Data Ck'd by R. MANOR
Final Work
JAN 17 1974

HYDROGRAPHIC SURVEY #1
Survey of
JN 030002 Tape Std °F
Surveyed by W. A. RICHARDS
Notes W. A. R. Date 11-73
Indexed G. D. BAILEY JAN 11 1974

F. B 2428 PG. 5

J.N. 0300.02

HYDROGRAPHIC SURVEY

NO. 1

ESCONDIDO CREEK TO POINT DUME'
HORIZONTAL CONTROL - SUR. DIV. FILE MAP # 85-62
VERTICAL DATUM REF. = M.L.L.W.
TIME REF. = PACIFIC STANDARD TIME

SURVEY FILE NO. 6162

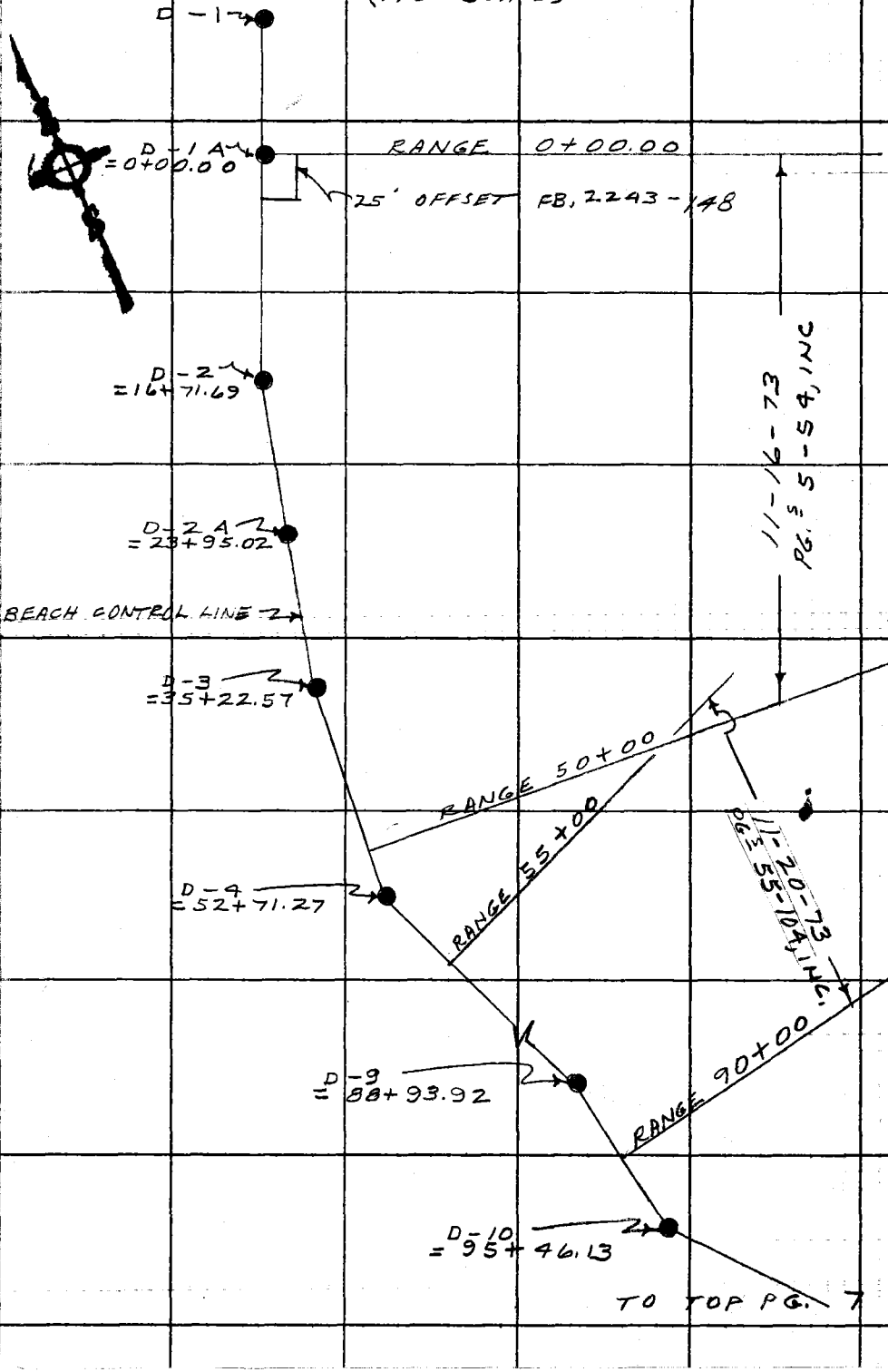
				(LIFEGUARDS)
RICHARDS	BAZEN	ENGLISH	DREIER	PAYNE
DEGAULT	SHOEMAKER	CARO	PETERSON	WESTERMAN
BOLSTRUM	STROUD	TULLIER	GOBEL	
TURRILL	CLIFFORD	JOHNSON	MOORE	
			McKNIGHT	

Microfilmed Nov. '85

COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
403

F. B. 2428 PG. 6

INDEX MAP
(NO SCALE)



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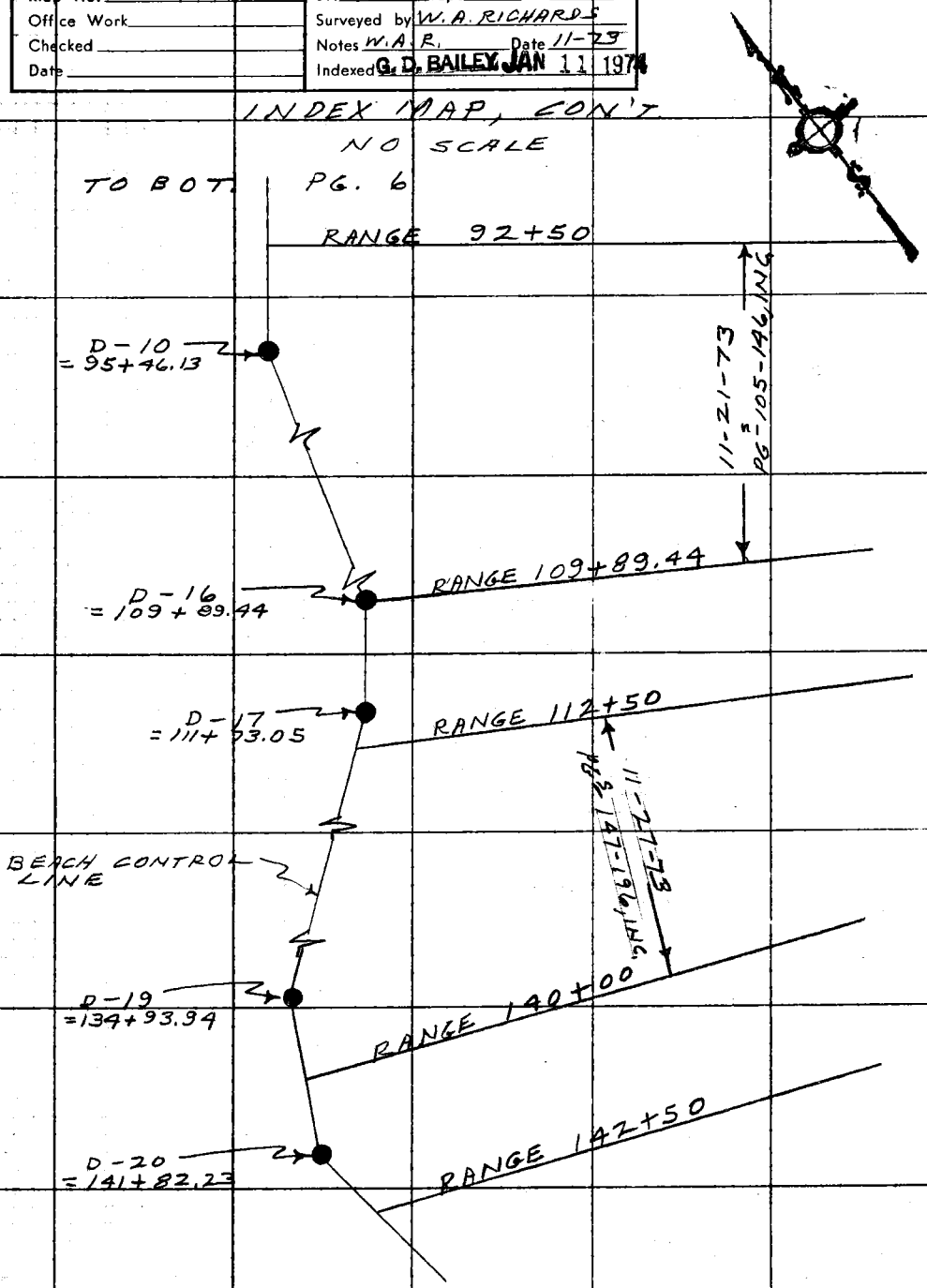
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by R. MANOR	HYDROGRAPHIC SURVEYS #1
Map No.	Survey of
Office Work	JN 0300.07 Tape — Std — °F
Checked	Surveyed by W.A. RICHARDS
Date	Notes W.A.R. Date 11-73
	Indexed G. D. BAILEY JAN 11 1974

F. B. 2428 PG. 7

INDEX MAP, CON'T

NO SCALE



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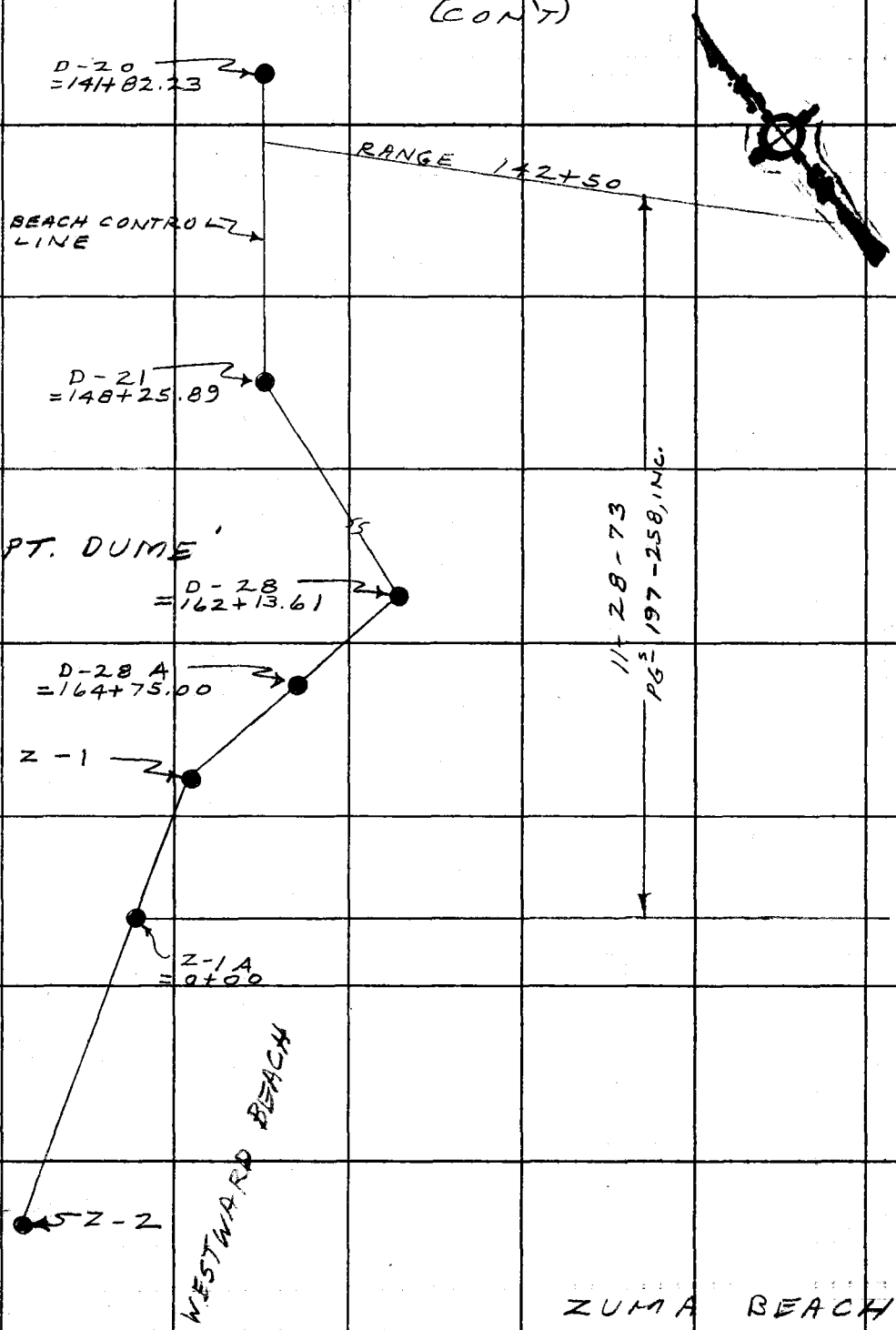
76F309S CEX310 3-69

F. B. 2428 PG. 8

INDEX MAP (CON'T)



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76-L-298 CE 307 8-70

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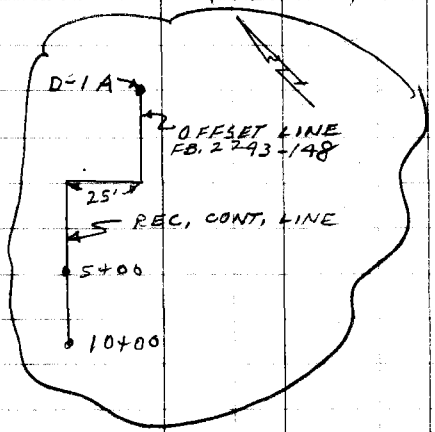
Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	0+00 (D-1A)
T.B.M. #1	129	1398		1269	T.B.M. #1 El. = 12.69 F.B. 2243-183	
0+00 (D-1A)		?	46	84	Beach Con't line 25'	
					offset line FB 2243-148	
			93	47	37.0 L Sand (FROM OFFSET LINE)	(37+25=62)
			670	728	37.0 L top 4' 1x2	" "
			33	107	"	7.0 R. brk Sand
		(+)	06	146	"	7.5 R. top Wd. retain
					Wall. (hand level)	
	+ 116	944		728	37 FT LEFT (+25 = 62 ~~+50 = 87~~)	?
			48	46	45 FT " M.H.W.	(+25 = 70 ~~+50 = 95~~)
					↑ AT 10+00 SIGHT ON 5+00	No OFFSET (REC. CONT. LINE)
			69	25	#1 5° 21'	
			82	12	2 7 03'	
			98	-04	3 8 37	
			113	-19	4 10 08	
			125	-31	5 12 18	
			141	-47	6 14 14	
			160	-66	7 16 26	
			165	-71	8 18 33	



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

X-Sec. No. ____ Notes Chk. R. MANOR Date JAN 17 1974 Checked ____ Survey of [illegible] Notes Carp Date 11-16-73

Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974 Date ____ Survey by [illegible] Date ____

F.B. 2428 Pg. 9

76L298 307 Cdb 12-62

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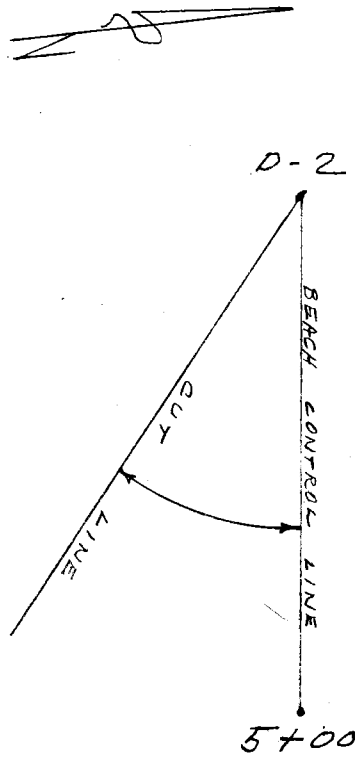
INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
D-2	5+00	8:02	1	52	29 ✓			
			2	51	40 ✓			
			3	50	13 ✓			
			4	48	36 ✓			
			5	47	17 ✓			
			6	45	49 ✓			
			7	44	22 ✓			
			8	42	18 ✓			
			9	40	49 ✓			
			10	40	08 ✓			
			11	39	20 ✓			
			12	38	23 ✓			
			13	36	53 ✓			
			14	35	59 ✓			
			15	34	32 ✓			
			16	33	59 ✓			
			17	33	02 ✓			
			18	31	48 ✓			
			19	30	18 ✓			
			20	29	10 ✓			



RANGE = 0+00

Profile Notes Red.____ Plotted____ Job No. 2300.02 Division No. 11 F. B. 2428 Pg. 11
No.____ Date____ Date____ Survey of HYDRO SURVEY
X-Sec. Notes Chkd.____ Checked____ Survey by RICHARDS Notes CTY Date 11-16-73
No.____ Date____ Date____ 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. 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					
D-2	5400		21	27	36 ✓			
			22	26	03 ✓			
			23	24	32 ✓			
			24	22	57 ✓			
			25	21	39 ✓			
			26	20	09 ✓			
			27	18	55 ✓			
			28	17	47 ✓			
			29	16	41 ✓			
			30	15	28 ✓			
			31	14	22			
			32	13	18			
			33	12	12			
			34	11	10			
			35	10	23			
			36	09	07			
			37	08	12			
		8:09	38	06	36			

F. B. 2428 Pg. 12

Job No. 2200.02 Division No. 11

Survey of HYDRO SURVEY

Survey by RICHARDS Notes R.T.

Indexed W. D. BAILEY Date JAN 11 1974

Profile No. X-Sec. No.

Plotted Date Notes Red. Date

Checked Date Notes Chkd. Date

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.	5+00
		13 98				
T. P.	458	15 41	315	1083		
5+00			34	~~110~~ 120		Beach Con't. Line
			98	56	39.0 L. Sand	
			691	850	39.0 L. top 4'1x2	
			21	133		12.0 R. toe slope
		(+)	29	183		28.0 R. " (H.L.)
					⊼ AT 10+00 SIGHT ON 5+00	
	084	9 34		850		
			169	-76	1 34° 58'	
			169	-76	2 30 57'	
			163	-70	3 27 01	
			134	-41	4 21 42	
			120	-27	5 16 54	
			105	-12	6 14 12	
			89	04	7 11 04	
			76	17	8 8° 33'	
			47	46	47 FT. LEFT M.H.W.	

Profile Notes Red ____ Plotted ____ Job No. 030002 Division No. ____ F. B. 2428 Pg. 13
No. ____ Date ____ Date ____ Survey of hydrosurvey
X-Sec. Notes Checked R. MANOR Checked ____ Survey by Engineer Notes Care Date [illegible]
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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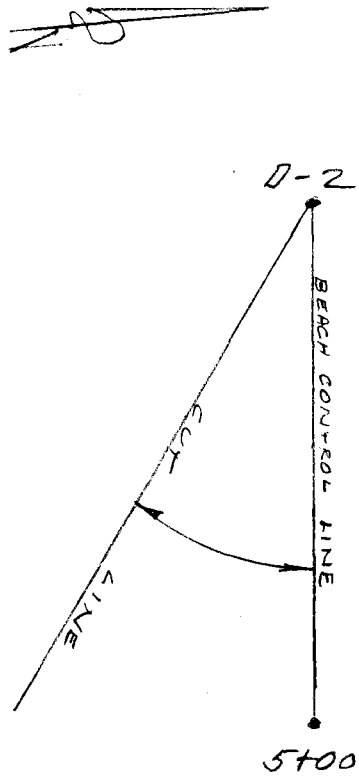
Do not extend notes this side of this line.

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					
D-2	5+00	8:21	1	64	09			
			2	63	39			
			3	62	41			
			4	61	42			
			5	60	47			
			6	59	41			
			7	58	23			
			8	56	48			
			9	55	40			
			10	54	03			
			11	52	22			
			12	51	03			
			13	49	35			
			14	48	30			
			15	46	50			
			16	45	22			
			17	43	13			
			18	41	35			
			19	39	27			
			20	38	22			



RANGE = 5+00

Profile Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 11 F. B. 2428 PG. 15

No. ____ Date ____ Date ____ Survey of HYDRO SURVEY

X-Sec. Notes Chkd. ____ Checked ____ Survey by FISHERS Notes ____ Date 16-73

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					
D-2	5+00		21	37	10			
			22	34	21			
			23	32	36			
			24	29	50			
			25	27	55			
			26	26	02			
			27	24	38			
			28	23	37			
			29	21	07			
			30	19	32			
			31	17	38			
			32	16	08			
			33	14	45			
			34	13	24			
			35	11	59			
			36	10	30			
			37	09	05			
			38	07	59			
		8:27	39	06	15			

F. B. 2428 PG. 16 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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Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	10+00
		15 41				
T.P.	5 00	14 95	546	9 95		
10+00			54	96	Beach Con't Line-Sand	
			00	150		36.0 R. toe slope
		(+)	50	200		45.0 R. " (H.L.)
			105	45	36.0 L. Sand	
	+ 2 17	9 12	800	6 95	36.0 L. top 4' 1x2	
			45	46	35 FT LEFT M.H.W.	
					⊼ AT 15+00 SIGHT ON 5+00	
			68	23	54 FT. LEFT.	
			84	07	#1 8° 52'	
			98	-07	2 " 51	
			110	-19	3 15 11	
			118	-27	4 18 42	
			135	-44	5 22 40	
			154	-63	6 26 16	
			169	-78	7 29 54	
			170	-79	8 33° 08'	

Profile Notes Red ____ Plotted ____ Job No. 030002 Division No. ____
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Card R. MANOR Checked ____ Survey by English Notes Card Date 11-16-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F. B. 2428 Pg. 17

76L298 307 Cdb 12-62

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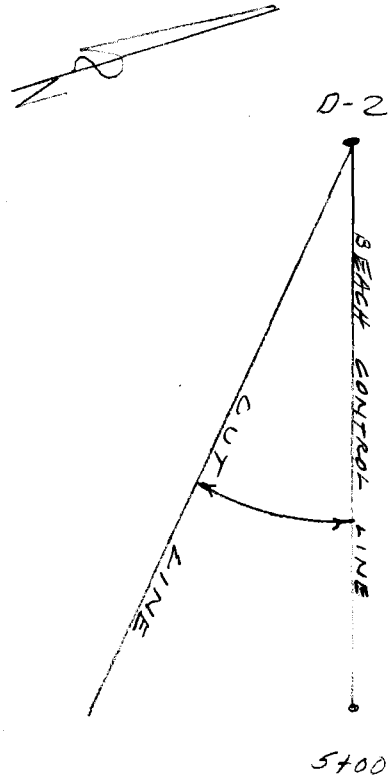
INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE MIN.	LINE	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH						
D-2	5+00	8:39	1	75	14				
			2	74	21				
			3	73	53				
			4	73	19				
			5	72	42				
			6	72	03				
			7	71	15				
			8	70	40				
			9	69	56				
			10	69	09				
			11	68	24				
			12	67	51				
			13	67	28				
			14	66	20				
			15	65	45				
			16	64	19				
			17	63	54				
			18	62	38				
			19	61	45				
			20	61	25				



RANGE = 10+00

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2428 PG. 19
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date [illegible] 16-73
No. ____ Date ____ Date ____ Map No. ____ Indexed D. D. BAILEY Date JAN 11 1974

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INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
D-2	5+00		21	60	10			
			22	58	27			
			23	56	40			
			24	54	35			
			25	52	48			
			26	50	50			
			27	47	22			
			28	44	59			
			29	41	00			
			30	38	32			
			31	35	16			
			32	32	51			
			33	30	17			
			34	26	55			
			35	23	03			
			36	19	52			
			37	15	51			
			38	12	54			
		8:46	39	10	51			

F. B. 2428 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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Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	15+00
		14 95				
T.P.	6 95	16 70	5 20	9 75		
15+00			43	12 4	Beach Cont. Line	
			13	15 4		19.0 R. toe Slope
		(+)	37	20 4		29.0 R. " (A.L.)
			115	5 2	50.0 L. Sand	
	+ 1 50	9 33	8 87	7 83	50.0 L. top 4' 1X2	
		4 6			π AT 10+00 SIGHT ON 15+00	
		4 7				
			16 5	- 7 2	#1 32° 40'	
			14 8	- 5 5	2 29 11	
			13 1	- 3 8	3 25 18	
			11 4	- 2 1	4 20 52	
			11 6	- 2 3	5 17 33	
			10 2	- 0 9	6 13 42	
			8 5	0 8	7 10 41	
			6 6	2 7	68 FT LEFT	
			4 7	4 6	55 " " M.H.W.	

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

F. B. 2928 Pg. 21

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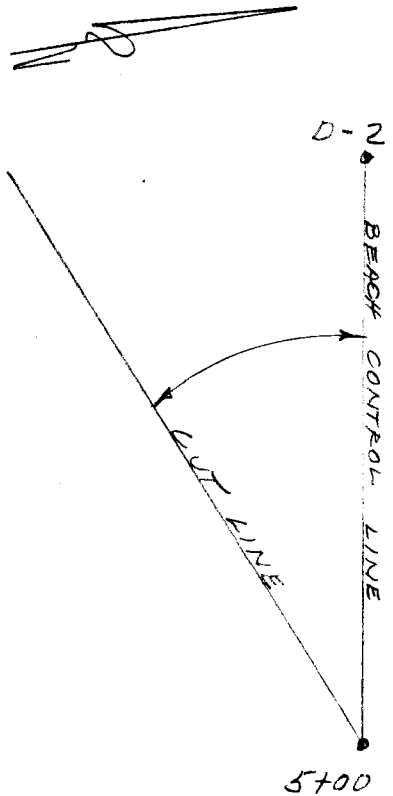
INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	359	60			
5+00	D-2	9:06	1	292	27	67	33	
			2	293	10	66	50	
			3	294	17	65	43	
			4	295	01	64	59	
			5	295	36	64	24	
			6	296	21	63	39	
			7	297	18	62	42	
			8	298	11	61	49	
			9	299	04	60	56	
			10	299	27	60	33	
			11	300	30	59	30	
			12	302	16	57	44	
			13	304	05	55	55	
			14	306	20	53	40	
			15	307	43	52	17	
			16	310	41	49	19	
			17	313	48	46	12	
			18	317	20	42	40	
			19	322	05	37	55	
			20	324	12	35	48	



RANGE = 15+00

Profile No. ____ Date ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 2300.02 Division No. 11 Survey of HYDRO SURVEY Survey by RICHARDS Notes R.T. Date 11-16-73 F. B. 7428 Pg. 23

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

76L29)07 Cdb 12-62

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INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	359	60			
5+00	D-2		21	326	29	33	31	
			22	328	33	31	27	
			23	330	35	29	25	
			24	334	37	25	23	
			25	337	42	22	18	
			26	341	04	18	56	
			27	343	59	16	01	
			28	345	51	14	09	
			29	347	43	12	17	
			30	349	23	10	37	
			31	351	44	8	16	
		9:15	32	352	30	7	30	

F. B. 2428 Pg. 24 Job No. 030002 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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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.	20+00
		16 70				
T.P.	7 06	19 31	4 45	12 25		
T.B.M. #3	2 21	19 29	2 23	17 08	T.B.M. #3 El.=17.08	F.B. 2243-184
20+00			44	14 9		Beach Cont. Line
			33	16 0		8.0 R. brk
			18	17 5		50.0 R. toe slope
		(+)	32	22 5		62.0 R. " (H.L)
			72	12 1	42.0 L. brk sand	
			136	5 7	88.0 L. "	
	1 58	9 74	11 13	8 16	88.0 L. top 4' 1x2	
					π AT 15+00	SIGHT ON D2 (16+71.69)
			51	4 6	94' LEFT M.H.W.	
			77	20	#1 13° 37'	
			97	00	2 16 47	
			115	-18	3 20 01	
			142	-45	4 23 37	
			151	-54	5 27 13	
			160	-63	6 30 49	
			151	-54	7 33 48	MAYBE ON ROCK
			179	-82	8 36° 19'	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Ck'd R. MANOR Checked ____ Survey by Hughson Notes Cave Date 11-16-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F.B. 2428 PG. 25

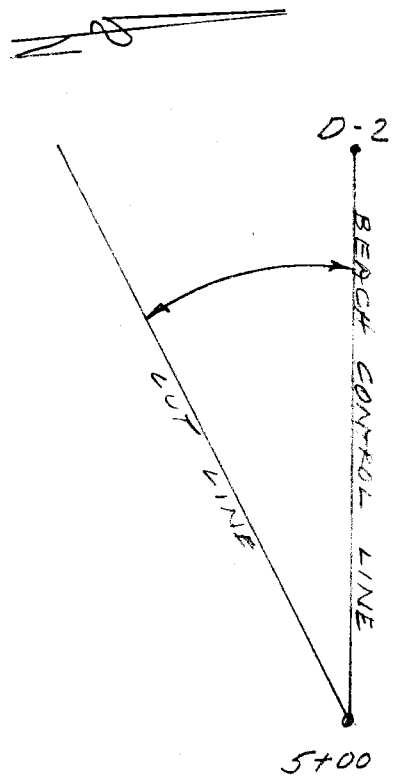
76L298 307 Cdb 12-62

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 RANGE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	359	60			
5+00	D-2	9:25	1	299	06	60	54	
			2	300	05	59	55	
			3	301	00	59	00	
			4	302	07	57	53	
			5	303	05	56	55	
			6	303	54	56	06	
			7	305	04	54	56	
			8	306	18	53	42	
			9	307	16	52	44	
			10	308	24	51	36	
			11	309	14	50	46	
			12	310	45	49	15	
			13	312	28	47	32	
			14	316	16	43	44	
			15	318	34	41	26	
			16	320	50	39	10	
			17	323	11	36	49	
			18	324	58	35	02	
			19	327	42	32	18	
			20	330	31	29	29	



RANGE = 20+00

Profile Notes Red. Plotted Job No. 0300.02 Division No. 11 F. B. 2428 Pg. 27
No. Date Date Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes R.T. Date 11-16-73
No. Date Date Map No. Indexed J. 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	359	60			
5+00	0-2		21	332	11	27	49	
			22	333	43	26	17	
			23	336	10	23	50	
			24	337	46	22	14	
			25	339	20	20	30	
			26	340	14	19	46	
			27	341	34	18	26	
			28	343	27	16	33	
			29	345	06	14	54	
			30	346	53	13	07	
			31	348	37	11	23	
			32	350	00	10	00	
			33	351	04	8	56	
			34	352	20	7	30	
		9:33	35	352	50	7	10	

F. B. 2428 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.

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.	25+00
		19 29				
T.P.	6 12	19 14	6 27	13 02		
25+00		(+)	09	200		Beach Cont. Line (H.L.)
		(+)	06	197	6.0 L. top brk	(Hand Level)
			48	143	13.0 toe slope	
			63	128	61.0 brk sand	
			76	115	98.0 "	
	+0 32	8 81	10 65	8 49	98.0 top 4' 1x2	
					⊼ 15+00 SIGHT ON D2 (16+71.69)	
			162	-74	1 22° 24'	
			160	-72	2 20 17	
			148	-60	3 18 01	
			142	-54	4 15 48	
			137	-49	5 13 46	
			107	-19	6 11 41	
			85	03	7 10 27	
			79	09	8 8° 48'	
			64	24	118 FT. LEFT	
			42	46	104 FT " M.H.W.	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2428 PG. 29
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Cr'd R. MANOR Checked ____ Survey by English Notes Caro Date 11-16-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

76L298 307 Cdb 12-62

PLEASE RETURN TO
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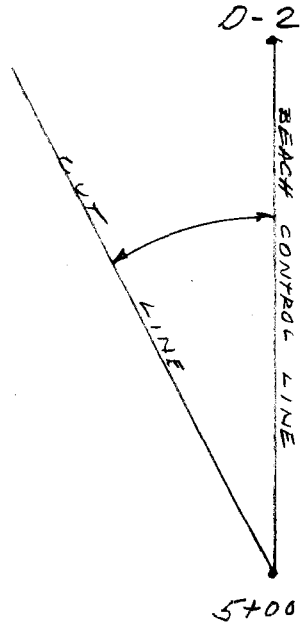
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	359	60			
5+00	D-2	9:45	1	306	21	53	39	
			2	307	44	52	16	
			3	308	45	51	15	
			4	309	55	50	05	
			5	311	09	48	51	
			6	312	41	47	19	
			7	314	00	46	00	
			8	315	55	44	05	
			9	316	12	43	48	
			10	318	13	41	47	
			11	319	45	40	15	
			12	321	35	38	25	
			13	323	30	36	20	
			14	324	55	35	05	
			15	326	10	33	50	
			16	326	53	33	07	
			17	328	12	31	48	
			18	329	35	30	25	
			19	331	01	28	59	
			20	332	46	27	14	



RANGE = 25+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2428 Pg. 31
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes RIT Date 11-16-73
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. 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	60			
5+00	D-2		21	334	22	25	38	
			22	335	17	24	43	
			23	336	30	23	30	
			24	337	55	22	05	
			25	339	09	20	51	
			26	340	35	19	25	
			27	341	48	18	12	
			28	342	57	17	03	
			29	344	14	15	46	
			30	345	22	14	38	
			31	346	52	13	08	
			32	348	20	11	40	
			33	349	27	10	33	
			34	350	33	9	27	
			35	351	54	8	06	
			36	353	04	6	56	
		9:53	37	354	08	5	52	

F. B. 2428 Pg. 32 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.	30+00
		19 14				
T.P.	454	18 33	535	1379		
30+00			36	147		Beach Cont. Line
			32	151		9.0 R. toe slope
		(+)	18	201		54.0 R. "
			58	125	32.0 L. brk. sand	
			118	85	75.0 L. "	
	+ 143½	964	1014	819	75.0 L. top of 1X2.	
					↑ AT 25+00 SIGHT ON 30+00	
			50	46	79 FT LEFT M.H.W.	
			70	26	93 " "	
			94	02	#1 12° 42'	
			109	-13	2 15 52	
			121	-25	3 18 38	
			139	-43	4 21 28	
			159	-63	5 24 24	
			154	-58	6 27 35	
			156	-60	7 30 42	
			174	-78	8 33° 59'	

Profile Notes Red ____ Plotted ____ Job No. 03 00 02 Division No. ____
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes ____ Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F. B. 2428 PG. 33

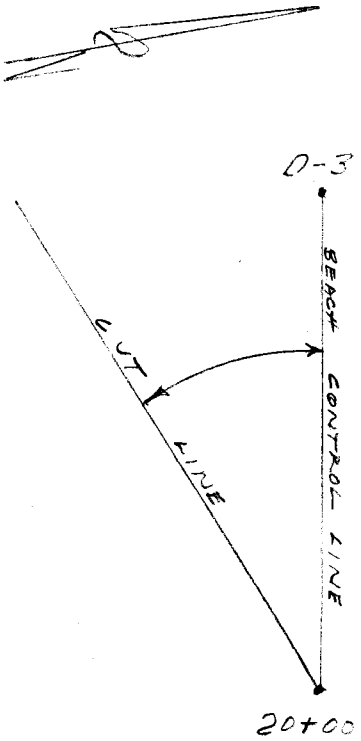
76L298 307 Cdb 12-62

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

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE MIN.	LINE	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	359	60				
20+00	D-3	10:28	1	291	57	68	03		
			2	292	49	67	11		
			3	294	00	66	00		
			4	295	01	64	59		
			5	296	07	63	53		
			6	297	17	62	43		
			7	298	17	61	43		
			8	299	42	60	18		
			9	301	24	58	36		
			10	302	39	57	21		
			11	303	57	56	03		
			12	305	16	54	44		
			13	306	40	53	20		
			14	308	49	51	11		
			15	310	11	49	49		
			16	312	18	47	42		
			17	314	12	45	48		
			18	316	03	43	57		
			19	318	29	41	31		
			20	320	46	39	14		



RANGE = 30+00

Profile Notes Red. Plotted Job No. 300.12 Division No. 11 F. B. 2428 Pg. 35
No. Date Date Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes RT Date 11-16-73
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.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch	359	60			
20+00	D-3		21	323	20	36	40	
			22	325	29	34	31	
			23	327	21	32	39	
			24	329	37	30	23	
			25	332	07	27	53	
			26	334	39	25	21	
			27	337	04	22	56	
			28	340	15	19	45	
			29	343	25	16	35	
			30	344	55	15	05	
			31	347	10	12	50	
			32	348	29	11	31	
			33	350	08	9	52	
		10:35	34	351	22	8	38	

Profile No. ____ X-Sec. No. ____

Plotted ____ Date ____ Checked ____ Date ____

Notes Red. ____ Date ____ Notes Chkd. ____ Date ____

Division No. 11 Job No. 200.02

Survey of HYDRO SURVEY

Survey by RICHARDS Notes RT

Indexed D. BAILEY Date JAN 11 1974

F. B. 2428 Pg. 36

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.	35+00
		18 33				
TP.	460	18 77	416	1417		
35+00			44	144	Beach	Con't. Line sand
			14	174		58.0 R. toe Slope
		(+)	36	224		69.0 R " (H.L)
			54	134	30.0 L. brk sand	
			131	57	64.0 L. "	
	156	1000	1033	844	64.0 L. top 4' 1x2	
					⊼ AT 25+00 SIGHT ON 35+00	
			162	-62	#1 17° 33'	
			168	-68	2 15 13	
			156	-56	3 13 12	
			144	-44	4 11 18	
			131	-31	5 9 38	
			121	-21	6 8 12	
			108	-08	7 6 53	
			84	16	8 5° 51'	
			75	25	55 FT LEFT	
			54	46	42 " " M.H.W.	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2428 Pg. 37
X-Sec. No. ____ Date ____ Date ____ Survey of Hydrosurvey
Notes Checked R. MANOR Checked ____ Survey by English Notes Caro Date 11-16-73
Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

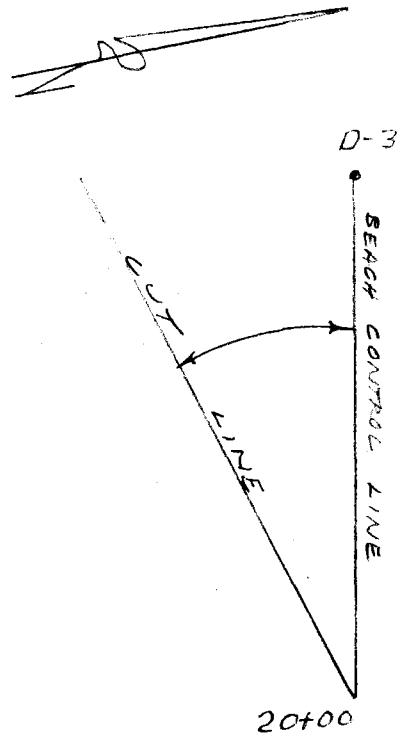
76L298 307 Cdb 12-62

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.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	359	60			
20+00	D-3	10:45	1	299	47	60	13	
			2	300	43	59	17	
			3	301	37	58	23	
			4	302	44	57	16	
			5	303	44	56	16	
			6	305	12	54	48	
			7	306	07	53	53	
			8	307	25	52	35	
			9	308	45	51	15	
			10	309	21	50	39	
			11	310	44	49	16	
			12	311	54	48	06	
			13	313	23	46	37	
			14	315	11	44	49	
			15	317	26	42	34	
			16	318	56	41	04	
			17	320	23	39	37	
			18	322	40	37	20	
			19	325	10	34	50	
			20	326	43	33	17	



RANGE = 35+00

Profile Notes Red. ____ Plotted ____ Job No. 030002 Division No. 11 F. B. 2428 Pg. 39
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-16-73
No. ____ Date ____ Date ____ Map No. ____ Indexed G. 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 LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	359	60			
20+00	D-3		21	328	26	31	34	
			22	330	21	29	39	
			23	332	13	27	47	
			24	333	58	26	02	
			25	336	03	23	57	
			26	338	03	21	57	
			27	340	10	19	50	
			28	343	16	17	44	
			29	344	38	15	22	
			30	346	42	13	18	
			31	348	23	11	37	
			32	350	26	9	34	
			33	352	38	7	22	
		10:52	34	354	46	5	14	

F. B. 2428 PG. 40 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 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.	40+00
		18 77				
T.P.	4 62	18 12	527	1350		
40+00			73	108		Beach Cont. Line [illegible]
			08	173		86.0R. toe slope
		(+)	72	253		98.0R. " (H.L)
			131	50	36.0 L. sand	
	0 68	8 31	10 49	7 63	36.0 L. tape 4'x2	
					⊼ AT D3 (35+22.57) SIGHT ON 40+00	
			37	46	37 FT LEFT M.H.W.	
			65	18	54 " " SAND	
			81	02	#1 8° 42'	
			85	-02	2 11 07	
			107	-24	3 13 38	
			123	-40	4 16 57	
			129	-46	5 20 48	
			139	-56	6 24 06	
			150	-67	7 28 11	
			160	-77	8 31° 34'	

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

X-Sec. No. ____ Notes Cont'd R. MANOR Date JAN 17 1974 Checked ____ Date ____ Survey of [illegible] Survey by [illegible] Notes [illegible] Date [illegible]

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

F. B. 2428 Pg. 41

76L298 307 Cdb 12-62

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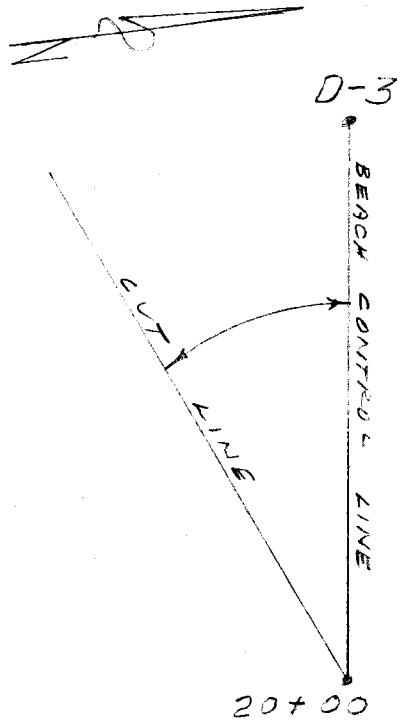
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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	359	60			
20+00	D-3	11:06	1	297	08	62	52	
			2	298	32	61	28	
			3	300	06	59	54	
			4	301	41	58	19	
			5	303	14	56	46	
			6	304	40	55	20	
			7	306	28	53	32	
			8	308	15	51	45	
			9	310	07	49	53	
			10	311	47	48	13	
			11	313	10	46	50	
			12	315	23	44	37	
			13	317	30	42	30	
			14	319	32	40	28	
			15	321	23	38	37	
			16	323	25	36	35	
			17	325	26	34	34	
			18	327	21	32	39	
			19	329	05	30	55	
			20	330	57	29	03	



RANGE = 40+00

Profile Notes Red.____ Plotted____ Job No. 3L6022 Division No. 11 F. B. 2428 Pg. 43
No.____ Date____ Date____ Survey of HYDRA SURVEY
X-Sec. Notes Chkd.____ Checked____ Survey by RICHARDS Notes RT Date 11-16-73
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.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch	359	60			
20+00	D-3		21	332	51	27	09	
			22	334	54	25	16	
			23	336	43	23	17	
			24	338	33	21	27	
			25	341	13	18	47	
			26	343	01	16	59	
			27	343	53	16	07	
			28	345	24	14	36	
			29	347	23	12	37	
			30	349	13	10	47	
			31	350	27	9	33	
			32	351	28	8	32	
			33	352	45	7	15	
		11:14	34	354	02	5	58	

F. B. 2428 Pg. 44 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

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

Survey by RICHARDS Notes RT. Notes Chkd. Date No.

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

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.	45+00
		18 12				
T.P.	403	17 23	4 92	13 20		
45+00			69	103		Beach Conv. Line Sand
			30	142		14.0 R. brk. "
			18	154		80.0 R. toe Slope
		(+)	32	204		86.0 R. " (H.L.)
			122	50	30.0 L. Sand	
	094	873	944	779	L. top 4' (D3) 1x2	
					⊼ AT 35+22.57 SIGHT ON 45+00	
			180	-93	#1 19° 56'	
			174	-87	2 17 31	
			147	-60	3 15 01	
			160	-73	4 12 49	
			164	-77	5 10 18	
			144	-57	6 8 37	
			115	-28	7 6 41	
			101	-14	8 4 47	
			91	-04	9 3 46	HOLE ?
			76	11	10 3 17	
			61	26	48 FT LEFT	
			41	46	32 " " M.H.W.	

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Ch'd R. MANOR Checked ____ Survey by English Notes Care Date 11-16-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F. B. 2428 Pg. 45

76L298 307 Cdb 12-62

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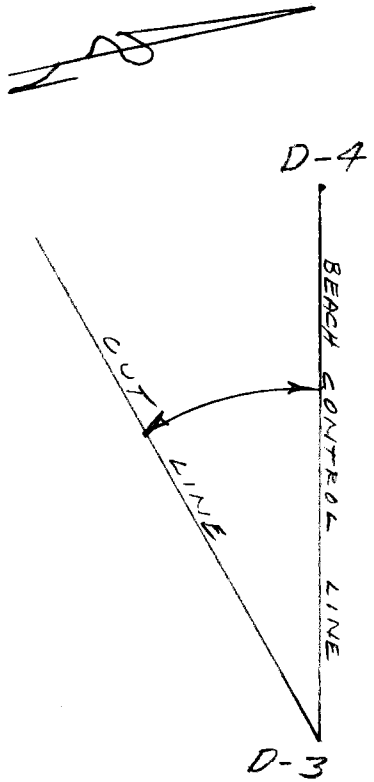
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	359	60			
D-3	D-4	11:34	1	288	56	71	04	
			2	289	42	70	18	
			3	290	19	69	41	
			4	291	14	68	46	
			5	291	51	68	09	
			6	292	51	67	09	
			7	293	30	66	30	
			8	294	55	65	05	
			9	296	10	63	50	
			10	297	17	62	43	
			11	298	25	61	35	
			12	299	47	60	13	
			13	301	05	58	55	
			14	302	35	57	25	
			15	304	27	55	33	
			16	306	23	53	37	
			17	308	01	51	59	
			18	310	22	49	38	
			19	312	52	47	08	
			20	315	03	44	57	



RANGE = 45+00

Profile Notes Red. Plotted Job No. 030002 Division No. 11 F. B. 2428 Pg. 47
No. Date Date Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. Checked Survey by R. HARDS Notes R.T. Date 11-16-73
No. Date Date Map No. Index R. D. BAILEY Date JAN 11 1974

76L298 307 Cdb 12-62

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F. B. 2428 PG. 48 Job No. 8200.02 Division No. 11 Notes Red. Plotted. Profile No.

Survey of HYDRO. SURVEY Date Date X-Sec.

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

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

Inst. At	Sight On	Time	Angle No.	Hor. Deg.	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	359	60			
D-3	D-4		21	317	17	42	43	
			22	320	54	39	06	
			23	323	45	36	15	
			24	326	33	33	27	
			25	329	32	30	27	
			26	331	05	28	55	
			27	334	24	25	36	
			28	336	55	23	05	
			29	340	09	19	51	
			30	343	10	16	50	
			31	345	18	14	42	
			32	346	50	13	10	
			33	349	00	11	00	
			34	350	51	9	09	
			35	352	48	7	12	
		11:41	36	354	06	5	54	

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.	50+00
		17 23				
T.P.	225	16 55	293	1430		
50+00			27	~~129~~ 132	Beach	Cont line Sand
			21	145		25.0 R. base retain wall Sand
			16	150		25.5 R. edge pvmt
			27	138	36.0 L. brk. Sand	
			105	61	73.0 L. "	
	211	10 73	793	862	73.0 L. Top 4' 1x2	
					⊼ AT 45+00 SIGHT ON 50+00	
			61	46	81 FT. LEFT M.H.W.	
			91	16	1 11° 58'	
			107	00	2 13 34	
			125	-18	3 16 06	
			143	-~~26~~ 36	4 19 20	
			170	-63	5 22 52	
			166	-59	6 25 52	
			164	-57	7 29 02	
					~~8 32 28~~ (OVER 18.5 ROD)	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F. B. 2428 Pg. 49
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Chkd. R. MANOR Checked ____ Survey by English Notes Carc Date 11-16-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed S. D. BAILEY Date JAN 11 1974

76L298 307 Cdb 12-62

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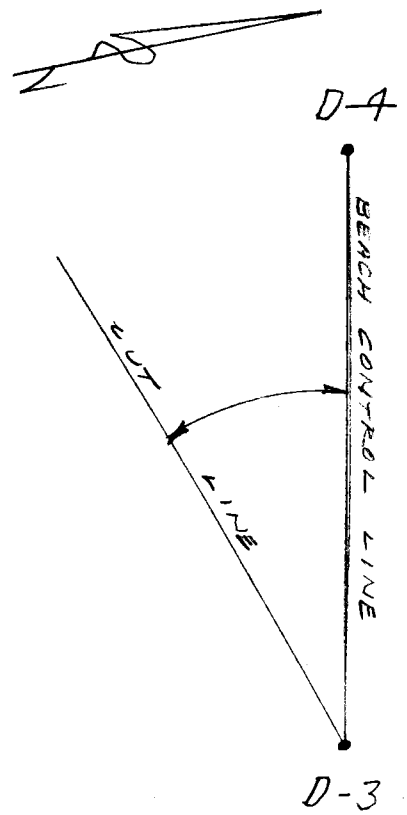
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	359	60			
D-3	D-4	12:03	1	295	46	64	14	
			2	296	21	63	39	
			3	297	09	62	51	
			4	298	01	61	59	
			5	298	59	61	01	
			6	300	03	59	57	
			7	301	00	59	00	
			8	301	57	58	03	
			9	303	04	56	56	
			10	304	22	55	38	
			11	305	32	54	28	
			12	307	00	53	00	
			13	308	31	51	29	
			14	310	27	49	33	
			15	312	25	47	35	
			16	314	40	45	20	
			17	316	47	43	13	
			18	318	53	41	07	
			19	321	27	38	33	
			20	323	58	36	02	



RANGE = 50+00

Profile Notes Red. ____ Plotted ____ Job No. 3300.02 Division No. 11 F.B. 2428 Pg. 51
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes KT Date 11-16-73
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 Deg.	Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch	359	60			
D-3	D-4		21	326	07	33	53	
			22	328	16	31	44	
			23	330	49	29	11	
			24	332	25	27	35	
			25	337	34	22	26	
			26	338	55	21	05	
			27	340	27	19	33	
			28	342	50	17	10	
			29	344	47	15	13	
			30	346	37	13	23	
			31	348	37	11	23	
			32	350	02	9	58	
			33	351	27	8	33	
			34	353	11	6	49	
			35	354	24	5	36	
		12:09	36	354	59	5	01	

F. B. 2428 Pg. 52 | Job No. 6300.02 Division No. 11

Survey of HYDRO. SURVEY

Survey by RICHARDS Notes RT.

Indexed G. D. BAILEY Date JAN 11 1974

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date Notes Chkd. Date

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 11-16-73
Date JAN 17 1974	Indexed G. D. BAILEY JAN 11 1974

F. B. 2428 PG. 53

TIDE GAGE READINGS
NOV. 16, 1973
TIME – P.S.T.
DATUM – M.L.L.W.

TIME	TIDE-A	TIDE-B
6:00	2.9	3.0
6:30	2.7	2.8
7:00	2.5	2.7
7:30	2.4	2.6
8:00	2.5	2.6
8:30	2.5	2.7
9:00	2.6	2.8
9:30	2.8	3.0
10:00	3.0	3.2
10:30	GAGE NOT OPERATING	3.4
11:00		3.6
11:30		3.9
12:00		4.2
12:30		4.4
1:00		4.5
1:30		4.6
2:00		4.6

NOTE: TIDE-A GAGE IS LOCATED AT SOUTH END OF BERTH 60, L.A. OUTER HARBOR. GAGE BEGAN MALFUNCTIONING AFTER 10:00 A.M., 11-16-73.

TIDE-B GAGE IS LOCATED AT THE U.S. ARMY OCEAN RESEARCH FACILITY, U.S.N., POINT MUGU.

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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DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-69

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DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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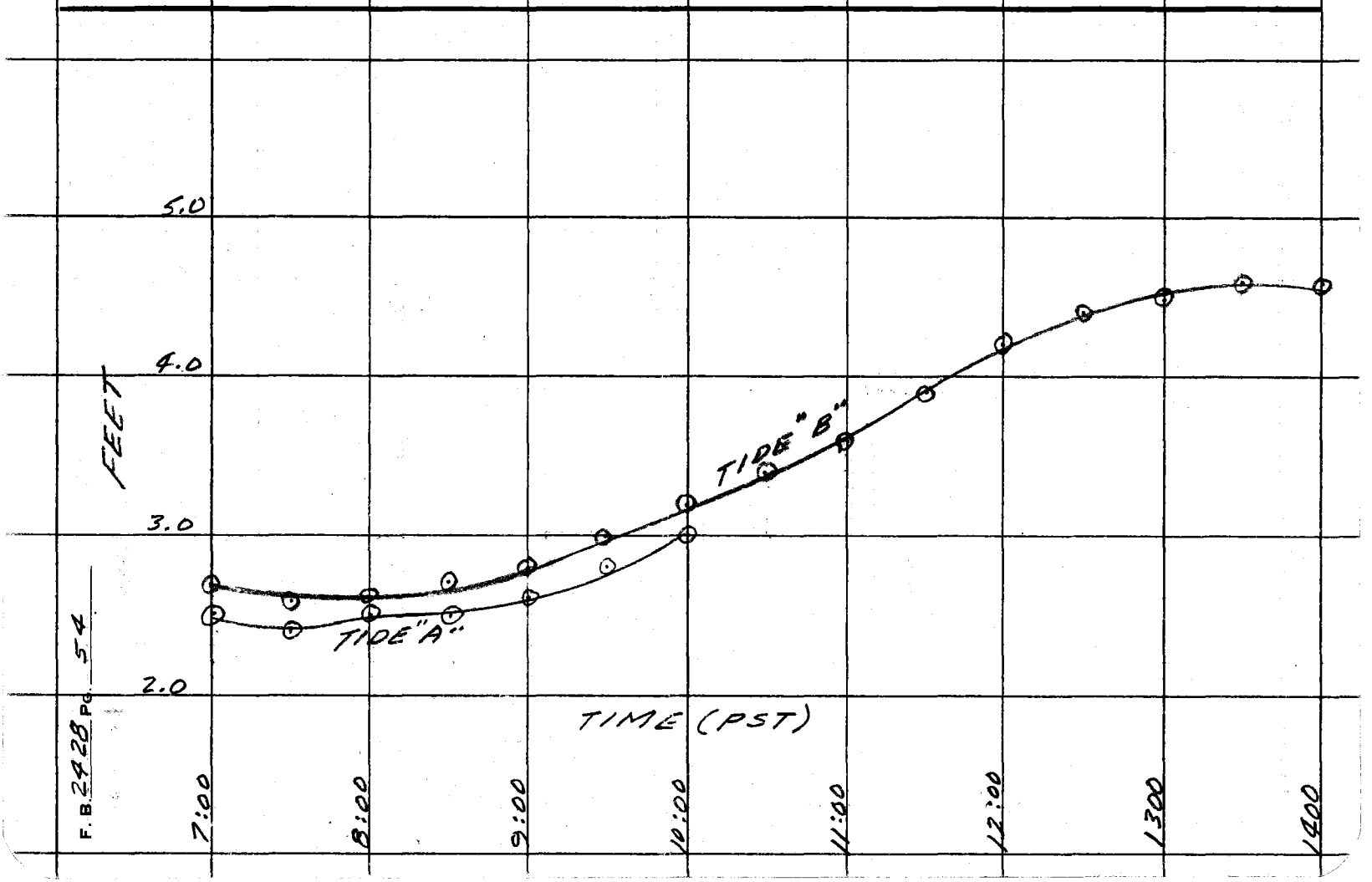
Do not extend this side of this line.



F. B. 2428 PG. 54

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.

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Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W	55+00
		16 55				
T.P. (T.B.M. #7) D-4	337	17 81	211	14 44		
			363	14 18	(T.B.M. #7) D-4 El. = 14.16	F.B. 2243-186
	327	17 43		14 16		
55+00			41	133	Beach Con't. Line Sand	
			36	138		53.0 R. brk sand
			244	14 99		61.0 R. pvm't.
			44	130	51.0 L. brk. sand	
			102	72	76.0 L. "	
	-0 54	9 0 8 99	7 90	9 53	76.0 L. top 4' 1x2	
			44	46	92 FT. LEFT M.H.W.	
			63	27	105 " "	
					π AT 60+00 SIGHT ON 55+00	
			97	-07	#1 14° 13'	
			98	-08	2 " 33	
			109	-19	3 18 54	
			135	-45	4 21 27	
			133	-43	5 25 03	
			161	-71	6 28 19	
			164	-74	7 31° 25'	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2428 Pg. 55
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Chkd. R. MANOR Checked ____ Survey by English Notes Caro Date 11-20-73
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.

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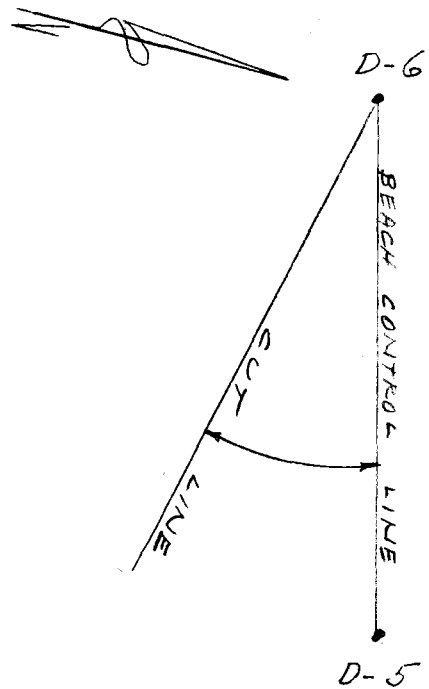
Do not extend notes this side of this line.

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					
D-6	D-5	8:03	1	53	55			
			2	53	02			
			3	52				
			4	51	10			
			5	50	27			
			6	49	15			
			7	48	31			
			8	47	28			
			9	46	22			
			10	45	01			
			11	44	09			
			12	42	47			
			13	41	41			
			14	40	35			
			15	39	36			
			16	38	27			
			17	37	12			
			18	35	21			
			19	33	46			
			20	32	20			



RANGE = 55+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2428 Pg. 57

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-20-73

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					
D-6	D-5		21	30	34			
			22	29	06			
			23	27	44			
			24	25	57			
			25	24	08			
			26	22	30			
			27	20	35			
			28	18	19			
			29	16	36			
			30	15	03			
			31	13	10			
			32	12	15			
			33	10	40			
			34	08	55			
			35	07	30			
			36	05	36			
			37	04	26			
		8:10	38	02	59			

F. B. 2428 PG. 58 Job No. 030002 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 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 60+00

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	
		1743				
T.P.	239	1747	235	1508		
60+00			123	52	Beach Cont. line Sand	
			1103	644	top 4' 1x2	
			78	97		30. OR. brk. Sand
			48	127		37. OR. " "
			69	106		84. OR. ~~top~~ Bot. cliff
					⊼ AT 55+00 SIGHT ON 60+00	
	+ 195	4 839		644		
			170	-86	1 33° 02'	
			156	-72	2 28 58	
			148	-64	3 25 47	
			129	-45	4 21 02	
			118	-34	5 19 12	
			117	-33	6 15 45	
			104	-20	7 10 28	
			84	00	8 7 31	
			75	09	9 5° 15'	
			38	46	8 FT LEFT M.H.W.	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of Hydro Survey
Notes Checked R. MANOR Checked ____ Survey by English Notes Caro Date 11-20-73
Date JAN 17 1974 Date ____ Map No. ____ Index G. D. BAILEY Date JAN 11 1974

F. B. 2428 Pg. 59

76L298 307 Cdb 12-62

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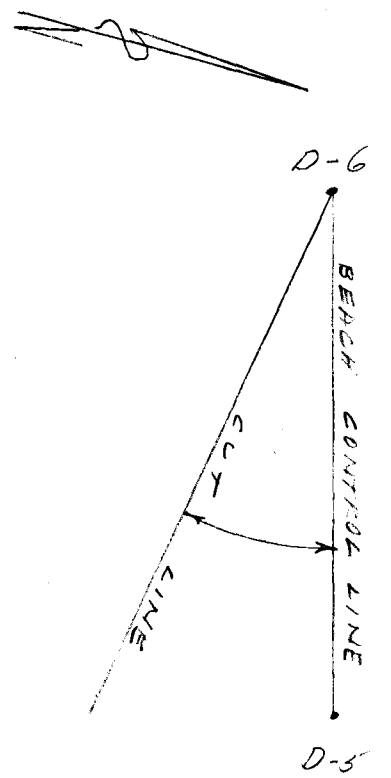
Do not extend notes this side of this line.

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					
D-6	D-5	8:25	1	62	25			
			2	61	52			
			3	61	15			
			4	60	31			
			5	59	41			
			6	58	32			
			7	57	32			
			8	56	28			
			9	55	15			
			10	53	28			
			11	52	05			
			12	50	48			
			13	49	09			
			14	47	34			
			15	45	44			
			16	43	59			
			17	42	25			
			18	40	55			
			19	38	41			
			20	35	48			



RANGE = 60+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2428 Pg. 61

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-20-73

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

F. B. 2428 PG. 62 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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NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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.
0-6	0-5		21	33	05			
			22	30	45			
			23	28	12			
			24	26	00			
			25	24	28			
			26	21	31			
			27	18	58			
			28	16	04			
			29	14	16			
			30	12	00			
			31	09	40			
			32	08	12			
			33	06	04			
		8:33	34	04	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.	65+00
		17 47				
T.P.	7 80	15 56	9 71	7 76		
65+00			72	8 4	Beach Con't. line Sand	
			5 43	10 13	top 4'1×2	
			44	11 2		15.0 R. brk Sand
		(+)	56	21 2		32.0 R. " " (H.L)
		(+)	56	21 2		46.0 R. toe cliff.
					⊼ AT D5 SIGHT ON 65+00	
	-1 33	8 80		10 13		
			42	46	21 FT. LEFT M.H.W	
			63	25	40 FT LEFT	
			80	08	#1 9° 55'	
			91	-03	2 14 03	
			115	-27	3 19 01	
			120	-32	4 25 02	
			119	-31	5 29 43	
			138	-50	6 33 48	
			137	-49	7 37 42	
			151	-63	8 41° 16'	

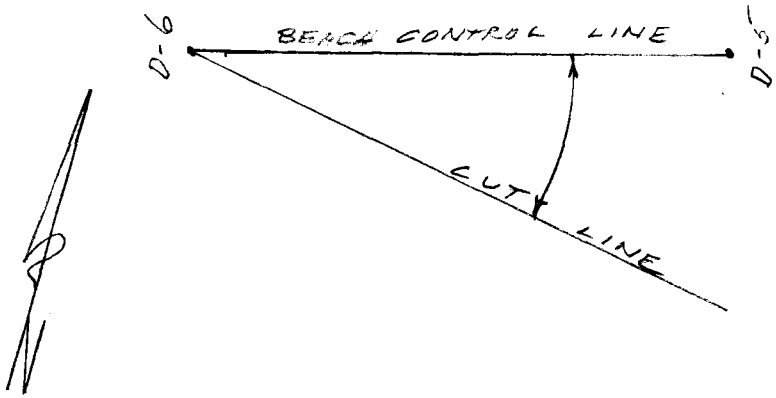
Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2428 Pg. 63
X-Sec. No. ____ Date ____ Date ____ Survey of Hydrosurvey
Notes Cr'd R. MANOR Checked ____ Survey by English Notes Caro Date 11-20-73
Date JAN 17 1974 Date ____ Map No. ____ Indexed D. BAILEY Date JAN 11 1974

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 0300.02 Division No. 11 F. B. 2428 Pg. 65

Date _____ Date _____ Survey of HYDRO. SURVEY

X-Sec. No. _____ Notes Chkd. _____ Checked _____ Survey by RICHARDS Notes KT. Date 11-20-73

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



RANGE = 65+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.

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					
D-6	D-5	8:51	1	75	46			
			2	75	11			
			3	74	37			
			4	73	51			
			5	72	59			
			6	71	52			
			7	70	40			
			8	69	22			
			9	68	05			
			10	66	57			
			11	65	56			
			12	64	35			
			13	63	42			
			14	62	25			
			15	61	45			
			16	60	20			
			17	59	36			
			18	58	29			
			19	56	27			
			20	54	10			

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					
D-6	D-5		21	52	52			
			22	50	54			
			23	48	56			
			24	45	36			
			25	43	14			
			26	41	08			
			27	38	57			
			28	36	11			
			29	33	58			
			30	30	37			
			31	26	05			
			32	23	28			
			33	20	06			
			34	16	31			
		9:00	35	13	24			

F. B. 2428 PG. 66 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 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.	70+00
		1556				
T. P.	430	1392	594	962	(THIS H.I. CARRIED TO PG 75)	
70+00			55	84	Cont. line	Sand
			43	96		6.0R. brk. "
			19	120		11.0R. " "
			15	124		23.0R. top cliff
		9	83	56	27.0L. Sand	
	-043	788	561	831	27.0L. Top 4' 1x2	
					⊼ AT D5 SIGHT ON 70+00	
			156	-77	#1 23° 34'	
			147	-68	2 21 29	
			136	-57	3 19 01	
			110	-31	4 16 19	
			102	-23	5 13 46	
			91	-12	6 11 41	
			96	-17	7 9 27	
			75	04	8 7 08	
			69	11	9 5° 25'	
			56	23	65 FT LEFT	
			33	46	36 " " MHW	

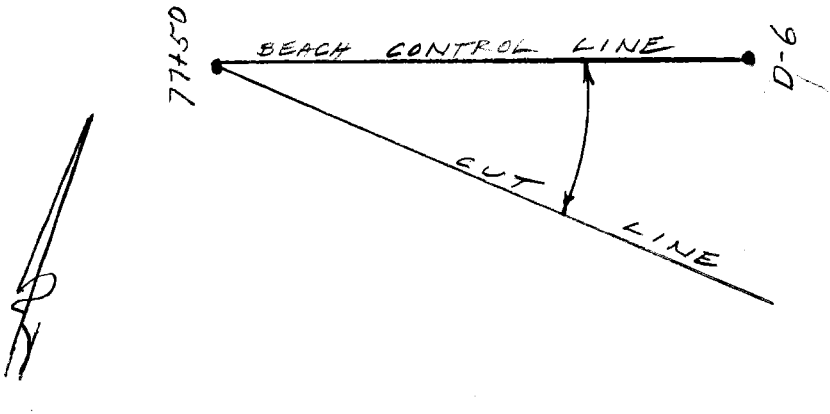
Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F. B. 2428 Pg. 67
X-Sec. No. ____ Date ____ Date ____ Survey of Hydro Survey
Notes Chkd. R. MANOR Checked ____ Survey by English Notes Caro Date 11-20-73
Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

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

F. B. 2428 Pg. 69

X-Sec. No. _____ Notes Chkd. _____ Date _____ Checked _____ Date _____ Survey by RICHARDS Notes RT. Date 11-20-73

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



RANGE = 70+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.

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					
77+50	D-6	9:22	1	97	30			
			2	96	36			
			3	95	38			
			4	95	16			
			5	94	02			
			6	92	50			
			7	91	17			
			8	90	12			
			9	89	15			
			10	87	57			
			11	86	58			
			12	86	16			
			13	84	14			
			14	82	23			
			15	80	13			
			16	79	25			
			17	77	50			
			18	75	48			
			19	73	54			
			20	72	03			

76L298 307 Cdb 12-62

F. B. 2428 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.

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 LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº.
77+50	D-6		21	69	43			
			22	68	20			
			23	65	16			
			24	62	57			
			25	58	50			
			26	54	59			
			27	52	17			
			28	48	01			
			29	44	22			
			30	40	09			
			31	36	35			
			32	30	22			
			33	25	07			
			34	21	09			
		9:30	35	18	03			

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.	72+22.66
		12 07			See pg. 75 FOR T. P.	
T. P.	6 12	15 84	2 35	9 72		
72+22.66			26	132	Beach Cont. line	
			21	137		19.0 R. toe Cliff.
			32	126	10.0 L. brk sand	
			99	59	56.0 L. "	
	-0 18	8 21	7 45	8 39	56.0 L. top 4' 1x2	
					⊼ AT 70+00 SIGHT ON 72+22.66 (D6)	
			36	46	66 FT LEFT M.H.W.	
			61	21	91 " "	
			75	07	#1 27° 18'	
			87	-05	2 33 28	
			98	-16	3 38 42	
			112	-30	4 44 22	
			116	-34	5 49 33	
			138	-56	6 54 32	
			149	-67	7 57 56	
			156	-74	8 60 56	
			168	-86	9 63° 36'	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F. B. 2428 Pg. 71
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Red R. MANOR Checked ____ Survey by English Notes Caro Date 11-20-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

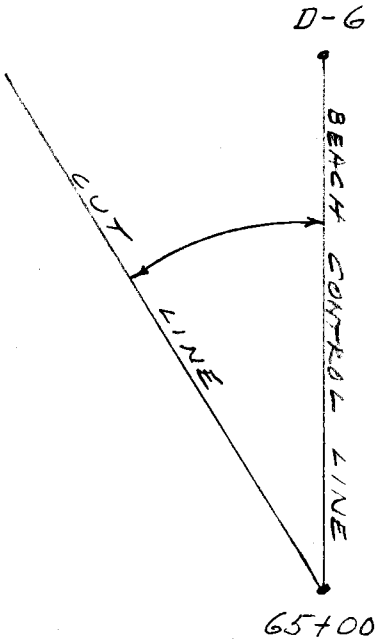
76L298 307 Cdb 12-62

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.	RANGE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	359	60			
65+00	D-6	9:49	1	284	44	75	16	
			2	285	17	74	43	
			3	286	01	73	59	
			4	286	52	73	08	
			5	287	38	72	22	
			6	288	52	71	08	
			7	290	01	69	59	
			8	290	56	69	04	
			9	292	06	67	54	
			10	292	59	67	01	
			11	294	48	65	12	
			12	296	07	63	53	
			13	297	40	62	20	
			14	298	50	61	10	
			15	300	03	59	57	
			16	300	56	59	04	
			17	302	25	57	35	
			18	304	12	55	48	
			19	306	08	53	52	
			20	308	27	51	33	



RANGE = 72+22.66

Profile Notes Red. Plotted Job No. 430.02 Division No. 11 F. B. 2428 Pg. 73
No. Date Date Survey of HYDRO SURVEY
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes RT Date 11-20-73
No. Date Date Map No. Index C. 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. 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	60			
65+00	D-6		21	311	36	48	24	
			22	315	11	44	49	
			23	319	55	40	05	
			24	324	17	35	43	
			25	328	08	31	52	
			26	330	21	29	39	
			27	333	11	26	49	
			28	335	53	24	07	
			29	339	08	20	52	
		9:56	30	342	45	17	15	

F. B. 2428 PG. 74 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

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

Survey by RICHARDS Notes RIT 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.	75+00
		13 92			(SEE PG. 67 FOR T. P.)	
T.P.	232	12 07	417	9 75	(THIS H.I. CARRIED TO PG. 71)	
75+00			50	71	Beach Cont line	
			19	102		49.0R toe Cliff.
			65	56	15.0L. Sand	
	-066	7 29	412	795	15.0L. top 4' 1x2	
					⊼ AT 70+00	SIGHT ON D6 (72+22.66)
			168	-95	1 50° 15'	
			140	-67	2 47 12	
			140	-67	3 44 10	
			132	-59	4 41 58	
			104	-31	5 38 52	ROCKY RIDGES
			117	-~~3~~ 4	6 36 33	
			106	-33	7 33 45	
			88	-15	8 31 29	
			73	00	9 29 27	
			72	01	10 26° 45'	
			62	11	83 FT. LEFT	
			55	18	57 " "	
			27	~~46~~ 50	27 " " M.H.W.	

Profile Notes Red. Plotted Job No. 0300.02 Division No.
No. Date Date Survey of Hydro Survey
X-Sec. Notes Rk. MANOR Checked Survey by English Notes Caro Date 11-20-73
No. Date JAN 17 1974 Date Map No. Index G. D. BAILEY Date JAN 11 1974

F.B. 2428 Pg. 75

76L298 307 Cdb 12-62

PLEASE RETURN TO
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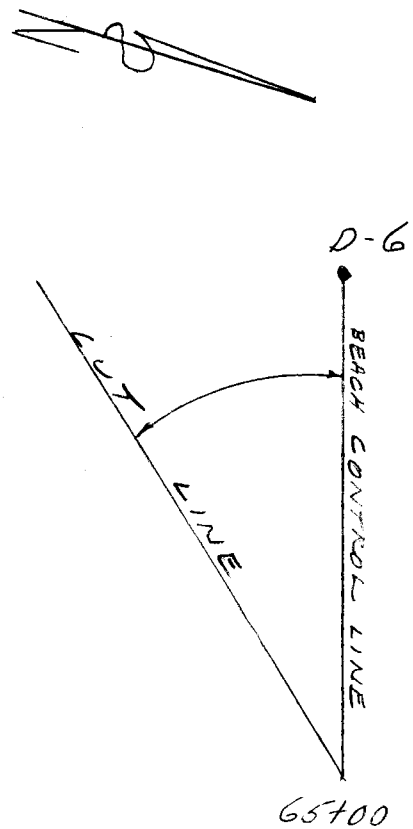
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
65+00	D-6	10:09	1	288	22	71	38	
			2	289	20	70	40	
			3	290	00	70	00	
			4	290	46	69	14	
			5	291	36	68	24	
			6	292	32	67	28	
			7	293	41	66	19	
			8	294	00	66	00	
			9	296	17	63	43	
			10	297	37	62	23	
			11	299	20	60	40	
			12	300	31	59	29	
			13	301	52	58	08	
			14	303	38	56	22	
			15	305	36	54	24	
			16	307	08	52	52	
			17	309	50	50	10	
			18	311	54	48	06	
			19	313	45	46	15	
			20	315	35	44	25	



RANGE = 75+00

Profile Notes Red. Plotted Job No. 0300.02 Division No. 11 F. B. 2428 Pg. 77
No. Date Date Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes R.T. Date 11-20-73
No. 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					
65+00	D-6		21	317	41	42	19	
			22	320	21	39	39	
			23	324	25	35	35	
			24	326	26	33	34	
			25	329	36	30	24	
			26	332	17	27	43	
			27	334	10	25	50	
			28	336	36	23	24	
		10:17	29	337	50	22	10	

F. B. 2428 PG. 78 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

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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.	77+50
		1584			(See pg. 71 FOR T. P.)	
D-7	076	1168	492	10.92	D-7 El = 10.92	F.B. 2243-188
77+50			24	9 83	Beach Con't line sand	
			29	88		6.0 R. toe Cliff.
			63	54	24.0 L. sand	
	-095	713	360	8.08	24 0 L. top 4' 1x2	
		4			⊼ AT 70+00 SIGHT ON D6 (72+22.66)	
			25	46	29 FT LEFT M.H.W.	
			51	20	61 " " SAND	
			61	10	#1 24° 43'	
			70	01	2 27 05	ROCKY RIDGES
			78	-07	3 29 49	SAND BETWEEN
			96	-25	4 32 17	
			115	-44	5 34 51	
			123	-52	6 37 04	
			144	-73	7 39 54	
			156	-85	8 41° 53	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2428 Pg. 79
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Ck'd R. MANOR Checked ____ Survey by English Notes Caro Date 11-20-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

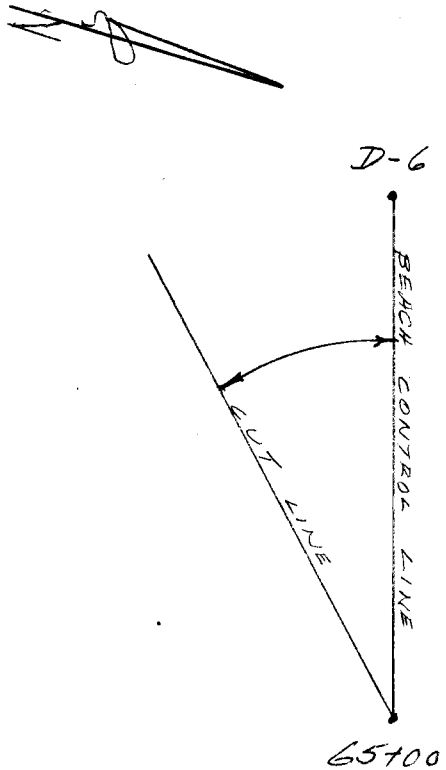
76L298 307 Cdb 12-62

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. 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					
65+00	D-6	10:27	1	292	41	67	19	
			2	293	31	66	29	
			3	294	20	65	40	
			4	295	15	64	45	
			5	296	35	63	25	
			6	297	34	62	26	
			7	299	11	60	49	
			8	300	15	59	45	
			9	301	57	58	03	
			10	303	19	56	14	
			11	305	53	54	07	
			12	307	35	52	25	
			13	308	58	51	02	
			14	310	58	49	02	
			15	312	49	47	11	
			16	314	50	45	10	
			17	316	36	43	24	
			18	318	42	41	18	
			19	319	25	40	35	
			20	321	57	38	03	



RANGE = 77+50

Profile Notes Red. Plotted Job No. 3300.01 Division No. 11 F. B. 2428 Pg. 81
No. Date Date Survey of HYDRO SURVEY
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes R.H. Date 11-20-73
No. Date Date Map No. Indexed D. BAILEY Date JAN 11 1974

F. B. 2428 PG. 82 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					
65+00	D-6		21	325	38	34	22	
			22	328	58	31	02	
			23	330	58	29	02	
			24	333	32	26	28	
			25	335	40	24	20	
			26	336	57	23	03	
		10:35	27	338	38	21	22	

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 80+00

STATION	B. S.	H. I.	F. S.	ELEV. =	M.L.L.W.	
		11 68				
T.P.	7 40	14 84	424	7 44		
80+00			42	10 6	Beach Con't. line	Sand
			14	13 4		33.0R. toe Cliff.
			95	53	35.0L. Sand	
	-1 30	6 82	672	8 12	35.0L. Top 4' 1x2	
		4 6				
		2 2			↑ AT 70+00 SIGHT ON D6 (72+22.66)	
			153	-85	#1 35° 27'	
			145	-77	2 33 47	
			143	-75	3 32 01	
			128	-60	4 30 11	
			128	-60	5 28 01	
			111	-43	6 26 13	
			86	-18	7 24 21	
			78	-10	8 23 04	
			68	00	9 21° 28'	
			57	11	93 FT LEFT	
			43	25	67 " "	
			22	46	42 " " M.H.W.	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 030002 Division No. ____ F.B. 2428 Pg. 83

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

Notes Ck'd R. MANOR Checked ____ Survey by English Notes Caro Date 11-20-73

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

76L298 307 Cdb 12-62

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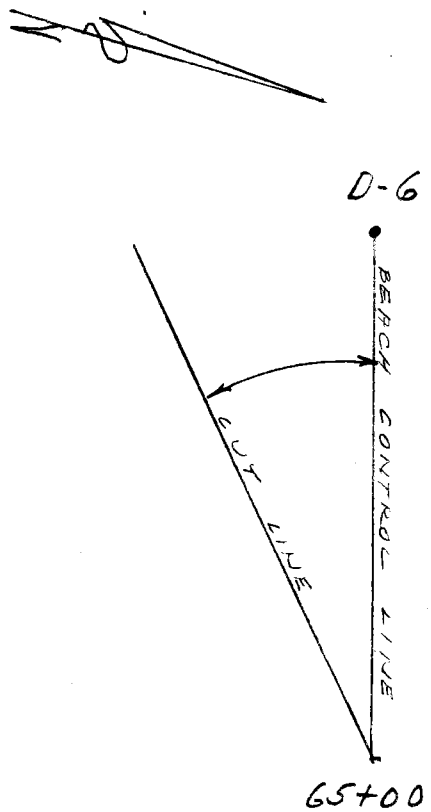
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
65+00	D-6	10:47	1	295	20	64	40	
			2	296	21	63	39	
			3	297	12	62	48	
			4	298	08	61	52	
			5	301	14	58	46	
			6	301	20	58	40	
			7	302	16	57	44	
			8	303	18	56	42	
			9	304	20	55	40	
			10	305	16	54	44	
			11	306	22	53	38	
			12	307	46	52	14	
			13	309	26	50	34	
			14	310	56	49	04	
			15	313	07	46	53	
			16	314	43	45	17	
			17	316	35	43	25	
			18	318	33	41	27	
			19	320	22	39	38	
			20	322	22	37	38	



RANGE = 80+00

Profile Notes Red. ____ Plotted ____ Job No. 3300.02 Division No. 11 F. B. 2428 Pg. 85
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-20-73
No. ____ 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.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
65+00	D-6		21	324	15	35	45	
			22	326	10	33	50	
			23	329	11	30	49	
			24	331	15	28	45	
			25	332	26	27	34	
			26	335	20	24	40	
			27	337	04	22	56	
			28	338	33	21	27	
			29	339	58	20	02	
		10:54	30	340	50	19	10	

F. B. 2428 Pg. 86 | Job No. 9300.02 | Division No. 11 | Notes Red. | Plotted | Profile

Survey of HYDRO SURVEY | 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

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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.	82+50
		1484				
	302	1478	308	1176		
82+50			22	126	Beach Cont. line	Sand
			24	124		29.0 R. toe cliff "
			23	125	10.0 R. L. brk sand	
			48	100	16.0 R. L. " "	
		6	96	52	43.0 R. L. "	
	-033	759	686	792	43.0 R. L. top 4'1x2	
					⊼ AT 80+00 SIGHT ON 82+50	
			30	46	47 FT. LEFT M.H.W.	
			56	20	76 " "	
			70	06	99 " "	
			82	-06	#1 28° 19'	
			86	-10	2 34 34	
			91	-15	3 40 51	
			104	-28	4 45 26	
			115	-39	5 51 31	
			127	-51	6 54 32	
			138	-62	7 58 27	
			150	-74	8 61° 24'	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2428 Pg. 87
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Chk'd R. MANOR Checked ____ Survey by English Notes Card Date 11-20-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

76L298 307 Cdb 12-62

PLEASE RETURN TO
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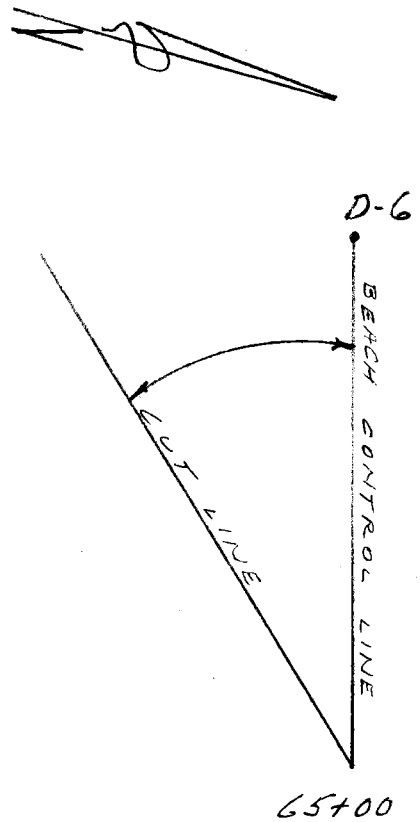
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
65+00	D-6	11:05	1	298	42	61	18	
			2	299	22	60	38	
			3	300	38	59	22	
			4	301	38	58	22	
			5	302	27	57	33	
			6	303	28	56	32	
			7	304	32	55	28	
			8	305	57	54	03	
			9	307	34	52	26	
			10	309	02	50	58	
			11	310	20	49	40	
			12	311	58	48	02	
			13	313	32	46	28	
			14	316	33	43	27	
			15	318	11	41	49	
			16	320	17	39	43	
			17	324	09	35	51	
			18	325	02	34	58	
			19	328	03	31	57	
			20	330	00	30	00	



RANGE = 82+50

Profile Notes Red ____ Plotted ____ Job No. 3300.02 Division No. 11 F. B. 2428 Pg. 89
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-20-73
No. ____ Date ____ Date ____ Map No. ____ Indexed 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					
65+00	D-6		21	331	42	28	18	
			22	333	37	26	23	
			23	335	10	24	50	
			24	336	10	23	50	
			25	337	22	22	38	
			26	339	27	20	33	
			27	342	10	17	50	
		11:13	28	342	52	17	08	

F. B. 2428 PG. 90 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
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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	85+00
		1478				
T.P.	500	1108	870	608		
85+00			65	46	Beach Cont. line	Sand
			24	87		27.0 R. BLK. "
		(+)	06	~~93~~ 117		29.0 R. " " (H.L.)
		(+)	06	~~93~~ 117		34.0 R. toe Cliff "
			78	33	14.0 L. Sand	
	-070	565	473	635	14.0 L. top 4' 1X2	
					⊼ AT 80+00 SIGHT ON 85+00	
			156	-100	#1 50° 29'	
			137	-81	2 47 42	
			124	-68	3 44 32	
			108	-52	4 40 13	
			89	-33	5 36 08	
			82	-26	6 33 34	
			70	-14	7 31 02	
			67	-11	8 27 49	
			65	-09	9 24° 08'	
			65	-09 ~~11~~	88 FT. LEFT	
			40	16	50 " "	
			28	28	20 " "	
			10	46	0 CONTROL LINE M.H.W.	

Profile Notes Red ____ Plotted ____ Job No. 030002 Division No. ____ F.B. 2428 Pg. 91
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Ck'd R. MANOR Checked ____ Survey by English Notes Coro Date 11-20-72
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed S. D. BAILEY Date JAN 11 1974

76L298 307 Cdb 12-62

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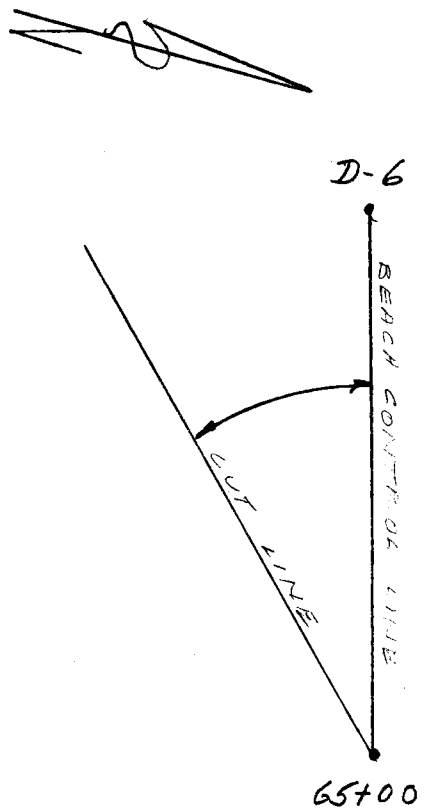
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
65+00	D-6	11:25	1	302	17	57	43	
			2	303	20	56	40	
			3	304	22	55	38	
			4	305	24	54	36	
			5	306	44	53	16	
			6	308	04	51	56	
			7	309	40	50	20	
			8	311	07	48	53	
			9	312	26	47	34	
			10	313	29	46	31	
			11	315	46	44	14	
			12	318	49	41	11	
			13	320	04	39	56	
			14	321	26	38	34	
			15	324	01	35	59	
			16	324	50	35	10	
			17	326	40	33	20	
			18	327	35	32	25	
			19	329	07	30	53	
			20	330	49	29	11	



RANGE = 85+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2428 Pg. 93
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-20-73
No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F. B. 2428 Pg. 94 | Job No. 2300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO. SURVEY Date Date No.

Survey by RICHARDS Notes RIT 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 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.
65700	D-6		21	333	28	26	32	
			22	335	15	24	45	
			23	336	28	23	32	
			24	337	33	22	27	
			25	338	28	21	32	
		11:31	26	339	31	20	29	

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.	87+50
		11 08				
T. P.	5 77	12 29	456	652		
87+50			57	66	Beach Cont. line	sand
			36	87		20.0R. brk "
			13	110		23.0R " "
			13	110	87	27.0R. toe Cliff
		3	81	42	26.0L. Sand	
	-0 70	629	530	699	26.0L top 4' 1X2	
					⊼ AT 85+00 SIGHT ON 87+50	
			17	46	23 FT LEFT M.H.W.	
			45	18	52 " "	BEGIN ROCKS
			50	13	80 " "	"
			56	07	116	"
			62	01	#1 23° 36'	"
			67	04	2 26 28	"
			70	-07	3 28 56	"
			91	-28	4 32 21	"
			95	-32	5 36 01	"
			125	-62	6 38 36	ON TOP OF LARGE VISABLE ROCK
			61	02	7 40 25	OUTSIDE " " "
			139	-76	8 44 04	"
			148	-85	9 45 19	
			16.4	-101	10 46° 42'	"

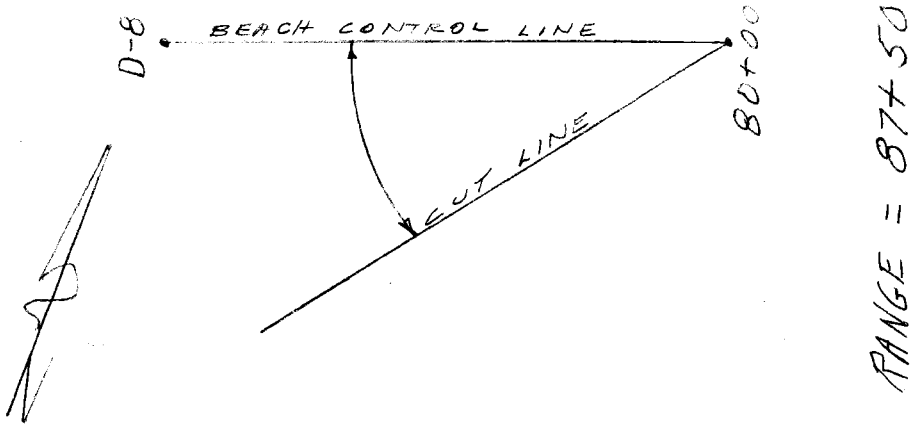
Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2428 Pg. 95
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Checked ____ Survey by English Notes Caro Date 11-20-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 0300.02 Division No. 11 | F. B. 2428 Pg. 97

Date _____ Date _____ Survey of HYDRO. SURVEY

X-Sec. No. _____ Notes Chkd. _____ Checked _____ Survey by RICHARDS Notes R.T. Date 11-20-73

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.	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					
80+00	D-8	11:52	1	283	37	76	23	
			2	284	06			
			3	284	48			
			4	285	37			
			5	286	13			
			6	287	03			
			7	287	53			
			8	288	45			
			9	289	43			
			10	290	52			
			11	291	47			
			12	292	38			
			13	293	48			
			14	295	04			
			15	296	25			
			16	297	47			
			17	299	17			
			18	300	21			
			19	302	17			
			20	303	57			

76L298 307 Cdb 12-62

F. B. 2428 Pg. 98 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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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					
80+00	D-8		21	305	15			
			22	306	30			
			23	308	13			
			24	310	22			
			25	312	52			
		ok	26	312	10			
		11:58	27	314	42			

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.	90+00
		1229				
D-9	332	1227	334	895	D-9 El = 8.95	FB. 2243-189
90+00			37	86	Beach Cont. line	Sand
			12	111		21.0R. toe Cliff "
		9	81	42	36.0L. . Sand	
	-110	587	530	697	36.0L. top 4' 1x4	
					⊼ AT 87+50 SIGHT ON D9 (88+93.92)	
			150	-91	#1 43° 10'	
			127	-68	2 40 52	
			126	-67	3 39 12	
			118	-59	4 36 47	
			97	-38	5 33 55	
			92	-33	6 31 29	
			81	-22	7 29 11	
			79	-20	8 26 34	
			77	-18	9 23 29	
			83	-24	10 20 37	
			73	-14	11 17 28	
			67	-08	12 12° 39'	
			49	10	92 FT LEFT	
			36	23	61	
			13	46	33 FT LEFT	

Profile Notes Red ____ Plotted ____ Job No. 030002 Division No. ____ F.B. 2428 Pg. 99
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Ch'd R. MANOR Checked ____ Survey by English Notes Caro Date [illegible]
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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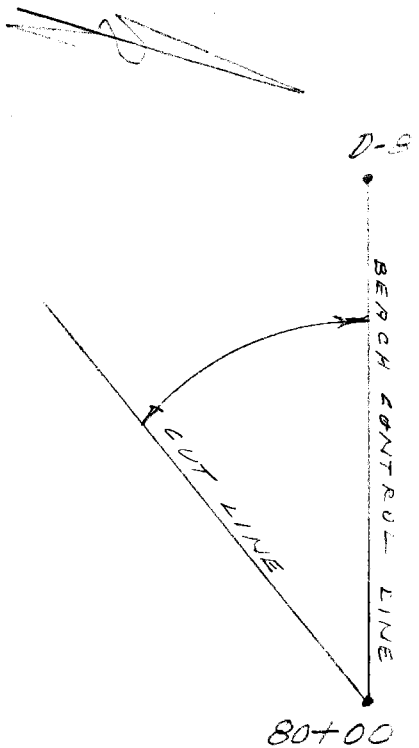
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. 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					
80+00	D-8	12:13	1	287	13			
			2	288	00			
			3	288	44			
			4	289	38			
			5	290	15			
			6	291	09			
			7	291	55			
			8	292	41			
			9	293	59			
			10	295	12			
			11	296	17			
			12	297	20			
			13	298	56			
			14	300	35			
			15	301	55			
			16	302	55			
			17	304	04			
			18	305	46			
			19	307	11			
			20	309	27			



RANGE = 90+00

Profile No.____ Notes Red.____ Plotted____ Job No. 2300 03 Division No. 11 F. B. 2428 Pg. 101

X-Sec. No.____ Date____ Notes Chkd.____ Date____ Checked____ Date____ Survey of HYDRO SURVEY Survey by RICHARDS Notes by G. D. BAILEY Date 11-20-73 Map No.____ Indexed____ Date JAN 11 1974

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					
80+00	D-8		21	311	12			
			22	311	55			
			23	313	39			
			24	316	00			
			25	316	28			
			26	318	53			
			27	320	40			
			28	322	08			
			29	323	46			
		12:19	30	324	23			

F. B. 2428 Pg. 102 Job No. 02300.02 Division No. 11 Notes Red. Plotted Profile

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

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

Indexed D. BAILEY Date JAN 11 197 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 UHARRIET Date 11-20-73
Date JAN 17 1974	Indexed G. D. BAILEY JAN 11 1974

F. B. 2428 PG. 103

TIDE GAGE READINGS
NOV. 20, 1973
TIME - P.S.T.
DATUM - M.L.L.W.

TIME	TIDE
6:00	GAGE NOT OPERATING
6:30	
7:00	
7:30	
8:00	
8:30	
9:00	2.9
9:30	2.5
10:00	1.9
10:30	1.4
11:00	1.0
11:30	0.6
12:00	0.4
12:30	0.3
1:00	0.2
1:30	0.4
2:00	0.6

NOTE: TIDE GAGE IS LOCATED AT THE U.S. ARMY OCEAN RESEARCH FACILITY, U.S.N., POINT MUGU.

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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DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-69

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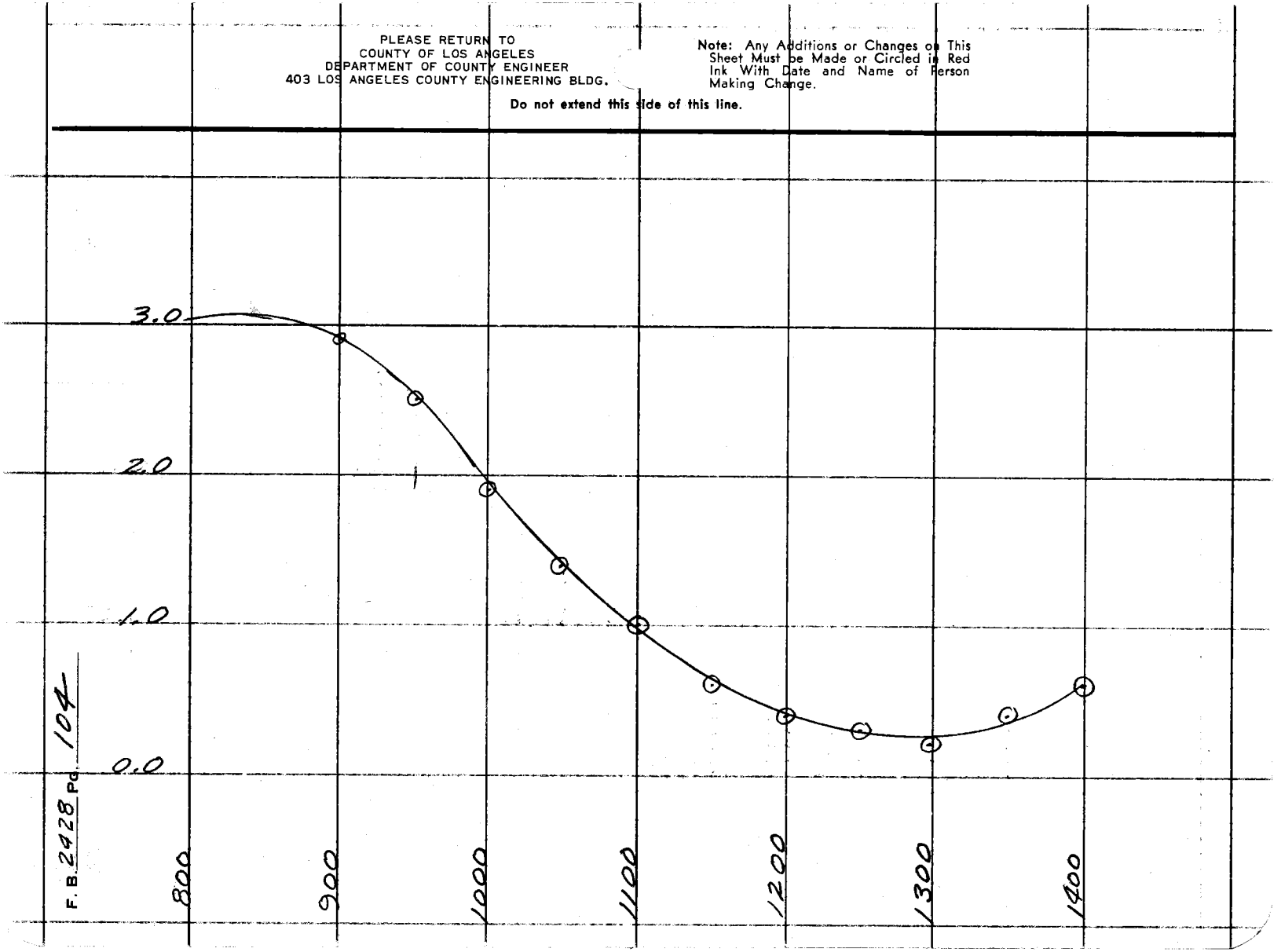
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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 this side of this line.



F. B. 2428 Pg. 104

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.	92+50
		12 27				
92+50			35	88	Beach Con't line Sand	
		(+)	13	136		47.0 R. toe cliff " (H.L.)
			79	44	30' LEFT Sand	
	+ 0 56	7 60	523	7 04	30 FT. L. top 4' 1x2	
			30	46	29 FT LEFT M.H.W.	
					⊼ AT 90+00 SIGHT ON 92+50	
			60	16	#1 14° 22'	
			76	00	2 20 34	
			90	-14	3 26 38	
			118	-42	4 32 12	
			114	-38	5 39 24	ROCK
			130	-54	6 44 11	
			132	-56	7 49 48	
			131	-55	8 54 42	
			147	-71	9 58 44	
			158	-82	10 62° 16'	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2428 Pg. 105
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Ck'd R. MANOR Checked ____ Survey by English Notes Carc Date 11-21-73
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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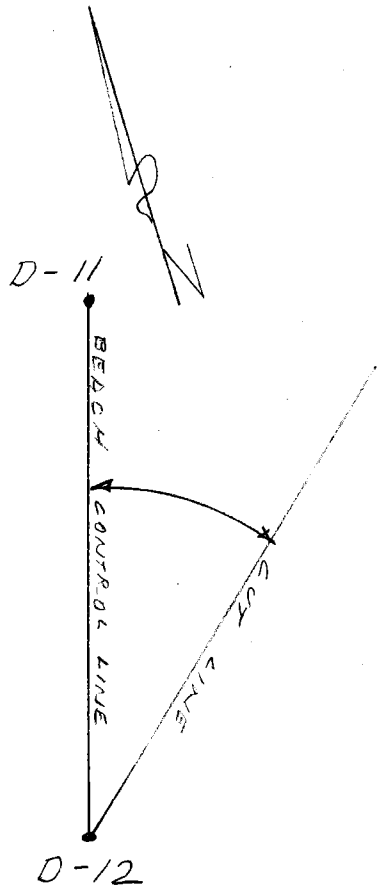
Do not extend notes this side of this line.

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					
D-12	D-11	8:13	1	126	44			
			2	125	59			
			3	125	00			
			4	124	04			
			5	122	43			
			6	120	20			
			7	119	11			
			8	117	23			
			9	115	02			
			10	113	00			
			11	110	52			
			12	108	52			
			13	106	43			
			14	103	12			
			15	100	03			
			16	96	30			
			17	93	47			
			18	90	05			
			19	85	45			
			20	81	56			



RANGE = 92+50

Profile Notes Red ____ Plotted ____ Job No. 0304.02 Division No. 11 F. B. 2428 Pg. 107
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes CITY Date 11-21-73
No. ____ Date ____ Date ____ Map No. ____ Indexed D. D. BAILEY Date JAN 11 1974

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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					
D-12	D-11		21	76	13			
			22	71	06			
			23	66	13			
			24	61	31			
			25	57	09			
			26	52	55			
			27	48	15			
			28	44	55			
			29	41	58			
			30	39	08			
			31	35	00			
			32	33	25			
		8:21	33	32	21			

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

Plotted ____ Date ____ Checked ____ Date ____

Notes Red. ____ Date ____ Notes Chkd. ____ Date ____

Division No. 11 Job No. 0300.02

Survey of HYDRO SURVEY

Survey by RICHARDS Notes A.T.

Indexed D. BAILEY Date JAN 11 1974

F. B. 2428 Pg. 108

76-L-298 CE 307 8-70

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Range Line 95+00

STATION	B. S.	H. I.	F. S.	ELEV. =	M.L.L.W.	
		12 27				
T.P.	706	1632	301	926		
95+00			47	116	Beach Con't Line Sand	
			38	125		9.0 R. toe Cliff "
			86	77	39.0 L. Sand	
	-188	806	638	994	39.0 L. top 4' 1x2	
					⊼ AT 90+00 SIGHT ON 95+00	
			162	-81	1 47° 43'	
			150	-69	2 44 57	
			145	-64	3 40 29	
			141	-60	4 36 16	
			118	-37	5 31 15	
			115	-34	6 25 11	
			112	-31	7 20 02	
			86	-05	8 16 13	
			77	04	9 13 27	
			64	17	10 10° 47'	
			35	46	64 FT. LEFT M.H.W.	

Profile Notes Red ____ Plotted ____ Job No. 03000.02 Division No. ____ F.B. 2428 Pg. 109
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Checked R. MANOR Checked ____ Survey by English Notes Carp Date 11-26-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed J. D. BAILEY Date JAN 11 1974

76L298 307 Cdb 12-62

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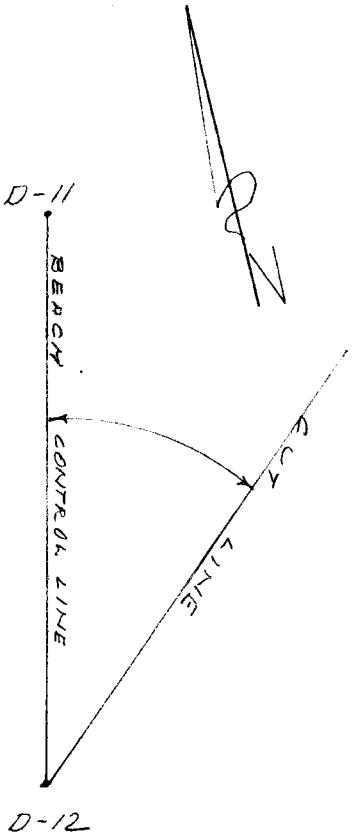
Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
D-12	D-11	8:30	1	133	37			
			2	132	55			
			3	131	50			
			4	131	00			
			5	129	37			
			6	128	28			
			7	127	27			
			8	125	58			
			9	123	07			
			10	121	07			
			11	119	04			
			12	115	22			
			13	112	20			
			14	108	25			
			15	104	20			
			16	99	34			
			17	94	48			
			18	89	24			
			19	82	23			
			20	75	26			



RANGE = 25+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2428 Pg. 111
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-21-73
No. ____ Date ____ Date ____ Map No. ____ Index O. D. BAILEY Date JAN 11 1974

F. B. 2428 PG. 112 | 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 _____ Date _____ Date _____ No. _____

761.298 307 Cdb 12-62

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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.
D-12	D-11		21	69	18			
			22	62	33			
			23	57	20			
			24	50	56			
			25	44	56			
			26	39	10			
			27	35	01			
			28	31	40			
			29	28	12			
		8.37	30	26	30			

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.	97+50
		16 32				
T.B.M. #11			1 46	1486	T.B.M. #11 El. = 14.87 F.B. 2243-189	
	000	14 87		1487		
97+50			50	99	Beach Con't line sand	
			38	111		36.0R. toe cliff "
			85	64	34.0L. Sand	
	- 0 71	8 02	614	873	34.0L. top 4' 1x2	
			34	46	50 FT LEFT M.H.W.	
					T AT 90+00 SIGHT ON 95+00	
			59	21	1 15° 19'	
			76	04	2 16 56	
			84	-04	3 19 10	
			96	-16	4 22 34	
			105	-25	5 24 58	
			116	-36	6 28 27	
			127	-47	7 32 10	
			135	-55	8 35 38	
			148	-68	9 39 14	
			145	-65	10 42° 48'	

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____ F.B. 2428 Pg. 113
No. ____ Date ____ Date ____ Survey of Sand Survey
X-Sec. Notes Checked ____ Survey by Elizabeth Notes Cane Date 11-21-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

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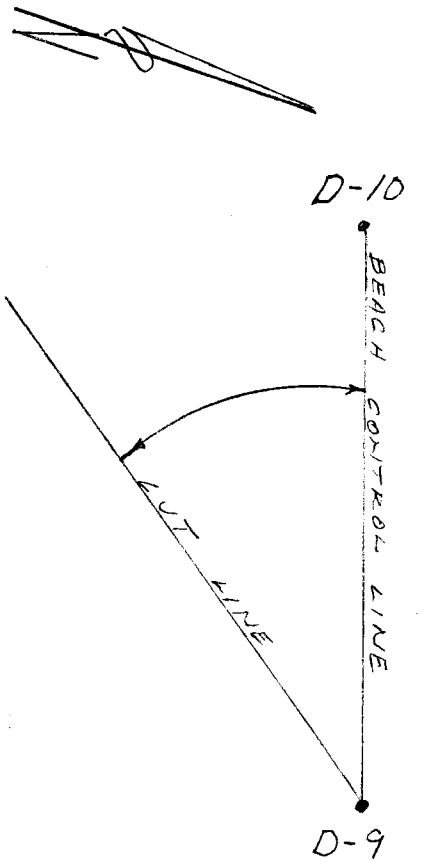
Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
D-9	D-10	8:56	1	251	30			
			2	252	25			
			3	253	27			
			4	254	31			
			5	255	27			
			6	256	43			
			7	258	15			
			8	259	57			
			9	261	12			
			10	262	28			
			11	264	36			
			12	266	04			
			13	269	00			
			14	271	30			
			15	274	42			
			16	278	46			
			17	282	33			
			18	287	02			
			19	290	51			
			20	296	36			



RANGE = 97+50

Profile Notes Red ____ Plotted ____ Job No. 2300.02 Division No. 11 F. B. 2428 Pg. 115

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes RT Date 11-21-73

No. ____ Date ____ Date ____ Map No. ____ Index 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					
D-9	D-10		21	300	10			
			22	306	16			
			23	311	24			
			24	315	02			
			25	319	45			
			26	324	21			
			27	327	59			
			28	332	02			
			29	335	14			
			30	338	07			
		9:03	31	340	40			

F. B. 2428 Pg. 116 Job No. 300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO. SURVEY Date 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

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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.	100+00
		1487				
T.P.	442	1392	537	950		
100+00			49	90	Beach Cont. line	Sand
			41	98		37.0 R. toe Cliff "
			75	64	45.0 L. Sand	
	-198	693	501	891	45.0 L. toe 4' 1x2	
				198 693	⊼ AT 90+00 SIGHT ON 95+00	
			140	-71	1 49° 20'	
			141	-72	2 44 47	
			128	-59	3 41 32	
			114	-45	4 38 09	
			91	-22	5 35 42	
			82	-13	6 33 03	
			69	00	7 30 09	
			66	03	8 27 46	
			58	11	9 25 25	
			51	18	10 23° 36'	
			23	46	70 FT. LEFT M.H.W.	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2428 Pg. 117
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Chk'd R. MANOR Checked ____ Survey by English Notes Cafe Date 11-21-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

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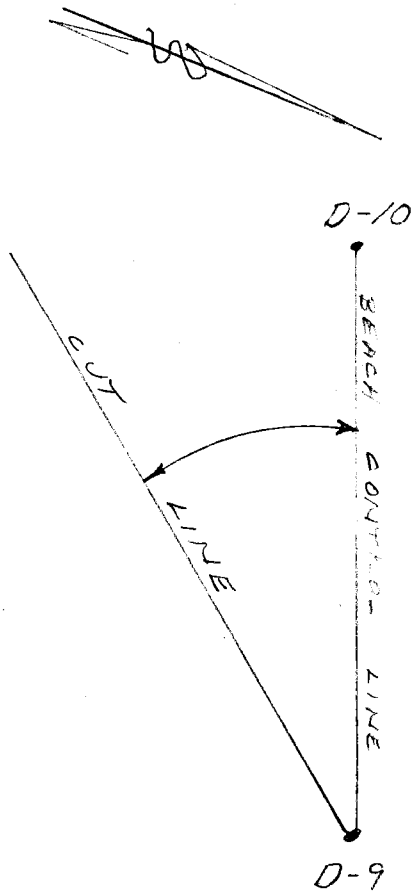
Do not extend notes this side of this line.

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					
D-9	D-10	9:13	1	257	45			
			2	258	48			
			3	260	13			
			4	261	57			
			5	263	45			
			6	265	01			
			7	266	38			
			8	268	39			
			9	270	43			
			10	272	48			
			11	274	00			
			12	277	37			
			13	280	21			
			14	283	05			
			15	286	10			
			16	292	23			
			17	295	00			
			18	299	23			
			19	303	03			
			20	306	30			



RANGE = 100+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2428 Pg. 119
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes RJS Date 11-21-73
No. ____ Date ____ Date ____ Map No. ____ Indexed D. 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. 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					
D-9	D-10		21	309	35			
			22	311	48			
			23	315	28			
			24	318	24			
			25	322	06			
			26	325	09			
			27	327	32			
			28	329	11			
		9:20	29	331	11			

F. B. 2428 Pg. 120 Profile

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

Survey of HYDRO SURVEY Date Date X-Sec.

Survey by RICHARDS Notes Notes Chkd. Checked No.

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

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.	102 + 50
		13 92				
T.P.	4 77	12 41	6 28	7 64		
102+50			3 4	9 0	Beach cont. line	Sand
			2 9	9 5		5.0 R. toe cliff "
			7 5	4 9	45.0 L. Sand	
	−0 56	6 79	5 12	7 29	45.0 L. top 4' 1x2	
			2 2	4 6	49 FT LEFT M.H.W.	
					π AT 90+00 SIGHT ON 95+00	
			4 7	2 1	68 FT. LEFT	BEGIN ROCKS
			6 0	0 8	1 31° 23'	
			6 6	0 2	2 33 10	
			8 9	−2 1	3 35 49	
			9 8	−3 0	4 38 03	
			1 1 2	−4 4	5 40 17	
			1 2 8	−6 0	6 43 10	
			1 4 5	−7 7	7 45 19	
			1 6 8	−10 0	8 47° 47'	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2428 PG. 12
No. ____ Date ____ Date ____ Survey of ____ Notes ____ Date ____
X-Sec. Notes R. MANOR Checked ____ Survey by ____
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed D. BAILEY Date JAN 11 1974

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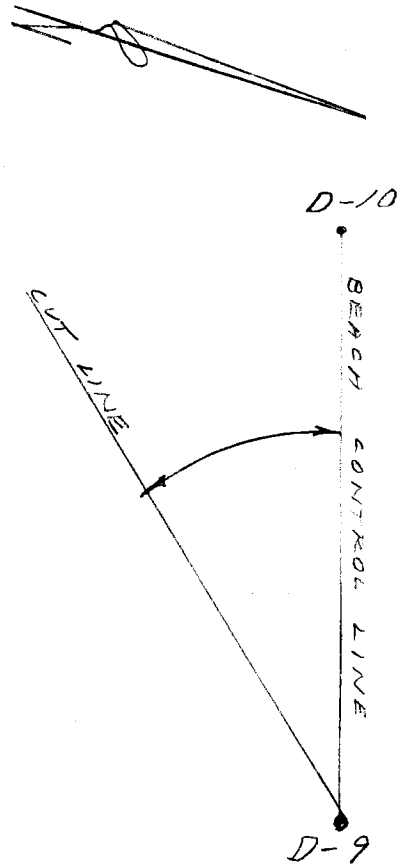
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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					
D-9	D-10	9:38	1	263	01			
			2	264	35			
			3	265	51			
			4	267	21			
			5	268	52			
			6	270	45			
			7	272	32			
			8	274	36			
			9	276	23			
			10	278	16			
			11	281	20			
			12	285	40			
			13	288	16			
			14	293	50			
			15	296	22			
			16	299	18			
			17	302	09			
			18	305	21			
			19	308	57			
			20	311	25			



RANGE = 102+50

Profile Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 11 F. B. 2428 Pg. 123
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-21-73
No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F. B. 2428 PG. 124 | 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

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.
D-9	D-10		21	313	50			
			22	315	18			
			23	318	59			
			24	321	22			
			25	322	20			
			26	324	41			
			27	326	21			
		9.93	28	327	31			

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.	104+49 (D13)
		12 41				
T.P.	495	12 57	479	762		
104+49			62	64	Beach Cont. line	Sand
			43	83		21.0R toe Cliff "
			82	44	21.0L. Sand	
	0 00	~~7~~ 6 8 75	582	~~7~~ 6 75	21.0L. top 4' 1x2	
					⊼ AT 90+00 SIGHT ON 95+00	
			143	-~~6~~ 7 8	#1 44° 14'	
			126	-~~4~~ 5 ~~8~~ 9	2 42 45	
			119	-~~4~~ 5 1	3 41 23	
			121	-~~4~~ 5 3	4 39 43	
			98	-~~2~~ 3 ~~0~~ 1	5 37 47	
			75	-0 ~~3~~ 8	6 36 09	
			70	-0 ~~8~~ 3	7 34 50	
			61	~~1~~ 0 7	8 33 45	
			64	~~1~~ 0 4	9 32° 47'	
			56	~~2~~ 1 2	45 FT. LEFT EDGE OF ROCK	
			32	~~4~~ 3 6	27	

Profile Notes Red ____ Plotted ____ Job No. 030002 Division No. ____ F.B. 2428 Pg. 125
No. ____ Date ____ Date ____ Survey of Exploratory Survey
X-Sec. Notes Checked ____ Checked ____ Survey by Elm Hill Notes Care Date 11-11-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed S. D. BAILEY Date JAN 11 1974

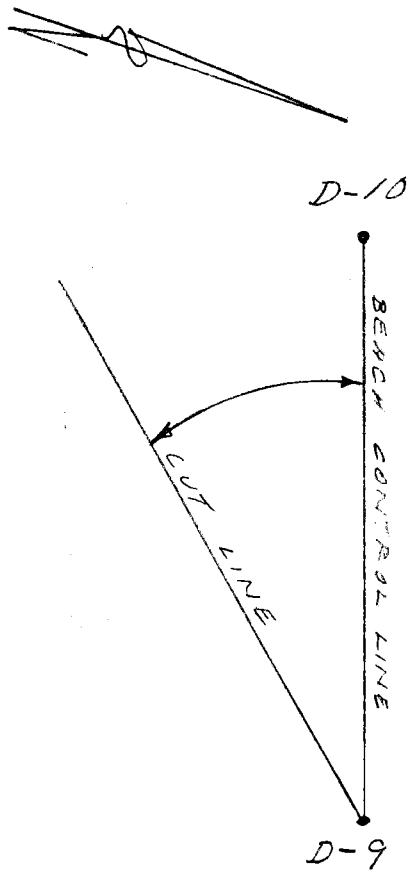
76L298 307 Cdb 12-62

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					
D-9	D-10	9:51	1	275	52			
			2	276	58			
			3	277	00			
			4	279	04			
			5	280	39			
			6	282	14			
			7	284	11			
			8	285	59			
			9	287	37			
			10	289	25			
			11	290	40			
			12	292	09			
			13	293	45			
			14	294	36			
			15	296	04			
			16	298	11			
			17	301	25			
			18	304	19			
			19	306	04			
			20	307	22			



RANGE = 104+49.25

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2428 Pg. 127
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-21-73
No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F. B. 2428 PG. 128 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 LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD No.
D-9	D-10		21	310	08			
			22	314	00			
			23	316	13			
			24	317	36			
			25	319	56			
			26	321	30			
			27	323	28			
			28	325	00			
		9157	29	325	19			

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.	106+11.21 (0-4)
		12 57				
T.P.	458	11 97	518	7 39		
106+11.21			58	6 2		Beach Cont. line Sand
			38	8 2		12.0 R toe Cliff "
			74	4 6	18.0 L.	Sand M.H.W.
	- 089	6 34	474	7 23	18.0 L.	top 4' 1X2
						⊼ AT D12 (103+15) SIGHT ON D13 (104+49)
			48	1 5	44 FT LEFT	BEGIN ROCKS
			57	0 6	*1	5° 48'
			82	-1 9	2	11 38
			112	-4 9	3	18 14
			129	-6 6	4	23 03
			135	-7 2	5	26 08
			162	-9 9	6	27 58
			154	-9 1	7	31 12

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____
No. ____ Date ____ Date ____ Survey of [illegible] Survey
X-Sec. Notes [illegible] Checked ____ Survey by [illegible] Notes [illegible] Date [illegible]
No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F. B. 2428 PG. 129

JAN 11 1974

76L298 307 Cdb 12-62

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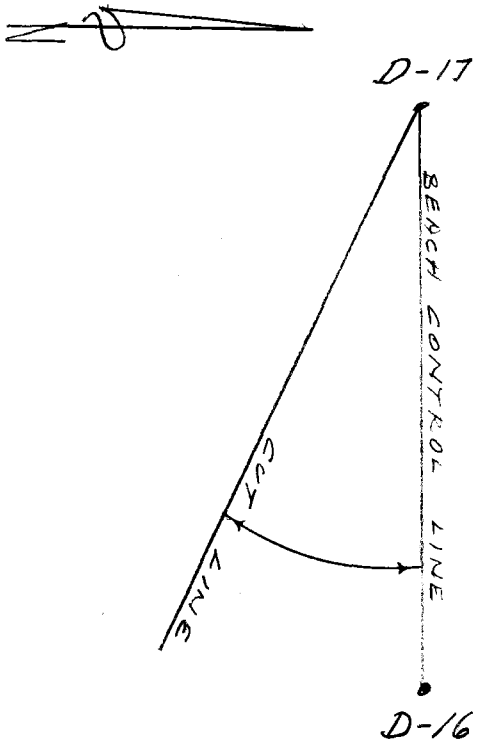
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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						
D-17	D-16	10:24	1	44	58				
			2	44	38				
			3	42	49				
			4	43	46				
			5	43	28				
			6	43	02				
			7	42	45				
			8	42	02				
			9	41	42				
			10	41	15				
			11	40	23				
			12	39	48				
			13	38	48				
			14	38	14				
			15	37	01				
			16	36	07				
			17	35	04				
			18	33	42				
			19	32	48				
		OK	20	32	51				



RANGE = 106 + 11.21

Profile Notes Red.____ Plotted____ Job No. 2300.02 Division No. 11 F. B. 2428 Pg. 131

No.____ Date____ Date____ Survey of HYDRO. SURVEY

X-Sec. Notes Chkd.____ Checked____ Survey by RICHARDS Notes Date 11-21-73

No.____ Date____ Date____ Map No.____ Indexed D. D. BAILEY Date JAN 1 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 Deg.	Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
D-17	D-16		21	31	12			
			22	30	42			
			23	30	01			
			24	29	46			
			25	27	29			
			26	26	26			
			27	24	17			
			28	20	09			
			29	17	06			
			30	14	01			
			31	11	17			
			32	07	32			
		10:34	33	04	06			

F. B. 2428 Pg. 132 Job No. 8300.02 Division No. 11 Notes Red. Plotted Profile No.

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

Survey by RICHARDS Notes RT Notes Chkd. Date

Indexed G. D. BAILEY Date JAN 11 1974 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.	107+42.28 (D-15)
		11 97				
T.P.	404	11 35	466	731		
D-15	349	11 44	340	795	D-15 Ex = 7.95	F.B. 2243 -190
107+42.28			54	60	Beach	Con't. line sand
			36	78		14.0R. toe Cliff "
		60	73	41	21.0L. Sand	
	-105	5 97	442	702	21.0L. top 4' 1x2	
					⊼ AT D 12	SIGHT on D 13
			168	-108	1 20° 29'	
			156	-96	2 18 12	
			147	-87	3 16 15	
			128	-68	4 12 51	
			112	-52	5 10 23	
			94	-34	6 7 51	
			75	-15	7 4 51	
			64	-04	8 1 24 TO LEFT	
			56	04	9 1° 55 TO RIGHT	
			38	22	43 FT. LEFT	
			14	46	17 " " M.H.W.	

Profile Notes Red ____ Plotted ____ Job No. 03 00 02 Division No. ____ F.B. 2428 Pg. 133
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Checked ____ Survey by English Notes Caro Date 11-21-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F. B. 2428 PG. 134 | Job No.____ Division No.____ Notes Red____ Plotted____ Profile

Survey of____ Date____ Date____ No.____

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

Indexed____ Date____ Date____ Date____ No.____

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.

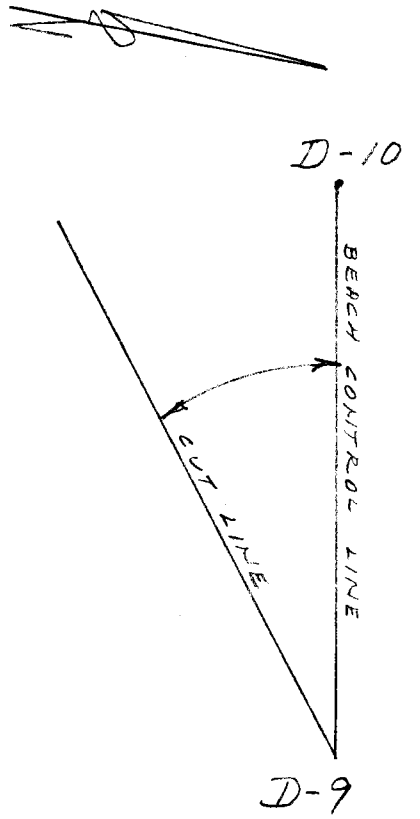
76L298 307 Cdb 12-62

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					
D-9	D-10	11:00	1	285	27			
			2	286	08			
			3	286	56			
			4	287	42			
			5	288	30			
			6	289	31			
			7	290	30			
			8	291	30			
			9	292	34			
			10	293	52			
			11	295	03			
			12	296	17			
			13	298	01			
			14	299	23			
			15	300	57			
			16	302	47			
			17	304	17			
			18	305	31			
			19	307	00			
			20	308	28			



RANGE = 107+42.28

Profile Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 11 F.B. 2428 Pg. 135
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-21-73
No. ____ Date ____ Date ____ Map No. ____ Indexed A. 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.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
D-9	D-10		21	309	53			
			22	311	22			
			23	313	04			
			24	314	59			
			25	317	11			
			26	317	50			
			27	319	25			
			28	320	44			
			29	322	52			
			30	324	15			
		1108	31	325	11			

F. B. 2428 Pg. 136 Job No. 2300.02 Division No. 11 Notes Red. ____ Plotted ____ Profile ____

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

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

Indexed D. 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.

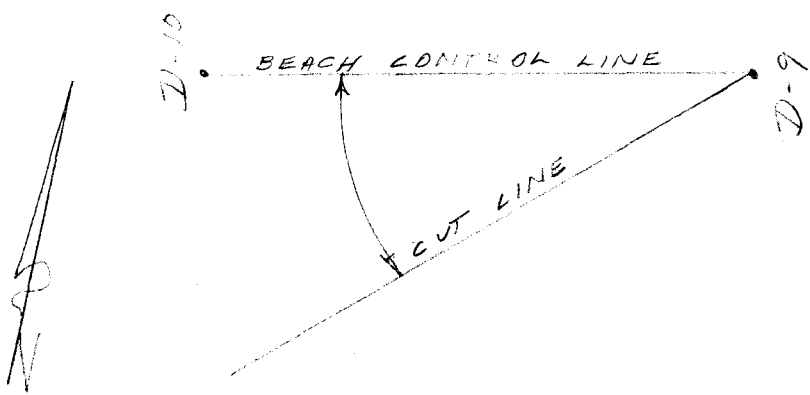
Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	108+65.86
		11 44				
T. P.	390	11 80	354	790		
108+65.86			47	71	Beach Cont. line	Sand
			28	90		15.0 R. toe cliff "
			77	41	29.0 L. Sand	
	-088	580	512	668	29.0 L. top 4' 1X2	
					* AT D 17 (111+73.)	SIGHT ON D16 (109+89.4)
			12	46	25 FT LEFT M.H.W.	
			44	14	50 " "	BEGIN ROCKS
			56	02	#1 8° 34'	
			68	-10	2 14 46	
			77	-19	3 20 40	
			97	-39	4 25 23	
			102	-44	5 28 57	
			111	-53	6 33 49	
			111	-53	7 35 37	
			120	-62	8 37 32	
			111	53	9 40° 12'	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2428 PG. 137
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chk'd JAN 17 1974 Checked ____ Survey by English Notes Cano Date 11-21-73
No. ____ Date ____ Date ____ Map No. ____ Indexed D. BAILEY Date JAN 11 1974

Profile No.	Notes Red.	Plotted	Job No. 0300.02	Division No. 11	F. B. 2428 Pg. 139
	Date	Date	Survey of HYDRO. SURVEY		
X-Sec. No.	Notes Chkd.	Checked	Survey by RICHARDS	Notes R.T.	Date 11-21-73
	Date	Date	Map No.	Indexed D. BAILEY	Date JAN 11 1974



RANGE = 108+65.86

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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
D-9	D-10	11:18	1	293	51			
			2	294	41			
			3	295	35			
			4	296	33			
			5	297	35			
			6	298	41			
			7	299	45			
			8	300	47			
			9	301	00			
			10	303	23			
			11	305	00			
			12	306	31			
			13	308	17			
			14	310	02			
			15	311	01			
			16	312	06			
			17	313	47			
			18	314	58			
			19	316	17			
			20	317	52			

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					
D-9	D-10		21	319	07			
			22	320	33			
			23	322	12			
			24	323	20			
			25	324	24			
			26	325	37			
			27	326	37			
		11:24	28	327	21			

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date Notes Chkd. Date

Division No. 11 Job No 2300.02 Notes JAN 11 1974 Date

Survey of HYDRO SURVEY

Survey by RICHARDS

Indexed G.D. BAILEY

F. B. 2428 PG. 140

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.	109+89.44 (D-16)
		11 80				
T.P.	228	11 94	214	9 66		
109+89.44			51	68	Beach Cont. line	sand
			27	92		24.0R. toe cliff "
		8	84	35	29.0L. Sand	
	-030	578	586	608	29.0L. top 4' 1x2	
					⊼ AT D 17 SIGHT ON 109+89.44 (D-16)	
			160	-102	1 57° 10'	
			151	-93	2 55 29	
			141	-83	3 53 47	
			135	-77	4 51 20	
			124	-66	5 47 24	
			111	-53	6 43 07	
			85	-27	7 39 34	
			69	-11	8 33 33	
			63	-05	9 27 35	
			50	08	10 19° 55'	
			50	08	60 FT. LEFT	
			38	20	40 " "	
			12	46	22 " " m.H.W.	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2428 Pg. 141.
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Ck'd R. MANOR Checked ____ Survey by English Notes Caro Date 11-21-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Index G. D. BAILEY Date JAN 11 1974

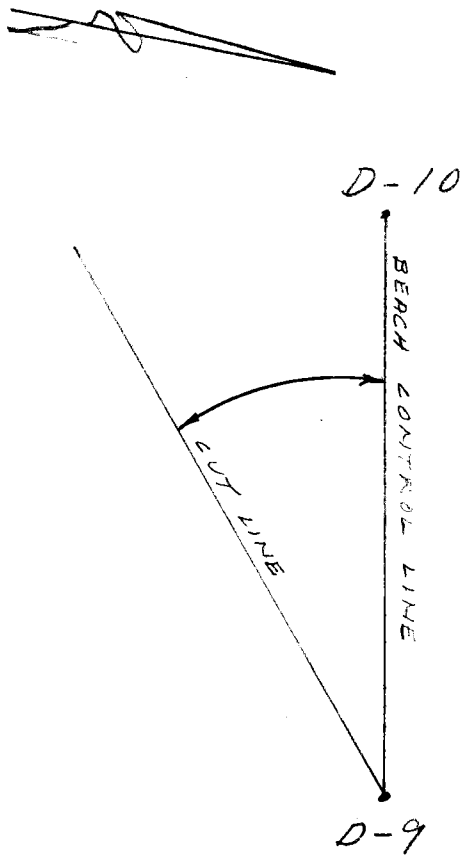
76L298 307 Cdb 12-62

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 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					
D-9	D-10	11:31	1	303	18			
			2	304	10			
			3	305	08			
			4	305	57			
			5	306	57			
			6	308	00			
			7	309	02			
			8	310	03			
			9	311	27			
			10	312	41			
			11	313	56			
			12	314	59			
			13	316	15			
			14	317	18			
			15	318	34			
			16	319	44			
			17	320	36			
			18	321	30			
			19	322	24			
			20	323	04			



RANGE = 109+89.44

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2428 Pg. 143
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes ____ Date 11-21-73
No. ____ Date ____ Date ____ Map No. ____ Indexed 2 D. BAILEY Date JAN 11 1974

F. B. 2428 Pg. 144 | Job No. 9300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

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

Survey by RICHARDS Notes R.T. JAN 11 1974 Notes Chkd. _____ Checked _____ X-Sec.

Indexed G. D. BAILEY 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.
D-9	D-10		21	324	26			
			22	325	16			
			23	326	52			
			24	328	19			
		11:38	25	329	22			

Do not extend notes this side of this line.

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L298 307 Gdb 12-62

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 11-21-73
Date JAN 17 1974	Indexed G. D. BAILEY JAN 11 1974

F. B. 2428 PG. 145

TIDE GAGE READINGS
NOV. 21, 1973
TIME - P.S.T.
DATUM - M.L.L.W.

TIME	TIDE
6:00	GAGE NOT OPERATING
6:30	
7:00	
7:30	
8:00	
8:30	
9:00	3.9
9:30	3.4
10:00	2.8
10:30	2.2
11:00	1.6
11:30	1.0
12:00	0.6
12:30	0.4
1:00	0.2
1:30	0.0
2:00	0.0

NOTE: TIDE GAGE IS LOCATED AT THE U.S. ARMY OCEAN RESEARCH FACILITY, U.S.N., POINT MUGU.

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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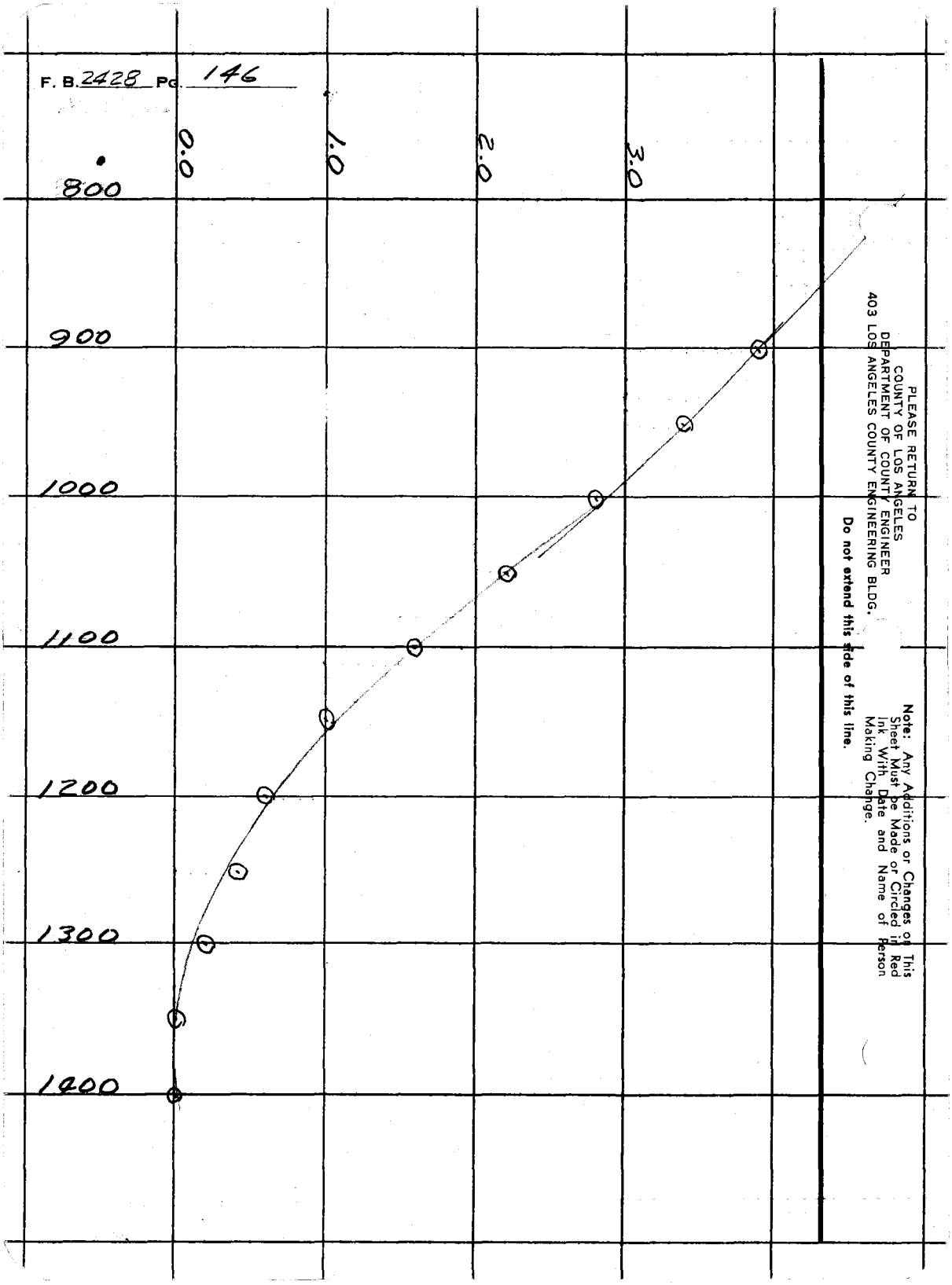
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-69

F. B. 2428 Pg. 146



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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.

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.	112+50
		11 94				
T.P.	6 17	16 47	1 64	10 30		
D-17			8 38	8 09	D-17 El. = 8.08	F.B. 2243-190
T.P.	9 00	17 08		8 08		
112+50			62	10 9	Beach Cont. line	Sand
			58	11 3		4.0 R. toe Cliff "
			10 7	6 4	38.0 L. Sand	
	2 13	10 67	8 54	8 54	38.0 L. top 4' 1x2	
			6 1	4 6	⊼ ON D18 SIGHT ON D-17 52 FT. LEFT M.H.W.	
			8 0	2 7	#1 3° 35'	
			10 1	0 6	2 5 20	
			7 3	3 4	3 7 07	
			11 5	-0 8	4 8 17	
			13 7	-3 0	5 10 10	
			14 8	-4 1	6 13 31	
			15 9	-5 2	7 13 57	
			17 1	-6 4	8 15° 31'	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 030002 Division No. ____ F.B. 2428 Pg. 147

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

Notes Ch'd. R. MANOR Checked ____ Survey by English Notes Carp Date 11-27-73

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

76L298 307 Cdb 12-62

PLEASE RETURN TO
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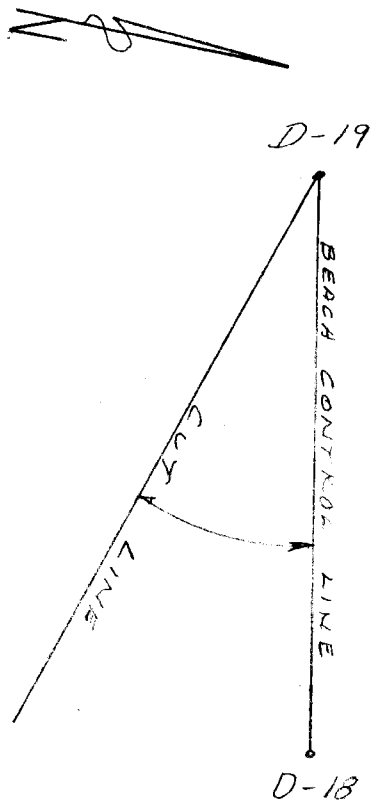
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.	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					
D-19	D-18	8:10	1	41	44			
			2	40	59			
			3	39	51			
			4	38	58			
			5	38	08			
			6	37	10			
			7	36	18			
			8	35	05			
			9	34	07			
			10	32	49			
			11	32	08			
			12	30	07			
			13	29	04			
			14	27	58			
			15	26	44			
			16	25	56			
			17	24	18			
			18	22	57			
			19	21	27			
			20	20	19			



RANGE = 112 + 50

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2428 Pg. 149
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R. T. Date 11-27-73
No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F. B. 2428 PG. 150 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

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Inst. At Don't Punch	Sight On Don't Punch	Time Don't Punch	Angle No Don't Punch	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
D-19	D-18		21	19	01			
			22	18	04			
			23	16	57			
			24	15	50			
			25	15	29			
			26	15	07			
		8:47	27	13	40			

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.	115+00
		17 08				
T.P.	480	17 66	422	1286		
115+00			56	121	Beach Con't. line	Sand
			46	131		38.0 R. toe Cliff "
			53	124	32.0 L. brk. sand	
			111	66	65.0 L. "	
	1 46	10 31	881	885	65.0 L. top 4' 1x2	
					⊼ AT D18 SIGHT ON D17	
			188	-85	#1 24° 38'	
			183	-80	2 22 20	
			168	-65	3 20 26	
			147	-44	4 19 02	
			155	-52	5 16 34	
			118	-15	6 14 31	
			115	-12	7 12 54	
			107	-04	8 10 01	
			90	13	9 7 28	
			80	23	10 6° 27'	
			57	46	79 FT. RT. M.H.W.	

Profile Notes Red ____ Plotted ____ Job No. 030002 Division No. ____ F.B. 2428 PG. 151
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Clr'd. R. MANOR Checked ____ Survey by English Notes Caro Date 11-27-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

76L298 307 Cdb 12-62

PLEASE RETURN TO

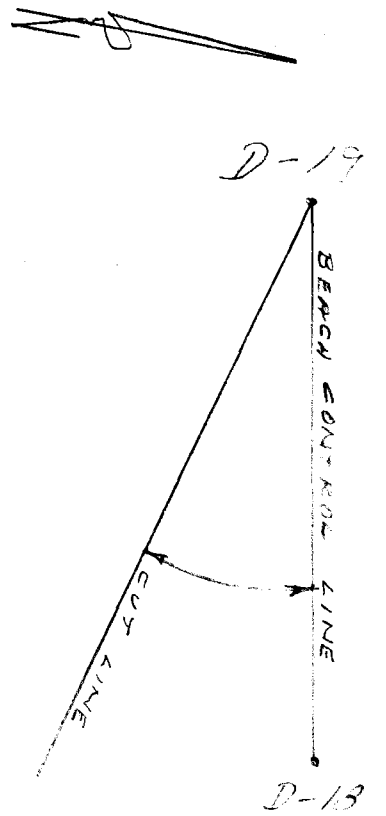
LOS ANGELES COUNTY SURVEYOR

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.	RANGE MIN.	LINE	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH						
D-19	D-18	8:29	1	44	19				
			2	43	28				
			3	42	39				
			4	41	50				
			5	41	01				
			6	39	59				
			7	39	11				
			8	38	02				
			9	37	07				
			10	36	00				
			11	35	00				
			12	33	44				
			13	32	37				
			14	31	34				
			15	30	23				
			16	29	14				
			17	28	02				
			18	26	39				
			19	25	51				
			20	24	34				



RANGE = 115+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2428 Pg. 153

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date 11-27-[illegible]

No. ____ Date ____ Date ____ Map No. ____ Index L.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					
D-19	D-18		21	23	56			
			22	22	54			
			23	22	06			
			24	21	12			
			25	20	38			
			26	19	32			
			27	18	23			
			28	17	32			
			29	16	45			
			30	15	34			
			31	14	45			
			32	13	26			
		8:35	33	12	22			

F. B. 2428 PG. 154 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 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.	117+50
		1766				
T.P.	467	1803	430	1336		
117+50			46	134	Beach Con't. line	Sand
			56	124		30.0 R. toe Cliff "
			53	127	42.0 L. brk sand	
			113	67	76.0 L. "	
	206	1054	955	848	76.0 L. top 4' 1x2	
					⊼ ON 112+50	SIGHT ON D-18
			59	46	87 FT. LEFT M.H.W.	
			77	28	#1 11° 14'	
			99	06	2 14 42	
			109	-04	3 18 42	
			121	-16	4 23 04	
			127	-22	5 28 17	
			138	-33	6 33 47	
			157	-52	7 41 35	
			160	-55	8 47 09	
			174	-69	9 54° 50'	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 030002 Division No. ____ F. B. 2428 Pg. 155

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

Notes Ch'd R. MANOR Checked ____ Survey by English Notes Caro Date 11-27-73

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

76L298 307 Cdb 12-62

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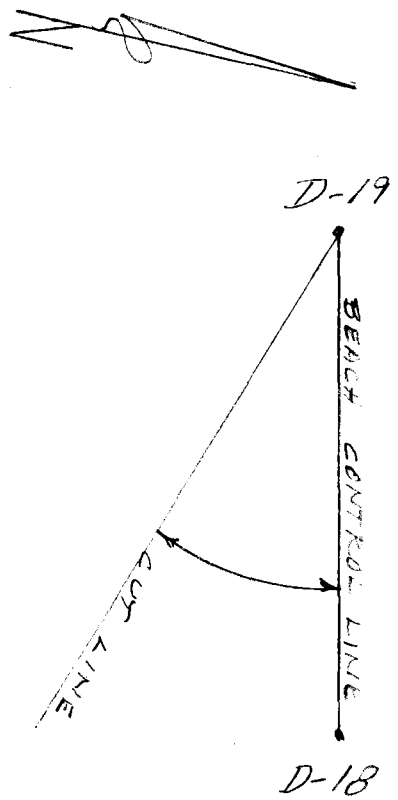
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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 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					
D-19	D-18	8:45	1	46	48			
			2	45	58			
			3	45	23			
			4	44	41			
			5	44	03			
			6	42	58			
			7	42	02			
			8	41	02			
			9	40	01			
			10	39	01			
			11	37	56			
			12	36	46			
			13	35	17			
			14	33	50			
			15	32	55			
			16	31	36			
			17	30	28			
			18	29	17			
			19	27	52			
			20	27	01			



RANGE = 117+50

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2428 Pg. 157
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.J. Date 11-27-13
No. ____ 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					
D-19	D-18		21	25	37			
			22	24	50			
			23	23	20			
			24	22	03			
			25	21	09			
			26	19	09			
			27	17	48			
			28	17	07			
			29	15	48			
			30	14	50			
			31	13	32			
			32	12	48			
		8:51	33	12	20			

F. B. 2428 Pg. 158 Job No. 0304.02 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 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.	120+00
		18 03				
T. P.	448	18 00	451	13 52		
120+00			55	12 5	Beach Cont. line Sand	
			43	13 7		15.0 R. toe Cliff "
			49	13 1	70.0 L. brk. sand	
			112	6 8	100.0 L. "	
	093	10 33	860	9 40	100.0 L. top 4' 1x2	
		46				
		57			↑ ON 112+50 SIGHT ON D18	
			195	-9 2	#1 40° 43'	ESTIMATE 1 FOOT OVER 18.5 Rod
			188	-8 5	2 37 04	
			183	-8 0	3 33 49	
			168	-6 5	4 30 53	
			166	-6 3	5 26 29	
			144	-4 1	6 23 28	
			137	-3 4	7 19 34	
			117	-1 4	8 16 18	
			120	-1 7	9 13 40	
			104	-0 1	10 11 47	
			88	1 5	11 10 03	
			81	2 2	12 8° 52'	
			57	4 6	113 FT LEFT M.H.W.	

Profile Notes Red ____ Plotted ____ Job No. 0300 C2 Division No. ____ F.B. 2428 Pg. 159
No. ____ Date ____ Date ____ Survey of Hydro survey
X-Sec. Notes Chk'd. R. MANOR Checked ____ Survey by English Notes Carp Date 11-24-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

76L298 307 Cdb 12-62

PLEASE RETURN TO
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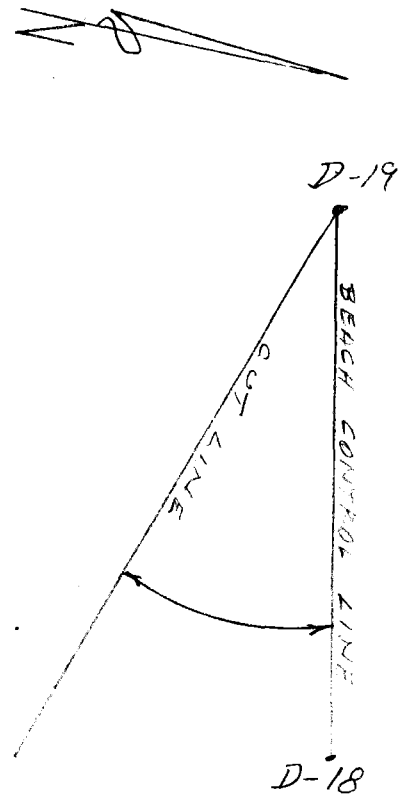
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
D-19	D-18	9:04	1	49	40			
			2	48	58			
			3	48	16			
			4	47	33			
			5	46	52			
			6	45	52			
			7	44	57			
			8	44	08			
			9	43	04			
			10	41	50			
			11	40	47			
			12	39	35			
			13	38	08			
			14	36	39			
			15	35	20			
			16	33	27			
			17	31	46			
			18	30	00			
			19	28	25			
			20	25	51			



RANGE = 120+00

Profile Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 11 F. B. 2428 Pg. 161
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes RT. Date 11-27-73
No. ____ Date ____ Date ____ Map No. ____ Index O. D. BAILEY Date JAN 11 1974

F. B. 2428 PG. 162 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 LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº.
D-19	D-18		21	24	29			
			22	22	37			
			23	20	59			
			24	19	30			
			25	18	25			
			26	17	13			
			27	15	56			
			28	14	17			
			29	12	50			
			30	11	49			
		9/10	31	11	04			

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.	122+50
		18 00				
D-18	419	18 18	401	13 99	D-18 El. = 13.99	F.B. 2243-19
122+50			55	127	Beach Con't. line sand	
			53	129		15.0 R. brk "
			39	143		21.0 R. toe Cliff "
			46	136	67.0 L. brk. sand	
			111	71	89.0 L. "	
	100	1072	846	972	89.0 L. top 4' 1x2	
					↑ AT 112+50 SIGHT ON D 18	
			61	46	105 FT LEFT M.H.W.	
			87	20	1 8° 02'	
			107	00	2 10 46	
			116	-09	3 12 26	
			137	-30	4 15 02	
			145	-38	5 17 23	
			163	-56	6 20 28	
			172	-65	7 23 47	
			180	-73	8 26° 46'	

Profile No. X-Sec. No.
Notes Red. Date
Notes Chk'd. Date JAN 17 1974
Plotted Date
Checked Date
Job No. 030002 Division No.
Survey of Hydro Survey
Survey by English Notes Carr Date M-27-73
Map No. Indexed G. D. BAILEY Date JAN 11 1974
F.B. 2428 Pg. 163

76L298 307 Cdb 12-62

PLEASE RETURN TO

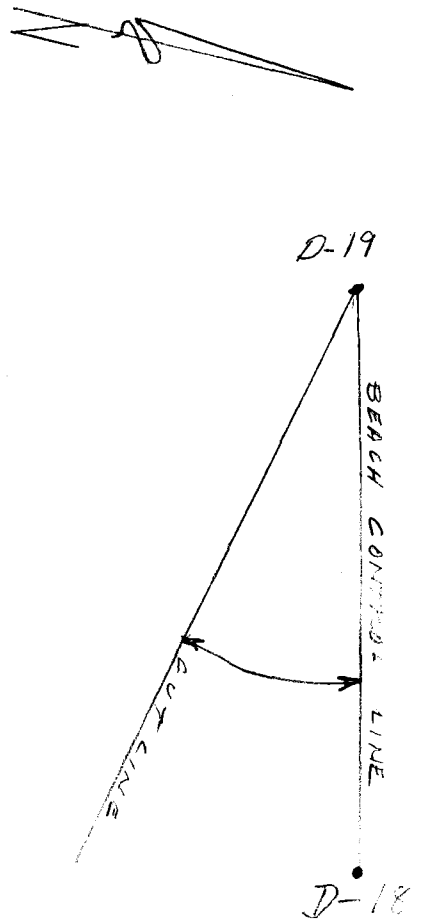
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE MIN.	LINE	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH						
D-19	D-18	9:28	1	52	20				
			2	51	29				
			3	50	43				
			4	49	27				
			5	48	31				
			6	47	38				
			7	46	48				
			8	45	27				
			9	43	54				
			10	42	32				
			11	41	25				
			12	39	33				
			13	37	59				
			14	36	21				
			15	34	33				
			16	32	35				
			17	31	32				
			18	30	02				
			19	28	48				
			20	26	58				



RANGE = 122+50

Profile Notes Red.____ Plotted____ Job No. 2300.32 Division No. 11 F. B. 2428 Pg. 165

No.____ Date____ Date____ Survey of HYDRO. SURVEY

X-Sec. Notes Chkd.____ Checked____ Survey by RICHARDS Notes RT Date 11-27-73

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

F. B. 2428 PG. 166 | Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

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

Survey by RICHARDS Notes RT1 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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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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.
D-19	D-18		21	25	59			
			22	24	24			
			23	22	45			
			24	20	58			
			25	19	16			
			26	17	16			
			27	15	53			
			28	14	17			
			29	12	15			
			30	11	09			
		9:35	31	09	46			

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.	125+00
		18 18				
T. P.	477	18 87	408	14 10		
125+00			47	142	Beach Con't. line	Sand
			54	135		66.0R. brk. "
			37	152		75.0R. toe Cliff "
			45	144	20.0L. brk. Sand	
			115	74	42.0L. "	
	130	1103	914	973	42.0L top 4' 1x2	
					⊼ AT 112+50 SIGHT ON D-18	
			220	-110	#1 24° 32' EST.	3.5 OVER 18.5 ROD
			195	-85	2 20 58 "	1.0 " 18.5 "
			178	-68	3 18 41	
			168	-58	4 16 25	
			153	-43	5 15 02	
			133	-23	6 13 01	
			130	-20	7 10 35	
			106	04	8 9 32	
			95	15	9 8 29	
			83	27	10 7° 48'	
			64	46	60 FT. LEFT M.H.W.	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2428 Pg. 167
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Rak MANOR Checked ____ Survey by English Notes Carp Date 11-21-73
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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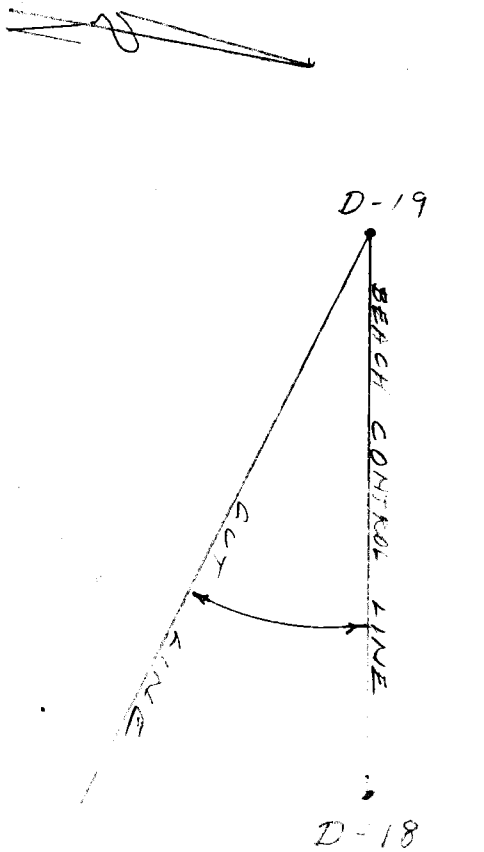
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
D-19	D-18	9:45	1	55	16			
			2	54	37			
			3	53	52			
			4	53	14			
			5	52	23			
			6	51	26			
			7	50	40			
			8	49	32			
			9	48	42			
			10	47	34			
			11	46	43			
			12	45	48			
			13	43	48			
			14	42	21			
			15	40	48			
			16	39	13			
			17	37	12			
			18	35	46			
			19	33	48			
			20	32	09			



RANGE = 125+00

Profile Notes Red. Plotted Job No. 0300.02 Division No. 11 F. B. 2428 Pg. 169
No. Date Date Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes Date 11-27-73
No. Date Date Map No. Indexed G. 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 Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
D-19	D-18		21	30	10			
			22	28	01			
			23	26	04			
			24	23	57			
			25	21	34			
			26	19	40			
			27	17	48			
			28	15	18			
			29	13	26			
			30	11	18			
			31	09	08			
		9:57	32	08	00			

F. B. 2428 Pg. 170 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

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.	127+50
		18 87				
T. P.	4 11	18 98	4 00	14 87		
127+50			67	123	Beach Con't. line Sand	
			51	139		3.0R. brk. "
			63	127		73.0R. " "
			50	140		84.0R. toe cliff "
			115	75	18.0 L. Sand	
	0 70	10 30	9 38	9 60	18.0 L. Top 4'1x2	
					T AT D-18 SIGHT	ON 127+50
			57	46	36 FT. LEFT M.H.W.	
			88	15	#1 6° 04'	
			115	-12	2 10 14	
			127	-24	3 13 51	
			132	-29	4 17 35	
			147	-44	5 19 58	
			163	-60	6 23 28	
			175	-72	7 27 38	
			174	-71	8 30 18	
			175	-72	9 33 53	
			185	-82	10 38° 16'	

Profile Notes Red _____ Plotted _____ Job No. 030002 Division No. _____ F.B. 2428 Pg. 171
No. _____ Date _____ Date _____ Survey of Hydro Survey
X-Sec. Notes Chk'd R. MANOR Checked _____ Survey by English Notes Carp Date [illegible] 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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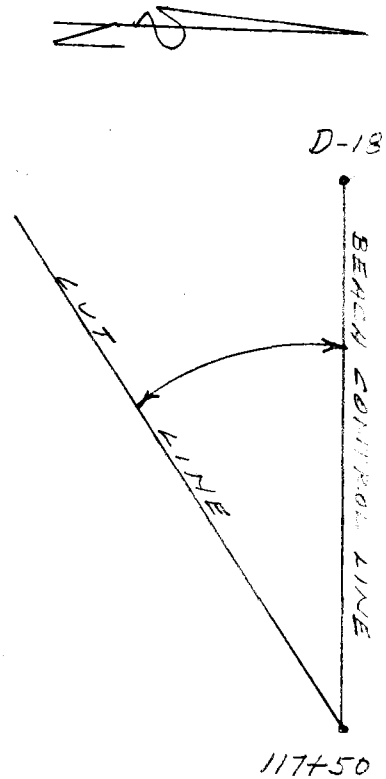
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
117+50	D-18	10:18	1	252	57			
			2	253	52			
			3	254	58			
			4	256	10			
			5	257	23			
			6	258	47			
			7	260	03			
			8	261	53			
			9	263	54			
			10	265	34			
			11	267	54			
			12	270	18			
			13	272	58			
			14	275	40			
			15	279	32			
			16	284	10			
			17	288	08			
			18	291	29			
			19	294	48			
			20	300	20			



RANGE = 127+50

Profile Notes Red. ____ Plotted ____ Job No. 0310.02 Division No. 11 F.B. 2428 Pg. 173
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes RT. Date 11-27-73
No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F. B. 2428 PG. 174 | 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.

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.
117450	D-18		21	304	10			
			22	308	24			
			23	311	47			
			24	317	38			
			25	321	34			
			26	324	32			
			27	328	06			
			28	330	53			
			29	333	36			
			30	335	39			
			31	338	00			
		10:24	32	339	43			

Do not extend notes this side of this line.

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L298 307 Cdb 12-62

76-L-298 CE 307 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.	130+00
		1898				
T. P.	467	1850	515	1383		
130+00			79	106	Beach Con't. line sand	
			46	139		7.0 R. brk "
			65	120		56.0 R. " "
			52	133		63.0 R. " "
			46	139		72.0 R. toe Cliff "
			103	82	11.0 L. sand	
	055	1101	804	1046	11.0 L. top 4'1x2	
		46			⊼ AT D18 SIGHT ON 130+00	
		64				
			200	-90	#1 32° 51' EST.	1.5 OVER 18.5 ROD
			205	-95	2 30 07'	2.0 " " "
			185	-75	3 27 39	
			197	-87	4 24 52 EST.	1.2 OVER
			180	-70	5 21 45	
			168	-58	6 19 28	
			117	-07	7 17 25	
			145	-35	8 14 39	
			124	-14	9 11 28	
			128	-18	10 8 52	
			112	-02	11 6 52	
			96	14	12 4 51	
			88	22	13 3° 20'	
			64	46	36 FT. LEFT M.H.W.	

Profile No. X-Sec. No.
Notes Red. Date
Plotted Date
Notes Chk'd. Date JAN 17 1974
Checked Date
Job No. 030002 Division No.
Survey of Hydro survey
Survey by English Notes Cairo Date 11-29-73
Map No. Indexed R. D. BAILEY Date JAN 11 1974
F. B. 2428 PG. 175

76L298 307 Cdb 12-62

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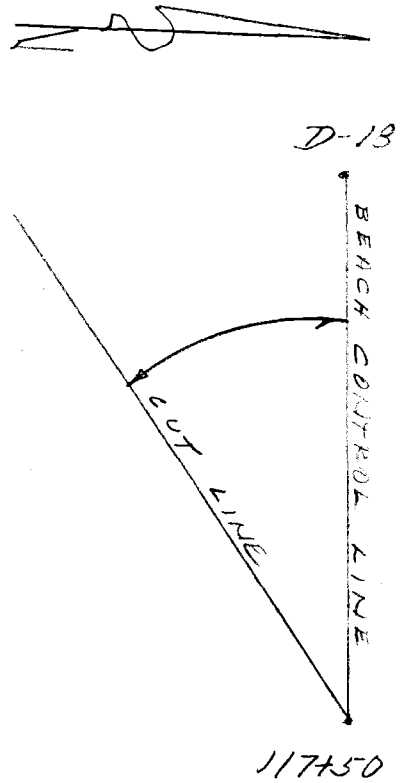
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.	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					
117+50	D-18	10:35	1	255	59			
			2	256	42			
			3	257	44			
			4	258	48			
			5	260	07			
			6	261	55			
			7	263	46			
			8	265	35			
			9	268	16			
			10	270	58			
			11	274	33			
			12	278	30			
			13	282	28			
			14	286	28			
			15	290	09			
			16	294	57			
			17	299	15			
			18	302	08			
			19	306	12			
			20	310	19			



RANGE = 130+00

Profile Notes Red. ____ Plotted ____ Job No. 300.02 Division No. 11 F. B. 2428 Pg. 177
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-27-73
No. ____ Date ____ Date ____ Map No. ____ Index 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 Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
117+50	D-18		21	313	51			
			22	317	19			
			23	320	38			
			24	321	59			
			25	324	17			
			26	326	42			
			27	328	31			
			28	330	53			
			29	333	02			
			30	335	21			
		10:41	31	336	44			

F. B. 2428 Pg. 178 Job No. 2300.02 Division No. 11 Notes Red. ____ Plotted ____ Profile ____

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

Survey by RICHARDS Notes 187 Notes Chkd. ____ Checked ____ No. ____

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

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	132+50
		18 50				
T.P.	397	17 77	470	13 80		
132+50			88	9 0	Beach Con't line	Sand
			44	13 4		13.0 R. brk "
			53	12 5		43.0 R. " "
			43	13 5		51.0 R. " "
			40	13 8		67.0 R. toe Cliff "
		"	111	6 7	12.0 L. Sand	
	0 47	9 38	886	8 91	12.0 L top 4' 1x2	
					⊼ AT D18 SIGHT ON 132+50	
			48	4 6	26 FT LEFT M.H.W.	
			72	2 2	#1 2° 18'	
			88	0 6	2 3 44	
			105	-1 1	3 4 44	
			117	-2 3	4 6 33	
			116	-2 2	5 8 36	
			118	-2 4	6 11 42	
			132	-3 8	7 14 42	
			141	-4 7	8 17 09	
			153	-5 9	9 19 28	
			157	-6 3	10 22 04	

Profile Notes Red ____ Plotted ____ Job No. 03000 Division No. ____ F.B. 2428 PG. 179
No. ____ Date ____ R. MANOR Date ____ Survey of Hydro Survey
X-Sec. Notes Chk'd. ____ Checked ____ Survey by English Notes Caro Date 11-27-73
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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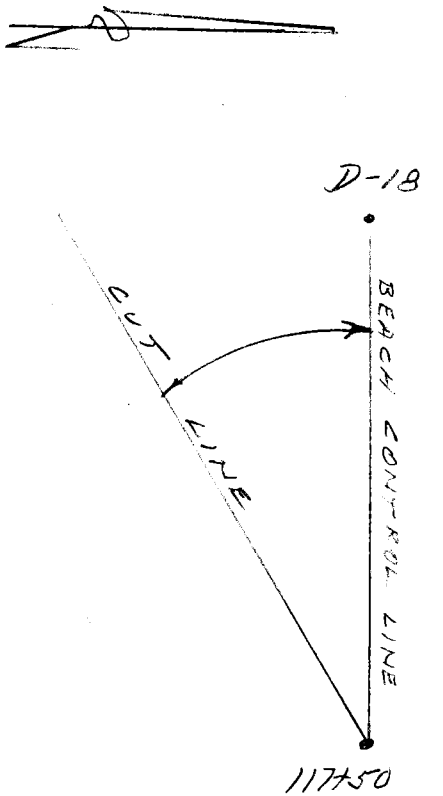
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
117+50	D-18	10:54	1	261	25			
			2	262	58			
			3	264	08			
			4	265	13			
			5	266	21			
			6	268	08			
			7	269	45			
			8	271	31			
			9	273	33			
			10	275	54			
			11	278	07			
			12	281	15			
			13	284	22			
			14	287	40			
			15	290	37			
			16	294	47			
			17	298	09			
			18	302	08			
			19	305	22			
			20	308	17			



RANGE = 132+50

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2428 Pg. 181
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes RT Date 11-27-73
No. ____ 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					
117+50	D-18		21	311	08			
			22	313	53			
			23	315	38			
			24	318	38			
			25	320	55			
			26	323	02			
			27	325	18			
			28	327	18			
			29	329	07			
			30	330	47			
			31	332	40			
			32	334	43			
			33	336	47			
			34	338	00			
		11:02	35	339	33			

F. B. 2428 PG. 182

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.	134+93.94 (D-19)
		1777				
T.B.M.#14	266	1656	387	1390	T.B.M.#14 El.=13.90	F.B. 2243-191
134+93.94			51	115	Beach Con't. line	Sand
			38	128		17.0 R. toe cliff "
			50	116	24.0 L. brk. sand	
			92	74	49.0 L. Sand	
	-045	914	697	959	top 4' 1x2	
		46				
		7			T AT D18 SIGHT ON D19	
			174	-83	#1 22° 10'	
			167	-76	2 20 18	
			151	-60	3 18 14	
			160	-69	4 16 23	
			138	-47	5 14 28	
			101	-10	6 12 09	
			105	-14	7 10 32	
			103	-12	8 8 44	
			99	-08	9 7 04	
			91	00	10 5 28	
			77	14	11 4 07	
			64	27	12 3° 28'	
			45	46	66 FT LEFT M.H.W.	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2428 Pg. 183
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Cl'd R. MANOR Checked ____ Survey by English Notes Caro Date 11-27-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

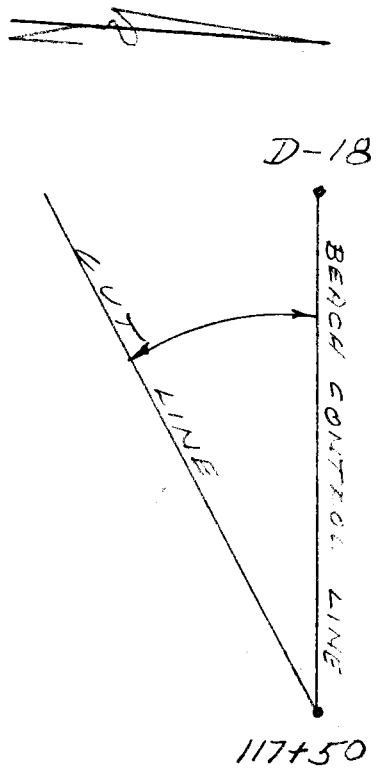
76L298 307 Cdb 12-62

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.	RANGE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
117+50	D-18	11:14	1	265	12			
			2	266	31			
			3	267	43			
			4	269	17			
			5	270	53			
			6	272	17			
			7	274	24			
			8	276	34			
			9	278	46			
			10	280	47			
			11	283	10			
			12	285	58			
			13	289	05			
			14	292	45			
			15	296	21			
			16	300	30			
			17	304	46			
			18	309	16			
			19	313	46			
			20	316	53			



RANGE = 134+93.94

Profile Notes Red. Plotted Job No. 230.02 Division No. 11 F. B. 2428 Pg. 185
No. Date Date Survey of HYDRO SURVEY
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes CJT Date 11-27-73
No. Date Date Map No. Indexed D. BAILEY Date JAN 11 1974

F. B. 2428 PG. 186 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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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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.
117450	D-18		21	319	50			
			22	322	33			
			23	324	57			
			24	326	46			
			25	328	39			
			26	330	17			
			27	331	50			
			28	333	13			
			29	334	44			
			30	335	44			
			31	336	50			
			32	338	12			
		11:21	33	339	15			

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.	137+50
		16 56				
T.P.	384	13 08	732	924		
137+50			57	74	Beach Con't. Line	Sand
			479	829	top 1x2	"
			39	92		11.0 R toe cliff "
					⊼ AT D19 SIGHT ON 137+50	
	011	840		829	TOP 1x2	
			38	46 22	FT. LEFT M.H.W	SCATTERED ROCKS
			63	21 43	" "	SOLID ROCK
			72	12 #1	16° 28'	
			77	07 2	24 04	
			84	00 3	32 05	
			97	-13 4	37 57	
			100	-16 5	44 52	
			126	-42 6	49 11	
			129	-45 7	52 48	
			142	-58 8	56 23	
			161	-77 9	59 34	
			158	-74 10	61° 57'	

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 0300.02 Division No. ____ F.B. 2428 Pg. 187

X-Sec. No. ____ Notes Pink ____ Date JAN 17 1974 Checked ____ Date ____ Survey of Hydro survey Survey by English Notes Caro Date 11-27-73

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

76L298 307 Cdb 12-62

PLEASE RETURN TO
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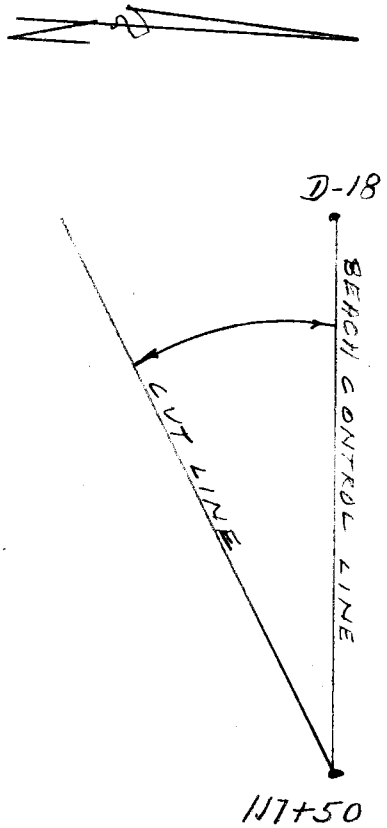
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.	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					
117+50	D-18	11:32	1	272	59			
			2	274	40			
			3	276	28			
			4	278	39			
			5	280	55			
			6	283	07			
			7	285	37			
			8	288	29			
			9	291	41			
			10	294	46			
			11	297	38			
			12	300	43			
			13	304	13			
			14	307	44			
			15	311	11			
			16	314	48			
			17	318	15			
			18	320	50			
			19	322	55			
			20	325	17			



RANGE = 137+50

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2428 Pg. 189
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-27-73
No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F. B. 2428 PG. 190 | 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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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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.
117450	D-18		21	326	57			
			22	328	42			
			23	330	41			
			24	332	13			
			25	333	40			
		11:38	26	334	31			

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.	140+00
		13 08				
T.P.	7 09	16 10	40	9 01		
140+00			53	10 8	Beach Cont. line	Sand
			52	10 9		2.0R. toe cliff "
			51	11 0	11.0 L. brk sand	
			72	8 9	15.0 L. " "	
			95	6 6	38.0 L. "	
	-1 04	8 31	67 5	9 35	38.0 L. top 4' 1x2	
					π AT D 19 SIGHT 140+00	
			173	-9 0	1 39° 58'	
			162	-7 9	2 38 25	
			156	-7 3	3 35 27	
			135	-5 2	4 32 42	
			138	-5 5	5 30 10	
			128	-4 5	6 27 14	
			107	-2 4	7 24 26	SOLID ROCK
			91	0 8	8 21 05	
			85	0 2	9 18 24	
			73	1 0	10 14 43	
			68	1 5	11 11° 52'	
			63	2 0	12 9° 48'	
			53	3 0	73 FT LEFT	SCAT ROCK THIN SAND
			37	4 6	55 " " M.H.W.	

Profile No. X-Sec. No. Date
Notes Red Date
Plotted Date
Job No. 0300.02 Division No.
Survey of Hydrosurvey
Survey by Eliasian Notes Calc. Date 11-27-73
Checked G. D. BAILEY Date JAN 11 1974
Map No. Indexed Date JAN 11 1974
Notes Book MANOR Date JAN 17 1974
F. B. 2428 PG. 191

76L298 307 Cdb 12-62

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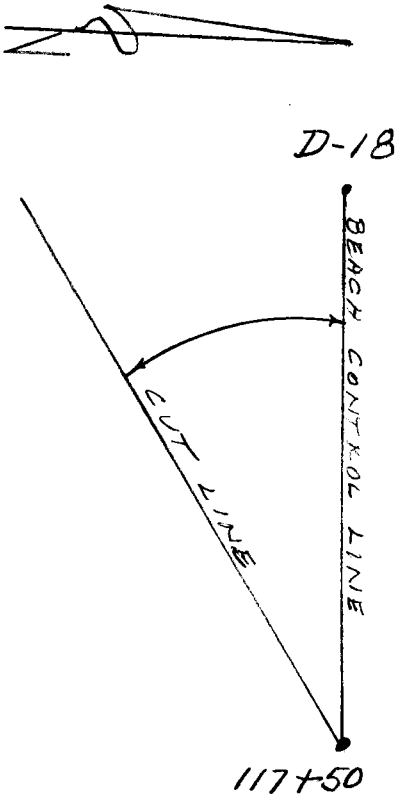
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
117+50	D-18	11:50	1	275	08			
			2	276	45			
			3	278	36			
			4	280	12			
			5	282	23			
			6	285	18			
			7	288	08			
			8	290	23			
			9	293	23			
			10	296	13			
			11	299	31			
			12	302	31			
			13	306	13			
			14	309	20			
			15	311	21			
			16	313	36			
			17	316	23			
			18	318	37			
			19	320	25			
			20	322	29			



RANGE = 140+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2428 Pg. 193
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-27-73
No. ____ 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					
117+50	D-18		21	324	06			
			22	325	56			
			23	326	55			
			24	327	45			
			25	328	35			
			26	329	35			
			27	330	35			
			28	331	19			
		11:57	29	332	01			

F. B. 2428 PG. 194

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.

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 11-27-73
Date JAN 17 1974	Indexed G. D. BAILEY JAN 11 1974

F. B. 2428 PG. 195

TIDE GAGE READINGS
NOV. 27, 1973
TIME - P.S.T.
DATUM - M.L.L.W.

TIME	TIDE-A	TIDE-B
6:00	3.4	GAGE NOT OPERATING
6:30	3.7	
7:00	4.1	
7:30	4.5	4.6
8:00	4.8	4.9
8:30	5.1	5.1
9:00	5.2	5.3
9:30	5.3	5.4
10:00	5.2	5.3
10:30	5.0	5.2
11:00	4.6	4.9
11:30	4.2	4.5
12:00	3.8	4.1
12:30	3.1	3.4
1:00	2.5	2.9
1:30	1.7	2.2
2:00	1.1	1.7

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

TIDE-B GAGE IS LOCATED AT THE U.S. ARMY OCEAN RESEARCH FACILITY, U.S.N., POINT MUGU.

Note: Any Additions 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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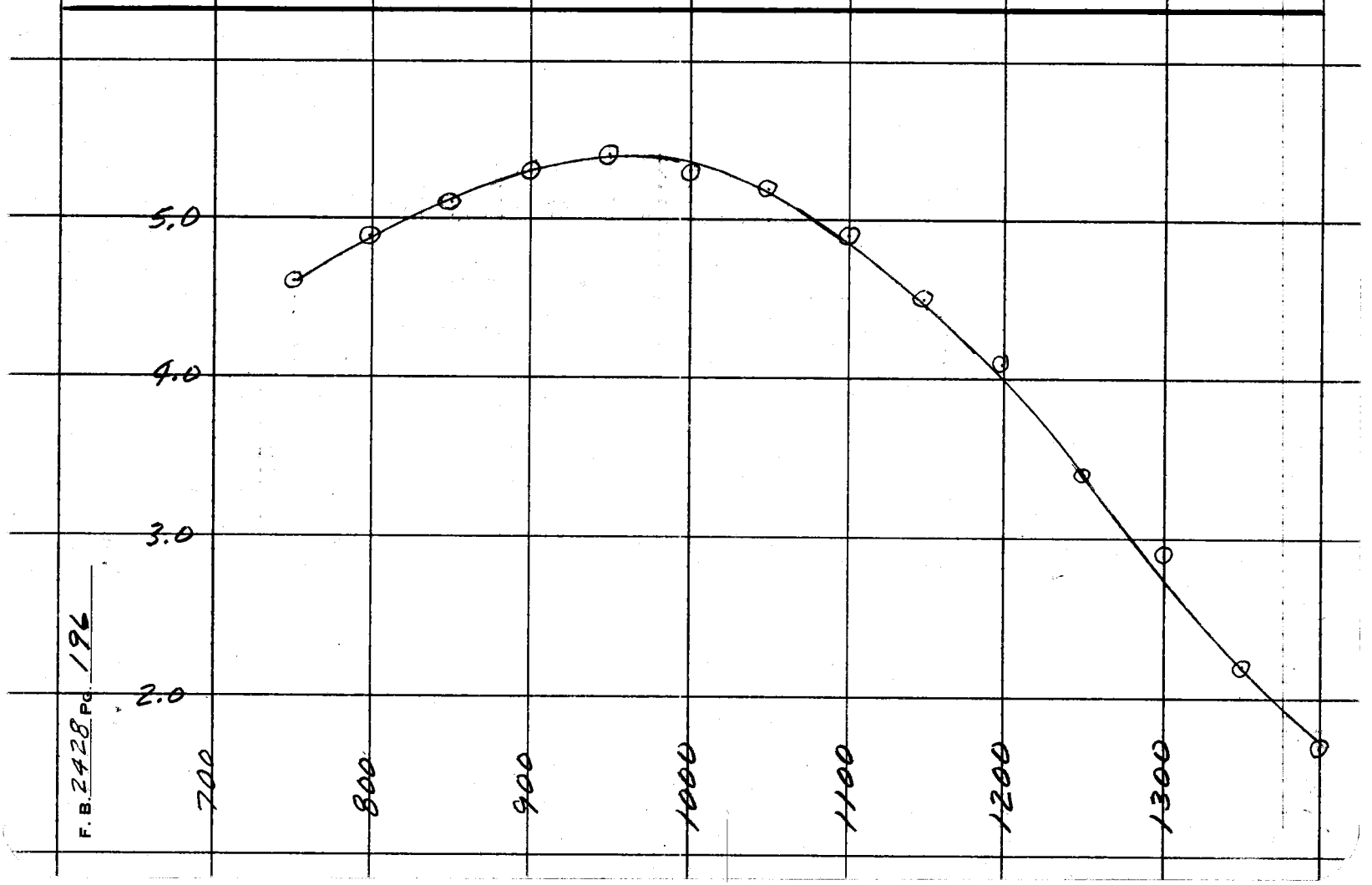
COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-69

PLEASE RETURN TO
COUNTY OF LOS ANGELES
DEPARTMENT OF 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 this side of this line.



F. B. 2428 PG. 196

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

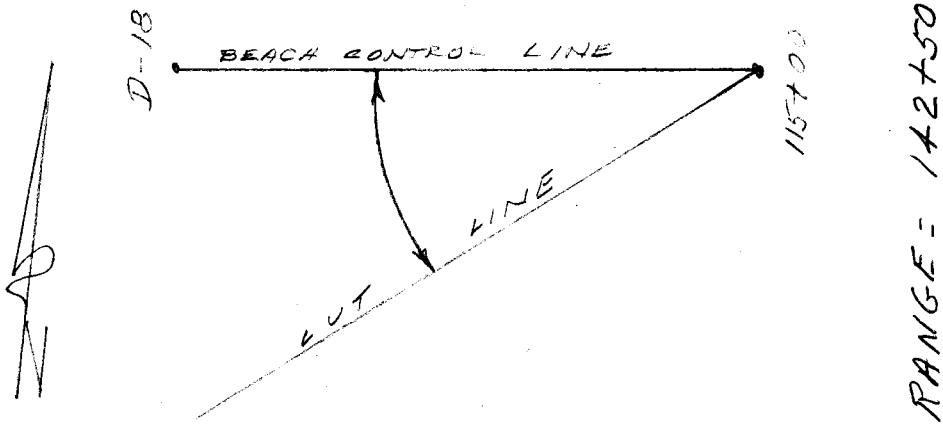
STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	142 + 50
		1610				
T.P.	179	1384	405	1205		
T.P.	379	1392	371	1013	2" I.P. D-20	
142+50			54	85	Beach	Con't. line Sand
			43	96		8.0R. brk "
			33	106		10.0R. " "
			30	109		13.0R. toe Cliff "
			97	42	36.0L. Sand	
	163	822	733	659	36.0L. top 4' 1x2	
					⊼ AT 147+50 SIGHT ON 142+50	
			36	46	33 FT. LEFT M.H.W.	
			59	23	#1 6° 27'	
			76	06	2 10 43	
			76	06	3 15 33	
			79	03	4 19 56	
			85	-03	5 24 58	
			101	-19	6 33 17	
			123	-41	7 40 05	
			144	-62	8 46 40	
			152	-70	9 51 16	
			179	-97	10 57 53	

Profile Notes Red ____ Plotted ____ Job No. 030002 Division No. ____ F.B. 2428 Pg. 197
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Circled R. MANOR Checked ____ Survey by English Notes Euro Date 11-28-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed S. D. BAILEY Date JAN 11 1974

Profile No. _____ Notes Red. _____ Date _____ Plotted _____ Date _____ Job No. 0300.02 Division No. 11 F. B. 2428 Pg. 199

X-Sec. No. _____ Notes Chkd. _____ Date _____ Checked _____ Date _____ Survey of HYDRO. SURVEY Survey by RICHARDS Notes R.T. Date 11-28-73 Map No. _____ Indexed G. D. BAILEY Date JAN 11 1974

LONG BASE LINE NECESSARY TO SEE AROUND ROCKY POINT



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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					
115+00	D-18	10:28	1	282	25			
			2	284	12			
			3	286	51			
			4	289	32			
			5	292	30			
			6	295	47			
			7	299	10			
			8	302	57			
			9	307	07			
			10	310	45			
			11	314	08			
			12	316	53			
			13	318	37			
			14	320	22			
			15	322	18			
			16	324	00			
			17	325	27			
			18	326	41			
			19	327	37			
			20	328	37			

76L298 307 Cdb 12-62

F. B. 2428 PG. 200 | Job No. 0300.83 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 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.
115+00	D-18		21	329	56			
			22	330	51			
			23	331	47			
		16:35	24	332	45			

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.	145+00
		13 92				
T.P.	417	1208	601	791		
145+00			06	115	Beach Con't. line Sand	
			00	121		2.0 R. toe cliff "
			18	103	12.0 L. brk. sand	
			37	84	16.0 L. " "	
			83	38	57.0 L "	
	216	861	563	645	57.0 L top 4' 1 x 2	
					⊼ AT 147+50 SIGHT ON 145+00	
			188	-102	1 84° 26'	
			176	-90	2 81 03	EXTRA PRECAUTIONS
			156	-70	3 76 06	TAKEN TO KEEP ON
			143	-57	4 69 37	GOOD RANGE DUE TO
			126	-40	5 62 04	LARGE ∡s
			116	-30	6 53 15	
			107	-21	7 42 12	
			90	-04	8 30 41	
			75	11	9 22 08	
			61	25	10 16° 08'	
			40	46	50 FT LEFT M.H.W.	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2428 Pg. 201
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Cr'd R. MANOR Checked ____ Survey by English Notes Caro Date 11-28-73
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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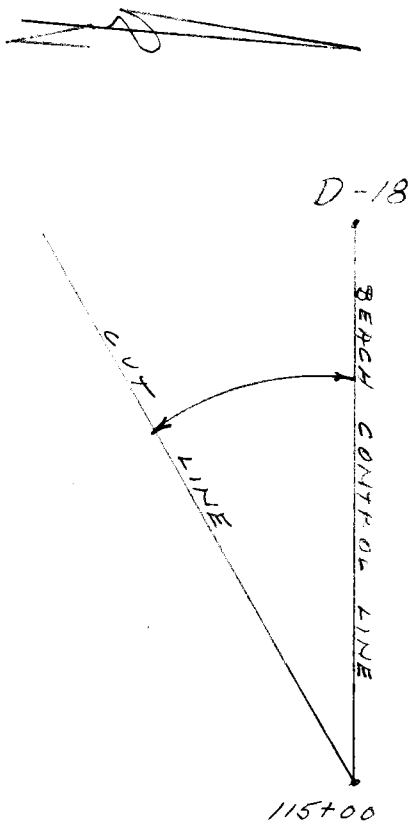
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
115+00	D-18	10:07	1	285	48			
			2	288	03			
			3	290	12			
			4	292	23			
			5	294	27			
			6	296	57			
			7	299	05			
			8	302	12			
			9	305	16			
			10	307	54			
			11	310	40			
			12	313	07			
			13	315	53			
			14	317	26			
			15	319	09			
			16	320	44			
			17	322	08			
			18	323	22			
			19	324	33			
			20	325	38			



RANGE = 145+00

Profile Notes Red. ____ Plotted ____ Job No. 030002 Division No. 11 F.B. 2428 Pg. 203
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-28-73
No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F. B. 2428 PG. 204 | 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. _____

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.
115700	D-18		21	326	40			
			22	327	40			
			23	328	50			
			24	330	05			
		1013	25	330	55			

Do not extend notes this side of this line.

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L298 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

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	147+50
		12 08				
T. P.	381	12 50	339	8 69		
147+50			42	83	Beach Con't. line Sand	
			39	86		5.0 R. brk. "
			19	106		13.0 R. toe cliff "
			83	42	79.0 L. Sand	
	240	88~~0~~ 3	607	643	79.0 L. toe 4' 1x2	
					⊼ AT 142+50 SIGHT ON 147+50	
			42	46	74 FT LEFT M.H.W.	
			70	18	#1 10° 12'	
			87	01	2 12 36	
			109	-21	3 16 51	
			118	-30	4 19 33	
			147	-59	5 21 43	
			170	-82	6 23 56	
			180	-92	7 25 26	
			200	~~19~~ 12	8 27° 15'	EST. 1.5 FT OVER 18.5 ROD

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2428 Pg. 205
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Blk. Checked ____ Survey by English Notes Caro Date 11-28-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

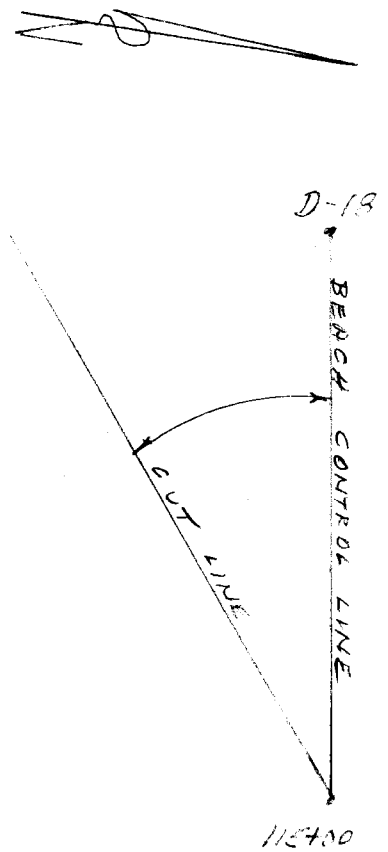
76L298 307 Cdb 12-62

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					
115+00	D-18	9:45	1	289	20			
			2	291	03			
			3	293	03			
			4	295	33			
			5	297	44			
			6	300	04			
			7	302	21			
			8	305	02			
			9	307	36			
			10	310	02			
			11	312	08			
			12	314	03			
			13	315	50			
			14	317	04			
			15	318	38			
			16	320	10			
			17	321	04			
			18	322	20			
			19	323	10			
			20	324	09			



RANGE = 147+50

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2428 Pg. 207
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-28-73
No. ____ Date ____ Date ____ Map No. ____ Indexed G.D. BAILEY Date JAN 11 1974

F. B. 2428 PG. 208 | Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

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

Survey by RICHARDS Notes AT 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.
115700	D-18		21	325	07			
			22	325	57			
			23	326	41			
			24	327	26			
		9:53	25	328	03			

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.

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.	149+98.03 (D-22)
		12 50				
T. P	673	1499	424	826		
D-22				1409	D-22 El.=14.11	F.B. 2243-193
149+98.03	082	1493		1411	Beach Con't. line rock	
			79	70	220 L. brk. rock	
			99	50	240 L. toe cliff sand	
			102	47	40.0 L. "	
	156	849	800	693	40.0 L. top 4' 1x2	
		0 6			⊼ 142+50 SIGHT D-21	
		39				
			225	-140	#1 22° 43'	EST. 3 FT OVER 18.5 ROD
			188	-103	#2 20 37	
			180	-95	3 19 56	
			154	-69	4 18 03	
			121	-36	5 16 43	
			105	-20	6 15 12	
			68	17	7 13 11	
			50	35	8 11° 54'	
			39	46	39 FT. LEFT M.H.W.	

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 0300.02 Division No. ____ F.B. 2428 Pg. 209

X-Sec. No. ____ Notes Chkd. R. MANOR Date JAN 17 1974 Checked ____ Date ____ Survey of Hydrosurvey Survey by English Notes Caro Date 11-28-73 Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

76L298 307 Cdb 12-62

130

330

PLEASE RETURN TO

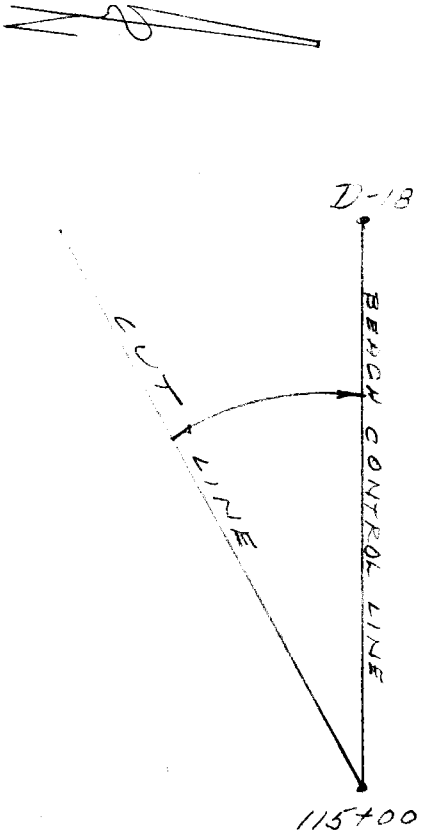
LOS ANGELES COUNTY SURVEYOR

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					
115+00	D-18	9:22	1	290	55			
			2	292	31			
			3	294	25			
			4	296	12			
			5	298	17			
			6	299	58			
			7	301	47			
			8	304	06			
			9	306	34			
			10	308	51			
			11	310	55			
			12	312	25			
			13	313	58			
			14	315	26			
			15	316	49			
			16	317	54			
			17	318	57			
			18	319	59			
			19	321	03			
			20	321	47			



RANGE = 149+98.03

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2428 Pg. 211

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

Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes RT Date 11-28-73

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

F. B. 2428 PG. 212 | Job No. 2300.02 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. _____

76L298 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.	Min.	Card No.
115700	D-18		21	322	56			
			22	323	53			
			23	324	45			
		9:28	24	325	23			

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	152+34.69 (D-23)
		14 93				
T.P.	762	17 16	539	954		
D-23			289	1427	D-23 El. = 1428	F.B. 2243-191
152+34.69	297	17 25		1428	Beach Cont. line	
			73	100	8.0 L. brk. rock	
			113	60	10.0 L. toe cliff sand	
			122	51	20.0 L. Sand	
	274	10 43	956	769	20.0 L top 4' 1x2	
					↑ AT 142+50 SIGHT ON D21	
			58	46	25 FT LEFT AMONG ROCK	
			76	28	#1 13° 20'	
			86	18	2 14 25	
			113	-09	3 15 20	
			131	-27	4 16 30	
			165	-61	5 17 39	
			205	-101	6 18° 55'	

Profile Notes Red ____ Plotted ____ Job No. 03 00 02 Division No. ____ F.B. 2428 PG. 213

No. ____ Date ____ Date ____ Survey of Hydrosurvey

X-Sec. No. ____ Notes Chk'd MANOR Checked ____ Survey by English Notes CATR Date 11-28-73

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

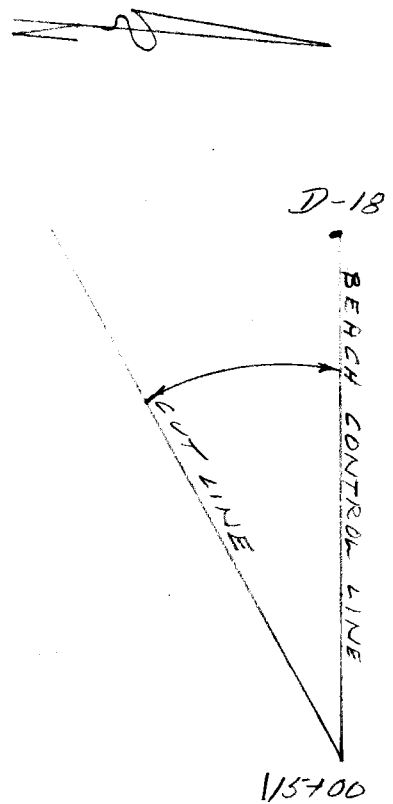
76L298 307 Cdb 12-62

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.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
115+00	D-18	9:00	1	293	25			
			2	295	34			
			3	297	39			
			4	299	16			
			5	301	07			
			6	303	24			
			7	305	42			
			8	307	50			
			9	309	46			
			10	311	15			
			11	312	28			
			12	313	40			
			13	314	46			
			14	315	46			
			15	317	12			
			16	318	17			
			17	319	17			
			18	320	03			
			19	320	34			
			20	321	20			



RANGE = 152+34.69

Profile Notes Red ____ Plotted ____ Job No. 230.02 Division No. 11 F. B. 2428 Pg. 215
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes CITY Date 11-28-73
No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F. B. 2428 Pg. 216 | 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. _____

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.
15+00	D-18		21	321	59			
		9:05	22	322	27			

Do not extend notes this side of this line.

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

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

761.298 307 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

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W	154+96.58 (D-24)
		1725				
T.P.	959	1831	853	872		
T.P.	1052	2471	412	1419		
D-24			034	2437	D-24 El. = 24.35	F.B. 2243-194
	028	2463		2435		
T.P.	-180	1079	1204	1259	T.P. (PAINTED ROCK)	
					↑ 122+50 SIGHT ON D21	
			245	-137	#1 16° 51'	(± 0.5 FT.)
			205	-97	2 15 44	
			162	-54	3 14 30	
			147	-39	4 13 21	
			132	-24	5 12 17	
			103	05	6 11° 32'	IN WATER AT BASE OF CLIFF
	1360	2619		1259	T.P.	
			67	192	11 FT. LEFT T OF ROCK CLIFF	
			184	2435	D24 L&T.	

Profile Notes Red ____ Plotted ____ Job No. 030002 Division No. ____ F.B. 2428 Pg. 217
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chk'd R. MANOR Checked ____ Survey by English Notes Caro Date 11-28-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

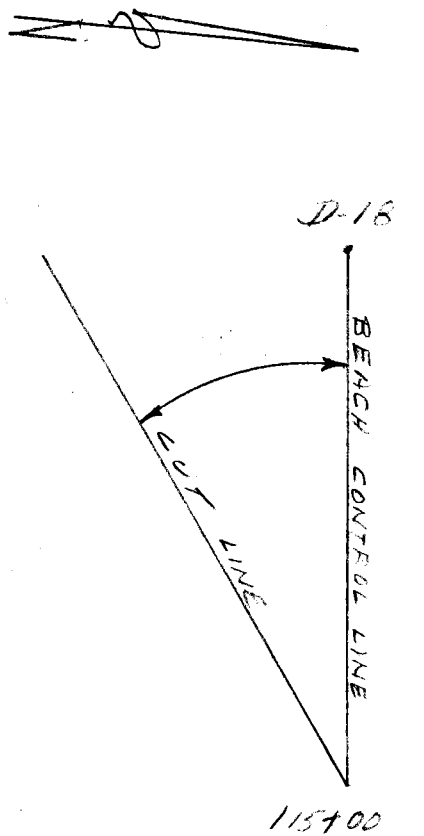
76L298 307 Cdb 12-62

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					
115+00	D-18	8:35	1	296	17			
			2	297	42			
			3	299	06			
			4	300	36			
			5	302	32			
			6	303	58			
			7	305	33			
			8	307	05			
			9	308	26			
			10	309	55			
			11	311	09			
			12	312	14			
			13	313	25			
			14	314	22			
			15	315	15			
			16	315	58			
			17	316	42			
			18	317	37			
			19	318	38			
			20	319	29			



RANGE = 154+96.58

Profile Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 11 F.B. 2428 Pg. 219
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-28-73
No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F. B. 2428 PG. 220 | 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.
115+00	D-18	8:40	21	320	12			

Do not extend notes this side of this line.

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

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

76L298 307 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

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	156+33.47 (D-25)
T.P.	7 28	19 87		12 59		
D-25	1 63	17 98	3 52	16 35	D-25 El.= 16.33	F.B. 2243-193
156+33.47			1 63	16 35	Beach Con't. line	
			2 2	~~16~~ 15 8	3 FT LEFT AVER. BRK - VERY JAGGED ROCKS	
			4 6	13 4	12 " " " " " " "	
			10 6	7 4	25 " " " " " " "	
	3 90	12 43	9 45	8 53	T.P	
					⊼ AT D 24 SIGHT ON D-25	
			2 30	-10 6	#1 44° 04'	
			2 10	-8 6	2 36° 56'	
			1 73	-4 9	3 30 25	
			1 50	-2 6	4 23 06	
			1 17	0 7	5 17° 07'	

Profile Notes Red ____ Plotted ____ Job No. 82-0[illegible] Division No. ____ F.B. 2428 Pg. 221
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Chk'd R. MANOR Checked ____ Survey by English Notes Caro Date 11-28-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

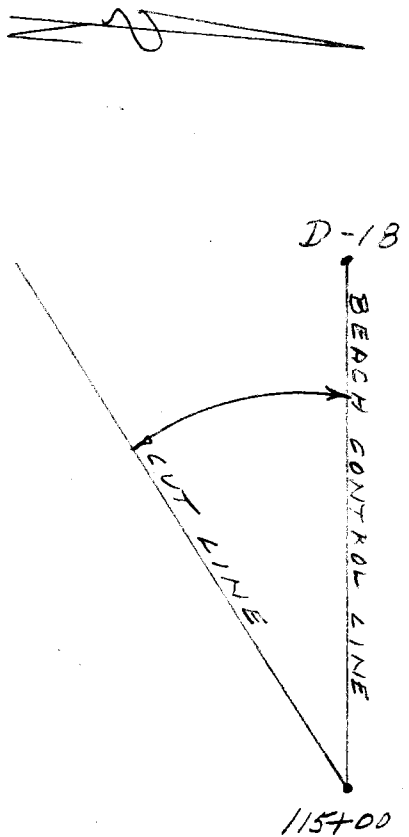
76L298 307 Cdb 12-62

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					
115+00	D-18	8:17	1	303	44			
			2	304	35			
			3	305	33			
			4	306	45			
			5	308	00			
			6	309	10			
			7	310	15			
			8	311	05			
			9	311	54			
			10	312	37			
			11	313	11			
			12	313	47			
			13	314	37			
			14	315	18			
			15	316	02			
			16	316	46			
			17	317	26			
			18	318	13			
			19	319	03			
		8:23	20	319	46			



RANGE = 156+33.47

Profile Notes Red. Plotted Job No. 2300.02 Division No. 11 F. B. 2428 Pg. 223
No. Date Date Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes R.T. Date 11-28-73
No. Date Date Map No. Indexed D. BAILEY Date JAN 11 1974

F. B. 2428 PG. 224 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.
115400	D-18							

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
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.	157+50
D-26	089	2093		20 04	D-26 El. = 20.04	F.B. 2243-193
157+50	466	1318	1241	X852	Beach Con't. line	
					⊼ ON D26 SIGHT ON D25	
			26	[illegible]	31 FT LEFT ROCK BRK.	
			60	[illegible]	50 " "	
			155	[illegible]	60 " " SAND AT BASE OF ROCKS	
	029	662	685	633	T.P. ROCK	
			96	-33	#1 20° 18'	
			115	-49	2 25 34	
			158	-92	3 29 28	
			131	-65	4 35 03	
			161	-95	5 38 08	
			159	-93	6 43 27	
			171	-105	7 48 05	
			177	-111	8 52 38	
			186	-120	9 54° 56'	
D-25			461	1632	D-25 El. = 16.33	F.B. 2243-193

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2428 Pg. 225
X-Sec. No. ____ Date ____ Date ____ Survey of Hydro Survey
Notes Cr'd JAN 17 1974 Checked ____ Survey by English Notes Caro Date 11-28-73
Date ____ Date ____ Map No. ____ Index G. D. BAILEY Date JAN 11 1974

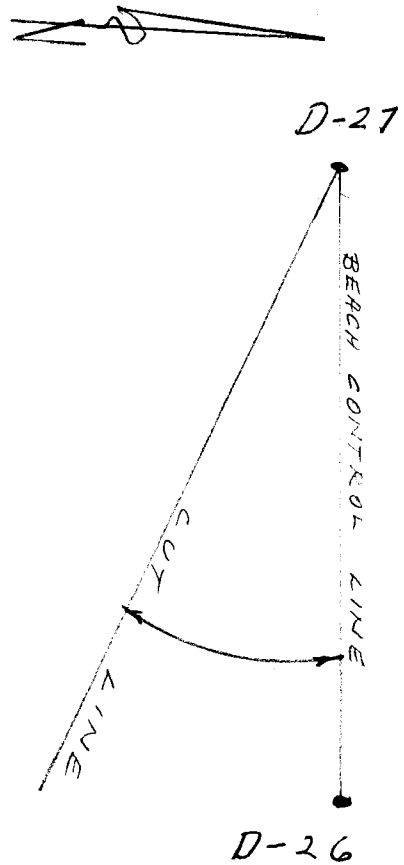
76L298 307 Cdb 12-62

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 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					
D-27	D-26	1:58	1	93	18			
			2	92	48			
			3	91	57			
			4	90	58			
			5	90	20			
			6	89	50			
			7	88	09			
			8	86	38			
			9	85	57			
			10	84	27			
			11	83	04			
			12	81	23			
			13	79	34			
			14	77	36			
			15	74	48			
			16	72	28			
			17	69	56			
			18	66	00			
			19	64	44			
			20	61	48			



RANGE = 157+50

Profile Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 11 F.B. 2428 Pg. 227
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-28-73
No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

SHORT BASE LINE DUE TO VISIBILITY LIMITS

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. 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					
D-27	D-26		21	57	49			
			22	54	47			
			23	50	36			
			24	48	43			
			25	42	52			
			26	39	15			
		2:03	27	35	14			

F. B. 2428 Pg. 228 Job No. 8300.02 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 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.

(≠ 93° 38') Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	159+89.36 (D-26)
D-26				20.04	D-26 El. = 20.04	F.B. 2243-193
159+89.36				20.04	≠ Pt. Beach Con't. line	
					⊼ AT D 28 SIGHT ON D27	
		11 23			CONT. FROM D 26	147° 57'
			192	-8 0	#1 30° 20'	
			215	-10 3	2 29 40	
			215	-10 3	3 27 33	
			190	-7 8	4 23 08	
			157	-4 5	5 17 28	
			146	-3 4	6 15 53	
			134	-2 2	7 9° 00'	
			106	0 6	46 FT. LEFT SAND BASE OF ROCK	
			61	5 1	33 " " — " " "	
			55	5 7	18 BRK "	

Profile Notes Red ____ Plotted ____ Job No. 030002 Division No. ____ F.B. 2428 Pg. 229
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. ____ Notes Checked ____ Survey by English Notes Carr Date 11-28-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Index G. D. BAILEY Date JAN 11 1974

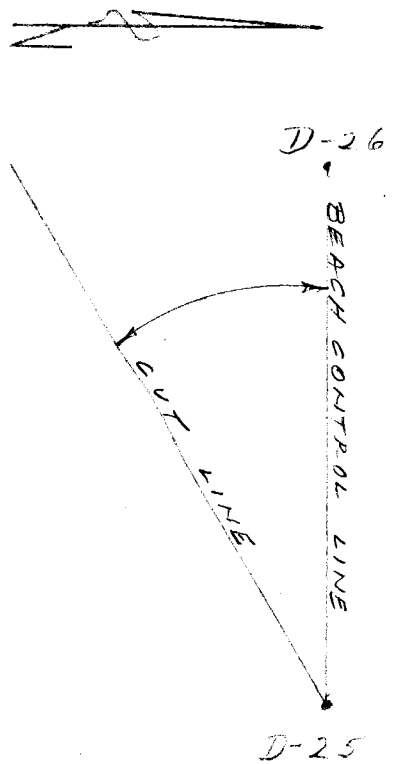
76L298 307 Cdb 12-62

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 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					
D-25	D-26	1:33	1	293	02			
			2	293	37			
			3	294	22			
			4	295	06			
			5	295	45			
			6	296	56			
			7	297	55			
			8	299	02			
			9	300	02			
			10	301	33			
			11	303	09			
			12	303	33			
			13	304	48			
			14	305	47			
			15	307	24			
			16	311	00			
			17	312	57			
			18	316	35			
			19	320	00			
			20	323	15			



RANGE = 159+89.36 A
ANGLE → (93° 38")

Profile Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 11 F.B. 2428 Pg. 231
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes RT. Date 11-26-73
No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974
SHORT BASE LINE DUE TO VISIBILITY LIMITS

F. B. 2428 PG. 232 | Job No. 0301.02 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.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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.
D-25	D-26		21	326	55			
			22	329	55			
			23	333	35			
			24	337	11			
		1138	25	340	41			

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.

(118° 38')
Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	159+89.36 (D-26)
D-26				20 04	D-26 El. 20.04	F.B. 2243-193
159+89.36				20 04	∡ Pt. Beach Con't. line	
					π AT D 28 SIGHT ON D 27	
		11 23			CONT. FROM D 26 147° 57'	
			125	-13	#1 19° 27'	
			157	-45	2 25 59	
			172	-60	3 32 18	
			179	-67	4 37 53	
			205	-93	5 42° 22'	
			61	51	21 FT LEFT ROCK BRK	
			48	64	29 " " "	
			40	72	50 " " " "	
			105	07	61 " " "	NEAR WATER

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 0300.02 Division No. ____ F.B. 2428 Pg. 233

X-Sec. No. ____ Notes Cir'd R. MANOR Date JAN 17 1974 Checked ____ Date ____ Survey of Hydro Survey Survey by English Notes Corg Date 1-28-74 Map No. ____ Indexed D. BAILEY Date JAN 11 1974

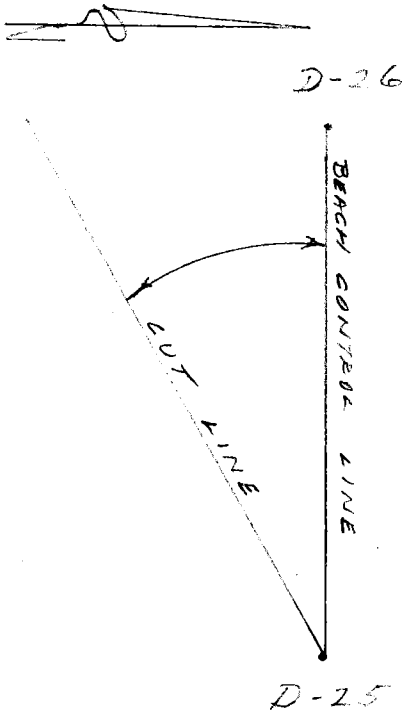
76L298 307 Cdb 12-62

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 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					
D-25	D-26	1:20	1	316	00			
			2	316	34			
			3	316	52			
			4	317	21			
			5	318	02			
			6	319	11			
			7	320	09			
			8	321	16			
			9	321	52			
			10	322	51			
			11	324	02			
			12	325	10			
			13	326	33			
			14	328	22			
			15	330	16			
			16	332	50			
			17	335	05			
			18	336	43			
			19	339	08			
			20	341	36			



RANGE = 159+89.36 B
ANGLE → (118° 38')

Profile Notes Red ____ Plotted ____ Job No. 2300.02 Division No. 11 F. B. 2428 Pg. 235
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes RILEY Date 11-29-73
No. ____ Date ____ Date ____ Map No. ____ Indexed G. De BAILEY Date JAN 11 1974

SHORT BASE LINE DUE TO VISIBILITY LIMITS

F. B. 2428 PG. 236 | 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 B. 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.
D-25	D-26	1125	21	344	07			

Do not extend notes this side of this line.

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

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

761298 307 Cdb 12-62

76-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.

(132° 38') Rang Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	159+89.36 (D-26
D-26				2004	D-26 El. = 20.04	F.B. 2243-193
159+89.36				2004	∡ Pt. Beach Cont. line	
					⊼ AT D 28 SIGHT ON D 27	
		11 23			CONT. FROM D-26,	147° 57'
			215	-10 3	#1 53° 07'	
			192	-8 0	#2 44 34	
			168	-5 6	3 34 57	
			153	-4 1	4 27 43	
			136	-2 4	5 22° 20'	
			114	-0 2	72 FT LEFT SAND BASE OF ROCKS	
			30	8 2	66 " " TOP ROCK	
			77	~~4~~ 3 5	58 " " BOT " BRK	
			+10	12 2	44 " " TOP "	
			61	5 1	22 " " BOT " "	

Profile Notes Red ____ Plotted ____ Job No. 03000.02 Division No. ____ E.B. 2428 PG. 237
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Ck'd R. MANOR Checked ____ Survey by English Notes Carp Date 11-28-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

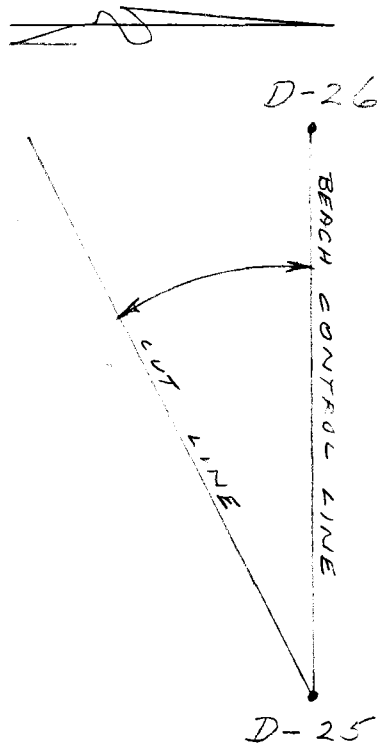
76L298 307 Cdb 12-62

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.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
D-25	D-26	1:10	1	326	00			
			2	326	27			
			3	327	22			
			4	327	59			
			5	328	35			
			6	329	28			
			7	330	00			
			8	330	37			
			9	331	18			
			10	332	36			
			11	333	20			
			12	334	43			
			13	336	04			
			14	337	07			
			15	339	16			
			16	341	22			
			17	342	23			
		1:15	18	344	11			



RANGE = 159+89.36 C

ANGLE → (132° 38)

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2428 Pg. 239

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-28-73

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

SHORT BASE DUE TO VISIBILITY LIMITS

F. B. 2428 PG. 240 | 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					
D-25	D-26							

Do not extend notes this side of this line.

761298 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
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.

(147°57') Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	159+89.36 (D-26)
D-26				20 04	D-26 El. = 20.04	F.B. 2243-193
159+89.36				20 04	∡ Pt. Beach Con't. line	
					⊼ AT D-28 SIGHT ON D 27	
	225	14 05		11 80	EL. D-27 F.B. 2243-75	
	381	11 23	663	742	T.P.	
			00	112	31 FT LEFT ROCKY	
			14	98	45 " " "	
			97	15	70 " " "	
			66	46	67 " " "	M.H.W.
			90	22	#1 14° 04' SAND BASE	LARGE ROCK
			26	86	2 16 12 TOP	" "
			101	11	3 17 47 SAND BASE	" "
			157	-45	4 41° 17'	
			172	-60	5 50 23	
			194	-82	6 59 51	
			204	-92	7 65° 32'	

Profile Notes Red ____ Plotted ____ Job No. 03 00 32 Division No. ____ F.B. 2428 PG. 241
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Chk'd. [illegible] Checked ____ Survey by English Notes Caro Date 11-28-73
No. ____ Date JAN 17 1974 Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

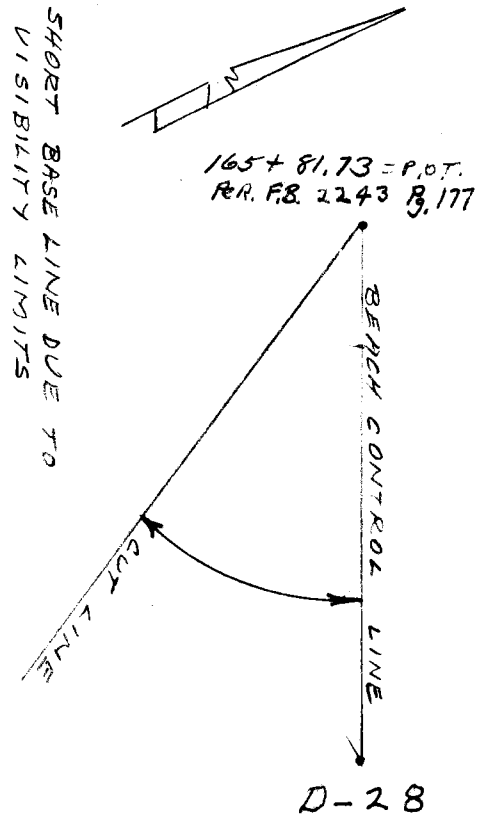
76L298 307 Cdb 12-62

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					
165+81.73 P.O.T.	D 28	2:25	1	54	50			
			2	54	10			
			3	52	28			
			4	51	10			
			5	48	50			
			6	47	03			
			7	44	45			
			8	43	12			
			9	40	52			
			10	38	33			
			11	35	58			
			12	33	05			
			13	30	05			
			14	25	41			
			15	22	11			
			16	18	21			
			17	14	44			
			18	10	38			
			19	07	33			
		2:30	20	05	10			



RANGE = 159+89.36 D

ANGLE → (147° 57')

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2428 Pg. 243
No. ____ Date ____ Date ____ Survey of HYDRO. SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-28-73
No. ____ Date ____ Date ____ Map No. ____ Index G. D. BAILEY Date JAN 11 1974

F. B. 2428 PG. 244 | 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. _____

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					
D-25	D-26							

Do not extend notes this side of this line.

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.

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.

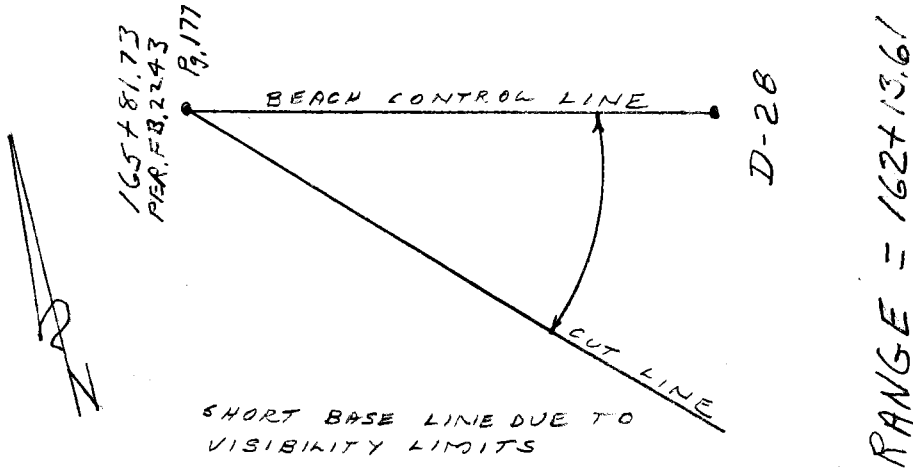
Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	162+13.61 (D-28)
		19 03				
T.P	8 99	22 36	5 66	13 37		
162+13.61			9 01	13 35	Beach Con't. line (rock)	
					⊼ AT D 28A SIGHT ON D 28	
	0 01	10 60	-11 77	10 59	T.P. ON ROCK	18.5
			2 30	-12 4	#1 37° 49'	-4.5
			1 95	-8 9	2 33 06	
			1 69	-6 3	3 26 26	
			1 39	-3 3	4 18 56	
			1 12	-0 6	5 14 25	
			9 7	0 9	6 10 23	
			7 6	3 0	7 4° 04'	
			7 3	3 3	8 = 5 FT LEFT SAND BASE OF CLIFF (1° 11')	
TBM #18			4 68	17 68	T.B.M. #18 El = 17.67	FB 2243-194

Profile Notes Red. Plotted Job No. 0300.02 Division No. F.B. 2428 Pg. 245
No. Date Date Survey of Hydro Survey
X-Sec. Notes Chk'd R. MANOR Checked Survey by English Notes Cara Date 11-28-73
No. Date JAN 17 1974 Date Map No. Indexed G. D. BAILEY Date JAN 11 1974

Profile No.	Notes Red.	Plotted	Job No. 6300.02	Division No. 11	F. B. 2428 Pg. 247
	Date	Date	Survey of HYDRO. SURVEY		
X-Sec. No.	Notes Chkd.	Checked	Survey by RICHARDS	Notes R.T.	Date 11-28-73
	Date	Date	Map No.	Indexed G. D. BAILEY	Dates 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					
165+81.73	D-28	12:25	1	62	28			
			2	61	30			
			3	60	18			
			4	58	41			
			5	56	43			
			6	54	44			
			7	52	45			
			8	50	01			
			9	48	08			
			10	45	50			
			11	43	21			
			12	40	28			
			13	36	54			
			14	32	55			
			15	26	10			
			16	24	11			
			17	20	43			
		12:29	18	19	06			

76L298 307 Cdb 12-62

F. B. 2428 PG. 248 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.

Do not extend notes this side of this line.

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

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

76L298 307 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.

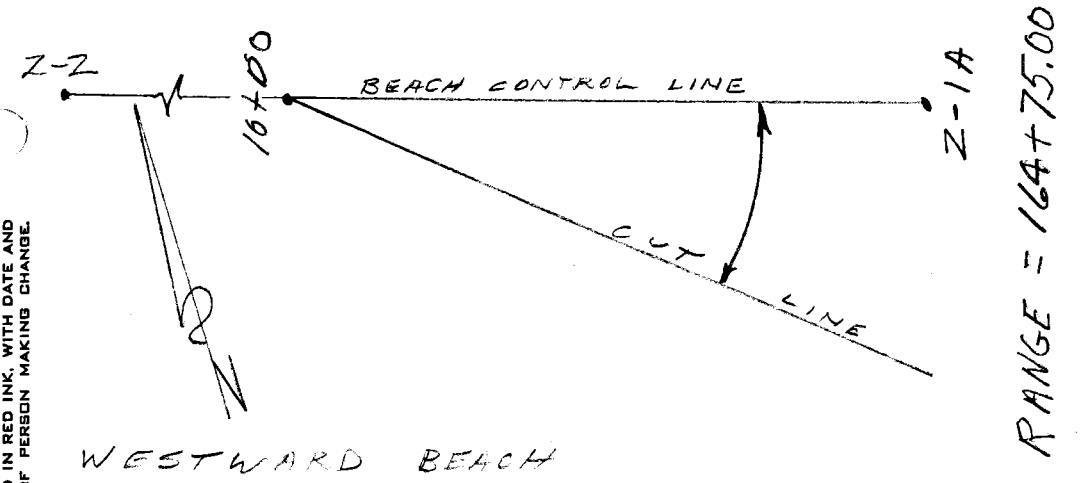
Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	164+75.00 (D-28A)
T.B.M. #19	5 11	19 03		13 92	T.B.M. #19 El=13.92	FB 2243 -194
164+75.00			70	12 0	Beach Con't. line	Sand
			32	15 8		5.0R. brk. "
			43	14 7		53.0R. toe cliff "
			78	11 2	2.0L. brk. sand	
			131	5 9	50.0L. "	
	2 17	10 27 (3)	10 93	8 10	50.0L. top 4' 1x2	
		46			⊼ AT D 28 (162+13.61)	SIGHT ON D-28A
		7	57	4 6	64 FT LEFT M.H.W.	
			100	0 3	#1 19° 47'	
			112	-0 9	2 25 28	
			132	-2 9	3 31 52	
			152	-4 9	4 38 17	
			171	-6 8	5 41 51	
			200	-9 7	6 46° 55'	1.5 OVER 18.5 ROD

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2428 Pg. 249
Date ____ Date ____ Survey of Hydro Survey
X-Sec. No. ____ Notes Grid ____ Checked ____ Survey by English Notes Caro Date 11-28-73
Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

R. MANOR JAN 17 1974

Profile No.	Notes Red.	Plotted	Job No. 230002	Division No. 11	F. B. 2428 Pg. 251
	Date	Date	Survey of HYDRO. SURVEY		
X-Sec. No.	Notes Chkd.	Checked	Survey by RICHARDS	Notes R.T.	Date 11-28-73
	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 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.
10+00	Z-1A	11:47	1	35	43			
			2	34	16			
			3	32	59			
			4	31	50			
			5	30	18			
			6	29	07			
			7	27	37			
			8	26	04			
			9	24	53			
			10	23	30			
			11	22	00			
			12	20	34			
			13	18	59			
			14	16	10			
			15	15	27			
			16	13	55			
			17	12	25			
			18	10	22			
			19	09	16			
		11:52	20	08	37			

76L298 307 Cdb 12-62

F. B. 2428 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 ______ Date ______ Date ______ Date ______ No. ______

INST. AT (DON'T PUNCH)	SIGHT ON (DON'T PUNCH)	TIME (DON'T PUNCH)	ANGLE № (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 №

Do not extend notes this side of this line.

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L298 307 Gdb 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.

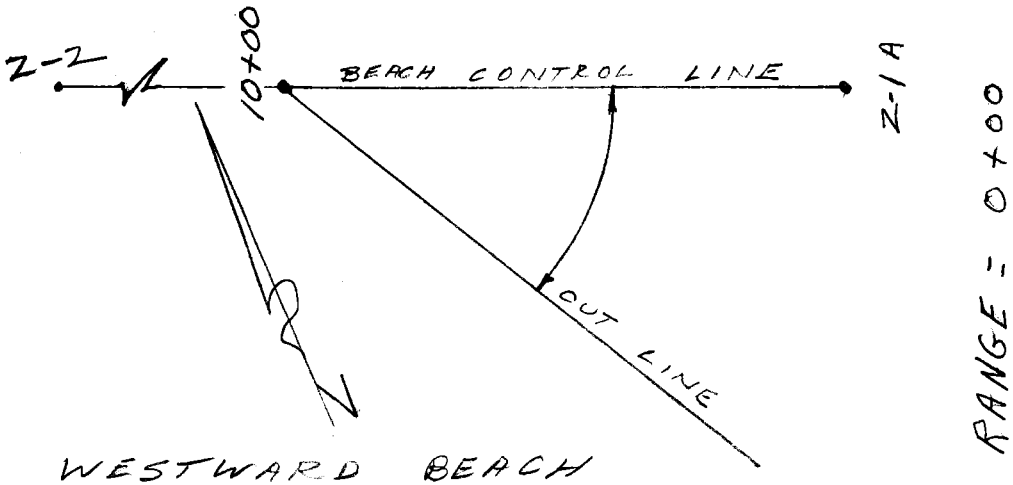
Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	0+00 (Z-1A)
Z-1A	7 62	17 93		10 31	Z-1A El.= 10.31	F.B. 2243-179
0+00			66	11 3	Beach	Cont. line Sand
			56	12 3	92.0 L. brk. Sand	
			72	10 7	97.0 L. " "	
			100	7 9	142.0 L. "	
	1 44	11 34	8 03	9 90	142.0 L. top 4'1x2	
					⊼ AT Z 3+00 SIGHT ON 0+00, Z-1	
			67	4 6	173 FT. LEFT M.H.W.	
			76	3 7	#1 28° 53'	
			112	0 1	2 32 28	
			138	-2 5	3 35 23	
			148	-3 5	4 39 53	
			159	-4 6	5 43 31	
			185	-7 2	6 47° 32'	
T.P.	3 77	18 00	3 70	14 23		
Z-1A			7 68	10 32	Z-1A El.=10.31	F.B. 2243-179

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2428 Pg. 253
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chk'd R. MANOR Checked ____ Survey by English Notes Carc Date -28-73
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. 2428 Pg. 255
	Date	Date	Survey of HYDRO. SURVEY		
X-Sec. No.	Notes Chkd.	Checked	Survey by RICHARDS	Notes R.T.	Date 11-28-73
	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					
10+00	Z-1A	11:28	1	42	10			
			2	41	10			
			3	39	53			
			4	38	34			
			5	37	13			
			6	35	42			
			7	34	09			
			8	32	51			
			9	30	47			
			10	28	46			
			11	26	25			
			12	24	32			
			13	22	46			
			14	20	42			
			15	18	55			
			16	17	08			
			17	15	52			
			18	13	58			
		11:32	19	12	50			

76L298 307 Cdb 12-62

F. B. 2428 PG. 256 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.	For Office Use Only: Range Line Min.	For Office Use Only: Card No.

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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.

76L298 307 Cdb 12-62

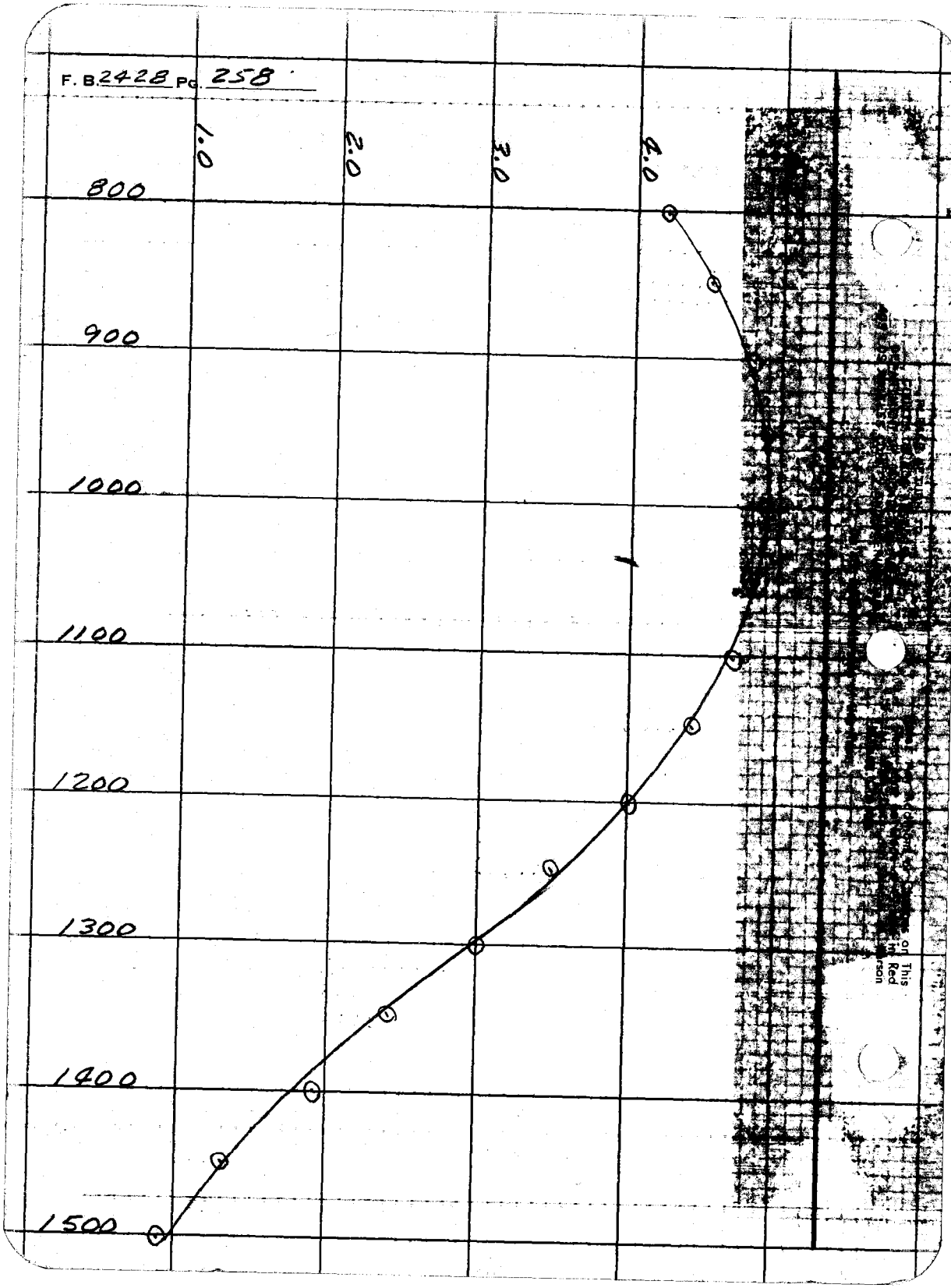
Notes Ck'd by	Survey of HYDROGRAPHIC SURVEY
Map No.	JN 0300-02 Tape Std °F
Office Work	Surveyed by RICHARDS
Checked	Notes U HARRIET Date 11-28-73
Date	Indexed G. D. BAILEY JAN 11 1974

F. B. 2428 PG. 257

TIDE GAGE READINGS
NOV. 28, 1973
TIME - P.S.T.
DATUM - M.L.L.W.

TIME	TIDE
6:00	3.0
6:30	3.3
7:00	3.6
7:30	3.9
8:00	4.2
8:30	4.5
9:00	4.8
9:30	4.9
10:00	4.9
10:30	4.8
11:00	4.7
11:30	4.4
12:00	4.0
12:30	3.5
1:00	3.0
1:30	2.4
2:00	1.9
2:30	1.3
3:00	0.9

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

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

F. B. 2428 PG. 258