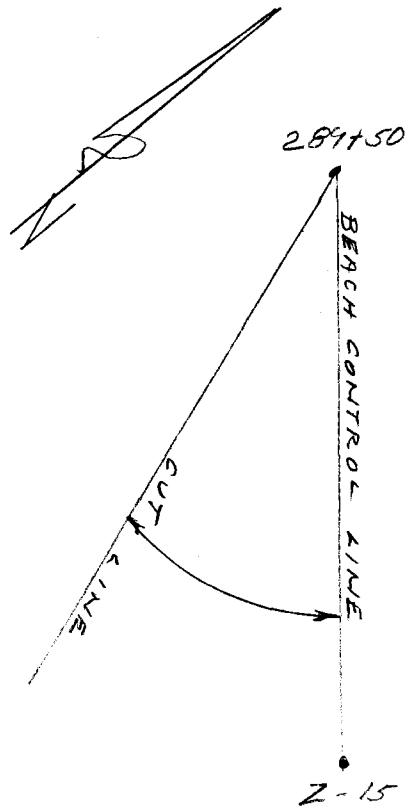
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE MIN.	LINE	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH						
289+50	Z-15	10:24	1	66	04				
			2	65	09				
			3	64	05				
			4	63	08				
			5	62	25				
			6	61	48				
			7	60	46				
			8	59	53				
			9	58	59				
			10	57	46				
			11	56	51				
			12	55	25				
			13	53	53				
			14	51	46				
			15	50	08				
			16	48	14				
			17	46	45				
			18	45	15				
			19	43	08				
			20	41	30				



RANGE = 278+50

Profile Notes Red ____ Plotted ____ Job No. 2300.02 Division No. 11 F. B. 2429 PG. 83
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 12-3-73
No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F. B. 2429 PG. 84 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO SURVEY Date Date No.

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

Indexed G. D. BAILEY Date JAN 11 1974 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 DON'T PUNCH	SIGHT ON DON'T PUNCH	TIME DON'T PUNCH	ANGLE Nº DON'T PUNCH	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	FOR OFFICE USE ONLY LINE MIN.	FOR OFFICE USE ONLY CARD Nº.
289+50	Z-15		21	39	41			
			22	37	11			
			23	35	08			
			24	31	03			
			25	28	10			
			26	25	27			
			27	23	08			
			28	21	15			
			29	19	28			
			30	17	31			
			31	16	04			
		10:32	32	14	28			

76-L-298 CE 307 8-70

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	281+50
		1761				
T. P.	405	1802	364	1397		
			52	128	Beach Cont. line	Sand
			64	116		33.0R toe Cliff "
			14	166		41.0R. Slope
			47	133	19.0 L. brk. sand	
			71	109	26.0 L. " "	
			115	65	56.0 L. "	
	-135	787	880	922	56.0 L. top 4'1x2	
					⊼ AT Z15A (294+8429) SIGHT ON 281+50	
			33	46	70 FT. LEFT M.H.W.	
			70	09	#1 4° 42'	
			77	02	2 5 21	
			83	-04	3 6 33	
			104	-25	4 7 34	
			109	-30	5 9 46	
			136	-57	6 11 23	
			127	-48	7 12 42	
			142	-61	8 15 17	
			145	-66	9 17 11	
			146	-67	10 18° 01'	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 030002 Division No. ____ F.B. 2429 Pg. 85
X-Sec. No. ____ Date ____ Date ____ Survey of Hydro Survey
Notes Ck'd R. MANOR Checked ____ Survey by English Notes Caro Date 12-23-73
Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

76L298 307 Cdb 12-62

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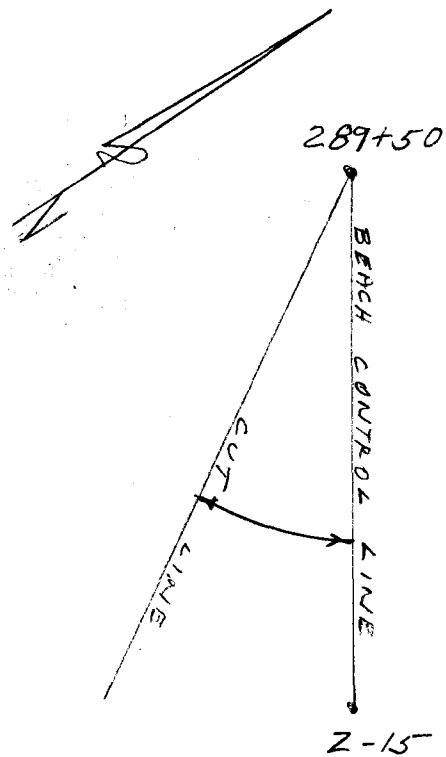
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
289+50	2-15	10:42	1	72	00			
			2	71	09			
			3	70	23			
			4	69	08			
			5	67	55			
			6	66	40			
			7	65	15			
			8	63	10			
			9	61	34			
			10	59	56			
			11	58	52			
			12	57	41			
			13	56	02			
			14	54	55			
			15	53	17			
			16	51	57			
			17	49	59			
			18	48	01			
			19	45	51			
			20	43	16			



RANGE = 281+50

Profile Notes Red. ____ Plotted ____ Job No. 0320.02 Division No. 11 F. B. 2429 Pg. 87
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes RIT Date 12-3-73
No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

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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. 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					
278+50	Z-15		21	42	09			
			22	39	53			
			23	37	55			
			24	35	43			
			25	33	49			
			26	31	41			
			27	29	44			
			28	28	23			
			29	26	19			
		10:50	30	26	04			

F. B. 2429 Pg. 88 | Job No. 2300.02 | Division No. 11 | Notes Red. | Plotted | Profile

Survey of HYDRO SURVEY | Date | No. | X-Sec.

Survey by RICHARDS | Notes | Date | Notes Chkd. | Checked

Indexed D. BAILEY | Date JAN 11 1974 | Date | Date | No.

76-L-298 CE 307 8-70

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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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	284+50
		18 02				
T.P.	372	1798	376	1426		
2+84+50			42	138	Beach Con't. line	sand
			55	125		55.0 R. brk "
			35	145		72.0 R. " "
			21	159		85.0 R " "
			16	164		120.0 R. toe Cliff
			42	138	3.0 L. brk sand	
			66	~~164~~ 11	9.0 L. " "	
			103	77	26.0 L. "	
	-150	812	836	962	26.0 L. top 4' 1x2	
		AC 35	35	46	AT 2-15A SIGHT ON 44 FT, FT LEFT M.H.W.	278+50
			177	-96	#1 23° 52	
			176		22 33	
			174	-93	2 20 31	
			158	-77	3 18 12	
			138	-57	4 16 26	
			OK? 166	-85	5 14 26	
			130	-49	6 12 23	
			122	-41	7 10 27	
			96	-15	8 8 16	
			93	-12	9 6 47	
			82	-01	10 5 25	
			66	15	11 4° 02	

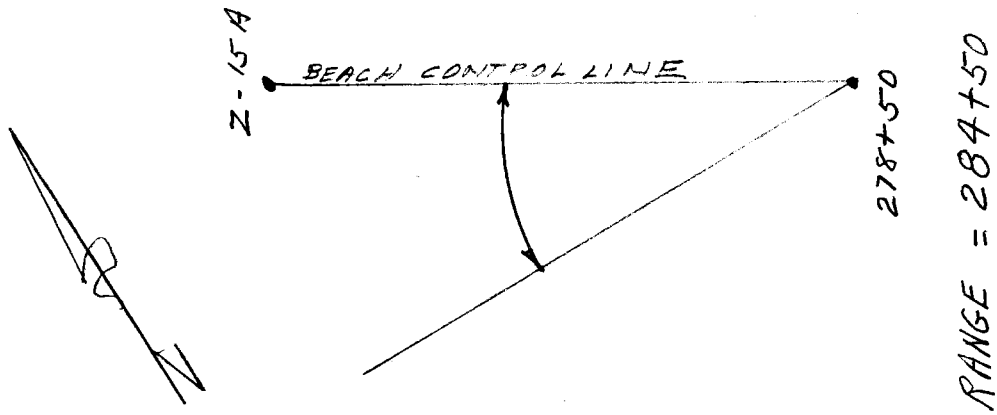
Profile Notes Red ____ Plotted ____ Job No. 83 00.02 Division No. ____ F.B. 2429 Pg. 89
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Ch. R. MANOR Checked ____ Survey by Engineer Notes Carp Date 12-3-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 0300.02 Division No. 11 F. B. 2429 Pg. 91

Date _____ Date _____ Survey of HYDRO SURVEY

X-Sec. No. _____ Notes Chkd. _____ Checked _____ Survey by RICHARDS Notes R.T. Date 12-3-73

Date _____ Date _____ Map No. _____ Indexed B. D. BAILEY Date JAN 11 1974



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					
278+50	Z-15A	11:06	1	283	25			
			2	283	55			
			3	284	34			
			4	285	22			
			5	285	56			
			6	286	45			
			7	287	31			
			8	288	10			
			9	289	02			
			10	289	59			
			11	290	45			
			12	291	31			
			13	292	42			
			14	293	35			
			15	294	28			
			16	295	24			
			17	296	59			
			18	298	33			
			19	299	56			
			20	301	58			

76L298 307 Cdb 12-62

F. B. 2429 PG. 92 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO. SURVEY Date Date No.

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

Indexed G. D. BAILEY Date JAN 11 1974 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					
278+50	Z-15A		21	304	57			
			22	306	01			
			23	308	16			
			24	310	20			
			25	312	59			
			26	316	18			
			27	318	23			
			28	320	55			
			29	323	22			
			30	327	14			
			31	330	40			
			32	333	40			
		11:13	33	334	51			

76-L-298 CE 307 8-70

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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	289+50
		1798				
T. P.	421	1779	440	1358		
289+50			51	127	Beach Con't. line	sand
			67	111		30.0R. brk. "
			39	139		86.0R. toe cliff "
			44	134	15.0L. brk sand	
			77	101	20.0L. " "	
			110	68	39.0L. "	
	-104	753	922	857	39.0L. top 4' 1x2	
			29	46	52 FT LEFT M.H.W.	
					#1 AT 284+50 SIGHT ON 289+50	
			56	19	#55 FT LEFT	
			73	02	#1 9° 32'	
			80	-05	2 12 38	
			84	-09	3 17 12	
			105	-30	4 21 57	
			84	-09	5 23 57	ROCK RIDGE
			111	-36	6 26 58	
			110	-35	7 31 27	
			138	-63	8 34 57	
			156	-81	9 39° 00'	

Profile Notes Red ____ Plotted ____ Job No. 030002 Division No. ____ F.B. 2429 Pg. 93
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Chk'd R. MANOR Checked ____ Survey by English Notes ____ Date 12-3-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

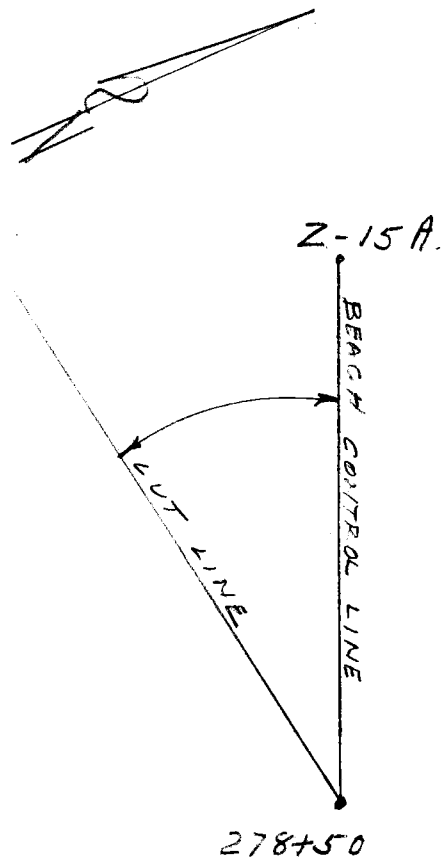
76L298 307 Cdb 12-62

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					
278+50	Z-15A	11:32	1	293	14			
			2	293	56			
			3	294	55			
			4	295	38			
			5	297	03			
			6	298	13			
			7	299	05			
			8	300	18			
			9	301	25			
			10	303	04			
			11	304	38			
			12	306	07			
			13	308	24			
			14	310	28			
			15	311	59			
			16	313	42			
			17	315	22			
			18	316	42			
			19	318	02			
			20	320	09			



RANGE = 289+50

Profile Notes Red.____ Plotted____ Job No. 03000.02 Division No. 11 F.B. 2429 Pg. 95
No.____ Date____ Date____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd.____ Checked____ Survey by RICHARDS Notes RT. Date 12-3-73
No.____ Date____ Date____ Map No.____ Indexed G.D. BAILEY Date JAN 11 1974

F. B. 2429 PG. 96 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

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

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

Indexed G. D. BAILEY Date JAN 11 1974 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					
278+50	Z-15A		21	322	16			
			22	324	19			
			23	326	41			
			24	328	59			
			25	331	19			
			26	334	24			
			27	336	11			
			28	338	13			
			29	340	06			
			30	341	27			
			31	343	14			
			32	344	25			
		11:39	33	345	18			

76-L-298 CE 307 8-70

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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	293+00
		17 79				
T. P	600	13 59	1020	7 59		
			70	66	Beach cont. line	sand
			47	89		18.0 R. brk "
			06	130		26.0 R. " "
			04	132		36.0 R. toe cliff. "
		(+)	51	187	(Hand level)	37.0 R. brk. grd.
			90	46	13.0 L. Sand M.H.W.	
	-043	693	623	736	13.0 L top 4'1x2	
					π AT 284+50 SIGHT ON 293+00	
			165	-96	#1 30° 10'	
			160	-91	2 27 43	
			115	-46	3 25 20	ROCK BOT.
			122	-53	4 23 53	
			133	-64	5 20 48	
			118	-49	6 17 58	
			110	-41	7 15 22	
			104	-35	8 14 35	
			86	-17	9 11 58	
			79	-10	10 9 26	
			77	-08	11 6 40	
			72	-03	12 4 43	
			66	03	13 3° 17'	
			54	15	40 FT LEFT SAND	

Profile Notes Red ____ Plotted ____ Job No. 03 00.02 Division No. ____ F.B. 2429 Pg. 97
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chk'd. R. MANOR Checked ____ Survey by English Notes Caro Date 12-3-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

76L298 307 Cdb 12-62

PLEASE RETURN TO

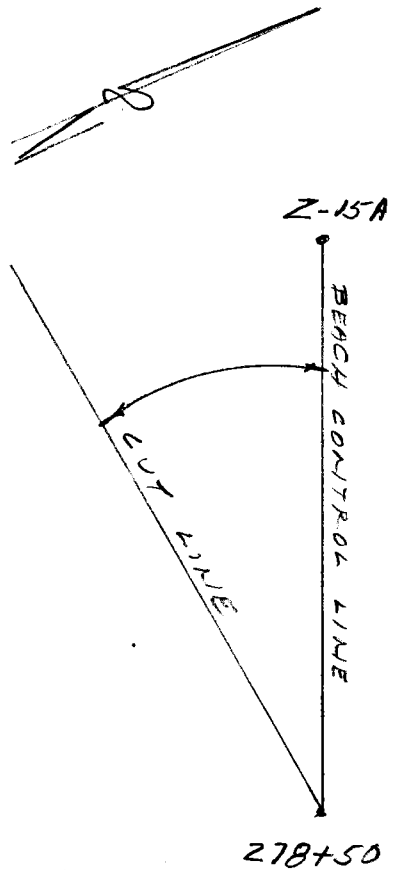
LOS ANGELES COUNTY SURVEYOR

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					
278+50	Z-15A	11:51	1	299	27			
			2	300	12			
			3	301	11			
			4	302	20			
			5	303	37			
			6	304	28			
			7	306	01			
			8	307	01			
			9	308	45			
			10	310	01			
			11	311	18			
			12	312	45			
			13	313	47			
			14	314	33			
			15	315	47			
			16	317	15			
			17	319	18			
			18	322	09			
			19	324	07			
			20	326	23			



RANGE = 293+00

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2429 Pg. 99

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

Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 12-3-73

Date ____ Date ____ Map No. ____ Index D. BAILEY Date JAN 11 1974

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					
278+50	Z-15A		21	328	11			
			22	329	43			
			23	330	59			
			24	332	28			
			25	334	33			
			26	336	39			
			27	338	41			
			28	341	18			
		12:00	29	342	47			

F. B. 2429 PG. 100 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO SURVEY Date Date No.

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

Indexed G.D. BAILEY Date JAN 11 1974 Date Date No.

76-L-298 CE 307 8-70

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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	296+00
		13 59				
T. P.	4 72	13 80	4 51	9 08		
296+00			75	63	Beach Cont. line	Sand
			34	104		37.0 R. brk "
			01	137		43.0 R. " "
			00	138		59.0 R. toe Cliff "
		(+)	50	188	(H. L.)	60.0 R. Slope grd
			94	44	20.0 L. brk. sand	
	0 37	7 43	67.4	7 06	20.0 L. top 4' 1x2	
					⊼ AT 293+00 SIGHT ON 296+00	
			28	46	17 FT LEFT M.H.W.	
			58	16	#1 9° 22'	
			78	-04	2 13 19	
			75	-01	3 19 04	
			91	-17	4 23 35	
			96	-22	5 29 46	
			107	-33	6 34 20	
			130	-56	7 38 27	
			136	-62	8 41 58	
			139	-65	9 46 26	
			142	-68	10 49 54	
			152	-78	11 52 53	
			161	-87	12 55° 22'	

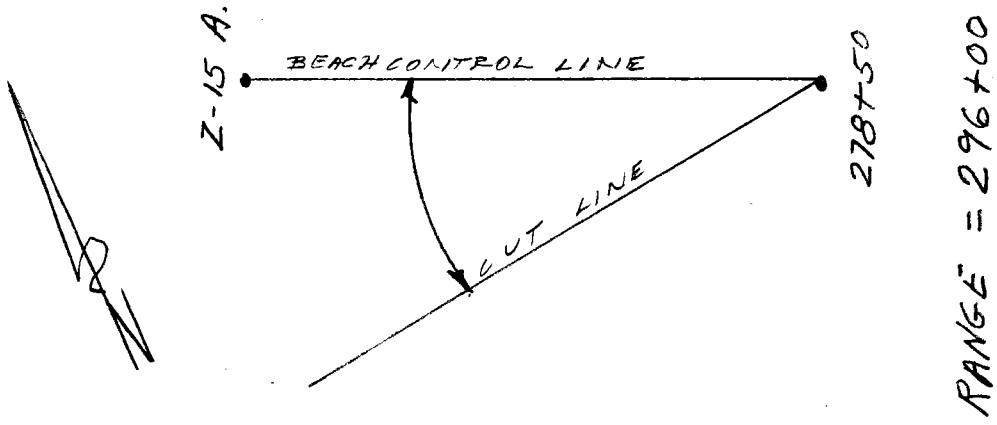
Profile Notes Red ____ Plotted ____ Job No. 03002 Division No. ____ F.B. 2429 PG. 101
No. ____ Date ____ Date ____ Survey of Hydro survey
X-Sec. Notes Orig'd R. MANOR Checked ____ Survey by English Notes Caro Date 12-3-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed S. D. BAILEY Date JAN 11 1974

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 0300.02 Division No. 11 F. B. 2429 Pg. 103

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

Notes Chkd. _____ Checked _____ Survey by RICHARDS Notes RT. Date 12-3-73

Date _____ Date _____ Map No. _____ Indexed G. D. BAILEY Date JAN 11 1974



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					
278+50	Z-15-A	12:17	1	304	13			
			2	305	15			
			3	306	37			
			4	307	40			
			5	308	51			
			6	310	13			
			7	311	41			
			8	313	07			
			9	314	26			
			10	315	24			
			11	316	57			
			12	318	39			
			13	320	16			
			14	321	16			
			15	322	44			
			16	323	57			
			17	325	54			
			18	327	41			
			19	329	31			
			20	331	17			

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. 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					
278+50	Z-15-A		21	332	27			
			22	333	54			
			23	335	41			
			24	337	54			
			25	339	35			
			26	341	02			
			27	342	10			
			28	343	16			
			29	344	57			
			30	347	36			
			31	348	33			
			32	350	15			
			33	351	24			
		12:24	34	352	37			

F. B. 2429 Pg. 104

Survey of HYDRO SURVEY

Survey by RICHARDS

Indexed G. D. BAILEY

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date Notes Chkd. Date

Division No. 11

Job No. 0300.02

Notes R.T.

Date JAN 11 1974

76-L-298 CE 307 8-70

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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.			300+25
		13.80						
T.P.	2.56	12.23	4.13	9.67				
300+00					Beach Con't. line			sand
			8.6	3.6				30.0 R. "
			6.01	6.22				30.0 R. top 9' 1x2
			3.6	8.6				55.0 R. brk sand
			1.1	11.1				86.0 R. " "
		(+)	1.8	14.0 (H.L.)				89.0 R. " "
		(+)	2.7	14.9 "				127.0 R. toe cliff "
					⊼ AT 293+00 SIGHT ON 300+25			
	1.03	7.25		6.22				
		6.8	1.50	-7.81	24°	24'		
6.8		2.2	1.45	-7.32	21	49		
2.8		4.5	1.33	-6.13	19	14		
		4.9	1.39	-6.74	16	32		
		2.9	1.14	-4.25	13	59		
		6.1	8.8	-1.66	11	12		
			1.01	-2.97	8	49		
			8.0	-0.88	7	17		
			8.2	-1.09	4	10		
			7.5	-0.39	1	41	TO LEFT	
			6.3	0.91	0	04	TO RIGHT	
			4.9	2.3	15 FT RT			
			2.6	4.6	31 FT RIGHT			M.H.W.

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Checked R. MANOR Checked ____ Survey by English Notes Survey Date 1-3-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Index G. D. BAILEY Date JAN 11 1974

F.B. 2429 PG. 105

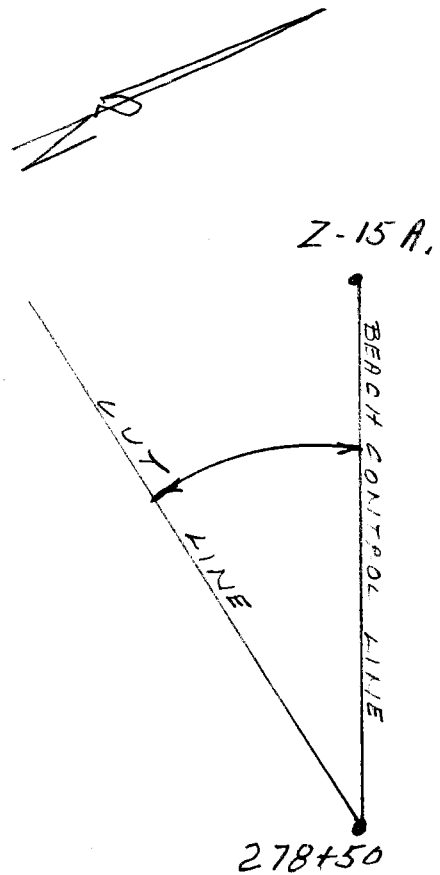
76L298 307 Cdb 12-62

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					
278+50	Z-15 A	12:37	1	310	04			
			2	311	18			
			3	312	25			
			4	313	45			
			5	314	59			
			6	316	03			
			7	317	05			
			8	318	16			
			9	319	17			
			10	320	46			
			11	322	20			
			12	323	17			
			13	324	49			
			14	326	28			
			15	327	22			
			16	328	52			
			17	330	12			
			18	331	39			
			19	333	25			
			20	334	59			



RANGE = 300+25

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2429 Pg. 107
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 12-3-73
No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

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					
278+50	Z-15A		21	336	03			
			22	337	20			
			23	339	14			
			24	340	40			
			25	342	00			
			26	343	45			
			27	345	19			
			28	346	53			
			29	347	59			
			30	348	37			
			31	350	01			
			32	350	58			
			33	352	04			
			34	353	52			
		12'45	35	354	37			

F. B. 2429 PG. 108

Job No. 6300.62 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO. SURVEY Date Date No.

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

Indexed G. D. BAILEY Date JAN 11 1974 Date Date No.

Notes Ck'd by R. MANOR	Survey of HYDROGRAPHIC SURVEY
Map No.	JN 0300.02 Tape Std °F
Office Work	Surveyed by RICHARDS
Checked	Notes U HARRIET Date 12-3-73
Date JAN 17 1974	Indexed G. D. BAILEY JAN 11 1974

F. B. 2429 PG. 109

TIDE GAGE READINGS
DEC. 3, 1973
TIME – P.S.T.
DATUM – M.L.L.W.

TIME	TIDE
6:00	READINGS NOT AVAILABLE DUE TO MONTHLY TAPE CHANGE.
6:30	
7:00	
7:30	
8:00	
8:30	
9:00	2.2
9:30	2.0
10:00	2.0
10:30	1.8
11:00	2.0
11:30	2.0
12:00	2.2
12:30	2.3
1:00	2.5
1:30	2.7
2:00	2.8

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

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

Do not extend this side of this line.

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

76F309S CE#310 3-69

76-L-298 CE 307 8-70

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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	304+50
		12 23				
T.P.	10 89	22 56	0 56	11 67		
T.P	5 24	25 66	2 14	20 42		
Z-16	2 89	25 54	3 01	22 65	Z-16 El. = 22.64	F.B. 2100-124
	3 89	18 33	11 10	14 44	T.P.	
304+50			2 4	15 9	Beach Cont. line.	
			0 0	18 3		21' R. T.S.
			4 6	13 7	7' L. brk.	
			6 9	11 4	51' L. "	
			8 7	9 6	66' L. "	
			11 4	6 9	78' L.	
	-0 45	8 54	9 34	8 99	78' L. Top 4' 1X2	
					⊼ AT 312+00 SIGHT ON 304+50	
			3 9	4 6	103 FT LEFT M.H.W.	
			6 7	1 8	#1 10° 50'	
			8 1	0 4	2 13 26	
			9 9	-1 4	3 16 20	
			12 7	-4 2	4 18 54	
			13 3	-4 8	5 21 18	
			15 2	-6 7	6 23 44	
			16 7	-8 2	7 26 44	
			18 2	-9 7	8 29° 47'	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 03C0C4 Division No. ____ F.B. 2429 Pg. 111

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

Notes Checked Ri. MANOR Checked ____ Survey by English Notes Caro Date 12-7-73

Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

76L298 307 Cdb 12-62

PLEASE RETURN TO

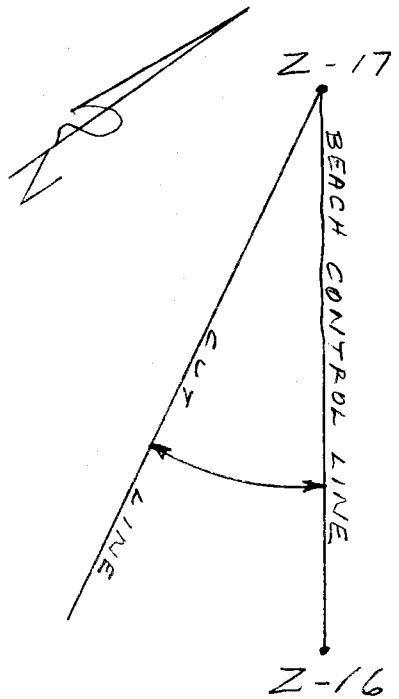
LOS ANGELES COUNTY SURVEYOR

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					
Z-17	Z-16	8:19	1	67	01			
			2	66	00			
			3	65	04			
			4	63	59			
			5	63	01			
			6	61	45			
			7	60	39			
			8	58	07			
			9	56	53			
			10	55	32			
			11	53	47			
			12	52	01			
			13	49	57			
			14	47	56			
			15	46	01			
			16	44	00			
			17	42	23			
			18	40	01			
			19	37	38			
			20	35	57			



RANGE = 304+50

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2429 Pg. 113

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes RT Date 12-4-73

No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

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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					
Z-17	Z-16		21	32	32			
			22	29	56			
			23	26	59			
			24	23	49			
			25	21	19			
			26	19	03			
		8:26	27	18	02			
		8:19						

F. B. 2429 PG. 114 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO. SURVEY Date Date No.

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

Indexed G. D. BAILEY Date JAN 11 1974 Date Date No.

76-L-298 CE 307 8-70

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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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	308+25
		18 33				
T.P. 308+25	4 00	17 33	5 00	13 33		
					Beach Cont. line	
			9 4	7 9	1 6 R.	sand
			7 13	10 20	16 R.	Top 4' 1X2
			5 5	11 8	45' R.	brk.
	~~227~~		3 8	135	96' R.	T.S.
	-227	793		1020		
					⊼ AT 312+00 SIGHT ON 308+25	
			184	-105	#1 48° 12'	
			175	-96	2 44 12	
			175	-96	3 40 16	
			168	-89	4 36 22	
			140	-61	5 31 06	
			115	-36	6 27 22	
			96	-17	7 23 08	
			82	-03	8 17 54	
			75	04	9 13 24	
			68	11	10 7° 11'	
			60	19	36 FT LEFT	
			33	46	4 FT LEFT M.H.W.	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 030002 Division No. ____ F.B. 2429 Pg. 115

X-Sec. No. ____ Date ____ Date ____ Survey of Hydrosurvey Date 12-4-73

Notes Checked R. MANOR Checked ____ Survey by English Notes ____ Date ____

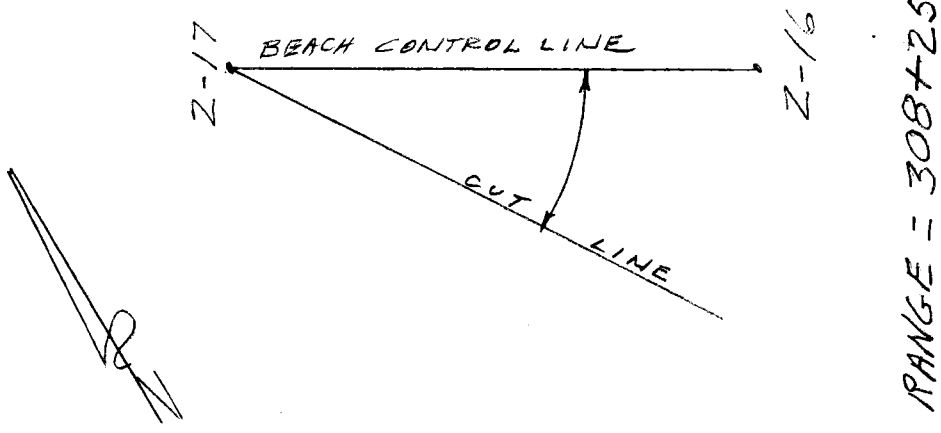
Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

Profile No. _____ Notes Red. _____ Date _____ Plotted _____ Date _____ Job No. 0300.02 Division No. 11 F. B. 2429 Pg. 117

X-Sec. No. _____ Notes Chkd. _____ Date _____ Checked _____ Date _____ Survey of HYDRO. SURVEY

Survey by RICHARDS Notes R.T. Date 12-4-73

Map No. _____ Indexed D. BAILEY Date JAN 11 1974



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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

Inst. At Don't Punch	Sight On Don't Punch	Time Don't Punch	Angle No Don't Punch	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Deg.	For Office Use Only Line Min.	For Office Use Only Card No
Z-17	Z-16	8:36	1	73	45			
			2	73	26			
			3	73	06			
			4	71	59			
			5	71	01			
			6	69	48			
			7	68	30			
			8	67	08			
			9	65	38			
			10	64	18			
			11	62	50			
			12	61	13			
			13	59	08			
			14	57	25			
			15	55	23			
			16	52	48			
			17	50	26			
			18	49	55			
			19	46	37			
			20	45	23			

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.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
Z-17	Z-16		21	41	23			
			22	39	10			
			23	36	04			
			24	33	12			
			25	29	58			
			26	27	59			
			27	25	22			
		8:42	28	22	21			

F. B. 2429 Pg. 118 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile No.

Survey of HYDRO. SURVEY Date Date X-Sec. No.

Survey by RICHARDS Notes R.T. Notes Chkd. Checked

Indexed G. D. BAILEY Date JAN 11 1974 Date Date

76-L-298 CE 307 8-70

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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.

Range Line 312+00

STATION	B. S.	H. I.	F. S.	ELEV. = M.L.L.W.	
T.P. 312+00	4 68	17 33 / 13 84	8 17	9 16	
				Water	Beach Control Line
			9 6	4 2	30 R. sand
			6 60	7 24	30 R. Top 4' 1X2 (rock)
			7 3	6 5	45' R.
			5 6	8 2	58 R. T.S.
			0 4	13 4	63 R T.B.
			0 2	13 6	73 R. T.S.
	-0 81	643		7 24	30 FT RT.
			1 8	4 6	33 FT RT M.H.W.
			3 7	2 7	0 CONTROL LINE SAND
			4 8	1 6	25 FT LEFT "
			~~6 0~~		# ⊼ AT 308+25 SIGHT ON 312+00
			6 0	0 4	#1 8° 43'
			7 2	-0 8	2 12 54
			9 5	-3 1	3 18 22
			10 5	-4 1	4 23 12
			12 5	-6 1	5 28 38
			13 0	-6 6	6 32 12
			11 9	-5 5	7 36 20

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2429 Pg. 119
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chk'd R. MANOR Checked ____ Survey by English Notes ____ Date 12-4-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F. B. 2429 PG. 120 | Job No. | Division No. | Notes Red | Plotted | Profile

Survey of | Date | Date | No.

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

Indexed G. D. BAILEY | Date JAN 11 1974 | Date | Date | No.

76-L-298 CE 307 8-70

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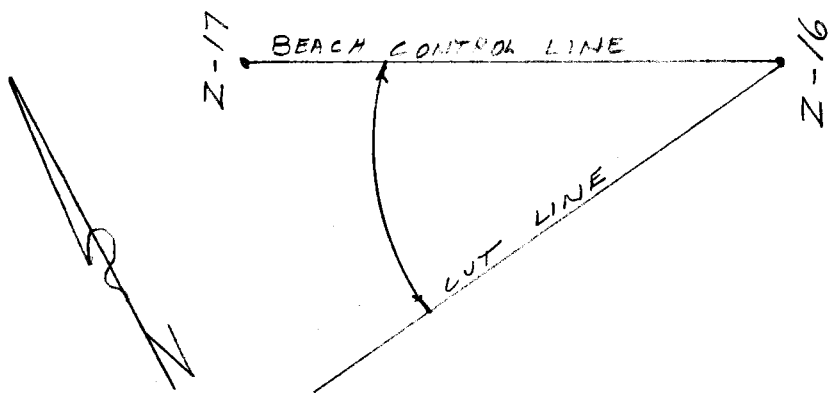
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.
		6 45		
			153 -89	
			152 -88	
			158 -94	
				CONT
				8 39° 48'
				9 43 33
				10 46° 28'

Profile No. _____ Notes Red. _____ Date _____ Plotted _____ Date _____ Job No. 0300.02 Division No. 11 F. B. 2429 Pg. 121

X-Sec. No. _____ Notes Chkd. _____ Date _____ Checked _____ Date _____ Survey of HYDRO. SURVEY Survey by RICHARDS Notes R.T. Date 12-4-73 Map No. _____ Indexed G. D. BAILEY Date JAN 11 1974



RANGE = 312+00

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

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LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

Inst. At Don't Punch	Sight On Don't Punch	Time Don't Punch	Angle No Don't Punch	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Deg.	For Office Use Only Line Min.	For Office Use Only Card No
Z-16	Z-17	9:04	1	289	45			
			2	291	04			
			3	291	53			
			4	292	51			
			5	294	41			
			6	296	07			
			7	297	57			
			8	300	28			
			9	302	15			
			10	303	35			
			11	305	38			
			12	307	50			
			13	310	39			
			14	311	37			
			15	315	23			
			16	316	06			
			17	318	14			
			18	321	11			
			19	324	09			
			20	328	00			

76L298 307 Cdb 12-62

F. B. 2429 PG. 122 | Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

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

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

Indexed G.D. BAILEY Date JAN 11 1974 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.
Z-16	Z-17		21	330	12			
			22	333	00			
			23	337	10			
			24	340	54			
			25	343	47			
			26	345	20			
		9:10	27	347	40			

Do not extend notes this side of this line.

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76-L-298 CE 307 8-70

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Do not extend notes this side of this line.

Range Line 315+00

STATION	B. S.	H. I.	F. S.	ELEV. = M.L.L.W.	
		13 84			
T.P.	908	1860	4 32	9 52	
T.P	962	2417	405	1455	
T.B.M.			152	2265	T.B.M. El. = 22.60 Bt. S.&W.
	147	2407		2260	F.B. 2100-125
T.P.	264	1568	1103	1304	
315+00			19	138	Beach Cont. line back
		(4)	31	188 (H.L.)	3.0 R. slope
			37	120 3.0 L.	toe cliff sand
			41	116 7.0 L	brk. sand
			64	93 14.0 L.	" "
		"	100	57 44.0 L.	"
	-063	736	769	799 44.0 L.	top 4' 1x2
					↑ AT 308+25 SIGHT ON 315+00
			160	-86 1	28° 25'
			157	-83 2	26 08
			147	-73 3	23 47
			132	-58 4	21 20
			113	-39 5	18 43
			114	-40 6	16 02
			89	-15 7	13 37

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. 11
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chk'd MANOR Checked ____ Survey by Engineer Notes ____ Date 12-4-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Index 4 R. BAILEY Date JAN 11 1974

0300.02

F.B. 2429 Pg. 123

F. B. 2429 Pg. 124 | Job No. | Division No. | Notes Red | Plotted | Profile

Survey of | Date | Date | No.

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

Indexed G. D. BAILEY | Date | Date | Date | No.

76-L-298 CE 307 8-70

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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.	
	736				
		75	01		
		72	02		
		59	15		
		28	46		
					# CONT.
					8 11° 42'
					9 9 54
					10 8° 02'
					55 FT LEFT M.H.W.

76L298 307 Cdb 12-62

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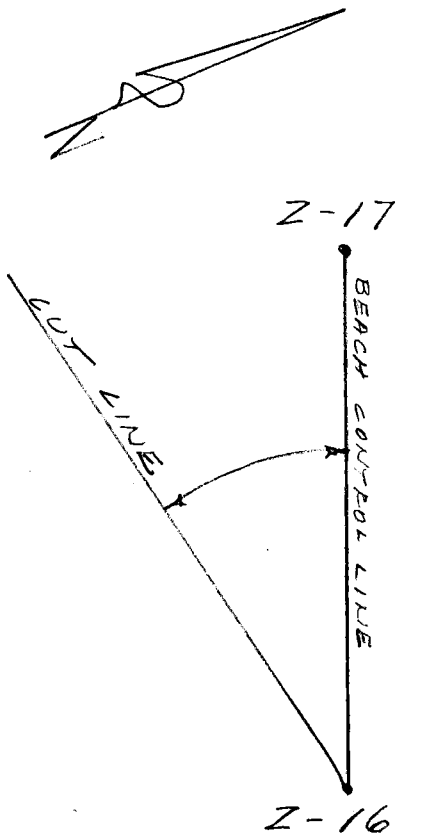
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
Z-16	Z-17	9:24	1	295	59			
			2	296	55			
			3	297	59			
			4	299	18			
			5	300	20			
			6	301	45			
			7	303	11			
			8	304	51			
			9	306	07			
			10	307	58			
			11	309	05			
			12	310	31			
			13	313	48			
			14	315	27			
			15	316	59			
			16	319	24			
			17	321	43			
			18	324	24			
			19	326	37			
			20	329	05			



RANGE = 315+00

Profile Notes Red.____ Plotted____ Job No. 2300.02 Division No. 11 F. B. 2429 Pg. 125

No.____ Date____ Date____ Survey of HYDRO. SURVEY

X-Sec. Notes Chkd.____ Checked____ Survey by RICHARDS Notes R.T. Date 12-4-73

No.____ Date____ Date____ Map No.____ Index D. D. BAILEY Date JAN 11 1974

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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					
Z-16	Z-17		21	330	35			
			22	332	30			
			23	333	47			
			24	336	21			
			25	337	54			
			26	340	27			
			27	343	00			
			28	345	46			
		9:32	29	346	33			

F. B. 2429 PG. 126 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO. SURVEY Date Date No.

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

Indexed G. D. BAILEY Date JAN 11 1974 Date Date No.

76-L-298 CE 307 8-70

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	317+75
		1568				
T.P.	901	1506	963	605		
317+75			11	140	Beach Con't. line Sand	
			00	151		23.0R. brk. "
		(+)	28	179 (H.L.)		27.0R. " grd.
		(+)	43	194 (H.L.)		51.0R. toe Cliff "
			18	133	5.0L. brk Sand	
			52	99	12.0L. " "	
		70	91	60	54.0L. "	
	-169	697	640	866	54.0L. top 4' 1x2	
			24	46	71 FT LEFT M.H.W.	
					⊼ AT Z-17 SIGHT AHEAD Z-18	
			47	23	108 FT LEFT	
			60	10	#1 28° 16'	
			75	-05	2 35 08	
			88	-18	3 39 50	
			115	-45	4 42 34	
			118	-48	5 46 21	
			139	-69	6 50 13	
			151	-81	7 53 09	
			156	-86	8 56 21	
			172	-102	9 58° 24'	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2429 PG. 127
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Checked R. MANOR Checked ____ Survey by English Notes Caro Date 12-4-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

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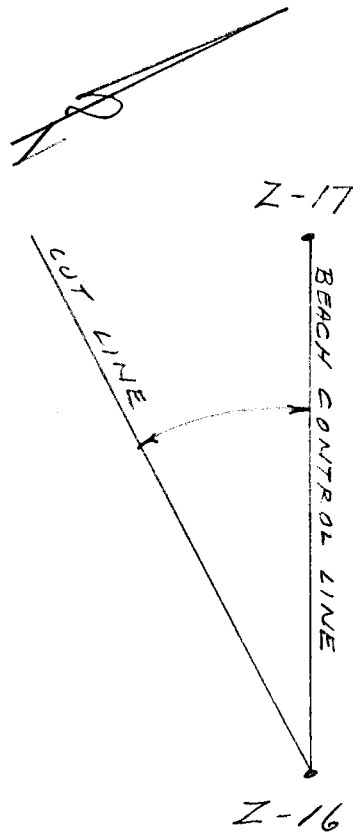
Do not extend notes this side of this line.

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					
Z-16	Z-17	9:41	1	310	08			
			2	310	58			
			3	312	08			
			4	313	14			
			5	314	26			
			6	315	38			
			7	316	52			
			8	318	13			
			9	319	58			
			10	321	12			
			11	323	03			
			12	324	31			
			13	325	48			
			14	327	02			
			15	328	16			
			16	330	22			
			17	332	19			
			18	334	34			
			19	336	19			
			20	338	33			



RANGE = 317+75

Profile Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 11 F. B. 2429 Pg. 129
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes RT. Date 12-4-73
No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date ____

F. B. 2429 PG. 130 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

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

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

Indexed G. D. BAILEY Date JAN 11 1974 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 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.
Z-16	Z-17		21	340	17			
			22	342	18			
			23	344	18			
			24	346	25			
			25	347	08			
			26	349	29			
			27	350	56			
		9:48	28	351	55			

76-L-298 CE 307 8-70

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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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	321+75
		1506				
T.P.	460	1407	559	947		
321+75			00	141	Beach Cont. line sand	
			05	146		7.0 R. brk. "
		(+)	25	166	(H.L.	18.0 R. " "
		(+)	22	163	(H.L.)	25.0 R. toe Cliff "
			50	91	5.0 L. brk. sand	
			71	70	49.0 L. " "	
			93	48	72.0 L. "	
	-125	620	662	745	72.0 L. top 4' 1x2	
					⊼ AT Z17 SIGHT ON 321+75	
			180	-118	#1 38° 24'	
			160	-98	2 34 51	
			148	-86	3 32 14	
			129	-67	4 29 58	
			134	-72	5 27 33	
			111	-49	6 24 14	
			107	-45	7 21 36	
			98	-36	8 18 32	
			75	-13	9 16 03	
			59	03	10 14° 14'	

Profile Notes Red ____ Plotted ____ Job No. 03000.02 Division No. ____ F.B. 2429 PG. 131
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chkd. R. MANOR Checked ____ Survey by English Notes Carol Date 19
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Index G. D. BAILEY Date JAN 11 1974

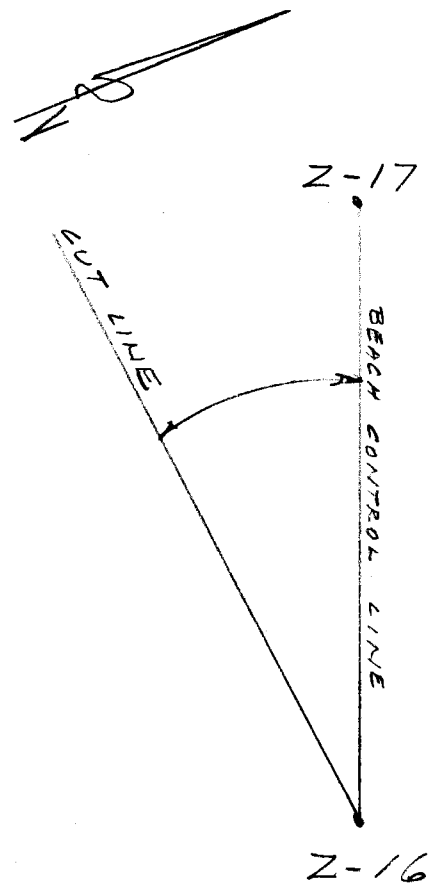
76L298 307 Cdb 12-62

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					
Z-16	Z-17	10:00	1	315	57			
			2	316	57			
			3	318	31			
			4	319	50			
			5	321	11			
			6	322	07			
			7	323	22			
			8	324	38			
			9	325	37			
			10	326	35			
			11	327	43			
			12	329	02			
			13	330	13			
			14	331	28			
			15	332	42			
			16	333	59			
			17	335	35			
			18	337	05			
			19	338	38			
			20	339	45			



RANGE = 321+75

Profile No. ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 430.02 Division No. 11 F. B. 2429 Pg. 133
X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of HYDRO SURVEY Survey by RICHARDS Notes R.T. Date 12-4-73 Map No. ____ Indexed D. BAILEY Date JAN 11 1974

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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					
Z-16	Z-17		21	341	25			
			22	343	01			
			23	344	33			
			24	346	12			
			25	348	11			
			26	349	56			
			27	351	16			
			28	352	53			
			29	354	13			
		10:06	30	355	35			

F. B. 2429 PG. 134 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO. SURVEY Date Date No.

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

Indexed G.D. BAILEY Date JAN 11 1974 Date Date No.

76-L-298 CE 307 8-70

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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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	325+50
		1407				
T. P.	613	1545	475	932		
T. B. M.			170	1375	T. B. M. El. = 13.81	L & T. in rock
	347	1728		1381		F.B. 2100-126
325+50			43	130	Beach Con't. line Sand	
			20	153		32.0 R. brk. "
			09	164		36.0 R. " "
			23	150		59.0 R. toe cliff "
			73	100	19.0 L. brk. sand	
		4	120	53	100 L. "	
	-072	736	920	808	100 L. top 4' 1x2	
			28	46	110 LEFT M.H.W.	
			50	24	140	
					T AT Z18 SIGHT	325+50
			65	09	#1 43° 54'	
			77	-03	2 49 10	
			88	-14	3 53 33	
			100	-26	4 56 54	
			125	-51	5 60 30	
			159	-85	6 63 "	
			172	-98	7 64 57	
			185		8 66° 43'	

Profile Notes Red ____ Plotted ____ Job No. 030062 Division No. ____ F.B. 2429 PG. 135
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Card R. MANOR Checked ____ Survey by English Notes Card Date 12-4-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

76L298 307 Cdb 12-62

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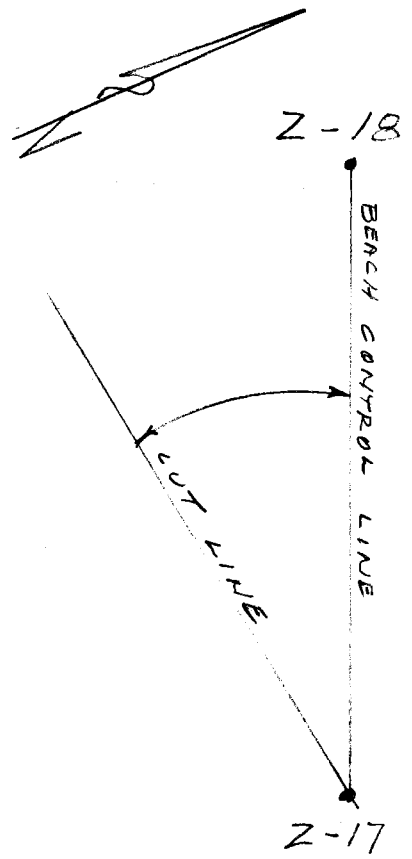
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
Z-17	Z-18	10:28	1	300	56			
			2	301	49			
			3	302	45			
			4	303	39			
			5	304	30			
			6	305	32			
			7	307	01			
			8	308	11			
			9	309	24			
			10	311	01			
			11	312	05			
			12	313	02			
			13	314	22			
			14	315	54			
			15	317	45			
			16	319	47			
			17	321	14			
			18	323	45			
			19	325	41			
			20	328	00			



RANGE = 325+50

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 300.02 Division No. 11 F.B. 2429 Pg. 137
Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 12-4-73
Date ____ Date ____ Map No. ____ Indexed S. D. BAILEY Date JAN 11 1974

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					
Z-17	Z-18		21	330	00			
			22	332	32			
			23	334	49			
			24	337	21			
			25	338	21			
			26	341	35			
			27	343	42			
			28	345	50			
		10:35	29	346	34			

F. B. 2429 Pg. 138 | Job No. 330.02 | Division No. 11 | Notes Red. | Plotted | Profile

Survey of HYDRO. SURVEY | Date | Date | No.

Survey by RICHARDS | Notes P.T. | Notes Chkd. | Checked | X-Sec.

Indexed G. D. BAILEY | Date JAN 11 1974 | Date | Date | No.

76-L-298 CE 307 8-70

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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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M.L.L.W	330+50
		1728				
T.P.	4 38	17 51	4 15	13 13		
330+50			2 0	15 5	Beach	Control line
		+	1 5	19 0	23 R.	T.B.
		+	1 5	19 0	36 "	Sand
			3 5	14 0	19 L.	Brk.
			6 3	11 2	33 L.	"
			12 2	5 3	99 L.	
	-116	702	9 33	8 18	99 L.	Top 4' 1X2
					AT Z 18	SIGHT ON Z19
			234	-15 4	#1 45° 17'	
			197	-12 7	2 32 42	
			183	-11 3	3 28 32	
			150	-8 0	4 24 54	
			119	-4 9	5 22 07	
			95	-2 5	6 19 13	
			81	-1 1	7 16 54	
			67	0 3	8 14 12	
			65	0 5	9 12 09	
			46	2 4	127 FT LEFT	
			24	4 6	97 " "	M.H.W.

Profile Notes Red ____ Plotted ____ Job No. 030002 Division No. ____ F.B. 2429 PG. 139
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. ____ Notes Red MANOR Checked ____ Survey by English Notes Cary Date 12-4-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed B. D. BAILEY Date JAN 11 1974

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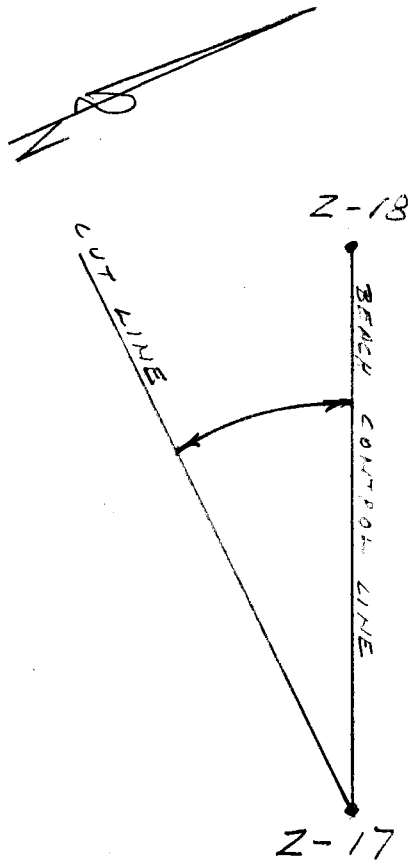
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
Z-17	Z-18	10:48	1	306	15			
			2	307	10			
			3	307	57			
			4	308	56			
			5	309	52			
			6	310	58			
			7	312	18			
			8	313	25			
			9	314	41			
			10	315	58			
			11	316	56			
			12	317	46			
			13	318	26			
			14	319	28			
			15	320	45			
			16	321	56			
			17	323	06			
			18	324	30			
			19	326	08			
			20	327	46			



RANGE = 330+50

Profile No. ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 2301.02 Division No. 11 Survey of HYDRO. SURVEY

X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by RICHARDS Notes ATT. Date 12-4-73

Map No. ____ Index D. D. BAILEY Date JAN 11 1974

F. B. 2429 Pg. 141

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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					
Z-17	Z-18		21	329	25			
			22	330	55			
			23	332	28			
			24	334	08			
			25	335	55			
			26	337	35			
			27	339	20			
			28	341	17			
			29	342	57			
			30	344	24			
			31	346	02			
			32	347	55			
			33	349	51			
			34	351	39			
			35	353	28			
		10:58	36	354	11			

F. B. 2429 Pg. 142 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO. SURVEY Date Date No.

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

Indexed G.D. BAILEY Date JAN 11 1974 Date Date No.

76-L-298 CE 307 8-70

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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.

Range Line 335+50

STATION	B. S.	H. I.	F. S.	ELEV. = M.L.L.W.	
		17 51			
	6 06	19 95	3 62	13 89	
334+89.91	1 67	18 73	2 89	17 06	P.O.T., el=17.06, F.B. 2316-57
335+50			3 9	14 8	Beach Control Line.
			3 2	15 5	41' L. brk.
			4 5	14 2	47' L. "
			5 3	13 4	86' L. "
			7 6	11 1	103' L. "
			8 2	10 5	157' L. Sand
	-0 70	7 18	10 85	7 88	157' L. Top 4' 1x2
					162 FT LEFT M.H.W.
					T AT Z-18 SIGHT ON Z19
			59	13 #1	9° 08'
			80	-08 2	9 43
			74	-02 3	10 56
			86	-14 4	12 42
			11 0	-38 5	14 51
			135	-63 6	16 46
			160	-88 7	18 47
			176	-104 8	20 24
			173	-101 9	21° 52'

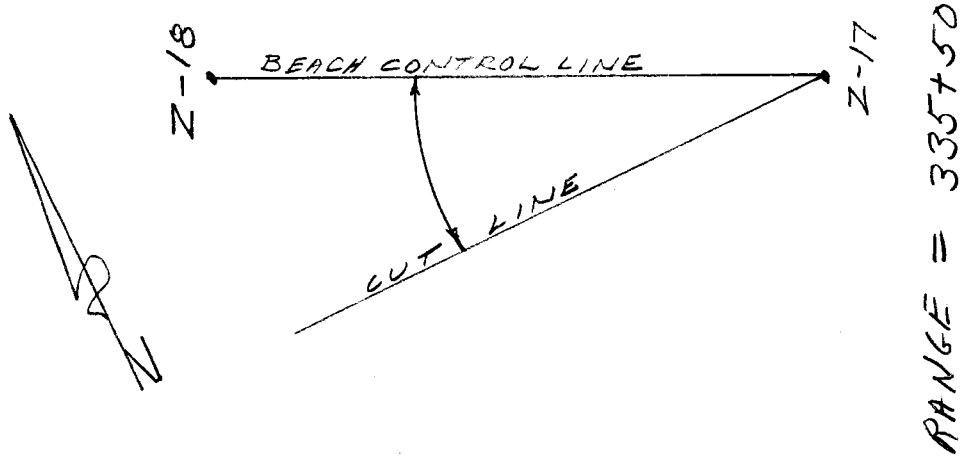
Profile Notes Red ____ Plotted ____ Job No. 03 00.02 Division No. ____ F.B. 2429 Pg. 143
No. ____ Date ____ Date ____ Survey of Hydrographic Survey Date 12-4-73
X-Sec. ____ Notes Checked ____ Survey by ____ Notes ____
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Index G. D. BAILEY Date JAN 11 1974

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 | F. B. 2429 Pg. 145

Date ____ Date ____ Survey of HYDRO. SURVEY

X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes RJT Date 12-4-73

Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974



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

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LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Inst. At Don't Punch	Sight On Don't Punch	Time Don't Punch	Angle No Don't Punch	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Deg.	For Office Use Only Line Min.	For Office Use Only Card No
Z-17	Z-18	11:15	1	312	40			
			2	313	28			
			3	314	34			
			4	315	57			
			5	317	09			
			6	318	18			
			7	319	50			
			8	321	10			
			9	323	03			
			10	324	11			
			11	325	17			
			12	326	32			
			13	327	30			
			14	328	22			
			15	329	48			
			16	331	15			
			17	333	04			
			18	334	31			
			19	336	00			
			20	337	51			

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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					
Z-17	Z-18		21	339	23			
			22	340	56			
			23	342	48			
			24	344	28			
			25	346	14			
			26	347	38			
			27	348	47			
			28	350	06			
			29	351	32			
			30	352	36			
			31	354	05			
			32	355	05			
		11:23	33	355	38			

F. B. 2429 Pg. 146 Job No. 0300.02 Division No. 11 Notes Red. ____ Plotted ____ Profile ____

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

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

Indexed G. D. BAILEY Date JAN 11 1974 Date ____ Date ____ No. ____

76-L-298 CE 307 8-70

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

Do not extend notes this side of this line.

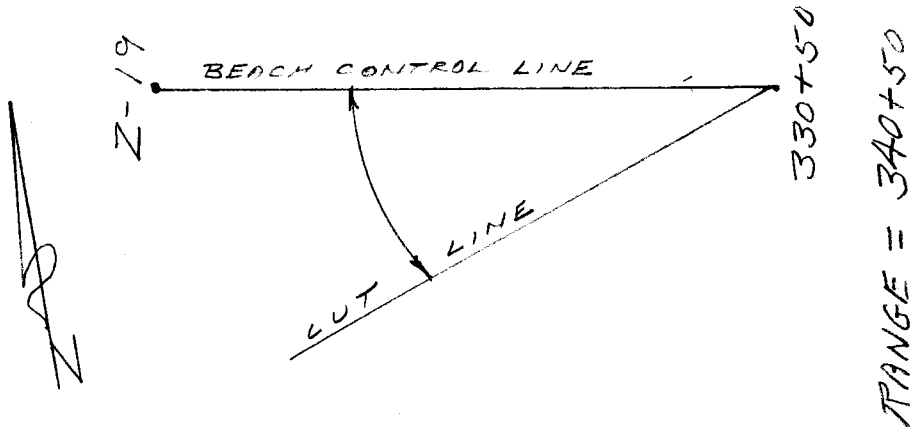
Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M.L.L.W.	340+50
		18 73				
T.P.	0 81	16 21	3 33	15 40		
340+50			1 6	14 2	Beach Control Line	
		+	0 5	16 7	41' R.	T.S.
			3 9	12 3	88' R	Brk.
			5 5	10 7	91' R.	"
			11 3	4 9	131' R.	Sand
	0 09	7 82	8 48	7 73	131' R.	Top 4' 1X2
					π AT Z 18	SIGHT ON Z-19
			204	-12 6	#1 22° 52'	
			180	-10 2	2 20 24	
			171	-9 3	3 18 48	
			146	-6 8	4 ? 17 01	
			150	-7 2	5 15 09	
			108	-3 0	6 13 19	
			89	-1 1	7 11 50	
			77	0 1	8 10 47	
			75	0 3	9 10° 07'	
			59	19	160 FT LEFT	
			32	46	134 FT LEFT M.H.W	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2429 Pg. 147
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Ck'd R. MANOR Checked ____ Survey by English Notes ____ Date 12-4-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

Profile No. ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 0300.02 Division No. 11 F. B. 2429 Pg. 149

X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of HYDRO SURVEY Survey by RICHARDS Notes R.T. Date 12-4-73 Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974



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					
330+50	Z-19	11:46	1	264	07			
			2	264	57			
			3	266	08			
			4	266	59			
			5	267	57			
			6	269	12			
			7	270	34			
			8	272	28			
			9	274	07			
			10	275	11			
			11	276	51			
			12	278	15			
			13	279	13			
			14	280	46			
			15	282	20			
			16	284	52			
			17	287	27			
			18	290	09			
			19	294	38			
			20	298	01			

76L298 307 Cdb 12-62

F. B. 2429 PG. 150 | Job No. 8300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDRO SURVEY Date _____ Date _____ No. _____

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

Indexed G. D. BAILEY Date JAN 11 1974 Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

Inst. At Don't Punch	Sight On Don't Punch	Time Don't Punch	Angle No. Don't Punch	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
330+50	Z-19		21	301	36			
			22	305	24			
			23	309	17			
			24	312	40			
			25	315	33			
			26	319	02			
			27	322	51			
			28	326	41			
			29	329	32			
			30	332	11			
		11:54	31	334	27			

76-L-298 CE 307 8-70

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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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV.	M.L.L.W.	344+50
		1621				
T.P.	5 08	17 45	3 84	1237		
344+50			5 0	12 ~~0~~ 5	Beach Control Line	
			6 4	11 0	58' R. T.S.	
			1 7	15 7	100' R. T.B.	
			4 7	12 7	15' L. "	
			6 6	10 8	19' L. B.B.	
			11 8	5 6	48' L. Sand	
	-0 73	7 60	9 12	8 33	48' L. Top 4' 1x2	
					⊼ AT 340+50 SIGHT ON 348+50	
			3 0	46	55 FT. LEFT M.H.W.	
			4 6	30	68 " "	
			6 9	0 7	#1 14° 54'	
			8 2	-0 6	2 19 43	
			9 8	-2 2	3 24 07	
			10 5	-2 9	4 27 19	
			11 8	-4 2	5 31 39	
			14 1	-6 5	6 35 42	
			16 1	-8 5	7 40 01	
			16 9	-9 3	8 43 25	
			17 6	-10 0	9 46° 00'	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2429 Pg. 151

X-Sec. No. ____ Date ____ Date ____ Survey of Hydrosurvey Date 12-4-73

Notes Chk'd R. MANOR Checked ____ Survey by English Notes ____ Date ____

Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

76L298 307 Cdb 12-62

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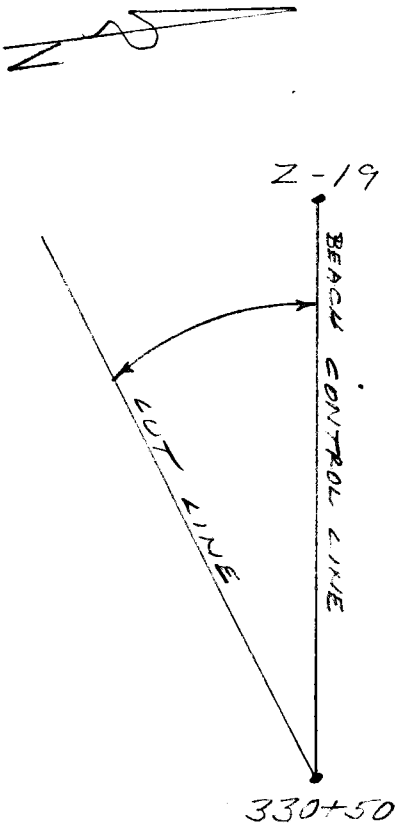
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
330+50	Z-19	12:06	1	272	08			
			2	273	09			
			3	274	08			
			4	275	15			
			5	276	17			
			6	277	17			
			7	278	21			
			8	279	37			
			9	280	49			
			10	282	08			
			11	283	31			
			12	284	58			
			13	286	35			
			14	288	19			
			15	289	27			
			16	290	50			
			17	292	25			
			18	294	05			
			19	295	10			
			20	297	02			



RANGE = 344+50

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2429 Pg. 153
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 12-4-73
No. ____ Date ____ Date ____ Map No. ____ Indexed B.D. BAILEY Date JAN 11 1974

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					
330+50	Z-19		21	299	30			
			22	302	20			
			23	305	12			
			24	308	05			
			25	311	09			
			26	315	15			
			27	315	51			
			28	319	37			
			29	322	20			
			30	324	56			
			31	327	07			
			32	329	06			
			33	331	16			
			34	333	07			
		12:14	35	334	10			

F. B. 2429 Pg. 154 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO SURVEY Date Date No.

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

Indexed G. D. BAILEY Date JAN 11 1974 Date Date No.

76-L-298 CE 307 8-70

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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.

Range Line 348+50

STATION	B. S.	H. I.	F. S.	ELEV. = M.L.L.W.	
		17 45			
T.P. 348+50	0 78	13 67	4 56	12 89	
			5 6	8 1	Beach Control Line
			0 8	12 9	31' R. bot. cliff.
			9 3	4 4	30 L.
	-0 45	6 73	6 49	7 18	30 L. Top 4' 1X2
					⊼ AT 340+50 SIGHT ON 348+50
			153	-8 6	#1 24° 06
			142	-7 5	2 21 17
			141	-7 4	3 18 31
			110	-4 3	4 15 43
			112	-4 5	5 13 17
			97	-3 0	6 11 22
			77	-1 0	7 8 42
			65	0 2	8 6 34
			58	0 9	9 4° 40'
			40	2 7	46 FT. LEFT
			21	4 6	29 FT LEFT M.H.W.

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2429 PG. 155

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

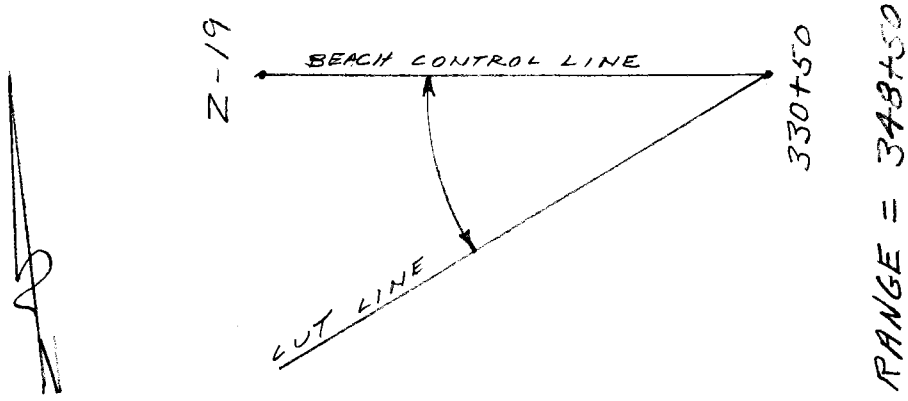
Notes Checked R. MANOR Date 12-4-73

Date JAN 17 1974 Date ____ Survey by Eng. Notes ____ Date ____

Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

Profile No. _____ Notes Red. _____ Date _____ Plotted _____ Date _____ Job No. 0300.02 Division No. 11 | F. B. 2429 Pg. 157

X-Sec. No. _____ Notes Chkd. _____ Date _____ Checked _____ Date _____ Survey of HYDRO. SURVEY Survey by RICHARDS Notes R. T. Date 12-4-73 Map No. _____ Indexed G. D. BAILEY Date JAN 11 1974



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

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LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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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					
330+50	Z-19	12:26	1	279	06			
			2	280	00			
			3	281	14			
			4	282	30			
			5	284	10			
			6	285	27			
			7	286	36			
			8	287	42			
			9	289	30			
			10	290	54			
			11	292	37			
			12	294	31			
			13	296	04			
			14	298	15			
			15	300	20			
			16	302	50			
			17	305	14			
			18	307	01			
			19	309	05			
			20	311	26			

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					
330+58	Z-19		21	314	02			
			22	316	23			
			23	318	33			
			24	320	30			
			25	322	09			
			26	324	14			
			27	325	51			
			28	327	59			
			29	330	15			
			30	331	17			
			31	333	03			
			32	335	01			
			33	336	10			
			34	337	35			
		12:34	35	338	46			

F. B. 2429 Pg. 158 | Job No. 0300.02 | Division No. 11 | Notes Red. | Plotted | Profile

Survey of HYDRO SURVEY | Notes | Date | Notes Chkd. | Date | Checked | X-Sec.

Survey by RICHARDS | Notes | Date JAN 11 1974 | Date | No.

Indexed G. D. BAILEY | Date | No.

Notes Ck'd by R. MANOR	Survey of HYDROGRAPHIC SURVEY
Map No.	JN 0300-02 Tape Std °F
Office Work	Surveyed by RICHARDS
Checked	Notes UHARRIET Date 12-4-73
Date	Indexed G. D. BAILEY JAN 11 1974

F. B. 2428 PG. 159

TIDE GAGE READINGS
DEC. 4, 1973
TIME - P.S.T.
DATUM - M.L.L.W.

TIME	TIDE
6:00	4.2
6:30	3.9
7:00	3.5
7:30	3.1
8:00	2.8
8:30	2.4
9:00	2.1
9:30	1.7
10:00	1.5
10:30	1.4
11:00	1.3
11:30	1.3
12:00	1.3
12:30	1.5
1:00	1.7
1:30	1.9
2:00	2.1

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

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

Do not extend this side of this line.

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DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-69

76-L-298 CE 307 8-70

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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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M.L.L.W.	350+50
		13 67				
Z-20	315	1595	0 87	1280	L.& C.E Jg., el = 12.80, F.B. 2100-128	
350+00			40	120	Beach Cont. line Sand	
			21	139		27.0 R. toe cliff
		(+)	29	189 (H.L.)		33.0 R. slope
			96	64	45.0 L. Sand (FROM OLD CONTROL)	
	-047	790	7 58	837	45.0 L. top 4' 1x2 " " "	
					T AT Z-21, 40 FT OFF. SLY = 356+38.09, SIGHT ON 350+50, 40 FT OFF. SLY	
			33	46	62 FT LEFT (FROM OLD CONTROL) M.H.W.	
			46	33	74 " " " "	
			68	11	#1 6° 03'	
			88	-09	2 8 00	
			88	-09	3 11 20	
			90	-11	4 14 36	
			105	-26	5 16 57	
			109	-30	6 19 32	
			128	-49	7 24 00	
			139	-60	8 27 20	
			161	-82	9 30 24	
			176	-97	10 33° 17'	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2429 Pg. 161

X-Sec. No. ____ Date ____ Notes Date JAN 17 1974 Checked ____ Date ____ Survey of Hydrosurvey Survey by Boisclair Notes Calc. Date JAN 15-73 Map No. ____ Index No. ____ Date JAN 11 1974

R. MANOR
R. D. BAILEY

76L298 307 Cdb 12-62

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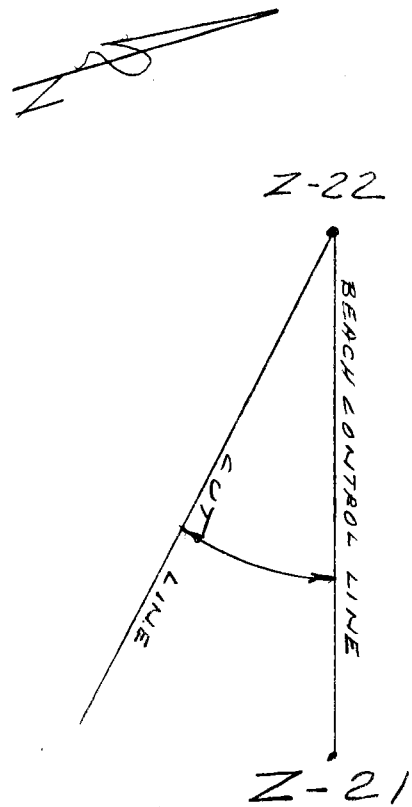
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
Z-22	Z-21	9:04	1	79	13			
			2	77	33			
			3	75	55			
			4	74	04			
			5	72	08			
			6	70	20			
			7	68	40			
			8	67	04			
			9	65	32			
			10	63	09			
			11	61	59			
			12	60	42			
			13	58	45			
			14	57	58			
			15	55	16			
			16	53	12			
			17	50	45			
			18	48	57			
			19	46	47			
			20	44	38			



RANGE = 350+50

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2429 Pg. 163
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 12-5-73
No. ____ Date ____ Date ____ Map No. ____ Indexed D. BAILEY Date JAN 11 1974

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. 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					
Z-22	Z-21		21	42	18			
			22	40	00			
			23	38	27			
			24	35	51			
			25	33	26			
			26	31	22			
			27	29	25			
			28	27	44			
			29	26	03			
			30	24	17			
			31	22	26			
			32	21	04			
			33	19	28			
			34	18	24			
			35	16	28			
		9:13	36	15	43			

F. B. 2429 PG. 164

Survey of HYDRO. SURVEY

Survey by RICHARDS Notes R.T.

Indexed G. D. BAILEY Date JAN 11 1974

Job No. 02300.02 Division No. 11

Notes Red. Plotted

Date Date

Notes Chkd. Checked

Date Date

Profile No.

X-Sec. No.

76-L-298 CE 307 8-70

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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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	353+50
		1595				
T.P	318	1665	248	1347		
353+50			11	156	Beach Cont	Sand
			00	167		14.0R. brk. "
		(+)	50	217 (H.L.)		22.0R. " grd
			40	127	41.0L. brk sand	
			60	107	53.0L. " "	
		2	96	71	64.0L. " "	
	158	719	788	877	64.0L. top 4' 1x2	
		46			✱ AT Z 21 40 FT. S. = 356+38.09, SIGHT ON 353+50, 40 OFF SLY	
		26				
			177	-105 1	57° 46'	
			150	-78 2	54 20	
			140	-68 3	49 51	
			129	-57 4	44 39	
			119	-47 5	39 33	
			101	-29 6	34 08	
			89	-17 7	29 12	
			76	-04 8	23 50	
			65	07 9	19° 07'	
			49	23	102 FT LEFT (FROM OLD CONTROL)	
			26	46	80 " " M.H.W. " "	

Profile No. ____ Notes Red ____ Plotted ____ Date ____ Job No. 030002 Division No. ____ F.B. 2429 Pg. 165

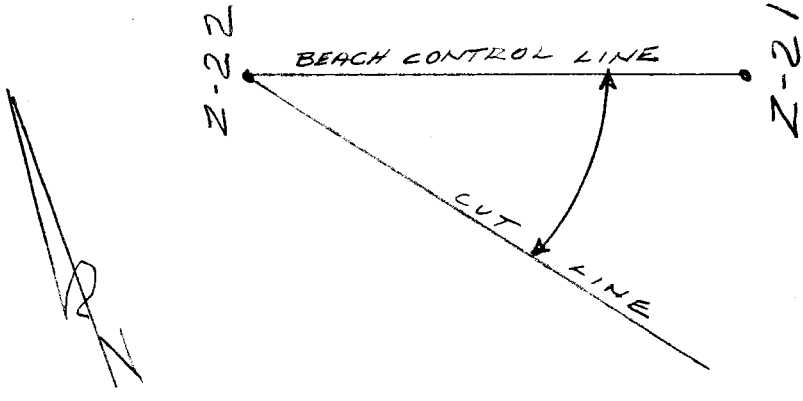
X-Sec. No. ____ Notes Chk'd R. MANOR Date JAN 17 1974 Checked ____ Date ____ Survey of Hydrosurvey Survey by English Notes Caro Date 12-5-73 Map No. ____ Index G. D. BAILEY Date JAN 11 1974

Profile No. _____ Notes Red. _____ Date _____ Plotted _____ Date _____ Job No. 0300.02 Division No. 11 Survey of HYDRO. SURVEY

F. B. 2429 Pg. 167

X-Sec. No. _____ Notes Chkd. _____ Date _____ Checked _____ Date _____ Survey by RICHARDS Notes R.T. Date 12-[illegible]-73

Map No. _____ Indexed G. D. BAILEY Date JAN 11 1974



RANGE = 353+50

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PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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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					
Z-22	Z-21	9:26	1	83	52			
			2	82	06			
			3	80	54			
			4	79	23			
			5	77	56			
			6	76	06			
			7	74	07			
			8	72	16			
			9	70	35			
			10	68	38			
			11	66	58			
			12	65	11			
			13	63	50			
			14	60	52			
			15	58	01			
			16	55	09			
			17	51	40			
			18	48	21			
			19	45	53			
			20	43	35			

76L298 307 Cdb 12-62

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. 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					
Z-22	Z-21		21	40	33			
			22	37	55			
			23	35	44			
			24	31	53			
			25	29	37			
			26	26	28			
			27	23	38			
			28	20	50			
			29	19	09			
			30	17	08			
		9:33	31	15	44			

F. B. 2429 Pg. 168 Job No. 02300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO. SURVEY Date Date No. X-Sec.

Survey by RICHARDS Notes Notes Chkd. Checked

Indexed G. D. BAILEY Date JAN 11 1974 Date Date No.

76-L-298 CE 307 8-70

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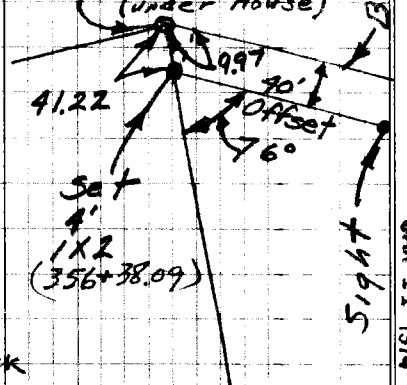
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. = M.L.L.W.	356+48.06 Z-21
		1665			
T.P.	416	1831	250	1415	
356+48.06					F.B. 2316-54
			1 6	167	X Pt. - Beach Cont. line Z-21
			2 6	157	41' L. brk. (under house)
			4 4	139	66' L. "
			4 3	140	101' L. T.B.
			9 4	89	110' L. B.B.
	-350	717	7 64	1067	110' L. Top 4' 1X2
					AT 353+50 40 FT. OFF SLY
					SIGHT ON Z-21; 356+38.09 40' SLY) F.B. 2316-54.
			26	46	130 FT SLY M.H.W. 356+48.06
			54	18	#1 24 07 Z-21 (under House)
			65	07	2 30 37
			73	-01	3 34 22
			83	-11	4 39 42
			112	-40	5 43 48
			116	-44	6 47 36
			100	-28	7 51 07
			112	-40	8 55 18
			137	-65	9 58 50
			113	-41	10 63 37 ROCK
			132	-60	11 66 20



Profile No. ____ Notes Red ____ Plotted ____ Job No. 03000.02 Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of HydroSurvey 12-5-73 Date
Notes Date JAN 17 1974 Checked ____ Survey by E. Hollis Notes Date JAN 11 1974
Date JAN 17 1974 Date ____ Map No. ____ Indexed R. D. BAILEY Date JAN 11 1974

F.B. 2429 PG. 169

76L298 307 Cdb 12-62

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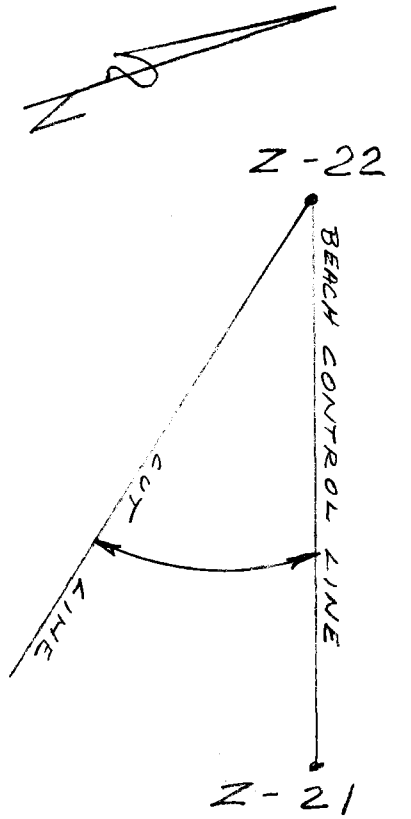
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
Z-22	Z-21	9:48	1	76	28			
			2	75	25			
			3	74	10			
			4	72	59			
			5	71	32			
			6	70	08			
			7	68	27			
			8	66	51			
			9	65	12			
			10	63	32			
			11	61	55			
			12	60	03			
			13	58	10			
			14	56	34			
			15	54	29			
			16	52	51			
			17	51	12			
			18	49	12			
			19	46	57			
			20	45	32			



RANGE = 356+48.06

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2429 Pg. 171
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 12-5-73
No. ____ Date ____ Date ____ Map No. ____ Indexed by D. BAILEY Date JAN 11 1974

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.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
Z-22	Z-21		21	43	44			
			22	41	40			
			23	39	18			
			24	36	09			
			25	33	18			
			26	31	10			
			27	28	11			
			28	25	31			
			29	23	17			
		9:57	30	19	28			

F. B. 2429 Pg. 172 Job No. 6300.02 Division No. 11 Notes Red. Plotted Profile No.

Survey of HYDRO. SURVEY Date Date X-Sec. No.

Survey by RICHARDS Notes Notes Chkd. Checked

Indexed B. D. BAILEY Date JAN 11 1974 Date Date

76-L-298 CE 307 8-70

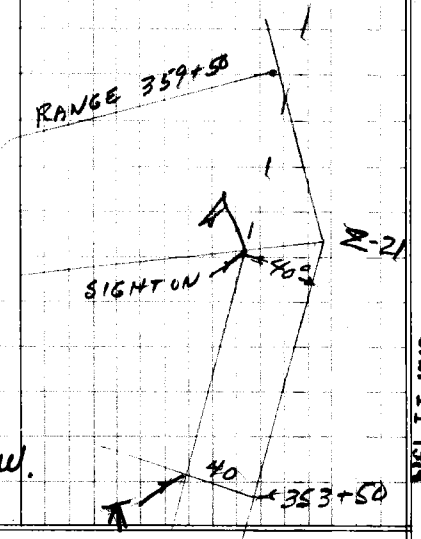
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV.	M.L.L.W.	359+50
		18 31				
T.P.	5 43	17 39	6 35	11 96		
359+50			5 1	12 3	Beach Control Line	
			2 3	15 1	54' R. T.S.	
			4 7	12 7	10' L. brk.	
			6 8	10 6	14' L. B.B.	
			10 9	6 5	35' L. sand	
	~0 62	7 94	8 83	8 56	35' L. Top	4' 1X2
					⊼ AT 353+50, 40 FT SLY SIGHT ON Z-21 40' SLY	
		33	15 3	-7 4	#1 51° 04'	
			13 1	-5 2	2 47 47	
			12 5	-4 6	3 44 22	
			12 9	5 0	4 40 24	
			11 1	-3 2	5 36 22	
			9 6	-1 7	6 32 26	
			9 3	-1 4	7 26 43	
			7 8	0 1	8 23 02	
			7 4	0 5	9 19° 21'	
			5 9	2 0	75 FT. LEFT	
			3 3	4 6	48 " " M.H.W.	



Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2429 Pg. 173
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Checked ____ Survey by Eglish Notes ____ Date 12-5-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G.D. BAILEY Date JAN 11 1974

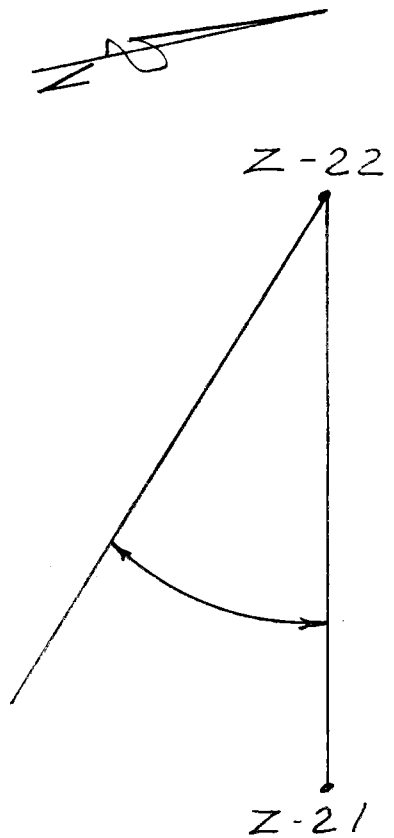
76L298 307 Cdb 12-62

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					
Z-22	Z-21	10:08	1	71	06			
			2	70	24			
			3	69	50			
			4	69	04			
			5	68	07			
			6	67	13			
			7	66	18			
			8	65	30			
			9	64	48			
			10	63	55			
			11	62	57			
			12	61	54			
			13	61	00			
			14	59	49			
			15	58	32			
			16	57	34			
			17	56	14			
			18	55	03			
			19	53	26			
			20	52	18			



RANGE = 359+50

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2429 Pg. 175
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 12-5-73
No. ____ Date ____ Date ____ Map No. ____ Index D. BAILEY Date JAN 11 1974

F. B. 2429 PG. 176 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

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

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

Indexed G. D. BAILEY Date JAN 11 1974 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					
Z-22	Z-21		21	51	08			
			22	49	08			
			23	46	56			
			24	44	52			
			25	42	37			
			26	40	29			
			27	38	25			
			28	36	09			
			29	34	10			
			30	31	54			
			31	30	09			
			32	27	32			
			33	26	03			
			34	23	33			
			35	21	19			
			36	19	00			
		10:16	37	16	59			

76-L-298 CE 307 8-70

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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M.L.L.W.	362+50
		17 39				
T.P.	5 56	13 29	9 66	7 73		
362+50			70	63	Beach Control Line	
			51	82	15 R. brk.	
			50	83	41 R B.B.	
			11	122	46 R. T.B.	
			10	123	51 R. T.S.	
			85	48	12' L. sand.	
	-1 58	5 91	580	7 49	12' L. Top 4' 1X2 or 2-22	
					⊼ AT 357+74 .61 POT. F.B 2100-129 SIGHT ON 362+50	
			13	46	11 FT LEFT M.H.W.	
			50	09	#1 6° 14'	
			57	02	2 11 09	
			73	-14	3 16 34	
			80	-21	4 20 29	
			82	-23	5 23 28	
			95	-36	6 28 11	
			114	-55	7 32 36	
			109	-50	8 36 36	
			123	-64	9 41 14	
			131	-72	10 44° 12'	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2429 PG. 177
X-Sec. No. ____ Date ____ Date ____ Survey of Hydrosurvey
Notes Chk'd R. MANOR Checked ____ Survey by English Notes ____ Date 12-5-73
Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

76L298 307 Cdb 12-62

PLEASE RETURN TO

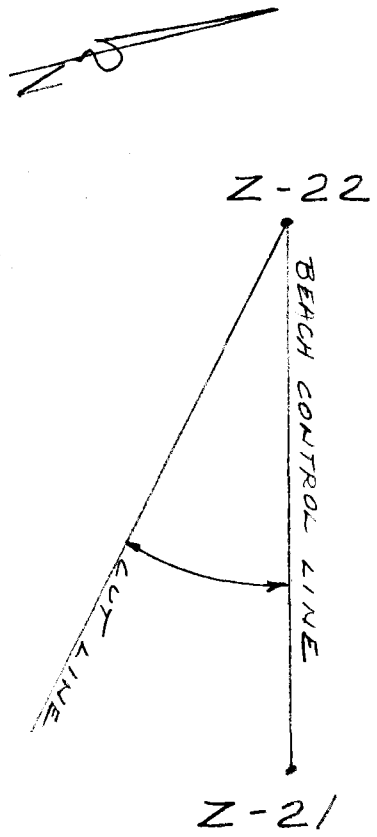
LOS ANGELES COUNTY SURVEYOR

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					
Z-22	Z-21	10:25	1	76	43			
			2	76	14			
			3	75	53			
			4	75	23			
			5	74	48			
			6	74	24			
			7	73	45			
			8	73	09			
			9	72	36			
			10	71	54			
			11	70	57			
			12	70	02			
			13	69	23			
			14	68	46			
			15	68	02			
			16	66	57			
			17	65	59			
			18	65	05			
			19	63	56			
			20	62	57			



RANGE = 362+50

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2429 Pg. 179

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 12-5-73

No. ____ Date ____ Date ____ Map No. ____ Indexed G.D. BAILEY Date JAN 11 1974

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. 2429 Pg. 180 Job No. 340.02 Division No. 11 Notes Red. Date Notes Chkd. Date Plotted Date Checked Date Profile No. X-Sec. No.

Survey of HYDRO SURVEY

Survey by RICHARDS Notes R/T

Indexed G. D. BAILEY Date JAN 11 1974

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					
Z-22	Z-21		21	61	42			
			22	59	57			
			23	58	22			
			24	56	01			
			25	53	41			
			26	51	23			
			27	49	19			
			28	46	46			
			29	45	03			
			30	42	30			
			31	39	17			
			32	36	54			
			33	33	52			
			34	32	33			
			35	29	37			
			36	27	35			
		10:33	37	26	05			

76-L-298 CE 307 8-70

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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M.L.L.W.	367+00
		13 29				
F.P.	5 01	13 04	5 26	8 03		
367+00			4 3	8 7	Beach Control Line	
			3 5	9 5	5' R. bot. Cliff	
			4 8	8 2	34' L. brk.	
			8 0	5 0	59 L. sand	
	-0 91	2 6 15	5 98	7 06	59 L. Top 4' 1X2 OR 2-22	
					π AT P.O.T. 357+74.6, SIGHT ON 367+00	
			162	-100	#1 31° 54'	
			158	-96	2 29 33	
			145	-83	3 26 57	
			137	-75	4 24 32	
			112	-50	5 21 36	
			108	-46	6 18 59	
			82	-20	7 16 02	
			88	-26	8 13 53	
			75	-13	9 12 02	
			65	-03	10 9° 34'	
			59	03	102 FT LEFT	
			16	46	63 " " M.H.W	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2429 Pg. 181

X-Sec. No. ____ Date ____ Notes Chk'd R. MANOR Date ____ Checked ____ Survey of Hydrosurvey Date 12-5-73

Date JAN 17 1974 Date ____ Survey by English Notes ____ Date ____

Map No. ____ Index G. D. BAILEY Date JAN 11 1974

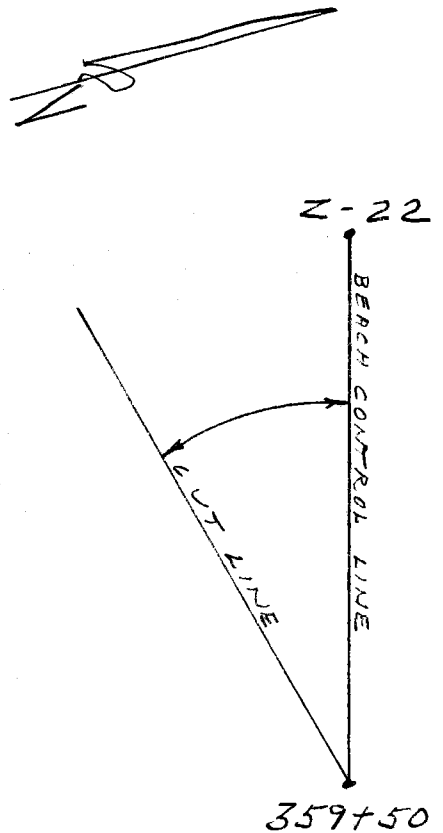
76L298 307 Cdb 12-62

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					
359+50	Z-22	10:57	1	286	27			
			2	287	06			
			3	287	49			
			4	288	37			
			5	289	08			
			6	290	03			
			7	290	52			
			8	291	31			
			9	292	04			
			10	292	55			
			11	293	46			
			12	294	39			
			13	295	36			
			14	296	22			
			15	297	23			
			16	298	54			
			17	299	57			
			18	301	13			
			19	302	27			
			20	303	27			



RANGE = 367+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2429 Pg. 183
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 12-5-73
No. ____ Date ____ Date ____ Map No. ____ Index G. D. BAILEY Date JAN 11 1974

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					
359+50	Z-22		21	304	53			
			22	306	37			
			23	308	32			
			24	311	35			
			25	313	40			
			26	315	59			
			27	317	16			
			28	319	08			
			29	320	56			
			30	323	01			
			31	324	59			
			32	327	24			
			33	329	58			
			34	333	05			
		11:06	35	336	20			

F. B. 2429 Pg. 189 | Job No. 0300.02 | Division No. 11 | Notes Red. | Plotted | Profile

Survey of HYDRO SURVEY | Date | No. | X-Sec.

Survey by RICHARDS | Notes | Chkd. | Checked

Indexed G. D. BAILEY | Date JAN 11 1974 | Date | Date | No.

76-L-298 CE 307 8-70

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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M.L.L.W.	371+00
		13 04				
T.B.M.	032	13 28	0 08	12 96	T.B.M., Bt. Spk. in rock (3.61 from Z-22), F.B. 2100-130 el = 12.96.	
			61	72	Beach Con't. line Sand	
			49	84		24.0 R. brk. "
			14	119		45.0 R. toe Clif
		4	83	50	21.0 L. Sand	
	-213	5 45	5 70	7 58	21.0 L. top 4', x2	
					⊼ AT Z 22 SIGHT ON Z-23	
			08	46	24 FT. LEFT M.H.W.	
			36	18	56 " "	
			53	01	#1 23° 39'	
			60	-06	2 31 17	
			75	-21	3 39 24	
			93	-39	4 45 16	
			88	-34	5 51 01	
			116	-62	6 55 48	
			122	-68	7 58 37	
			131	-77	8 61 30	
			157	-103	9 64° 07'	

Profile Notes Red ____ Plotted ____ Job No. 030002 Division No. ____ F.B. 2429 Pg. 185
No. ____ Date ____ Date ____ Survey of Hydro survey
X-Sec. Notes Chk'd R. MANOR Checked ____ Survey by English Notes Carey Date 12-5-73
No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEN Date JAN 11 1974

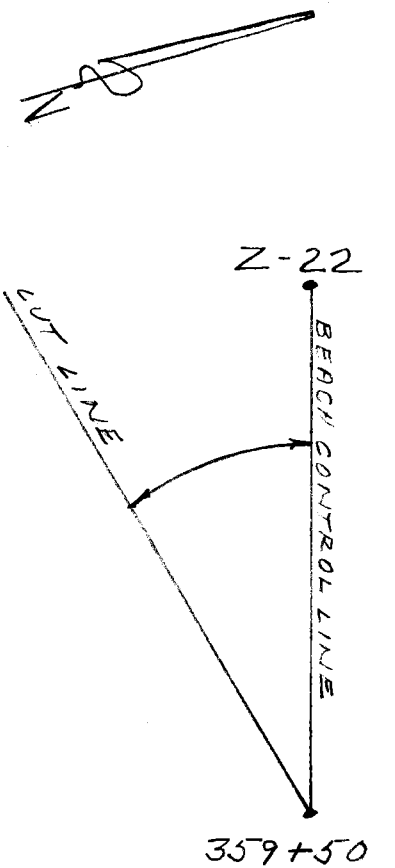
76L298 307 Cdb 12-62

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					
359+50	Z-22	11:23	1	296	52			
			2	298	12			
			3	299	15			
			4	300	23			
			5	301	13			
			6	302	19			
			7	303	28			
			8	304	19			
			9	305	04			
			10	305	49			
			11	307	12			
			12	308	26			
			13	309	27			
			14	310	05			
			15	311	40			
			16	312	46			
			17	314	14			
			18	314	59			
			19	317	01			
			20	319	12			



RANGE = 371+00

Profile Notes Red. Plotted Job No. 300.02 Division No. 11 F. B. 2429 Pg. 187
No. Date Date Survey of HYDRO SURVEY
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes R.T. Date 12-5-73
No. Date Date Map No. Indexed D. D. BAILEY Date JAN 11 1974

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					
339+00	Z-22		21	321	23			
			22	323	43			
			23	325	35			
			24	327	30			
			25	329	54			
			26	332	04			
			27	334	25			
			28	336	14			
			29	338	20			
			30	340	42			
			31	343	08			
		11:31	32	345	54			

F. B. 2429 Pg. 188 | Job No. 0300.02 | Division No. 11 | Notes Red. | Plotted | Profile

Survey of HYDRO SURVEY | Date | Date | No. | X-Sec.

Survey by RICHARDS | Notes R.T. | Notes Chkd. | Checked

Indexed G. D. BAILEY | Date JAN 11 1974 | Date | Date | No.

76-L-298 CE 307 8-70

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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	375+00
		13 28				
T.P.	582	1252	658	670		
375+00			54	71	Beach Cont. line Sand	
			42	83		25.0 R. brk. "
			24	101		33.0 R. toe cliff
		8	85	40	32.0 L. Sand	
	-0 88	585	579	673	32.0 L. top 4' 1x2	
					⊼ AT Z 22 SIGHT ON Z-23	
		12	152	-94	#1 31° 50'	
			144	-86	2 29 17	
			117	-59	3 26 28	
			130	-72	4 22 50	
			117	-59	5 19 45	
			98	-40	6 16 03	
			76	-18	7 12 33	
			67	-09	8 10 05	
			53	05	9 7° 36'	
			47	11	60 FT. LEFT	
			12	46	27 " " M.H.W.	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 030002 Division No. ____ F.B. 2429 PG. 189

X-Sec. No. ____ Date ____ Date ____ Survey of Hydro Survey Date 12-5-73

Notes Cont'd R. MANOR Checked ____ Survey by English Notes Caro Date ____

Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

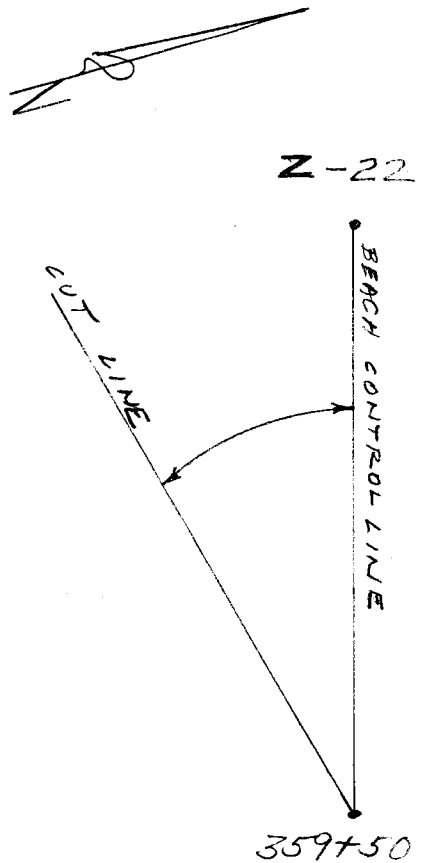
76L298 307 Cdb 12-62

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					
359+50	Z-22	11:40	1	304	09			
			2	305	17			
			3	306	30			
			4	307	15			
			5	308	37			
			6	309	50			
			7	311	39			
			8	312	58			
			9	314	44			
			10	315	54			
			11	316	53			
			12	318	12			
			13	319	27			
			14	320	37			
			15	322	37			
			16	324	20			
			17	325	57			
			18	327	32			
			19	330	01			
			20	332	15			



RANGE = 375+00

Profile Notes Red. Plotted Job No. 2300.02 Division No. 11 F. B. 2429 Pg. 191
No. Date Date Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes RTT Date 12-5-73
No. Date Date Map No. Indexed D. BAILEY Date JAN 11 1974

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					
359+50	Z-22		21	334	43			
			22	336	27			
			23	338	12			
			24	341	20			
			25	343	18			
			26	345	23			
			27	347	40			
			28	350	02			
			29	352	03			
		11:49	30	353	03			

F. B. 2429 Pg. 192 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO. SURVEY Date Date No.

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

Indexed G.D. BAILEY Date JAN 11 1974 Date Date No.

76-L-298 CE 307 8-70

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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M L. L. W	380+00
		12 52				
T.P.			1 07			
Z-23	1 42	12 87		11 45	Z-23 El. = 11.45 F.B. 2100-131	
T.P.	2 62	13 90	1 59	11 28		
380+00			23	11 6	Beach Con't. line	Sand
			19	120		33.0R. toe cliff "
			47	92	67.0L. brk. sand	
			51	88	131.0L. " "	
			97	42	179.0L. "	
	+020	7 13	697	693	179.0L. top 4' 1x2	
					⊤ AT Z 23 SIGHT ON P.O.T. AHEAD. (OR 380+00)	
			25	46	176	
			59	12	#1 27° 54'	
			79	-08	2 32 05	
			95	-24	3 35 36	
			107	-36	4 38 19	
			146	-75	5 41 58	
			151	-80	6 44 54	
			156	-85	7 48 44	
			165	-94	8 50 57	
			183	-112	9 53° 20'	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 2000 Division No. ____ F.B. 2429 Pg. 193

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

Notes Checked B. MANOR Date ____ Survey by Engineer Notes Cara Date 1-5-73

Date JAN 17 1974 Date ____ Map No. ____ Indexed D. BAILEY Date JAN 11 1974

76L298 307 Cdb 12-62

PLEASE RETURN TO
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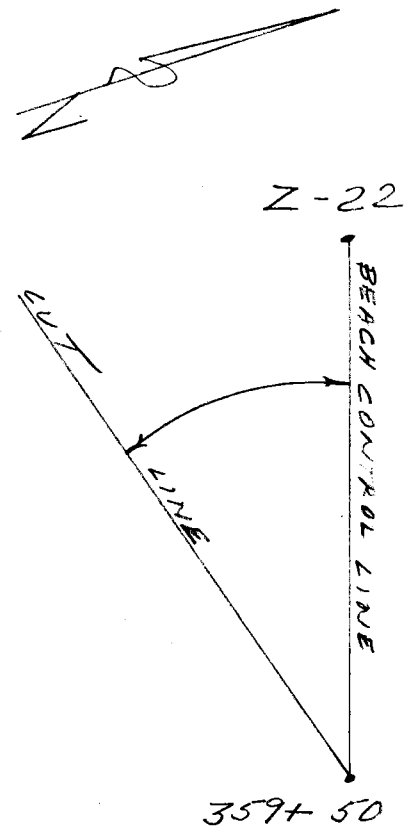
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
359+50	Z-22	12:04	1	335	11			
			2	335	53			
			3	336	28			
			4	337	17			
			5	338	01			
			6	339	18			
			7	339	43			
			8	340	50			
			9	341	26			
			10	342	24			
			11	343	06			
			12	344	43			
			13	346	23			
			14	347	22			
			15	348	00			
			16	349	02			
			17	350	18			
			18	351	30			
			19	352	44			
			20	354	13			



RANGE = 380+00

Profile Notes Red.____ Plotted____ Job No. 0300.02 Division No. 11 F.B. 2429 Pg. 195
No.____ Date____ Date____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd.____ Checked____ Survey by RICHARDS Notes R.T. Date 12-5-73
No.____ Date____ Date____ Map No.____ Indexed G. D. BAILEY Date JAN 11 1974

F. B. 2429 PG. 196 Job No. 030002 Division No. 11 Notes Red. _____ Plotted _____ Profile

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

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

Indexed G. D. BAILEY Date JAN 11 1974 Date _____ Date _____ No. _____

76L298 307 Cdb 12-62

PLEASE RETURN TO

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
359+50	Z-22		21	355	19			
			22	356	11			
			23	357	11			
			24	357	54			
			25	359	07			
			26	359	49			
		12:11	27	360	09			

Notes Ck'd by R. MANOR	Survey of HYDROGRAPHIC SURVEY
Map No.	JN 0300.02 Tape Std °F
Office Work	Surveyed by RICHARDS
Checked	Notes UHARRIET Date 12-5-73
Date	Indexed G. D. BAILEY JAN 11 1974

F. B. 2429 PG. 197

TIDE GAGE READINGS
DEC. 5, 1973
TIME – P.S.T.
DATUM – M.L.L.W.

TIME	TIDE
6:00	4.9
6:30	4.6
7:00	4.2
7:30	3.7
8:00	3.2
8:30	2.8
9:00	2.3
9:30	1.8
10:00	1.4
10:30	0.9
11:00	0.7
11:30	0.5
12:00	0.5
12:30	0.5
1:00	0.6
1:30	0.8
2:00	1.1

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

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

Do not extend this side of this line.

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

76F309S CE#310 3-69

76-L-298 CE 307 8-70

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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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M.L.L.W.	385+00
		1390				
T.P.	339	1693	036	1354		
385+00			11	158	Beach cont. line sand	
			05	164		6.0 R. brk "
		(+)	05	174 (H.L.)		8.0 R. " grd
		(+)	04	~~165~~ 173 (H.L.)		22.0 R. " "
			59	110	51.0 L. brk sand	
			122	47	161.0 L. "	
	058	801	950	743	161.0 L. top 4' 1x2	
		"	34	46	164 FT LEFT M.H.W.	
					⊼ AT 395+00 SIGHT ON 385+00	
			57	23	#1 9° 36'	
			80	00	2 11 35	
			89	-09	3 13 26	
			110	-30	4 15 26	
			141	-61	5 17 43	
			174	-94	6 19 27	
			188	-108	7 21° 54'	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 030002 Division No. ____ F.B. 2429 Pg. 199
X-Sec. No. ____ Date ____ Date ____ Survey of Hydro Survey
Notes Ck'd R. MANOR Checked ____ Survey by English Notes Caro Date 12-6-73
Date JAN 17 1974 Date ____ Map No. ____ Indexed R. D. BAILEY Date JAN 11 1974

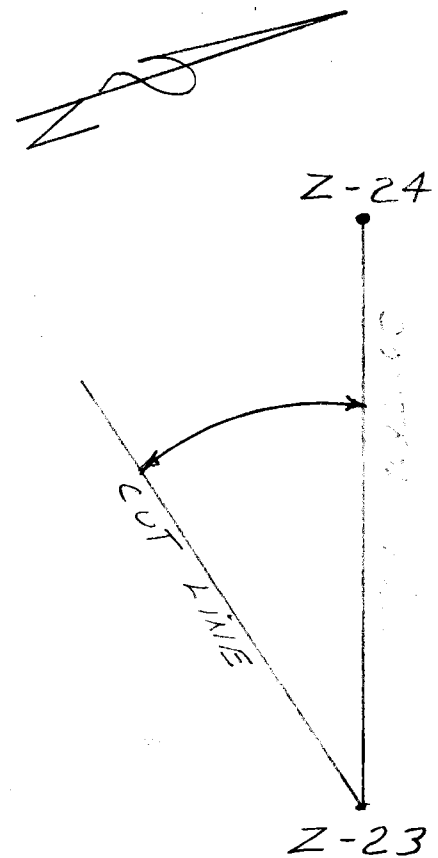
76L298 307 Cdb 12-62

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					
Z-23	Z-24	8:30	1	289	12			
			2	289	37			
			3	289	51			
			4	290	04			
			5	290	34			
			6	291	02			
			7	291	23			
			8	292	04			
			9	292	27			
			10	293	07			
			11	294	01			
			12	294	54			
			13	295	29			
			14	296	44			
			15	297	49			
			16	298	59			
			17	300	05			
			18	301	43			
			19	303	05			
			20	304	26			



RANGE = 385+00

Profile Notes Red ____ Plotted ____ Job No 2300.02 Division No. 11 F. B. 2429 Pg. 201
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes RTT Date 12-6-73
No. ____ Date ____ Date ____ Map No. ____ Indexed D. BAILEY Date JAN 11 1974

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.	Range Line Min.	Card No.
Z-23	Z-24		21	306	12			
			22	307	18			
			23	309	03			
			24	310	37			
			25	312	04			
			26	314	19			
			27	316	28			
			28	319	35			
			29	322	13			
			30	325	00			
			31	327	28			
			32	330	53			
			33	334	30			
			34	337	48			
			35	341	07			
		8:38	36	343	01			

F. B. 2429 Pg. 202

Survey of HYDRO. SURVEY

Survey by RICHARDS

Indexed G. D. BAILEY

Job No. 0300.02 Division No. 11

Notes R.T.

Date JAN 11 1974

Profile No.

X-Sec. No.

Plotted Date

Checked Date

Notes Red. Date

Notes Chkd. Date

76-L-298 CE 307 8-70

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.

Range Line 390+00

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	
		1693				
T.P.	584	2216	061	1632		
T.P.	1176	3353	039	2177		
T.P.	538	3443	448	2905	(SEE PG. 233 RANGE 400+00)	
390+00			47	297	Beach Cont. line	
			432	3011		13.0 R. edge pavmt.
			51	293	3.0 L. brk. ard.	
T.P.	070	2471	1042	2401		
			12	235	14.0 L. toe bk.	
			72	175	81.0 L. brk sand	
			90	157	91.0 L. " "	
T.P.	293	1693	1071	1400		
			83	86	169.0 L. Sand	
	-248	830	615	1078	169.0 L. top 4'1x2	
					⊼ AT 395+00 SIGHT ON 390+00	
			224	-141	1 48° 55'	
			208	-125	2 46 18	
			198	-115	3 43 16	
			183	-100	4 39 58	
			165	-82	5 37 08	
			153	-70	6 34 34	
			120	-37	7 31° 31'	

CONT. NEXT PAGE

Profile No. ____ X-Sec. No. ____
Notes Red ____ Date ____ Checked ____ Date JAN 17 1974
Plotted ____ Date ____ Checked ____ Date ____
Job No. 03002 Division No. ____
Survey of Hydro Survey Date 12-6-73
Survey by Engels/Carr Notes Carr
Map No. ____ Indexed ____ Date ____
F. B. 2429 PG. 203
D. BAILEY JAN 11 1974

76-L-298 CE 307 8-70

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.

F. B. 2423 PG. 204 Job No. 0300.02 Division No. 11 Notes Red Plotted Profile No.
Survey of HYDRO - ARROYO SEQUIT Date 12-6-73 Date X-Sec. No.
Survey by RICHARDS Notes DREIER Notes Chk'd. Checked
Indexed G. D. BAILEY Date JAN 11 1974 Date Date

STATION	B. S.	H. I.	F. S.	ELEV.				390+00
		830			COUT.			
		46	102	-19	#8	28°	50'	
			92	-09	9	26	42	
			79	04	10	24°	18'	
			54	29	212	FT	LEFT	
			37	46	200	"	"	M.H.W.

76L298 307 Cdb 12-62

PLEASE RETURN TO

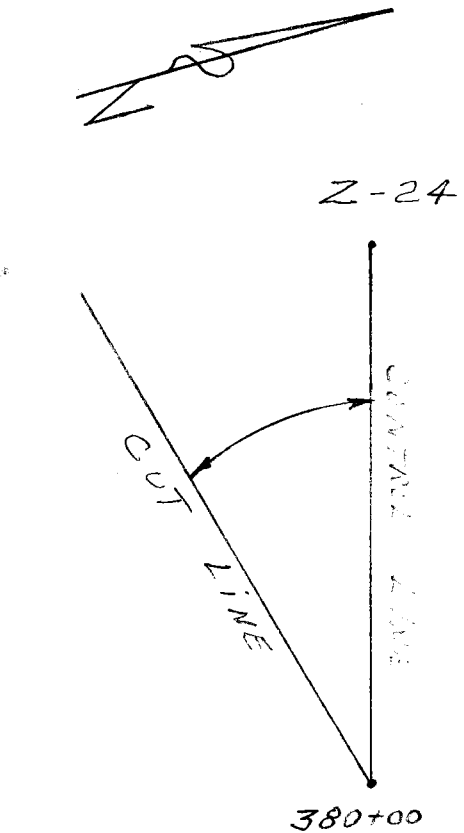
LOS ANGELES COUNTY SURVEYOR

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					
380+00	Z-24	8:53	1	290	01			
			2	290	31			
			3	291	11			
			4	291	55			
			5	292	25			
			6	293	06			
			7	293	58			
			8	294	28			
			9	295	21			
			10	295	53			
			11	296	42			
			12	297	47			
			13	298	35			
			14	299	06			
			15	300	06			
			16	300	49			
			17	302	18			
			18	303	27			
			19	304	48			
			20	306	59			



RANGE = 390+00

Profile Notes Red. Plotted Job No. 2300.02 Division No. 11 F. B. 2429 PG. 205

No. Date Date Survey of HYDRO SURVEY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes R.T. Date 12-6-73

No. Date Date Map No. Index G. D. BAILEY Date JAN 11 1974

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					
380+00	Z-24		21	308	57			
			22	311	26			
			23	313	54			
			24	316	27			
			25	318	35			
			26	320	45			
			27	323	12			
			28	326	18			
			29	329	42			
			30	332	15			
			31	335	40			
			32	338	10			
			33	341	04			
		9:02	34	343	05			

F. B. 2429 Pg. 206 Job No. 300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO. SURVEY Date Date No.

Survey by RICHARD Notes RIT. Notes Chkd. Checked X-Sec.

Indexed G. D. BAILEY Date JAN 11 1974 Date Date No.

76-L-298 CE 307 8-70

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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	395+00
		16 93				
T. P.	460	17 73	3 80	13 13		
T. P.	1052	27 81	0 44	17 29		
T. P	821	33 72	2 30	25 51		
395+00			26	31 1	Beach Con't line	
			2 78	30 94	27.0 L. edge pvmt.	
			31	30 6	37.0 L. " bk.	
T. P.	163	24 43	10 92	22 80		
			35	20 9	55.0 L. toe bk sand	
			50	19 4	103.0 L. brk sand	
			11 5	12 9	123.0 L. brk "	
T.P.	512	18 30	11 25	13 18		
			50	13 3	180.0 L. brk sand	
			67	11 6	183.0 L. " "	
			111	7 2	217.0 L "	
	-120	8 07	9 03	9 27	217.0 L top 4' 1x2	
			35	4 6	239 FT. LEFT M.H.W	
					⊼ AT 390+00 SIGHT ON 395+00	
			63	18	#1 27° 44'	
			95	-14	2 30 02	
			104	-23	3 32 50	

CONT. NEXT PAGE

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2429 PG. 207
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chk'd R. MANOR Checked ____ Survey by Highish Notes Cara Date 11-6-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed A. D. BAILEY Date JAN 11 1974

76-L-298 CE 307 8-70

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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.		395+00
		8 07			CONT	
			125	-44	# 4 35° 51'	
			146	-65	5 38 23	
			172	-91	6 41 07	
			190	-109	7 43 12	
			209	-128	8 45 22	
			220	-~~16~~ 13 9	9 47 27	
T.P.1 - PG. 207	5.19	16.46		11 27		

F. B. 2429 PG. 208 Job No. 0300.02 Division No. 11 Notes Red Plotted Profile
Survey of ARROYO SEQUIT HYDRO Date 12-6-73 Date No. X-Sec.
Survey by RICHARDS Notes DREIER Notes Chk'd. Checked No.
Indexed G. D. BAILEY Date JAN 11 1974 Date Date

76L298 307 Cdb 12-62

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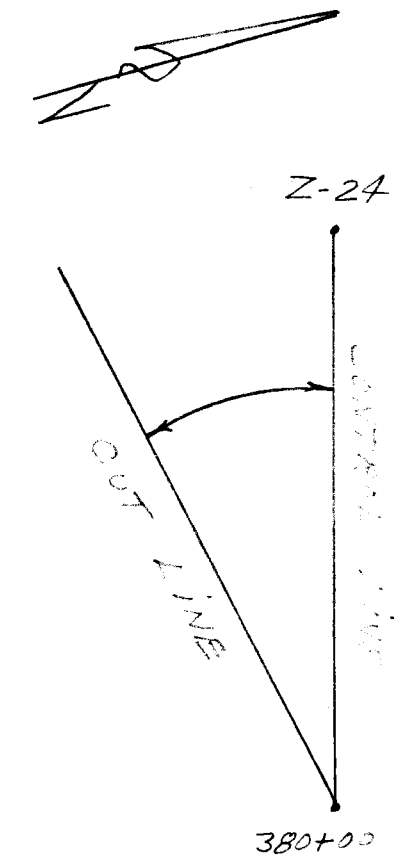
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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 DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
380+00	Z-24	9:13	1	297	42			
			2	298	28			
			3	299	17			
			4	300	00			
			5	300	48			
			6	301	40			
			7	302	33			
			8	304	03			
			9	305	14			
			10	306	22			
			11	307	45			
			12	308	44			
			13	310	11			
			14	311	08			
			15	311	56			
			16	313	13			
			17	314	34			
			18	315	33			
			19	317	10			
			20	319	00			



RANGE = 395+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2429 Pg. 209
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 12-6-73
No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F. B. 2429 PG. 210 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

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

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

Indexed G. D. BAILEY Date JAN 11 1974 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					
380+00	Z-24		21	320	49			
			22	322	50			
			23	324	42			
			24	327	04			
			25	329	10			
			26	331	36			
			27	333	11			
			28	335	40			
			29	337	57			
			30	339	41			
			31	341	44			
			32	343	41			
			33	345	46			
		9122	34	346	50			

Profile No. _____ Notes Red. _____ Date _____ Plotted _____ Date _____ Job No. _____ Division No. _____ Survey of _____

X-Sec. No. _____ Notes Chkd. _____ Date _____ Checked _____ Date _____ Survey by _____ Notes _____ Date _____ Map No. _____ Indexed _____ Date _____

F. B. Pg.

NOTE: RANGES 400+00 & 405+00 RE-RUN — SEE PGS 12-7-73

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

761298 307 Cdb 12-62

76L298 307 Cdb 12-62

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Do not extend notes this side of this line.

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date Notes Chkd. Date

Division No.

Job No. Notes Date

Pg.

F. B.

Survey of

Survey by

Indexed

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					

76-L-298 CE 307 5-66

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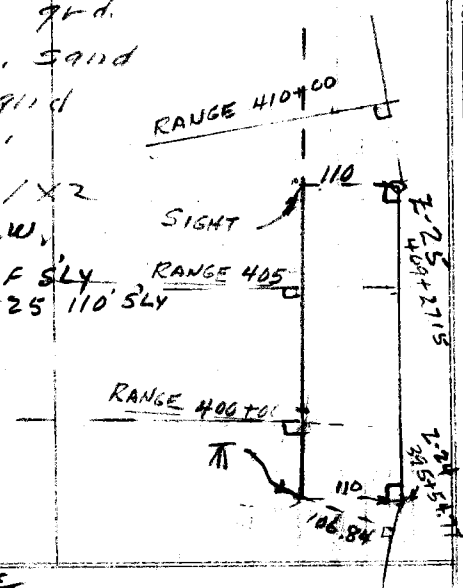
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	410+00
		16 46				
T.P.	1097	22 13	530	11 16		
T.P.	628	28 38	003	22 10		
R.M. Z-25			176	26 62	R.M. Z-25 El.= 26.63 F.B. 2100-133	
	172	28 35		26 63		
T.P.	036	16 74	1197	16 38		
410+00		(+)	59	22 6	(H.L.) Beach cont. line grd.	
		(+)	6	~~23~~ 22 ~~6~~ 7	(H.L.)	10.0 R. toe cliff
			00	16 7	74.0 L. top bk. grd.	
			53	11 4	77.0 L. toe bk. sand	
			38	12 9	223. L. brk. sand	
			111	5 6	260. L. "	
	030	843	361	8 13	260. L. top 4' 1x2	
			38	4 6	267 FT LEFT M.H.W.	
					⊼ AT Z24, 110 FT OF SLY SIGHT ON Z-25 110' SLY	
			67	1 7	1 7° 50'	
			85	-0 1	2 8 42	
			101	-1 7	3 9 24	
			109	-2 5	4 10 35	
			144	-6 0	5 12 13	
			142	-5 8	6 13° 54	



CONT. NEXT PAGE

Profile No. ____ Notes Red ____ Plotted ____ Job No. 030062 Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of Hydro Survey
Notes Checked R. MANOR Checked ____ Survey by Tuttle Notes Chief Date 12-6-73
Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F.B. 2429 PG. 211

F.B. 2429 PG. 212 | Job No. 030002 Division No. 11 Notes Red ____ Plotted ____ Profile

Survey of HYDRO - ARROYO SEQUIT Date ____ Date ____ No. ____

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

Indexed G.D. BAILEY Date JAN 11 1974 Date ____ Date ____ No. ____

76-L-298 CE 307 5-66

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

Do not extend notes this side of this line.

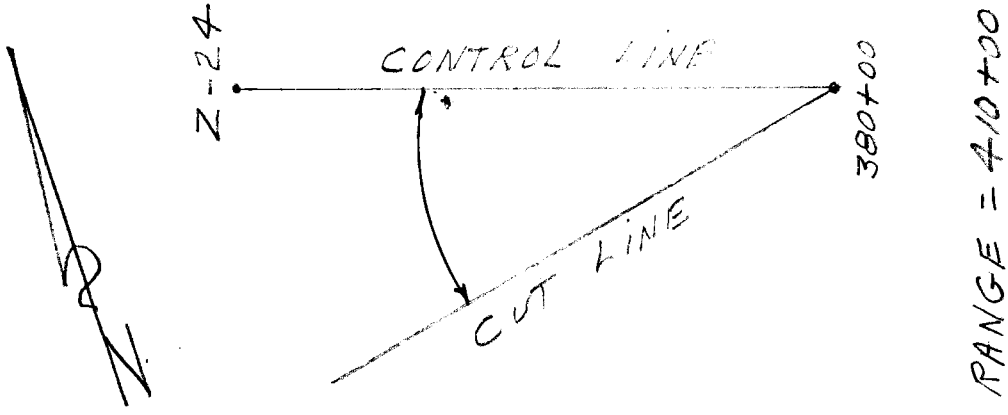
STATION	B. S.	H. I.	F. S.	ELEV.	
		8 43			
			152	-6 8 1/7	
			167	-8 3 1/8	
			194	-11 0 1/9	
			183	-9 9 1/10	
			200	-11 6 1/11	
					CONT.
					15° 05'
					16 30
					18 12
					19 21
					20° 56'
					410+00

Profile No. _____ Notes Red. _____ Date _____ Plotted _____ Date _____ Job No. 0300.02 Division No. 11 Survey of HYDRO SURVEY

X-Sec. No. _____ Notes Chkd. _____ Date _____ Checked _____ Date _____ Survey by RICHARDS Notes R.T. Date 12-6-73

Map No. _____ Indexed G.D. BAILEY Date JAN 11 1974

F. B. 2429 Pg. 213



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					
380+00	Z-24	10:16	1	290	53			
			2	292	33			
			3	294	34			
			4	296	22			
			5	298	27			
			6	300	43			
			7	302	09			
			8	304	07			
			9	305	27			
			10	307	03			
			11	309	46			
			12	312	41			
			13	313	56			
			14	315	56			
			15	317	12			
			16	318	26			
			17	319	34			
			18	321	28			
			19	322	25			
			20	323	38			

76L298 307 Cdb 12-62

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. 2429 PG. 214

Job No. 2300.02 Division No. 11

Survey of HYDRO SURVEY

Survey by RICHARDS Notes P.T.

Indexed G. D. BAILEY Date JAN 11 1974

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date Notes Chkd. Date

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
380+00	Z-24		21	325	17			
			22	327	30			
			23	328	51			
			24	330	51			
			25	332	20			
			26	333	45			
			27	335	21			
			28	336	50			
			29	338	05			
			30	339	23			
			31	340	31			
			32	341	51			
			33	342	51			
			34	344	14			
			35	344	51			
		10:29	36	345	31			

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W	415+00
		16 74				
T.P.	559	18 88	345	13 29		
415+00			72	117	Beach Con't. line	sand
			60	129		12.0R toe cliff "
			09	180		21.0R slope grd.
			47	~~16~~ 14 2	105.0 L. brk. Sand	
			93	96	114.0 L. " "	
			128	61	130.0 L. "	
	-298	6 00	990	8 98	130.0 L. top 4' 1X2	
			14	46	140 FT LEFT	
					⊼ AT 410+00 SIGHT ON Z26 OR (415+00)	
			41	19	161 FT LEFT	
			71	-11	#1 21° 14'	
			80	-20	2 23 40	
			93	-33	3 26 16	ROCK SHELF
			95	-35	4 29 43	
			100	-40	5 32 08	
			140	-80	6 35 50	
			152	-92	7 38 54	
			168	-108	8 41 04	
			174	-114	9 43° 08	

Profile Notes Red ____ Plotted ____ Job No. 300002 Division No. ____ F.B. 2429 PG. 215

No. ____ Date ____ Date ____ Survey of Hydro Survey

X-Sec. Notes Chk'd R. MANOR Checked ____ Survey by English Notes Carp Date 12 [illegible]

No. ____ Date JAN 17 1974 Date ____ Map No. ____ Index G. D. BAILEY Date JAN 11 1974

76L298 307 Cdb 12-62

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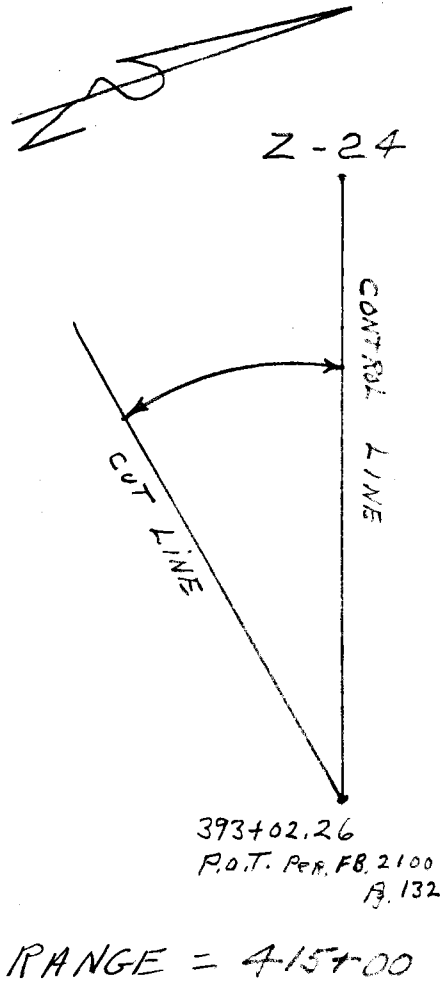
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
393+02.26	Z-24	10:59	1	273	43			
			2	275	17			
			3	276	44			
			4	278	25			
			5	280	07			
			6	281	43			
			7	283	02			
			8	285	07			
			9	287	09			
			10	289	08			
			11	291	03			
			12	293	09			
			13	295	33			
			14	298	12			
			15	300	58			
			16	303	04			
			17	305	17			
			18	308	05			
			19	310	35			
			20	312	25			



RANGE = 415+00

Profile Notes Red ____ Plotted ____ Job No. 6300.02 Division No. 11 F.B. 2429 Pg. 217
No. ____ Date ____ Date ____ Survey of H YDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes A.L. Date 12-6-73
No. ____ Date ____ Date ____ Map No. ____ Index D. BAILEY Date JAN 11 1974

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					
393+02.26	Z-24		21	314	25			
			22	316	10			
			23	318	00			
			24	319	53			
			25	321	38			
			26	323	16			
			27	324	49			
			28	326	27			
			29	327	43			
			30	328	58			
			31	330	16			
			32	331	25			
			33	332	21			
			34	333	15			
		11:06	35	334	00			

F. B. 2429 PG. 218

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

Survey of HYDRO SURVEY Date Date No. X-Sec.

Survey by RICHARDS Notes RT Notes Chkd. Checked

Indexed G. D. BAILEY Date JAN 11 1974 Date Date No.

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

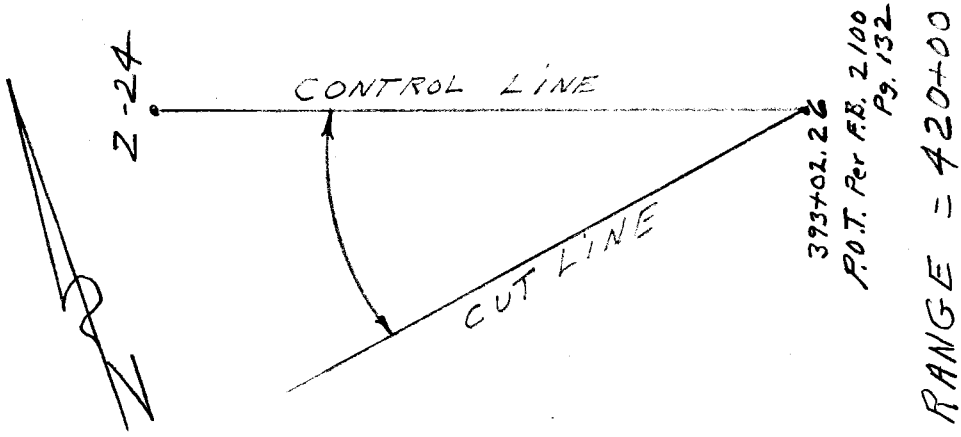
Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV.	M.L.L.W.	420+00
		18 88				
T.P.	387	18 59	416	14 72		
420+00			55	131	Beach cont. line	sand
			73	113		40.0R. toe cliff "
			44	142	31 .0L. brk sand	
			86	100	39 .0L. " "	
			136	50	62 .0L. "	
	-156	572	1131	728	62 .0L. top 4' 1x2	
					⊼ AT 410+00 SIGHT ON Z-26	
			160	-103	#1 22° 32'	
			128	-71	2 20 08	
			129	-72	3 17 26	
			107	-50	4 15 08	
			91	-34	5 12 53	
			100	-43	6 11 22	
			77	-20	7 10 24	
			64	-07	8 8 36	
			53	04	9 6° 10'	
			43	14	88 FT LEFT	
			11	46	63 " " M.H.W.	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2429 PG. 219
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Chk'd R. MANOR Checked ____ Survey by English Notes Carp Date 12-6-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

Profile No.	Notes Red.	Plotted	Job No. 2300.02	Division No. 11	F. B. 2429 Pg. 221
	Date	Date	Survey of HYDRO. SURVEY		
X-Sec. No.	Notes Chkd.	Checked	Survey by RICHARDS	Notes R.T.	Date 12-6-73
	Date	Date	Map No.	Indexed G. D. BAILEY	Date JAN 11 1974



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

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

Inst. At Don't Punch	Sight On Don't Punch	Time Don't Punch	Angle No. Don't Punch	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Deg.	For Office Use Only Line Min.	For Office Use Only Card No.
393+02.26	Z-24	11:20	1	281	46			
			2	283	07			
			3	284	18			
			4	286	01			
			5	287	55			
			6	289	40			
			7	291	17			
			8	293	23			
			9	294	44			
			10	297	05			
			11	299	06			
			12	300	45			
			13	303	08			
			14	305	40			
			15	308	47			
			16	311	40			
			17	314	18			
			18	316	21			
			19	318	56			
			20	321	00			

76L298 307 Cdb 12-62

F. B. 2429 PG. 222 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

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

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

Indexed G. D. BAILEY Date JAN 11 1974 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					
393+02. 26	Z-24		21	322	51			
			22	324	33			
			23	326	29			
			24	328	06			
			25	329	33			
			26	330	45			
			27	331	34			
		11:27	28	332	39			

76-L-298 CE 307 5-66

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

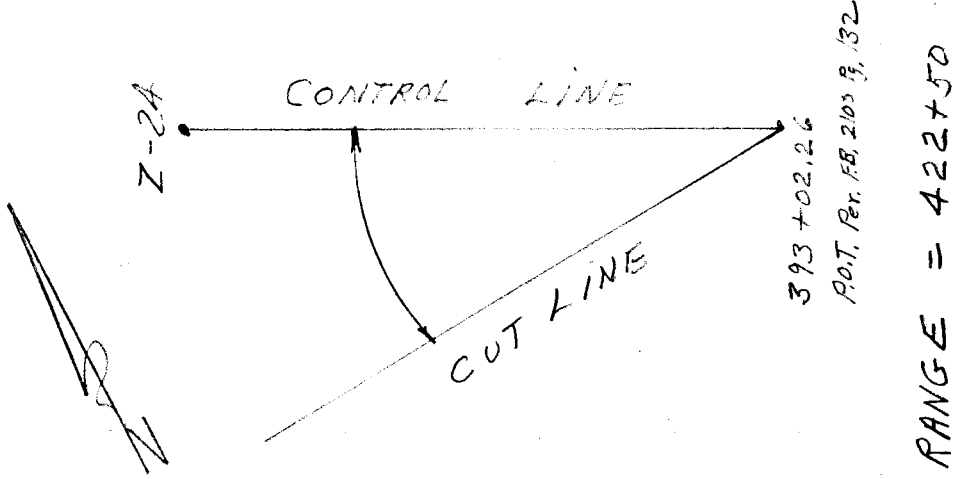
Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W	422+50
		18 59				
T.P	362	17 97	424	14 35		
422+50			48	13 2	Beach Cont. line	sand
			55	12 5		73.0 R. brk. "
		(+)	20	~~19~~ 20 0	(H.L.)	82.0 R top bk. grd.
			41	13 9	17.0 L. brk Sand	
			88	9 ~~7~~ 2	25.0 L. " "	
			137	4 3	53.0 L. "	
	-10 7	5 74	11 16	6 81	53.0 L. top 4' 1x2	
					⊼ AT 415+00 SIGHT ON Z-26	
			11	4 6	51 FT. LEFT M.H.W.	
			50	07	80 " "	VISIBLE CLOSE ROCKS
			51	06	103 " "	
			65	-0 8	#1 9° 28'	
			75	-1 8	2 11 36	
			92	-3 5	3 14 34	
			105	-4 8	4 17 23	
			121	-6 4	5 19 54	
			120	-6 3	6 22 44	
			136	-7 9	7 25 16	
			153	-9 6	8 28 65	
			160	-10 3	9 30° 38'	

Profile Notes Red ____ Plotted ____ Job No. 030087 Division No. ____ F.B. 2429 PG. 223
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Circled R. MANOR Checked ____ Survey by [illegible] Notes [illegible] Date [illegible]
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Index G. D. BAILEY Date JAN 11 1974

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 11	F. B. 2429 Pg. 225
No.	Date	Date	Survey of HYDRO. SURVEY		
X-Sec.	Notes Chkd.	Checked	Survey by RICHARDS	Notes RT.	Date 12-6-73
No.	Date	Date	Map No.	Index G. D. BAILEY	Date JAN 11 1974



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

Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Deg.	Line Min.	Card No
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
393+02.26	Z-24	11136	1	285	29			
			2	286	45			
			3	288	11			
			4	289	53			
			5	291	16			
			6	293	10			
			7	295	23			
			8	297	34			
			9	299	30			
			10	301	09			
			11	303	25			
			12	305	25			
			13	307	34			
			14	310	03			
			15	312	01			
			16	314	13			
			17	316	30			
			18	318	56			
			19	321	33			
			20	323	24			

76L298 307 Cdb 12-62

F. B. 2429 PG. 226 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

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

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

Indexed G. D. BAILEY Date JAN 11 1974 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					
393+02, 26	Z-24		21	325	01			
			22	326	30			
			23	327	45			
			24	328	38			
			25	329	42			
			26	330	34			
			27	331	39			
		11:43	28	332	06			

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Range line 425+00

STATION	B. S.	H. I.	F. S.	ELEV.	M.L.L.W.	425+00
		17.97				
T.P.	3.49	11.38	4.08	13.89		
425+00			4.7	12.7	Beach cont. line	Sand
			5.9	11.5		36.0 R. brk. "
TO PG. 241			0.9	16.5		45.0 R grd.
			4.0	13.4	17.0 L. brk. sand	
			7.1	10.3	22.0 L. " "	
			12.9	4.5	49.0 L. "	
	-2.44	5.11	9.83	7.55	49.0 L. top 4'/x2	
					⊼ AT 415+00 SIGHT ON Z 26	
			12.7	-9.6 1	21° 01'	
			12.7	-7.6 2	18 43	
			11.6	-6.5 3	16 05	
			10.2	-5.1 4	14 03	
			9.5	-4.4 5	12 22	
			7.6	-2.5 6	10 43	
			7.3	-2.2 7	8 58	
			5.7	-0.6 8	7 37	
			4.8	0.3 9	6 12	
			3.5	1.6	77 FT LEFT	
			0.5	4.6	48 FT "	M.H.W.

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of ____
X-Sec. ____ Notes Ch'd. R. MANOR Checked ____ Survey by ____ Notes ____
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Index No. ____ Date ____
G. D. BAILEY Date JAN 11 1974

F.B. 2429 PG. 227

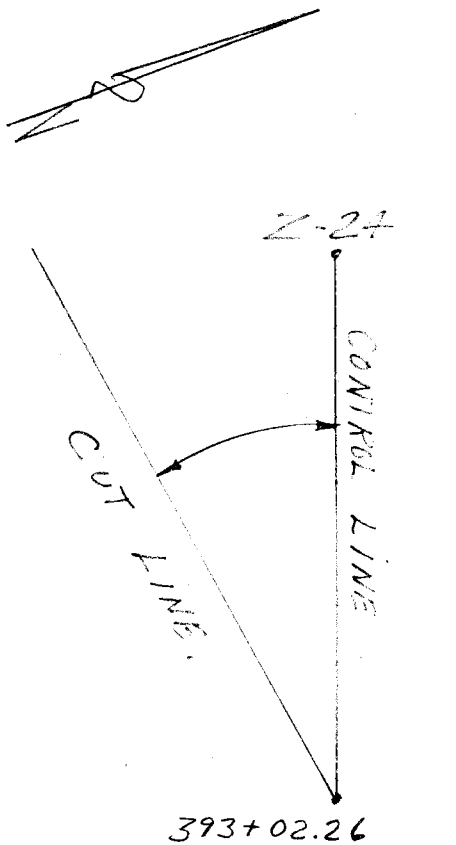
76L298 307 Cdb 12-62

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					
393+02.26	Z-24	11:58	1	289	25			
			2	290	50			
			3	292	05			
			4	293	37			
			5	295	15			
			6	296	39			
			7	298	05			
			8	299	57			
			9	301	47			
			10	303	33			
			11	305	27			
			12	307	01			
			13	308	56			
			14	310	29			
			15	312	24			
			16	314	02			
			17	316	20			
			18	318	16			
			19	319	56			
			20	321	30			



RANGE = 425+00

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 2310.02 Division No. 11 F. B. 2429 Pg. 229
X-Sec. No. ____ Date ____ Date ____ Survey of HYDRO SURVEY
Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes CITY Date 12-9-73
Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

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					
393+02.26	Z-24		21	323	06			
			22	324	46			
			23	325	54			
			24	326	58			
			25	328	07			
			26	328	50			
			27	329	45			
			28	330	33			
		12:05	29	331	12			

F. B. 2429 Pg. 230 Profile No. X-Sec. No.

Survey of HYDRO SURVEY Plotted Date

Survey by RICHARDS Notes R.T. Notes Chkd. Date Checked Date

Indexed G. D. BAILEY Date JAN 11 1974

Job No. 0100.62 Division No. 11

Notes Ck'd by R. MANOR	Survey of HYDROGRAPHIC SURVEY
Map No.	JN 0300.02 Tape: Std °F
Office Work	Surveyed by RICHARDS
Checked	Notes U HARRIET Date 12-6-73
Date	Indexed G. D. BAILEY JAN 11 1974

F. B 2429 PG. 231

TIDE GAGE READINGS
DEC. 6, 1973
TIME - P.S.T.
DATUM - M.L.L.W.

TIME	TIDE
6:00	5.5
6:30	5.2
7:00	4.9
7:30	4.5
8:00	3.9
8:30	3.3
9:00	2.7
9:30	2.0
10:00	1.5
10:30	0.9
11:00	0.4
11:30	0.0
12:00	-0.2
12:30	-0.3
1:00	-0.4
1:30	-0.2
2:00	0.1

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

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

Do not extend this side of this line.

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DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-69

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	400+00
T. P.	597	35 02		29 05	T. P. See pg. 203	(RANGE 390+00 12-6-73)
T. P.	187	32 03	486	30 16		
T. P.	104	21 08	1199	20 04		
T. P.	417	16 55	870	12 38		
400			46	12 0	110' offset line	F.B. 2316-55 Sand
			39	12 7		36.0 R. brk. "
			07	15 9		46.0 R. " "
			08	15 8		70.0 R. toe bk.
		(+)	86	25 2	(H.L.)	82.0 R. top bk.
			56	11 0	41.0 L. brk. sand	(41 FT LEFT OF 110 OFF.)
		100	72	9 4	50.0 L. "	(50 " "
	-166	9 96	493	11 62	50.0 L. top 4' 1X2	(50 " "
			54	4 6	89 FT LEFT M.H.W.	(89 " "
					⊼ AT Z-24, 110 FT OFF SLY	110 SLY SIGHT ON 400+00
			80	2 0	#1 13° 38	
			108	-0 8	2 17 09	
			120	-2 0	3 20 43	
			140	-4 0	4 23 44	
			160	-6 0	5 27 50	
			190	-9 0	6 31 44	
			204	-10 4	7 34 23	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2429 PG. 233
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Chk'd R. MANOR Checked ____ Survey by Engr. Notes Caro Date 12-7-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

76L298 307 Cdb 12-62

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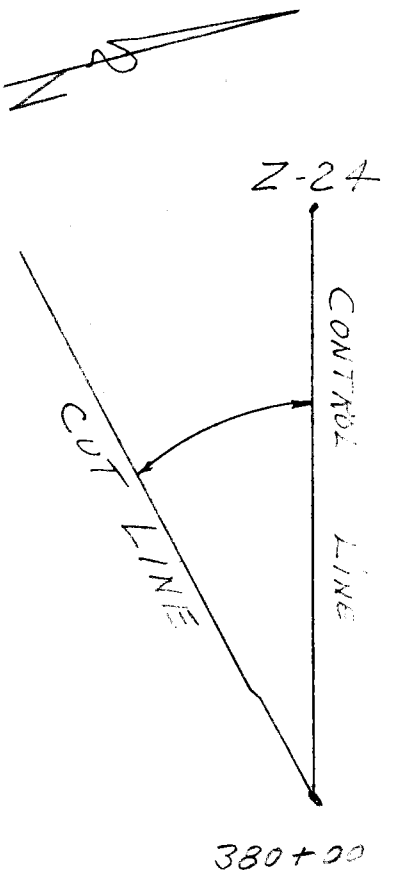
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
380+00	Z-24	8:24	1	295	58			
			2	297	23			
			3	298	29			
			4	299	57			
			5	301	22			
			6	302	38			
			7	303	46			
			8	305	01			
			9	306	10			
			10	307	26			
			11	308	35			
			12	309	55			
			13	311	19			
			14	312	45			
			15	313	34			
			16	314	44			
			17	315	44			
			18	316	36			
			19	318	10			
			20	319	48			



RANGE = 400+00

Profile No. ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 0300.02 Division No. 11 Survey of HYDRO SURVEY
X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by RICHARDS Notes ____ Date 12-7-73
Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974
F. B. 2429 Pg. 235

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					
380+00	Z-24		21	321	33			
			22	323	26			
			23	325	36			
			24	327	41			
			25	329	19			
			26	331	28			
			27	333	35			
			28	335	40			
			29	338	18			
			30	340	30			
			31	342	20			
			32	343	57			
			33	345	07			
			34	346	12			
			35	347	17			
			36	348	54			
		8:33	37	349	08			

F. B. 2429 PG. 236

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

Survey of HYDRO. SURVEY Date Date No.

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

Indexed G. D. BAILEY Date JAN 11 1974 Date Date No.

76-L-298 CE 307 8-70

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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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	405+00
		1655				
T.P.	458	1645	468	1137		
405+00			50	115	110' offset line	F.B. 2316-55
			46	119		36.0R brk. sand
			11	154		47.0R " "
			03	162		74.0R toe bk.
		(4)	44	209		85.0R top bk.
			56	109	70.0L brk. sand	(70 LEFT OF 110 FT OFF)
			70	95	79.0L. "	(79 " " ")
	-200	974	471	1174	79.0L. top 4' 1x2	(79 " " ") 110 OFF.
					↑ AT Z 24, 110 FT. OFF. SLY SIGHT ON 405+00, SLY	
			220	-123	± 1 22° 35'	
			188	-91	2 19 51	
			178	-81	3 18 03	
			163	-66	4 16 14	
			147	-50	5 14 43	
			128	-31	6 12 32	
			124	-27	7 11 18	
			111	-14	8 9 54	
			97	00	9 9° 05'	
			77	20	10 8° 06'	
			51	46	115 FT LEFT M.H.W.	(115 FT LEFT OF 110 FT OFFSET)

Profile Notes Red ____ Plotted ____ Job No. 03 0002 Division No. ____
No. ____ Date ____ Date ____ Survey of Hydrographic Survey Date 12-11-73
X-Sec. Notes Red MANOR Checked ____ Survey by Engineering Notes Carrie
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed C. D. BAILEY Date JAN 11 1974

F.B. 2429 PG. 237

F. B. 2429 Pg. 238 | Job No. | Division No. | Notes Red | Plotted | Profile

Survey of | Date | Date | No.

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

Indexed G. D. BAILEY Date JAN 11 1974 | Date | Date | No.

76-L-298 CE 307 8-70

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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.
CONT.				
T.P.	9.93	16.45		
T.P.	6.47	21.84	4.54	11.91
		28.29	0.02	21.82
RM Z-25			1.67	26.62

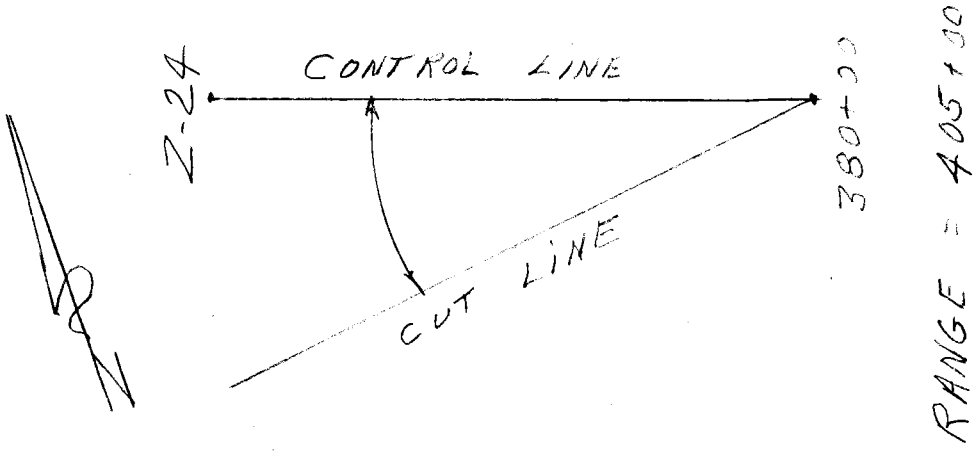
R.M. Z-25 EL. = 26.63 FB. 2100-133

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 11 F. B. 2429 Pg. 239

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

Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 12-7-73

Date ____ Date ____ Map No. ____ Index G. D. BAILEY Date JAN 11 1974



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					
380+00	Z-24	5:48	1	303	26			
			2	304	44			
			3	305	56			
			4	306	59			
			5	308	11			
			6	309	40			
			7	310	59			
			8	312	36			
			9	314	19			
			10	315	31			
			11	316	44			
			12	317	44			
			13	318	58			
			14	320	42			
			15	321	51			
			16	323	18			
			17	324	57			
			18	326	22			
			19	327	45			
			20	329	13			

76L298 307 Cdb 12-62

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. 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					
380+00	Z-24		21	330	33			
			22	331	36			
			23	332	57			
			24	334	47			
			25	336	36			
			26	338	42			
			27	340	19			
			28	341	37			
			29	342	51			
			30	344	21			
			31	345	38			
			32	346	48			
		8:57	33	347	47			

F. B. 2429 Pg. 240 Job No 0390.02 Division No. 11 Notes Red. ____ Plotted ____ No. ____ Profile

Survey of HYDRO. SURVEY Date ____ Date ____ X-Sec.

Survey by RICHARDS Notes RT Notes Chkd. ____ Checked ____

Indexed G. D. BAILEY Date JAN 11 1974 Date ____ Date ____ No. ____

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

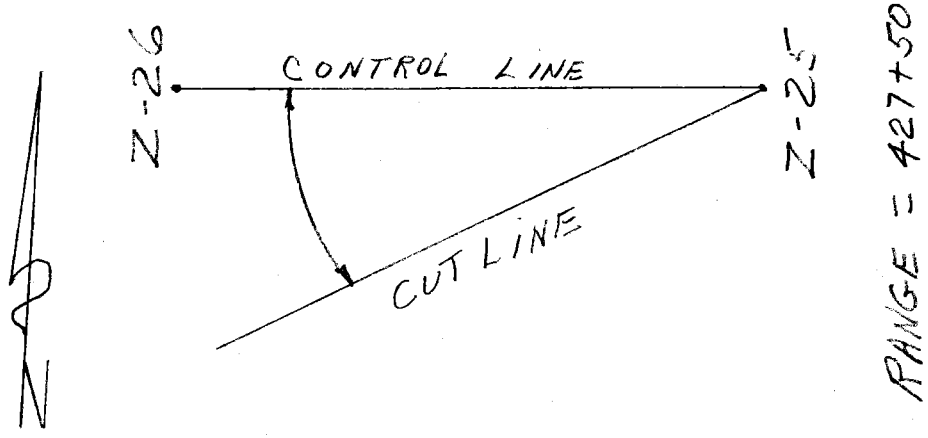
Range Line

STATION	B. S.	H. I.	F. S.	ELEV.	M. L.L.W.	427+50
		17 38	←		(FROM PG. 227)	
T. P. 427+50	403	17 14	427	13 11		
			66	10 5	Beach Con't. line	sand
			68	10 3		14.0 R. brk "
			18	15 3		26.0 R " grd
			43	12 8	39.0 L. brk. Sand	
			76	9 5	44.0 L. " "	
		4	91	8 0	50.0 L. "	
	-207	8 35	672	10 42	50.0 L. top 4'1x2	
			38	4 6	71 FT LEFT M.H.W.	
			80	0 4	94 " "	BEGIN ROCKS TO 18" DIA.
					↑ AT 422+50 SIGHT ON Z-26	"
			81	0 3	1 14° 16'	"
			90	-0 6	2 17 48	
			96	-1 2	3 20 34	
			108	-2 4	4 23 32	
			120	-3 6	5 27 10	
			135	-5 1	6 30 40	
			143	-5 9	7 35 18	
			151	-6 7	8 37 48	
			161	-7 7	9 40 45	
			167	-8 3	10 43° 00'	

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____ F. B. 2429 PG. 241
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chkd. R. MANOR Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

Profile No.	Notes Red.	Plotted	Job No. 0300.02	Division No. 11
	Date	Date	Survey of HYDRO. SURVEY	
X-Sec. No.	Notes Chkd.	Checked	Survey by RICHARDS	Notes R.T. Date 12-7-73
	Date	Date	Map No.	Indexed B. D. BAILEY Date JAN 11 1974

F. B. 2429 Pg. 243



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

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726 Los Angeles County Engineering Bldg.

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Inst. At Don't Punch	Sight On Don't Punch	Time Don't Punch	Angle No. Don't Punch	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Deg.	Line Min.	Card No.
Z-25	Z-26	9:28	1	306	48			
			2	307	45			
			3	309	10			
			4	310	25			
			5	311	53			
			6	314	15			
			7	315	53			
			8	318	05			
			9	319	42			
			10	321	29			
			11	323	10			
			12	324	55			
			13	327	04			
			14	329	25			
			15	331	08			
			16	333	27			
			17	335	18			
			18	337	25			
			19	339	23			
			20	341	15			

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 IN, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
Z-25	Z-26		21	342	54			
			22	344	30			
			23	346	06			
			24	347	50			
			25	349	08			
			26	351	03			
			27	352	10			
			28	353	37			
			29	354	31			
		9:35	30	355	18			

F. B. 2429 PG. 244

Survey of HYDRO. SURVEY

Survey by RICHARDS Notes RT

Indexed D. D. BAILEY Date JAN 11 1974

Job No. 2300.02 Division No. 11

Notes Red. Date Notes Chkd. Date

Plotted Date Checked Date

Profile No. X-Sec. No.

76-L-298 CE 307 5-66

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Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV.	M. L. L. W.	430+00
		17 14				
T.P.	529	16 85	558	11 56		
430+00			17	152	Beach Cont. line	
			11	158		28.0 R. toe bk. grd.
			21	148	14.0 L. top bk. grd	
			58	111	18.0 L. toe bk. sand	
			48	121	74.0 L. brk. "	
			61	108	76.0 L. " "	
			92	77	91.0 L. " "	
	-280	730	675	1010	91.0 L. top 4' 1X2	
					AT 422+50 SIGHT ON 430+00 (OR Z-26)	
			154	-81	#1 33° 54'	
			147	-74	2 31 48	
			117	-44	3 28 53	
			125	-52	4 26 32	
			110	-37	5 24 13	
			98	-25	6 21 18	
			81	-08	7 18 13	BEGIN VISIBLE ROCKS 18" DIA
			78	-05	8 15 51	
			67	06	9 12° 32'	
			53	20	129 FT LEFT	END ROCKS 18" DIA
			37	46	110 " " M.H.W.	SAND

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2429 Pg. 245
No. ____ Date ____ Date ____ Survey of Hydro survey
X-Sec. Notes Chk'd. R. MANOR Checked ____ Survey by English Notes Caro Date 12-7-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

76L298 307 Cdb 12-62

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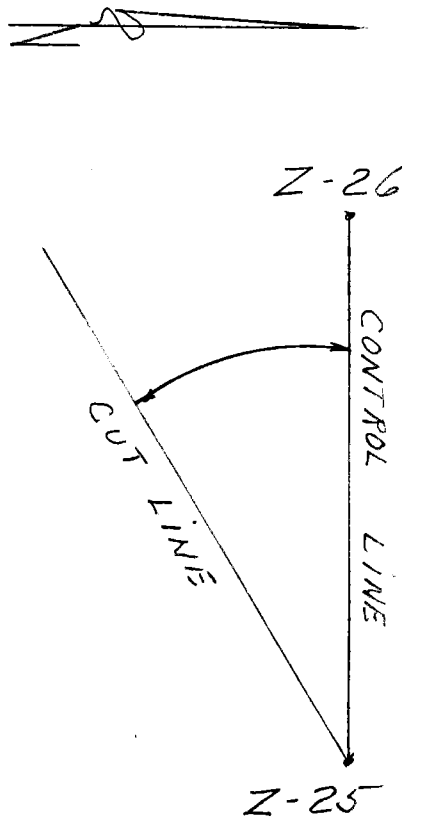
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
Z-25	Z-26	9:48	1	310	04			
			2	311	36			
			3	313	01			
			4	314	31			
			5	316	17			
			6	318	01			
			7	319	42			
			8	321	11			
			9	323	20			
			10	324	54			
			11	326	44			
			12	328	19			
			13	329	12			
			14	330	14			
			15	331	20			
			16	333	04			
			17	333	45			
			18	335	02			
			19	336	28			
			20	337	49			



RANGE = 430+00

Profile Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 11 F.B. 2429 Pg. 247
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes RIT Date 12-7-73
No. ____ Date ____ Date ____ Map No. ____ Indexed D. BAILEY Date JAN 11 1974

F. B. 2429 PG. 248 | Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

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

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

Indexed G. D. BAILEY Date JAN 11 1974 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.	Range Line Min.	Card No.
Z-25	Z-26		21	339	25			
			22	340	54			
			23	342	46			
			24	343	54			
			25	345	35			
			26	346	45			
			27	348	05			
			28	349	14			
			29	350	30			
		9:55	30	351	01			

76-L-298 CE 307 5-66

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

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	432+50
		1685				
Z-26			210	1475	Z-26 El. = 14.73	F.B. 2316-63
T.P.	214	1687		1473		
432+50			81	88	Beach Con't. line sand	
			65	104		6.0 R. brk "
			48	121		9.0 R. " "
			67	102		50.0 R. " "
			39	130		62.0 R. " "
			14	155		129.0 R. toe bk
			109	60	15.0 L. sand	
	-113	730	844	843	15.0 L. top 4'1x2	
					⊼ AT Z 26 SIGHT ON Z-27	
			27	46	25 FT LEFT m.H.W	
			49	24	40 " "	
			62	11	85 " "	
			67	06	100 " "	
			77	-04	#1 32° 24'	
			90	-17	2 39 38	
			105	-32	3 45 46	
			117	-44	4 51 30	
			124	-51	5 55 50	

CONT ON NEXT PAGE

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2429 PG. 249
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chkd. R. MANOR Checked ____ Survey by Engineer Notes Cons Date 13-1-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F. B. 2429 PG. 250 Job No. 030002 Division No. 11 Notes Red ____ Plotted ____ Profile

Survey of HYDRO Date 12-7-73 Date ____ No. ____

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

Indexed G. D. BAILEY Date JAN 11 1974 Date ____ Date ____ No. ____

76-L-298 CE 307 5-66

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
		7 30			CONT.	
			142	-69 ✓6	59° 45'	
			148	-75 ✓7	62 43	
			161	-88 ✓8	66° 08'	
						432+50

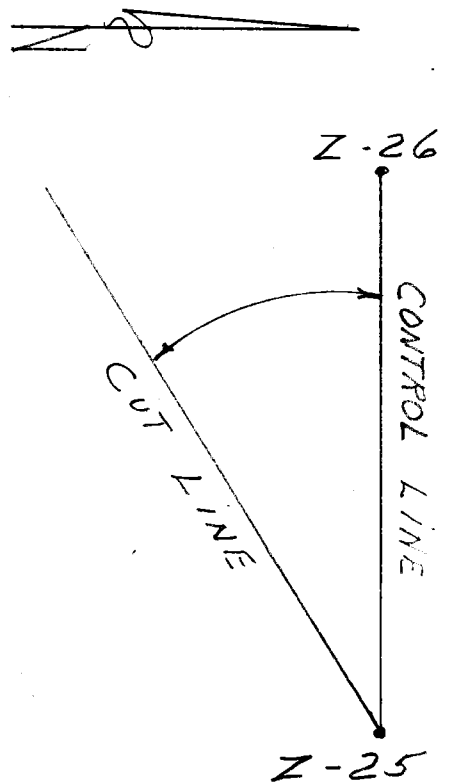
76L298 307 Cdb 12-62

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					
Z-25	Z-26	10:07	1	299	11			
			2	301	49			
			3	304	09			
			4	306	37			
			5	309	34			
			6	312	23			
			7	315	19			
			8	317	53			
			9	320	25			
			10	322	43			
			11	325	57			
			12	328	29			
			13	331	38			
			14	334	15			
			15	337	40			
			16	340	05			
			17	341	43			
			18	343	18			
			19	344	44			
			20	346	01			



RANGE = 432+50

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2429 Pg. 251
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T.F. Date 12-7-73
No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F. B. 2429 PG. 252 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

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

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

Indexed G. D. BAILEY Date: JAN 11 1974 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.
Z-25	Z-26		21	347	19			
			22	348	35			
			23	349	28			
			24	350	30			
		10:18	25	351	07			

76-L-298 CE 307 8-70

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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W	435+00
		1687				
T.P.	502	1618	571	1116		
435+00			104	58	Beach Cont. line	sand
			860	758	top 4'	1x2
			64	98		28.0R. brk sand
			53	109		32.0R. " "
			56	106		63.0R " "
			46	116		71.0R. " "
			39	123		108.0R. grd
			25	137		
		6			⊼ AT Z 26 SIGHT ON Z 27	
	-003	755		758		
			183	-107 1	46° 33'	
			190	-114 2	44 06	
			171	-95 3	41 21	
			157	-81 4	37 38	
			144	-68 5	34 05	
			125	-49 6	29 33	
			119	-43 7	27 15	
			107	-31 8	22 43	
			91	-15 9	19° 03'	

CONT NEXT PAGE

Profile No. ____ Notes Red ____ Plotted ____ Job No. ____ Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of Hydrosurvey
Notes Cont'd R. MANOR Checked ____ Survey by English Notes Cara Date 12-7-73
Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F.B. 2429 PG. 253

76-L-298 CE 307 8-70

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.		435+00
		6				
		755			CONT.	
			74	01	✓110 FT LEFT BEGIN	VISIBLE ROCKS
			68	08	✓100 " "	"
			53	23	✓50 " "	"
			40	36	✓13 FT LEFT END	ROCKS SAND
			30	46	✓8 " " M.H.W.	

F. B. 2429 PG. 254 | Job No. 0300.02 | Division No. 11 | Notes Red Date 12-7-73 | Plotted Date | Profile No. | X-Sec. No.

Survey of HYDRO. | Notes DREIER | Notes Chk'd. | Checked | Date

Survey by RICHARDS | Date JAN 11 1974 | Date

Indexed G. D. BAILEY

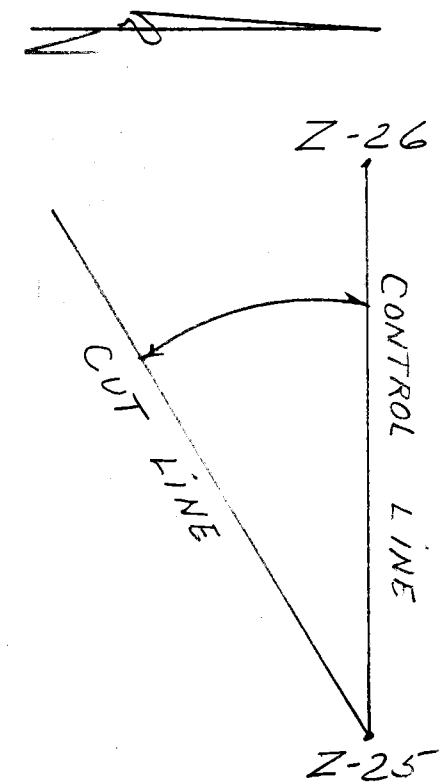
76L298 307 Cdb 12-62

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					
Z-25	Z-26	10:27	1	309	26			
			2	311	54			
			3	314	24			
			4	316	46			
			5	318	51			
			6	321	24			
			7	323	56			
			8	326	18			
			9	328	51			
			10	331	10			
			11	333	44			
			12	335	51			
			13	337	02			
			14	338	38			
			15	339	45			
			16	340	50			
			17	342	52			
			18	344	05			
			19	345	39			
			20	347	01			



RANGE = 435+00

Profile Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 11 F.B. 2429 Pg. 255
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 12-7-73
No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F. B. 2429 PG. 256 | Job No. 2300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

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

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

Indexed G. D. BAILEY Date JAN 11 1974 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.
Z-25	Z-26	10:31	[illegible]	347	49			

761.298 307 Gdb 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.

76-L-298 CE 307 8-70

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.

Range Line 437+12

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	
		1618				
T.P.	445	1499	564	1054		
437+12			52	98	Beach Con't. line	Sand
			32	118		100.0 R. brk
			10	140		152.0 R. " "
			103	1396		171.0 R. edge Con.
			52	98	24.0 L. brk sand	
			67	83	26.0 L. " "	
			102	48	63.0 L. "	
	010	743	766	733	63.0 L. top 4'1X2	
			28	46	64 FT. LEFT m.H.W	
			36	38	69 " "	BEGIN ROCKS
			46	28	113 " "	
			59	15	163 " "	
			73	01	213 " "	
			82	-08	#1 19° 39'	⊼ AT Z-26 SIGHT Z-27 TO 18" DIA. END OF VISIBLE ROCKS
			89	-15	2 22 12	
			117	-33	3 25 08	
			131	-54	4 29 17	
			140	-66	5 31 01	
			178	-104	6 35 27	

CONT.

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of Hydro Survey
Notes Chk'd. R. MANOR Checked ____ Survey by English Notes Carp Date [illegible]
Date JAN 21 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F. B. 2429 PG. 257

F. B. 2429 Pg. 258 Job No. 0300.02 Division No. 11 Notes Red ____ Plotted ____ Profile

Survey of HYDRO- Date 12-7-73 Date ____ No. ____

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

Indexed G. D. BAILEY Date JAN 11 1974 Date ____ Date ____ No. ____

76-L-298 CE 307 8-70

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.	
		743			
			183	-109	CONT #7 37° 32'
			188	-114	8 39° 28'

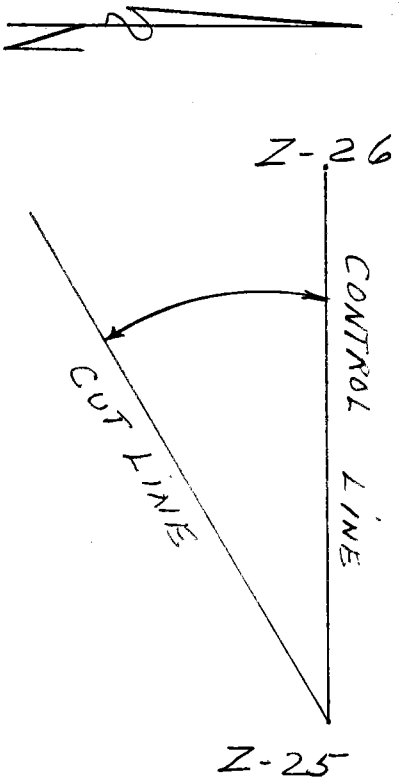
76L298 307 Cdb 12-62

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					
Z-25	Z-26	10:37	1	304	13			
			2	306	37			
			3	309	00			
			4	313	07			
			5	315	53			
			6	318	43			
			7	321	36			
			8	323	58			
			9	326	53			
			10	328	56			
			11	330	17			
			12	332	34			
			13	333	55			
			14	335	12			
			15	336	24			
			16	337	14			
			17	338	28			
			18	339	17			
			19	340	16			
			20	341	10			



RANGE = 437+12

Profile Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 11 F. B. 2429 Pg. 259
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 2-7-73
No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F. B. 2429 PG. 260 | Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

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

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

Indexed G. D. BAILEY Date JAN 11 1974 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.
Z-25	Z-26	10:42	21	341	57			

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 Gdb 12-62

76-L-298 CE 307 8-70

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.

Range Line 439+25

STATION	B. S.	H. I.	F. S.	ELEV. =	M.L.L.W.	
		1499				
T.P.	373	1422	450	1049		
			45	97	Beach Con't. line sand	
			61	81		100.0R. brk. "
			32	110		133.0R.
			430	992		162.0R. edge Conc.
			57	85	31.0L. brk. sand	
			97	45	63.0L. "	
	-105	651	666	756	63.0L. top 4'x2	
					π Z 26 SIGHT ON Z 27	
			154	-99	#1 30° 07'	
			167	-102	2 33 09	OUT
			211	-146	3 35 21	OUT
			143	-78	4 27 22	IN
			133	-68	5 24 52	IN
			114	-49	6 22 38	
			107	-42	7 20 47	
			91	-26	8 17 34	
			78	13	9 14° 50'	BEGIN VISIBLE ROCKS
			65	00	200 FT LEFT	
			50	15	150 " "	

CONT.

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2429 Pg. 261
X-Sec. No. ____ Date ____ Date ____ Survey of Hydrosurvey
Notes Chk'd. R. MANOR Checked ____ Survey by English Notes Carr Date 12-1-73
Date JAN 21 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F. B. 2429 PG. 262 | Job No. 0300.02 | Division No. 11 | Notes Red | Plotted | Profile

Survey of HYDRO | Date 12-7-73 | Date | No.

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

Indexed G. D. BAILEY | Date JAN 11 1974 | Date | Date | No.

76-L-298 CE 307 8-70

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

Do not extend notes this side of this line.

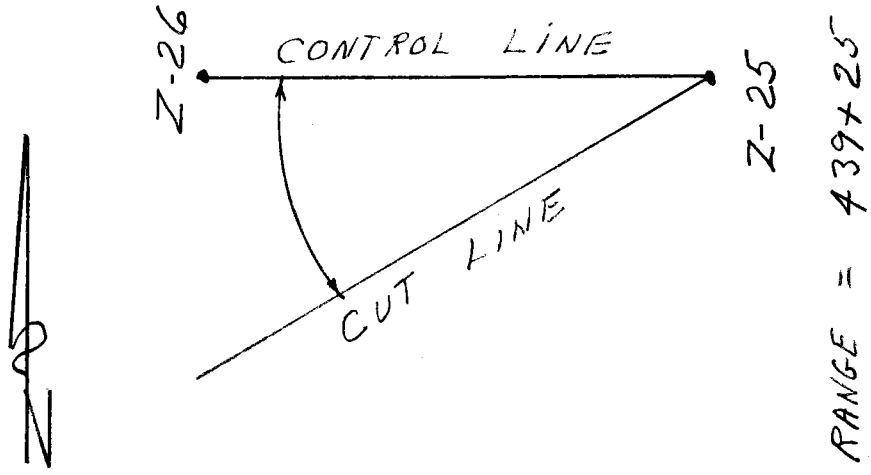
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

STATION	B. S.	H. I.	F. S.	ELEV.	
		651			
			38		
			31		
			19		
				100 FT LEFT	
				34	
				75 " "	
				46	
				74 " "	
					M. H. W.
					END OF ROCKS TO 36" DIA
					439+25

Profile No. ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 1300.02 Division No. 11 Survey of HYDRO. SURVEY Survey by RICHARDS Notes R.T. Date 12-7-73

X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F. B. 2429 Pg. 263



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					
Z-25	Z-26	10:50	1	313	47			
			2	316	14			
			3	318	23			
			4	320	59			
			5	322	45			
			6	324	43			
			7	326	42			
			8	328	34			
			9	329	57			
			10	331	30			
			11	332	40			
			12	334	05			
			13	335	12			
			14	336	20			
			15	337	31			
			16	338	51			
			17	340	23			
		10:54	18	341	16			

76L298 307 Cdb 12-62

F. B. 2429 PG. 264 | Job No. 2300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDRO. SURVEY 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.
Z-25	Z-26							

761298 307 Gdb 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.

76-L-298 CE 307 8-70

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. =	M.L.L.W.	440+71
		14 22				
			35	107	Beach Cont line	
			16	126		127.0R. toe bk, grnd.
		(+)	44	186	(H.L.)	132.0R. top bk
			42	103	21.0L. toe rock	Sand
T. P.	314	13 56	380	10 42		
		(+)	38	175	35.0L. top rock	
			13	123	39.0L. toe rock	Sand
			54	82	65.0L. Sand	
	-210	8 24	322	1034	165.0L. top 4'1x2	15' HIGH ROCK
		46 6	36	46	88 FT LEFT M.H.W. ON SAND AT BASE OF	
	274	5 00	598	226	T.P.	
			19	31	100 FT LEFT	
			53	-03	145 " "	
					AT Z-26 SIGHT ON Z 27	
			64	-14	1 9° 43'	
			85	-35	2 11 53	
			101	-51	3 14 10	
			118	-68	4 16 09	
			121	-71	5 18 42	
			111	-61	6 20 25	

CONT.

Profile Notes Red ____ Plotted ____ Job No. 030064 Division No. ____
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Ch'd R. MANOR Checked ____ Survey by English Notes Carp Date 12-7-73
No. ____ Date JAN 21 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F.B. 2429 PG. 265

F. B. 2429 PG. 266 | Job No. 0300.02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of HYDRO Date 12-7-73 Date _____ No. _____

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

Indexed G. D. BAILEY Date JAN 11 1974 Date _____ Date _____ No. _____

76-L-298 CE 307 8-70

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.	
		500			
			155-105		
			178-128		
			205-155		
					#7 CONT
					23° 07'
					24 55
					26 40
					440+71

76L298 307 Cdb 12-62

PLEASE RETURN TO
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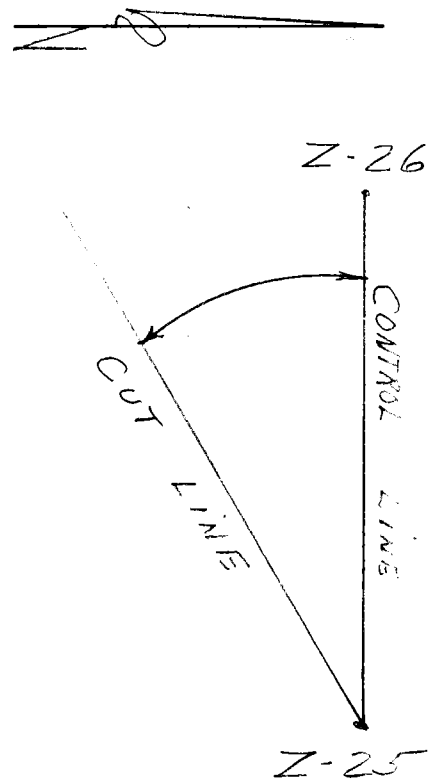
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
Z-25	Z-26	11:06	1	310	21			
			2	312	40			
			3	315	20			
			4	317	33			
			5	320	11			
			6	322	03			
			7	324	04			
			8	326	40			
			9	328	50			
			10	330	55			
			11	332	10			
			12	333	32			
			13	334	45			
			14	336	01			
			15	337	05			
			16	338	12			
			17	339	12			
			18	340	52			
			19	341	25			
		11:11	20	342	30			



RANGE = 440+71

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2429 Pg. 267
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 12-7-73
No. ____ Date ____ Date ____ Map No. ____ Indexed G.D. BAILEY Date JAN 11 1974

F. B. 2429 PG. 268 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDRO SURVEY 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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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.	For Office Use Only Range Line Min.	For Office Use Only Card No.
Z-25	Z-26							

76-L-298 CE 307 8-70

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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	443+00
		1356				
T.P.	560	1583	333	1023		
T.P.	1115	2603	095	1488		
T.P.	1060	3656	007	2596		
T.P.	012	2463	1205	2451		
TP	110	1461	1112	1351		
443+00			73	73	Beach Con't. line	Sand
			62	84		19.0 R. brk. "
			51	95		20.0 R. " "
			37	109		33.0 R. " "
			20	126		39.0 R. " "
			11	135		62.0 R. toe bk "
			39	185		74.0 R. slope grd
			106	40	55.0 L. Sand	
	-105	531	825	636	55.0 L. top 4' 1x2	
					↑ AT 447+00 SIGHT ON Z 27	
			213	-160	1 50° 26'	
			198	-145	2 47 31	
			179	-126	3 44 32	
			155	-102	4 40 06	
			131	-78	5 35 09	- OUT SIDE OF ROCK

CONT. ON NEXT PAGE

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of Hydrosurvey
Notes Chkd. R. MANOR Checked ____ Survey by Engineer Notes Carp Date 12-7-73
Date JAN 21 1974 Date ____ Map No. ____ Indexed S. D. BAILEY Date JAN 11 1974

F. B. ____ Pg. 269

F. B. 2429 Pg. 270 | Job No. C 300.02 | Division No. 11 | Notes Red | Plotted | Profile

Survey of HYDRO - | Date 12-7-73 | Date | No.

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

Indexed G. D. BAILEY | Date JAN 11 1974 | Date | Date | No.

76-L-298 CE 307 8-70

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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.		
		531				
			136	-83	✓ CONT	
			85	-32	6 29° 27'	
			60	-07	7 22 00	
			38	15	8 16° 28'	
			07	46	81 FT LEFT	
					48 " "	M.H.W.
						5' ABOVE WATER BETWEEN ROCKS INSIDE "
						55-26

76L298 307 Cdb 12-62

PLEASE RETURN TO

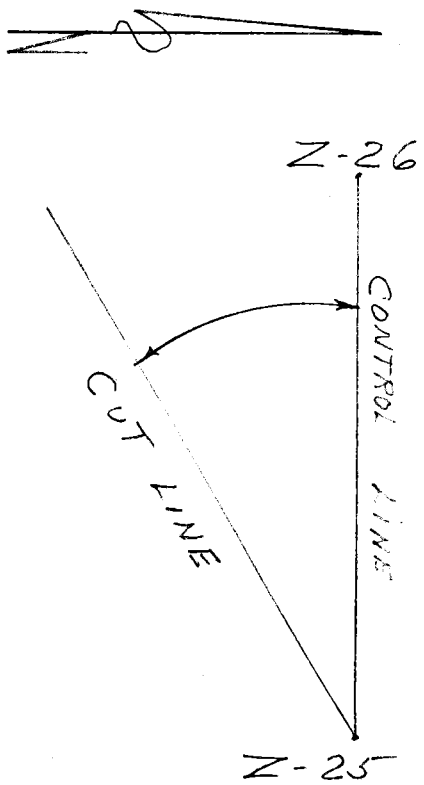
LOS ANGELES COUNTY SURVEYOR

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					
Z-25	Z-26	11:25	1	318	31			
			2	320	12			
			3	321	44			
			4	323	21			
			5	325	01			
			6	326	35			
			7	328	25			
			8	330	04			
			9	331	40			
			10	332	52			
			11	334	02			
			12	335	28			
			13	336	46			
			14	338	08			
			15	339	29			
			16	340	28			
			17	341	24			
			18	342	10			
		11:30	19	342	51			



RANGE = 443+00

Profile Notes Red ____ Plotted ____ Job No 0300.02 Division No. 11 F. B. 2429 Pg. 271

No. ____ Date ____ Date ____ Survey of HYDRO SURVEY

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARS Notes RTY Date 12-7-73

No. ____ Date ____ Date ____ Map No. ____ Indexed C. D. BAILEY Date JAN 11 1974

F. B. 2429 PG. 272 | Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDRO. SURVEY 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

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

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.
Z-25	Z-26							

76-L-298 CE 307 8-70

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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M.L.L.W.	447+00
		1461				
T.P.	1115	1619	957	504		
T.P.	604	1363	860	759		
			99	37	Beach Cont. line	sand
			724	639	top 4' 1x2	
			52	84		63.0R. brk. sand
			06	130		70.0R. " "
			05	131		86.0R. toe bk. "
	-160	8			⊼ AT 443+00 SIGHT ON 447+00	
	-160	479		639		
			02	46	10 FT. RIGHT M.H.W.	
			38	10	40 " "	
			49	-01	#1 9° 02'	
			60	-12	2 12 17	
			69	-21	3 16 05	
			86	-38	4 20 54	
			123	-75	5 23 34	
			120	-72	6 26 58	
			131	-83	7 30 02	
			146	-98	8 33 36	
			160	-112	9 36 52	

CONT NEXT PAGE

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. ____ Pg. 273
X-Sec. No. ____ Date ____ Date ____ Survey of Hydro Survey
Notes Chkd. R. MANOR Checked ____ Survey by English Notes Carey Date ____
Date JAN 21 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F.B. 2429 PG. 274 Job No. 0300.02 Division No. 11 Notes Red ____ Plotted ____ Profile

Survey of HYDRO - ARROYO SEQUIT Date 12-7-73 Date ____ No. ____

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

Indexed G. D. BAILEY Date JAN 11 1974 Date ____ Date ____ No. ____

76-L-298 CE 307 8-70

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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.

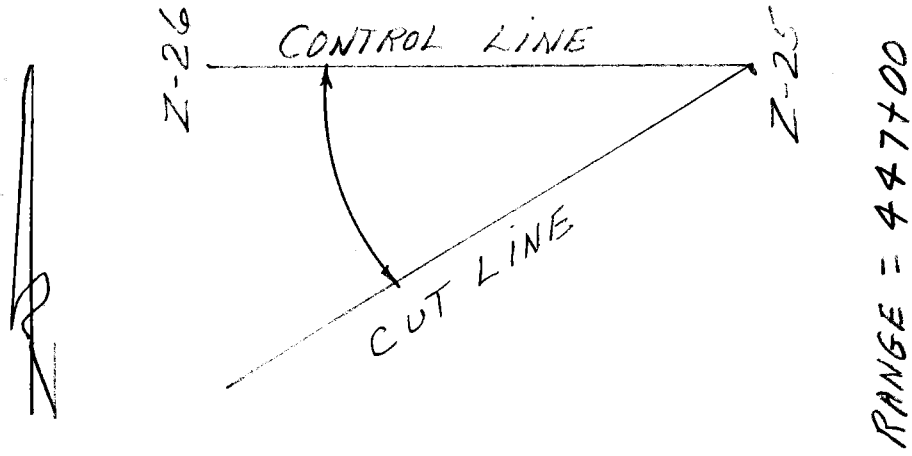
STATION	B.S.	H.I.	F.S.	ELEV.		
		479				447+00
			172	-124	CONT	
			181	-133	10	39° 40'
			195	-147	11	42 04
					12	45° 12'

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 0300.02 Division No. 11 F. B. 2429 Pg. 275

Date _____ Date _____ Survey of HYDRO. SURVEY

X-Sec. No. _____ Notes Chkd. _____ Checked _____ Survey by RICHARDS Notes R.T. Date 12-7-73

Date _____ Date _____ Map No. _____ Indexed G. D. BAILEY Date JAN 11 1974



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					
Z-25	Z-26	11:39	1	324	50			
			2	326	25			
			3	327	52			
			4	329	20			
			5	330	51			
			6	332	25			
			7	333	29			
			8	334	22			
			9	335	45			
			10	336	43			
			11	337	25			
			12	338	27			
			13	339	38			
			14	340	33			
			15	341	30			
			16	342	33			
			17	343	30			
		11:43	18	344	18			

76L298 307 Cdb 12-62

F. B. 2429 PG. 276 | Job No 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDRO. SURVEY 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.
Z-25	Z-26							

Do not extend notes this side of this line.

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.

76-L-298 CE 307 8-70

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. =	M.L.L.W.
		13 63			(RETURN FOR CHECK-IN)
T.P.	11 23	21 46	3 40	10 23	
T.P.	12 16	32 53	1 09	20 37	
T.P.	6 18	38 69	0 02	32 51	
T.P.	3 68	32 37	10 00	28 69	
Sequit H-7			6 82	25 55	Sequit H-7 El = 25.57 F.B. 2100-136

Profile No. ____ Notes Red ____ Plotted ____ Date ____ Job No. 0300.02 Division No. ____ F. B. ____ PG. 277

X-Sec. No. ____ Date ____ Notes Chk'd MANOR Checked ____ Date ____ Survey of Hydro Survey Survey by English Notes Caro Date 12-7-73

Date JAN 21 1974 Date ____ Map No. ____ Index G. D. BAILEY Date JAN 11 1974

Notes Ck'd by	Survey of HYDROGRAPHIC SURVEY
Map No.	JN 03000 Tape Std °F
Office Work	Surveyed by RICHARDS
Checked	Notes HARRIET Date 12-7-73
Date	Indexed C. D. BAILEY JAN 11 1974

F. B. 2429 PG. 279

TIDE GAGE READINGS
DEC. 7, 1973
TIME - P.S.T.
DATUM - M.L.L.W.

TIME	TIDE
6:00	5.9
6:30	6.1
7:00	5.7
7:30	5.5
8:00	4.9
8:30	4.4
9:00	3.7
9:30	3.0
10:00	2.2
10:30	1.4
11:00	0.8
11:30	0.1
12:00	-0.3
12:30	-0.7
1:00	-1.0
1:30	-1.1
2:00	-1.1

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

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.
Do not extend this side of this line.
PLEASE RETURN TO
COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.
76F309S CE#310 3-69