Ck'd by

Work

Survey of HYDRO SURVEYS
JN 0300.02 Tape — Std — °F
Surveyed by W.A. RICHARDS
Notes W.A.R. Date 5-69
Indexed

F.B. 2818 Pg. 5

J.N. 0300.02

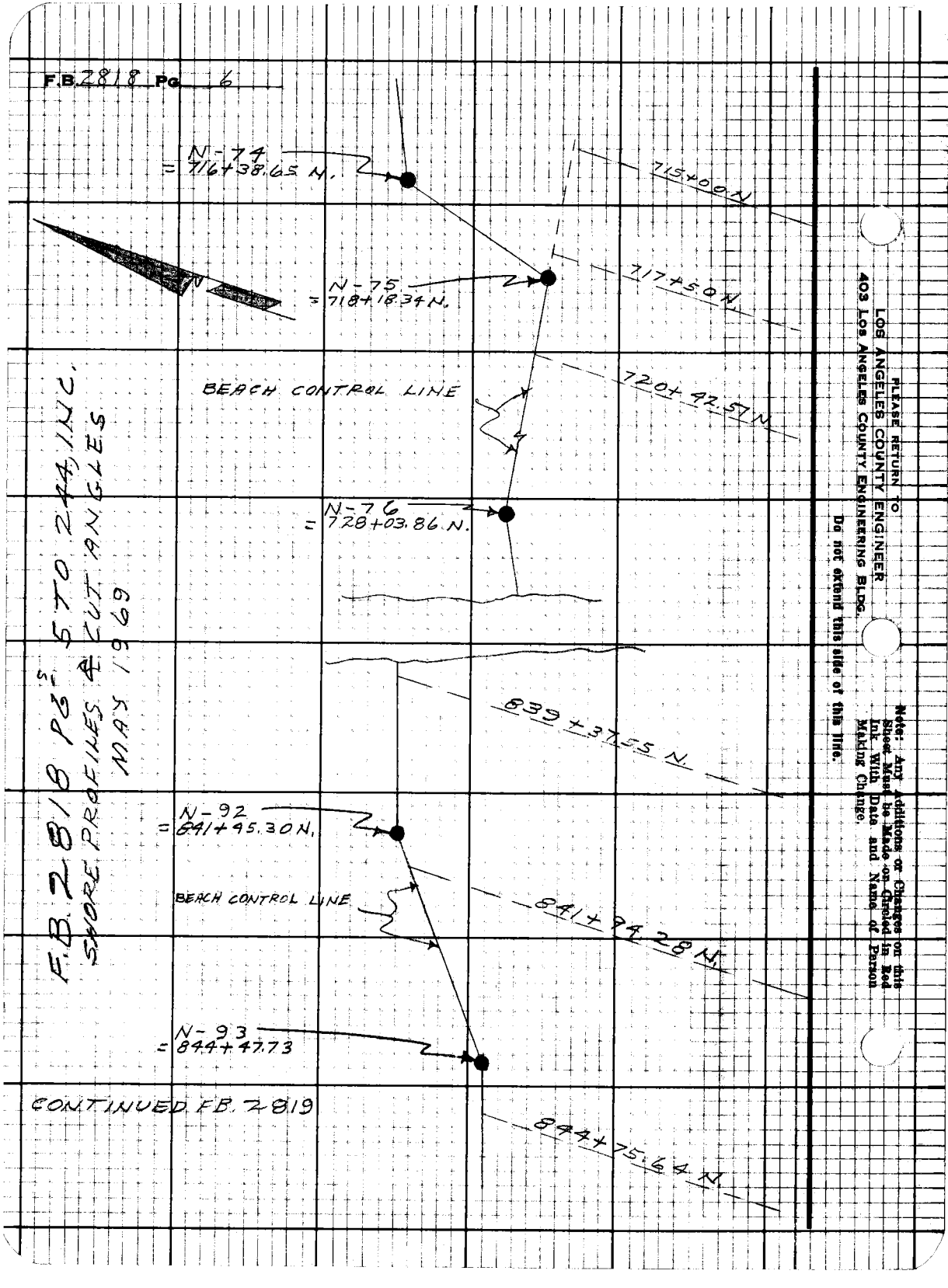
HYDROGRAPHIC SURVEYS

MALIBU AREA

ON STA 715+00.00 N. TO STA. 841+94.28 N., INC.

HARDS	BAZEN	CURTIS	DRETER	
LKS	SOPER	KAPP	FOULGER	
KSON		LIEBER	SIEMAN	
LIER		RODRIGUEZ	STROUD	
		TURRIZL	MATTHIES	SWIMMERS
		BUSTRUM	PAYNE	SWIMMERS

F.B. 2818 Pg. 6



F.B. 2818 Pgs. 5 TO 24, INC.
SHORE PROFILES & CUT. ANGLES
MAY 1969

CONTINUED F.B. 2819

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

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Notes Ck'd by	Survey of Hyd. Survey Malibu Area	F.B. 2818 Pg. 7
Map No.	J.N. 0300.02 Tape Std °F	
Office Work	Surveyed by G.S. Curtis	
Checked	Notes Curtis Date 4-69	
Date	Indexed	

J.N. 0300.02
MALIBU AREA
HYDROGRAPHIC SURVEY.
Locations of
715+00 and 717+50.

Curtis
Kapp
Rodriguez
Lieber.

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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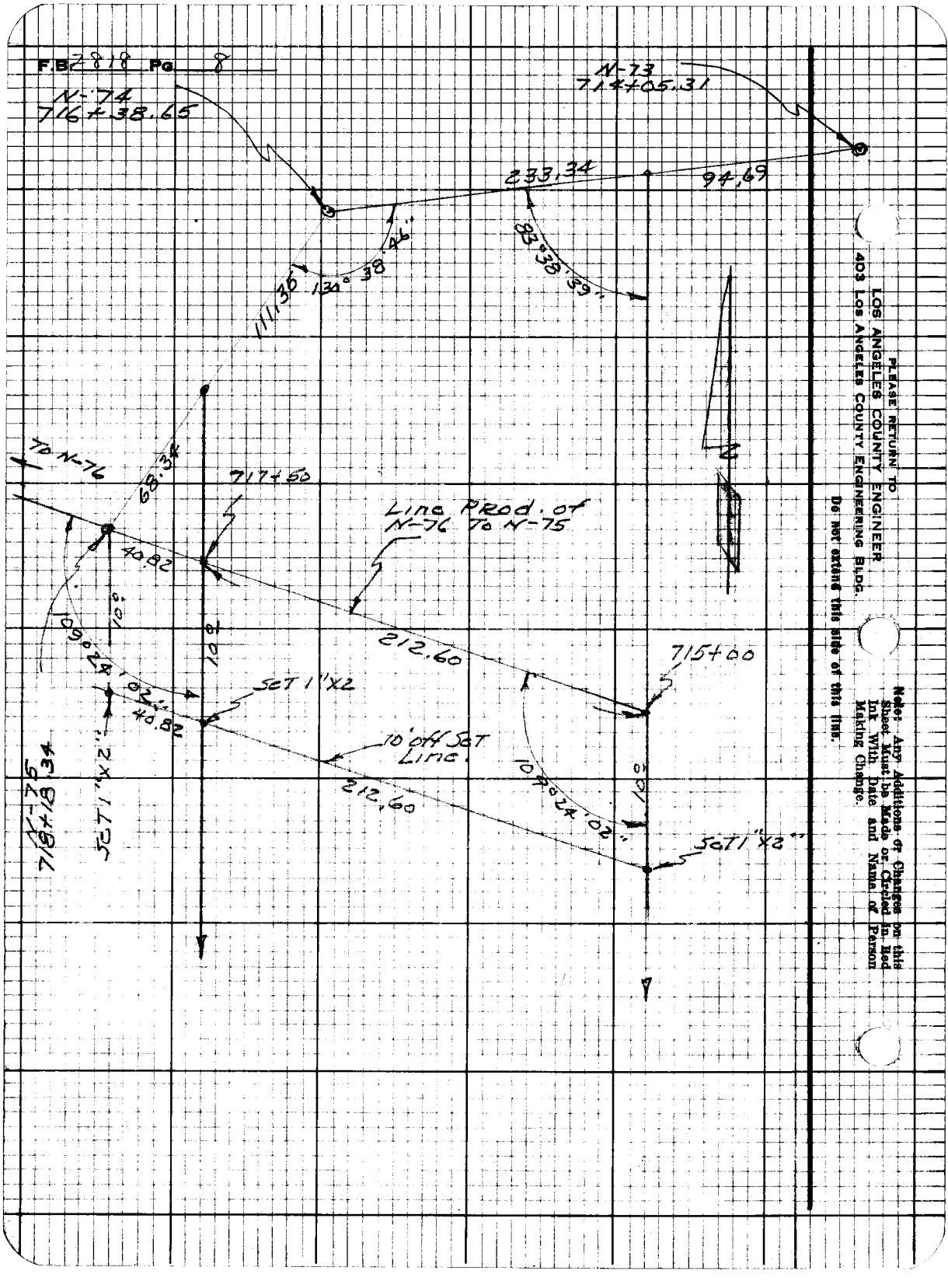
76F3098 CE#310 9.67

F.B. 2818 Pg. 8



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76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.		
			STA.	715+00	(See sketch)	Distances from offset
	Sight on 10' off		N-75		Set on 10' off Line Prod.	* = 107°24' [illegible] Lt.
T.B.M. #1				13.21	T.B.M. #1 El. 13.21 MLLW. near SW. Cor. Ho. # 18514	F.B. 3790-102 Bt. spk in Plank fence.
			✓	12.29	1"X2" off Set Pt.	Bot Brk
				15.48	1"X2	10' Rt. Sand Brk
				7.1		31' Rt "
					⊼ on N-75 Sight on	N-74
	0 37	12 66		12 29	1X2 T.P. 10 FT LEFT	
			24	10 3	21 FT LEFT BRK	FROM TRUE CONTROL LINE
			43	8 4	50 " "	"
			81	4 6	88 " " M.H.T.	"
	126	8 88	504	7 62	T.P.	
			59	3 0	Δ # 1 17° 36'	300'
			85	0 4	2 24 16	339
			94	-0 5	3 30 17	380
			129	-4 0	4 36 24	430
			125	-3 6	5 40 17	470
			146	-5 7	6 42 20	491
	148	8 47	189	6 99	T.P.	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. ____ Division No. ____
Date ____ Date ____ Survey of [illegible] Survey
X-Sec. No. ____ Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes ____ Date 5-[illegible]
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 2816 Pg. 9

F. B. 2818 PG. 10 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

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76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

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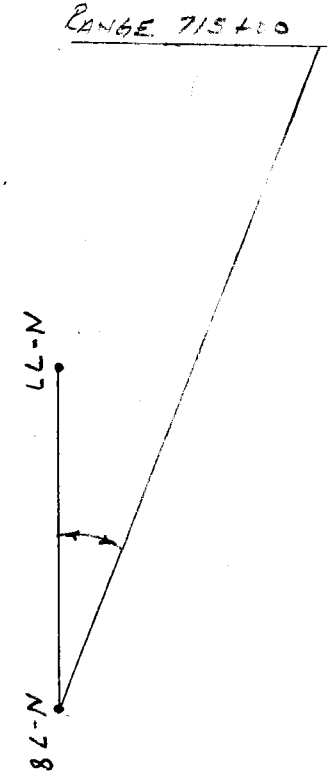
Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	FOR OFFICE USE ONLY LINE MIN.	FOR OFFICE USE ONLY ~~CARD Nº~~ EL.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
N-78	N-77	8:55	1	29	04			36.0
		P.S.T.	2	27	49			33.5
			3	26	58			34.0
			4	25	48			32.9
			5	24	33			30.9
			6	23	12			29.0
			7	21	36			26.8
			8	20	09			24.0
			9	18	58			22.8
			10	17	45			20.9
			11	16	34			19.0
			12	15	18			16.0
			13	13	48			15.8
			14	12	34			15.0
			15	11	29			11.6
			16	9	53			10.5
			17	8	40			10.0
			18	7	51			7.3
			19	6	50			7.1
		8:59	20	5	52			-5.0



Profile No.____ Notes Red.____ Plotted____ Job No. 0300.02 Division No. 11 F. B. 2818 PG. 11

X-Sec. No.____ Date____ Date____ Survey of MALIBU HYDRO SURVEY

Notes Chkd.____ Checked____ Survey by RICHARDS Notes DON Date 5-1-69

Date____ Date____ Map No.____ Indexed____ Date____

F. B. 2817 Pg. 12 | Job No. _____ Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

761298 307 Cdb 12-62

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Do not extend notes this side of this line.

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

76-L-298 CE 307 5-66

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
(Distances from offset Line)					STA. 717+50 (See Sketch),	
Sight on 10' off N-75					Set on 10' off Line Prod.	∡ = 109° 24' 02" Lt.
T.B.M. #1				13.21	T.B.M. #1 El. 13.21 FB 3790-102	Bt. spk
T.P.				9.94	1"x2" on 10' offset Line	
T.P.				10.66	T.P.	10' Rt 1"x2 True Line
				11.7		29' Rt. Bot Brk
				15.8		35' Rt. Top Brk
					⊼ AT N 75 SIGHT ON N 74 (TRUE LINE)	
		8 47			FROM PREVIOUS LINE - 715+00 BOT PG.	
			170	-85	∡ # 1 94° 25.	ROCKY BOTTOM SCATTERED
			145	-60	2 91 04	
			118	-33	3 83 26	
			102	-17	4 74 35	
			80	05	5 59 32	DATUM MEAN LOWER LOW WATER
			68	17	6 45 53	
			52	33	7 37 03	
			39	46	65 FT LEFT M.H.T.	

CONT.

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. 11 F.B. 2218 PG. 13
No. ____ Date ____ Date ____ Survey of Chalmers Hyd. Survey
X-Sec. Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date 5-17
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 14 | Job No. 0300.02 | Division No. 11 | Notes Red | Plotted | Profile

Survey of MALIBU AREA HYDRO STUDY | Date | Date | No.

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

Indexed | Date | Date | Date | No.

76-L-298 CE 307 5-66

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

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STATION	B. S.	H. I.	F. S.	ELEV.	
			CONT.		
	422	8 47			
		11 70	0 99	7 48	T.P.
			1 76	9 94	T.P. 1X2 10 FT LEFT

76L298 307 Cdb 12-62

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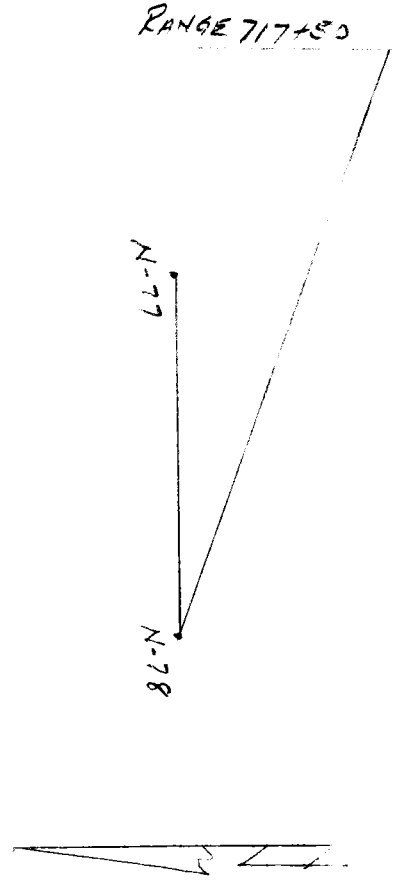
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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						
N-78	N-77	9:08	1	36	13				
		P.S.T.	2	34	27				
			3	33	08				
			4	31	51				
			5	29	46				
			6	27	40				
			7	25	21				
			8	23	02				
			9	21	09				
			10	19	11				
			11	17	26				
			12	15	57				
			13	14	34				
			14	13	47				
			15	12	40				
			16	11	25				
			17	10	46				
			18	9	28				
			19	8	23				
			20	7	12				5.0



Profile No. ____ Notes Red. ____ Plotted ____ Job No. A300.02 Division No. 11 F. B. 2810 PG. 15

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

Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes DON Date 5-1-67

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

F. B. 2818 Pg. 16 | Job No. ____ Division No. ____ Notes Red. ____ Plotted ____ Profile

Survey of SAME Date ____ Date ____ No. ____

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

Indexed ____ Date ____ Date ____ Date ____ No. ____

761298 307 Cdb 12-62

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Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
		9:13	21	6	00			

76-L-298 CE 307 5-66

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
		STA. 720+42.57,				
		SIGHT on N-76			109° 24' Lt.	
T.P.				10.66	T.P. 1"x2' Cont from Line 717+50	
T.P.				10.15	T.P. 1"x2" on Line L	
				12.6	21' Rt. Bot Brk	
				15.1	31' Rt. Top "	
					NOTE GROIN AT 720+01 ONLY SLIGHTLY [illegible] SAND - NO DIFF. IN PROFILE	
	1 46	11 61		10 15		
			7 0	4 6	48 FT LEFT M. HT.	
	2 51	8 11	5 01	6 60	T.P. ⊼ AT N 75 SIGHT ON N 76 (TRUE LINE)	
			5 8	2 3	⊼ #1 12° 05'	
			7 5	0 6	2 21° 30'	
			9 2	- 1 1	3 37 03	
			10 8	- 2 7	4 48 00	
			12 6	- 4 5	5 58 15	
			14 5	- 6 4	6 67 34	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. ____ Division No. 11 F.B. 2816 PG. 17
X-Sec. No. ____ Date ____ Date ____ Survey of [illegible] Survey
Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes 450 Date 5-1969
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 18 Job No. 0300.02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Malibu Area Hyd. Survey Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76-L-298 CE 307 5-66

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

76L298 307 Cdb 12-62

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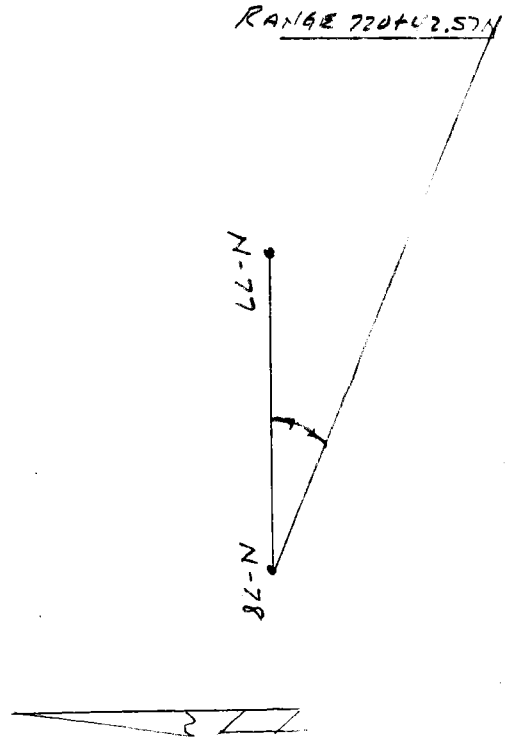
Do not extend notes this side of this line.

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					
N-78	N-77	9:22	1	38	56			
		P.S.T.	2	37	05			
			3	35	09			
			4	33	38			
			5	31	36			
			6	29	07			
			7	26	44			
			8	24	26			
			9	22	03			
			10	19	07			
			11	16	56			
			12	14	37			
			13	12	30			
			14	10	21			
			15	8	41			
			16	6	36			
			17	4	58			
		9:27	18	3	46			



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2818 Pg. 19

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

Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes DON Date 5-1-69

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

F. B. 2818 Pg. 20 | Job No. ____ Division No. ____ Notes Red. ____ Plotted ____ Profile

Survey of ____ Date ____ Date ____ No. ____

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

Indexed ____ Date ____ Date ____ Date ____ No. ____

761298 307 Cdb 12-62

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

76-L-298 CE 307 5-66

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
			Sta 723+07.62			
	Sight on N-76			109°24' Lt.		
T.B.M. #2				12.91	TBM #2 El. 12.91	
T.P.				9.69	T.P. 1"x2 Line	
				12.7		35' Rt. Bot Brk.
				15.7		41' Rt. Top Brk.
					⊼ AT N 75 SIGHT ON N-76 (TRUE LINE)	
	0 00	969		9.69	T.P. 1x2	
			149	-52	∡ 1	40° 51'
			155	-68	2	37 48
			143	-46	3	30 06
			114	-17	4	20 47
			96	01	5	14 37
			77	20	6	8 58
			56	41	7	4 53
			51	46	37 FT LEFT M.H.T.	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. ____ Division No. 11 F. B. 28 Pg. 21
X-Sec. No. ____ Notes Chk'd. ____ Date ____ Checked ____ Date ____ Survey of Malibu Area Hyd. Survey
Survey by ____ Notes ____ Date ____
Map No. ____ Indexed ____ Date ____

F. B. 2818 Pg. 22 Job No.____ Division No.____ Notes Red____ Plotted____ Profile

Survey of____ Date____ Date____ No.____

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

Indexed____ Date____ Date____ Date____ No.____

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

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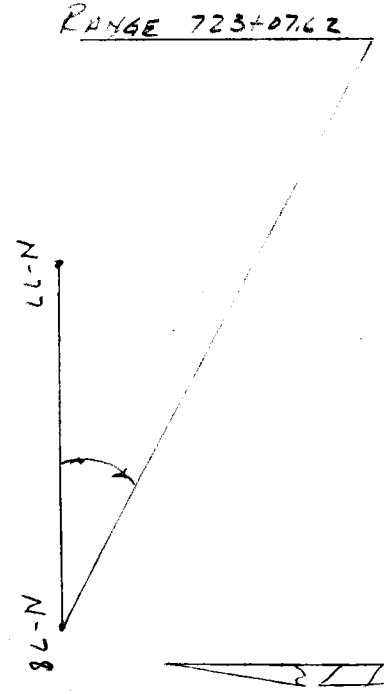
Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
N-78	N-77	9:36	1	38	34			
		P.S.T.	2	37	14			
			3	35	15			
			4	32	42			
			5	30	30			
			6	28	06			
			7	25	19			
			8	22	03			
			9	19	01			
			10	16	04			
			11	13	30			
			12	10	53			
			13	8	58			
			14	6	53			
		9:39	15	5	09			



Profile No.____ Date____ Notes Red.____ Date____ Plotted____ Date____ Job No. 330.02 Division No. 11 F. B. 2818 PG. 23

X-Sec. No.____ Date____ Notes Chkd.____ Date____ Checked____ Date____ Map No.____ Date____ Indexed____ Date____

Survey of MALIBU HYDRO SURVEY

Survey by RICHARDS Notes DON Date 5-1-69

F. B. 2818 PG. 29 | Job No. ____ Division No. ____ Notes Red. ____ Plotted ____ Profile

Survey of ____ Date ____ Date ____ No. ____

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

Indexed ____ Date ____ Date ____ Date ____ No. ____

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

76-L-298 CE 307 5-66

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	GROIN 725+16	
	097	12 39 4		11 42	T.P. 1X2 STA 725+72	
			38	86	℄ AT 725+15	
			22	102	13 RIGHT	
			+18	142	43 RIGHT	
			56	68	15 LEFT	
			85	39	43 "	
			97	27	58 " END OF GROIN (TOP 1.5 ABOVE SAND	
			27	97	℄ AT 725+17	↑
			11	113	13 RIGHT	SAND FLUSH WITH
			+18	142	43 RIGHT	TOP OF GROIN
			44	80	15 LEFT	↓
			80	44	43	
			97	27	58	SAND 1.5 BELOW TOP OF GROIN
					↓	
					GROIN NEARLY NO-EXISTANT	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 030402 Division No. 11 F. B. 2818 Pg. 25
Date ____ Date ____ Survey of MALIBU AREA HYDRO
X-Sec. No. ____ Notes Chk'd. ____ Checked ____ Survey by DREIER Notes DREIER Date 5-1-69
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 26

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

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

76-L-298 CE 307 5-66

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
		Sta. 725+72.67				
		Sight on N-76			109° 24' Lt.	
T.P.				9.69	T.P. from Sta. 723+07.62	
T.P.			—	11.42	T.P. 1"x2" on line	
				12.0		[illegible] Bt. Bot [illegible] Ret. Wall
				17.0		[illegible] " Top "
T.B.M. #3				10.47	T.B.M. #3 EL. 10.48 F.B. 3790-103 Bt. spl. in Pile @ S.W. Cor. Ho. # 189.48	
	097	1239		11 42	T.P.	⊼ AT N-75 SIGHT ON N 76
	054	883	410	8 29	T.P.	
			42	46	44 FT LEFT M.H.T.	
			72	06	∡ #1 05° 41'	
			97	-09	2 8 56	
			116	-28	3 14 16	
			133	-45	4 19 30	
			148	-60	5 25 48	
			165	-77	6 29 37	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. 11 F.B. 2818 Pg. 27
No. ____ Date ____ Date ____ Survey of Malibu Area Hyd. Survey
X-Sec. Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date 5-1-69
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 28 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

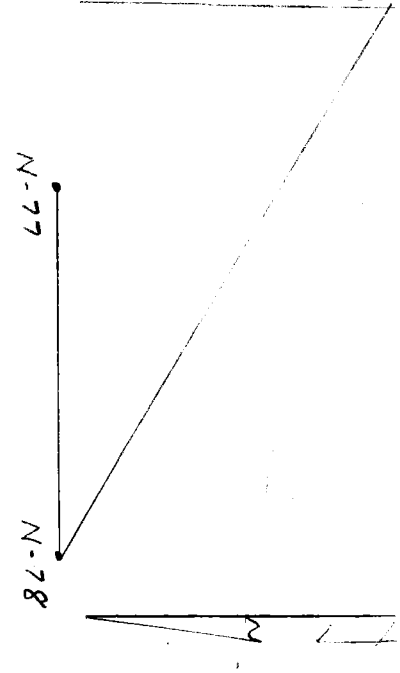
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
N-78	N-77	9:51	1	43	46			
		P.S.T.	2	42	57			
			3	41	52			
			4	40	31			
			5	39	14			
			6	38	08			
			7	36	29			
			8	34	44			
			9	33	13			
			10	31	11			
			11	29	26			
			12	27	31			
			13	25	00			
			14	22	48			
			15	20	50			
			16	18	31			
			17	16	17			
			18	13	59			
			19	12	08			
			20	10	22			

RANGE 725+72.67



Profile No.____ Notes Red.____ Date____ Plotted____ Date____ Job No. 0300.02 Division No. 11 F. B. 2818 PG. 79

X-Sec. No.____ Notes Chkd.____ Date____ Checked____ Date____ Survey of MAL/134 NKPRO SUKUK

Survey by RICHARD S Notes DON Date 5-1-69

Map No.____ Indexed____ Date____

F. B. 2818 PG. 30

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

Survey of SAME Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L298 307 Cdb 12-62

PLEASE RETURN TO

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT DON'T PUNCH	SIGHT ON DON'T PUNCH	TIME DON'T PUNCH	ANGLE Nº DON'T PUNCH	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº.
			21	8	36			
			21	6	46			
		9.56	23	4	43			

76-L-298 CE 307 5-66

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
			STA. 728+35.83			
		Sight	on N-77		92° 35' Lt.	
T.B.M. #3				10.48	T.B.M. #3 El. 10.48 Bt spk in pile @ S.W. Cor. Ho. # 18948	
T.P.				- 8.68	T.P. 1"X2" @ Sta - on Line	Sand
				12.1	Sand	36' Rt. Bot Brk
				14.4	"	35' Rt Top Brk
					⊼ AT N 75 SIGH N-76	
-	-010	8 58 6		8 68	T.P.	
			172	- 86	⊼ #1 31° 05'	
			155	- 69	2 26 40	
			150	- 64	3 20 52	
			124	- 38	4 15 01	
			105	- 19	5 11 52	
			84	02	6 6 56	
			68	18	7 3 47	
			40	46	31 Ft. LEFT M.H.T.	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. 11 F. B. ____ Pg. 31
No. ____ Date ____ Date ____ Survey of Malibu Creek Hyd. Survey
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 5-1-69
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 32 Job No. Division No. Notes Red Plotted Profile

Survey of Date Date No.

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

Indexed Date Date Date No.

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

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

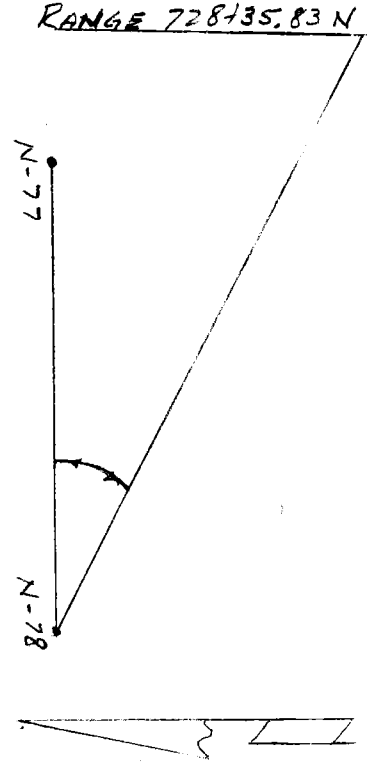
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
N-77	N-78	10:10	1	49	56			
			2	48	38			
			3	47	29			
			4	46	30			
			5	45	42			
			6	44	19			
			7	43	12			
			8	41	51			
			9	40	31			
			10	39	15			
			11	37	50			
			12	36	00			
			13	34	45			
			14	33	25			
			15	31	58			
			16	30	16			
			17	28	15			
			18	26	25			
			19	24	24			
			20	22	30			



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2818 Pg. 33

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes DON Date 5-1-69

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

F. B. 2818 PG. 34 Job No. Division No. Notes Red. Plotted Profile

Survey of SAME Date Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

76L298 307 Cdb 12-62

PLEASE RETURN TO

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT DON'T PUNCH	SIGHT ON DON'T PUNCH	TIME DON'T PUNCH	ANGLE Nº DON'T PUNCH	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº.
			21	20	38			
			22	19	22			
			23	17	43			
			24	15	11			
			25	12	39			
			26	10	37			
		10:15	27	8	24			

76-L-298 CE 307 5-66

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
			STA. 730+86.08			
		Sight on N-77			92°35' Lt.	
T.P.				868	T.P. @ Sta. 728+35.83	
T.P.				7.26	T.P. on Sta, Rocks - 1"x2" stk	
				12.2	36' Rt edge Rocks	
				15.8	40' Rt. "	
TBM #4				8.35	TBM #4 El. 8.35 F.B. 3790-103 (N-77) L & C.E. Tag in Rock	
					⊼ AT N-75 SIGHT ON N-76	
	019	745		726	T.P. ON STA.	
			28	46	14 FT. LEFT M.H.T.	
			51	23	∡ #1 5° 25	SCAT. ROCKS TO 4' DIAM.
			63	11	2 6 26	
			86	-12	3 8 38	
			111	-37	4 11 53	
			124	-50	5 14 13	
			153	-79	6 17 23	
			158	-84	7 20 15	
		Guess	175	-101	8 22 44	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2818 Pg. 35
X-Sec. No. ____ Date ____ Date ____ Survey of Malibu Mtn. Hyd. Survey
Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date [illegible]
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 36

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

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

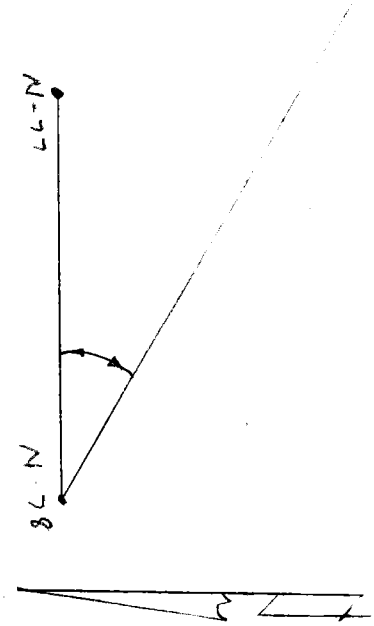
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
N-78	N-77	10:32	1	55	08			
		P.S.T.	2	54	50			
			3	54	23			
			4	53	54			
			5	53	22			
			6	53	04			
			7	52	34			
			8	51	49			
			9	51	04			
			10	49	51			
			11	48	50			
			12	47	27			
			13	45	57			
			14	43	13			
			15	41	05			
			16	38	40			
			17	36	51			
			18	34	46			
			19	32	03			
			20	29	35			

RANGE 730+86.08 N



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2818 Pg. 37

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes DON Date 5-1-69

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

76L298 307 Cdb 12-62

PLEASE RETURN TO

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only		
						Range Line		Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch			Deg.	Min.	
			21	26	47			
			22	24	08			
			23	21	18			
			24	18	18			
			25	15	14			
			26	11	33			
		10:37	27	9	34			

Profile No. ____ X-Sec. No. ____

Plotted ____ Date ____ Checked ____ Date ____

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

Division No. ____ Job No. ____ Notes ____ Date ____

Survey of SAME

Survey by ____

Indexed ____

F. B. 2818 PG. 38

Notes Ck'd by	Survey of HYDROGRAPHIC SURVEY
Map No.	JN 02700.02 Tape — Std — °F
Office Work	Surveyed by RICHARDS
Checked	Notes VHARRIET Date 5-1-69
Date	Indexed

F. B. 2818 PG. 39

TIDE GAGE READINGS
MAY 1, 1969
TIME — P.S.T.
DATUM — M.L.L.W.

TIME	TIDE
6:00	2.5
6:30	3.1
7:00	3.6
7:30	
8:15	4.3
8:30	4.2
9:00	4.2
9:30	4.0
10:00	3.8
10:30	3.4
11:00	3.0
11:30	2.5
12:00	2.1
12:30	1.7
1:00	1.4
1:30	1.3
2:00	1.2

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

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

Do not extend this side of this line.

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

76F309S CE#310 3-68

F. B. 2818 PG. 40

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COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 2-63

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.		
				Sta. 733+39.95		
		Sight on N-78			105° 04' Lt.	
T.B.M. #4				8.35	T.B.M. #4 El. 8.35 F.B. 3790-103 (N-77) L & C.E. Tag in Rock.	
T.P.				8.44	T.P. 1"x2" on Sta.	Sand
				12.5		41' Rt. Bot. Brk Sand
				16.1		50' " Top " "
				21.6		73 " " " Hiway
					⊼ AT N 77 SIGHT N-78	
	+011	8.55 6		8.44	T.P. (NOTE GROIN AT 732+92, SAND SAME BOTH SIDES & CONFORMS WITH BEACH	
			40	46	30 FT LEFT M.H.T.	
			58	28	⊼ #1 26° 20'	
			82	04	2 42 15	
			91	-05	3 58 04	
			105	-19	4 67 43	
			144	-58	5 76 50	
			146	-60	6 79 08	

DATUM
DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2818 Pg. 41
No. ____ Date ____ Date ____ Survey of Malibu Area-Hyd. Survey
X-Sec. Notes Chkd. ____ Checked ____ Survey by Curtis Notes H.E.C. Date 5-2-69
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 2818 Pg. 42

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

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

78-L-298 CE 307 2-63

PLEASE RETURN TO

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403 Los Angeles County Engineering Bldg.

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

76L298 307 Cdb 12-62

PLEASE RETURN TO

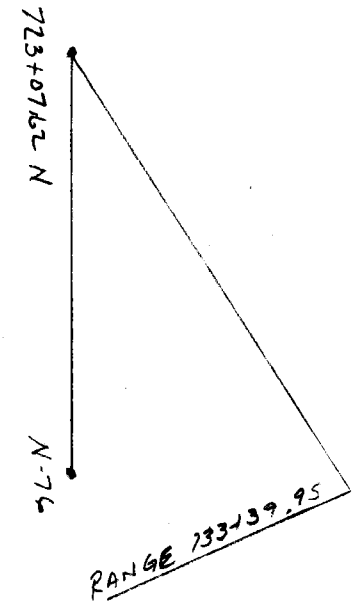
LOS ANGELES COUNTY SURVEYOR

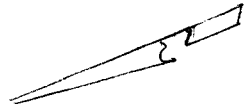
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
723+07	N-76	8:04	1	283	06			
		P.S.T.	2	284	33			
			3	285	58			
			4	287	26			
			5	289	22			
			6	291	22			
			7	293	24			
			8	295	07			
			9	297	20			
			10	299	28			
			11	302	04			
			12	304	02			
			13	306	27			
			14	308	33			
			15	310	01			
			16	310	47			
			17	313	22			
			18	315	31			
			19	317	48			
			20	320	34			





Profile No. ____ Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 11 F. B. 2818 Pg. 43

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

Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by RICHARDS Notes DRN Date 5-2-69

Map No. ____ Date ____ Indexed ____ Date ____

F. B. 2818 PG. 44 Job No. _____ Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of SAME Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT DON'T PUNCH	SIGHT ON DON'T PUNCH	TIME DON'T PUNCH	ANGLE Nº DON'T PUNCH	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº.
			21	324	24			
			22	327	27			
			23	330	54			
			24	333	29			
			25	335	55			
			26	339	02			
			27	342	23			
		8:09	28	343	42			

76-L-298 CE 307 2-63

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.		
			Sta. 735+98.86			
	Sight on N-78				105°04' Lt.	
T.P.				8.44	TP - Sta 733+39.95	
T.P.				6.35	T.P. @ Sta. 1"x2"	
				11.0		27' Rt. Bot. wd Rct. Wall
				13.1		27' " Top " " "
					⊼ ON N 77 SIGHT ON N 78	
	1.65	8.00		6.35		
		"	15.6	-7.6	4 #1 44° 31	
			14.5	-6.5	2 35 20	
			12.4	-4.4	3 27 19	
			9.1	-1.1	4 18 36	
			7.2	0.8	5 11 03	
			6.2	1.8	6 7 13	
			4.3	3.7	7 3 55	
			3.4	4.6	15 FT LEFT M.H.T.	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2818 Pg. 45
No. ____ Date ____ Date ____ Survey of Malibu Area - Hyd. Survey
X-Sec. Notes Chkd. ____ Checked ____ Survey by Curtis Notes ASC. Date 5-2-69
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 46 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76-L-298 CE 307 2-63

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

76L298 307 Cdb 12-62

PLEASE RETURN TO

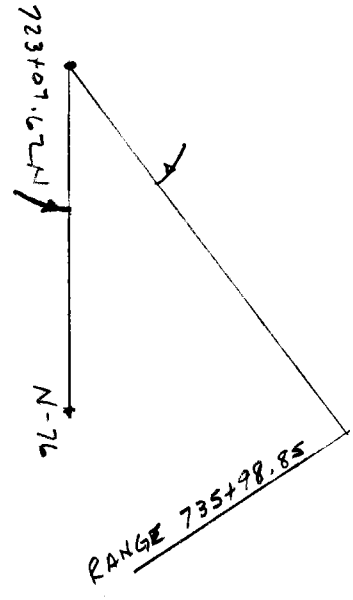
LOS ANGELES COUNTY SURVEYOR

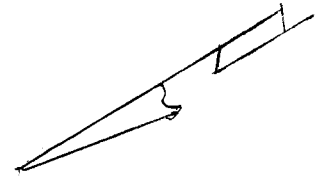
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
723+07	N-76	8:17	1	285	20	74	40	
		P.S.T.	2	286	59	73	01	
			3	288	40	71	20	
			4	290	09	69	51	
			5	291	55	68	05	
			6	293	44	67	16	
			7	295	50	64	10	
			8	297	46	62	14	
			9	299	28	60	32	
			10	301	38	58	22	
			11	303	48	56	12	
			12	305	38	54	22	
			13	307	25	52	35	
			14	309	37	50	23	
			15	311	26	48	34	
			16	313	19	46	41	
			17	315	33	44	27	
			18	317	23	42	37	
			19	319	16	40	34	
			20	321	13	38	47	





Profile No.____ Notes Red.____ Date____ Plotted____ Date____ Job No. 8300.02 Division No. 11 F. B. 7818 Pg. 47

X-Sec. No.____ Notes Chkd.____ Date____ Checked____ Date____ Survey of MALIBU HYDRO SURVEY

Survey by RICHARDS Notes DON Date 5-2-69

Map No.____ Indexed____ Date____

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F. B. 2818 Pg. 48 Job No. SAME Division No. Notes Red. Plotted

Survey of Date Date

Survey by Notes Notes Chkd. Checked

Indexed Date Date

Profile No. X-Sec. No.

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
			21	323	20	36	40	
			22	326	03	33	57	
			23	328	36	31	24	
			24	331	31	28	29	
			25	333	43	26	17	
			26	335	36	24	24	
			27	337	46	22	14	
			28	339	41	20	19	
			29	341	52	18	08	
			30	344	05	15	55	
		8:23	31	345	06	14	54	

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	737+67± GROIN
	720	1506		786	TP. 738+56.72 KZ
			56	95	℄ 737+67± TOP GROIN
			89	62	℄ 737+67 SAND E. OF GROIN
			46	105	7 FT. RT. TOP OF GROIN & SAND
			79	72	" SAND E. SIDE OF GROIN
			35	116	28 " " E. " " "
			48	103	28 TOP OF GROIN & SAND TO W.
			17	134	55 TOP " " & SAND E. & W.
			82	69	28 FT LEFT TOP SLY END OF GROIN
			113	38	28 " " SAND " " W.
			123	28	28 " " " " " OF GROIN E.
			122	29	50 FT LEFT SAND

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 4 F. B. [illegible] Pg. [illegible]
No. ____ Date ____ Date ____ Survey of MALIBU AREA HYDRO
X-Sec. Notes Chk'd. ____ Checked ____ Survey by DREIER Notes DREIER Date 5-2-69
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 50 Job No. ____ Division No. ____ Notes Red ____ Plotted ____ Profile

Survey of ____ Date ____ Date ____ No. ____

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

Indexed ____ Date ____ Date ____ Date ____ No. ____

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

Do not extend notes this side of this line.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
			STA 738+56.72			
	Sight on N-79				89° 32' Lt.	
TP				6.35	T.P. 1"x2 @ Sta 735+93.85	
TP				7.86	T.P. @ Sta. 1"x2" [illegible]	
				123	Sand 41' Rt. [illegible]	
TBM #5				8.64	TBM #5 El. 8.64 FB. 3790-103 Bt. spk. in Pile @ St [illegible] No. #19112	
					⊼ AT N 77 SIGHT ON N-78	
	0 45	8 31		7 86		
			3 7	4 6	25 FT LEFT M.H.T	
			6 2	2 1	∡ #1 5° 10'	
			7 5	0 8	2 8 59	
			8 1	0 2	3 13 15	
		? ←	9 4	-1 1	4 19 27	(MAY HAVE BEEN ON ROCK
			15 0	-6 7	5 25 21	
			15 5	-7 2	6 31 33	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. ____ Division No. ____ F. B. 281 PG. 51
X-Sec. No. ____ Date ____ Date ____ Survey of Hal Lu Pikin - Hyd. Survey
Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date 5-2-69
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 52 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

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76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

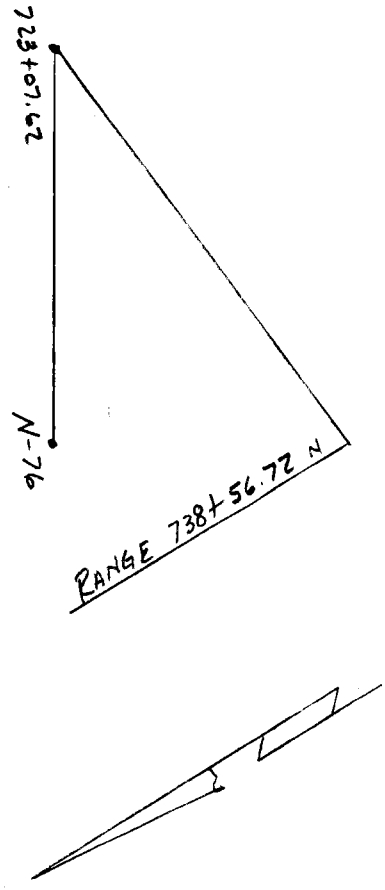
LOS ANGELES COUNTY SURVEYOR

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					
723+07	N-76	8:31	1	293	46	66	14	
			2	295	04	64	56	
			3	296	54	63	06	
			4	298	28	61	32	
			5	300	08	59	52	
			6	301	46	58	14	
			7	303	29	56	31	
			8	305	14	54	46	
			9	307	35	52	25	
			10	309	55	50	05	
			11	311	56	48	04	
			12	313	50	46	10	
			13	316	13	43	47	
			14	318	02	41	58	
			15	320	38	39	22	
			16	322	45	37	15	
			17	325	00	35	00	
			18	326	56	33	04	
			19	328	56	31	04	
			20	330	50	29	10	



Profile No.____ Notes Red.____ Plotted____ Job No. 0300.02 Division No. 11

X-Sec. No.____ Date____ Date____ Survey of MALIBU HYDRO SURVEY

Notes Chkd.____ Checked____ Survey by RICHARDS Notes DON Date 5-2-69

Date____ Date____ Map No.____ Indexed____ Date____

F. B. 78818 PG. 53

76L298 207 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					
			21	332	46	27	14	
			22	334	42	25	18	
			23	336	33	23	27	
			24	338	17	21	43	
			25	339	56	20	04	
			26	342	07	17	53	
			27	344	16	15	44	
			28	346	01	13	59	
		8:36	29	347	35	12	25	

F. B. 2818 PG. 54

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

Survey of Date Date No. X-Sec.

Survey by Notes Notes Chkd. Checked

Indexed Date Date Date No.

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
				STA. 741+06.73		
	Sight on N-79				89° 32' Lt.	
T.S.M. #1				8.41	TBM. #6 El. 841 F.B. 3790-105 (N-79) Lt.	
					in Sea wall	
				5.43	T.P. 1"x2" @ Sta. Sand	
				7.8	27 Rt. Bot Wd. Ret wall [illegible]	
				14.5	29' Rt Top " " "	
		4 6			⊼ ON N-77 SIGHT ON N-78	
	232	7 75		5 43	T.P. 1X2	
		8				
		ESTIM.	180	- 102	∡ #1 32° 03'	
			172	- 94	2 27 44	
			158	- 80	3 22 33	
			129	- 51	4 16 32	
			114	- 36	5 11 27	
			94	- 16	6 9 08	
			65	13	7 7 18	
			32	46	3FT LEFT M.H.T.	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. ____ Division No. 11 F.B. 2818 PG. 55
X-Sec. No. ____ Date ____ Date ____ Survey of [illegible]
Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date [illegible]
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 56 Job No.____ Division No.____ Notes Red____ Plotted____ Profile

Survey of____ Date____ Date____ No.____

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

Indexed____ Date____ Date____ Date____ No.____

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

Do not extend notes this side of this line.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

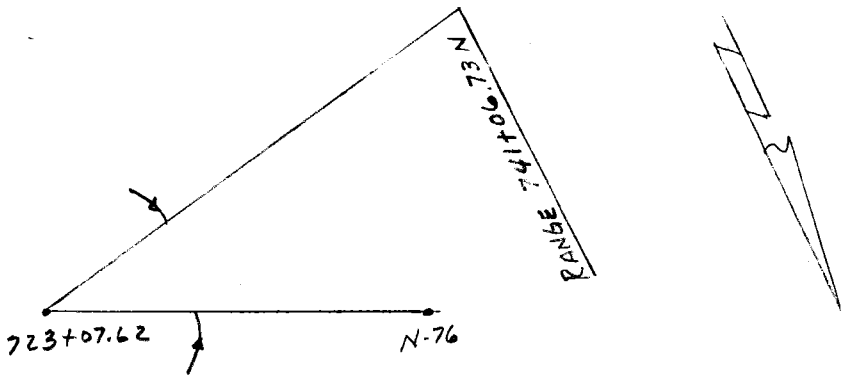
76-L-298 CE 307 5-66

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 0300.02 Division No. 11 F. B. 2818 Pg. 57

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

Notes Chkd. _____ Checked _____ Survey by RICHARDS Notes DON Date 5-2-69

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



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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
723+07	N-76	8:47	1	298	47	61	13	
		P.S.T.	2	300	39	59	21	
			3	302	26	57	34	
			4	304	00	56	00	
			5	305	37	54	23	
			6	306	53	53	07	
			7	308	34	51	26	
			8	310	21	49	39	
			9	311	54	48	06	
			10	313	39	46	21	
			11	315	45	44	15	
			12	317	56	42	04	
			13	320	02	39	58	
			14	321	56	38	04	
			15	323	56	36	04	
			16	325	49	34	11	
			17	328	20	31	40	
			18	330	41	29	19	
			19	333	29	26	31	
			20	335	20	24	40	

76L298 307 Cdb 12-62

76L298 307 Cdb 12-62

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

Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
			21	336	31	23	29	
			22	337	45	22	15	
			23	338	52	21	08	
			24	340	13	19	47	
			25	341	30	18	30	
			26	343	07	16	53	
		8:53	27	344	36	15	24	

F. B. 2818 Pg. 58 | Job No. SAME | Division No. | Notes Red. | Plotted | Profile

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

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

Indexed | Date | Date | Date

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
				Sta. 743+56.74		
		Sight on N-79			50°32'24"	
T.B.M. #6				8.41	T.B.M. #6 El. 8.41 FB 3796-105 (N-79) Left side well	
T.P.				5.31	T.P. 1"x2" @ Sta. Sand	
				10.3	48 Rt Bot. Brk. (Sand)	
				29.1	73 Rt Top Brk. (Hi-way)	
					⊼ at P.O.T. 741+39.10 Sight on N-79	
	1.53	6.84		5.31	T.P. 1x2	
			2.5	4.3	℄ Sand	
			2.2	4.6	2 ft Right M.H.T.	
			6.1	0.7	⊼ 1 8° 33'	
			6.0	0.8	2 15° 00' on	Rock Alayre
			8.4	-1.6	3 26 07	
			10.5	-3.7	4 36 05	
			9.5	-2.7	5 44 15	? Many Big Rocks
			14.2	-7.4	6 50 47	
			14.5	-7.7	7 55 28	
			16.1	-9.3	8 58 55	

DATUM
MEAN LOWER LOW WATER

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

F.B. [illegible] PG. 5

F. B. 2818 Pg. 60

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

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

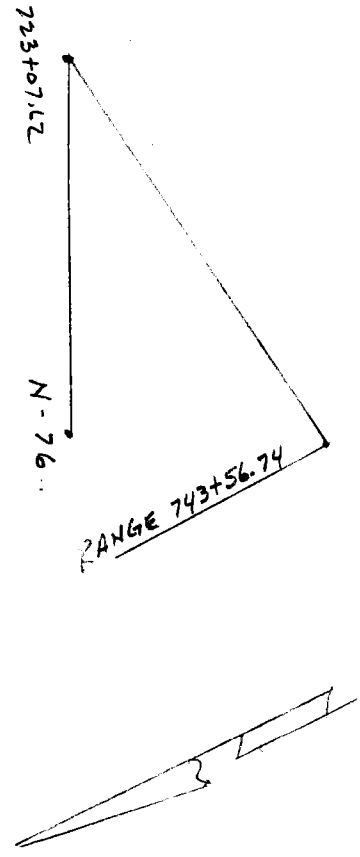
LOS ANGELES COUNTY SURVEYOR

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					
723+07	N-76	9:04	1	306	06	53	54	
			2	308	05	51	55	
			3	309	45	50	15	
			4	311	12	48	48	
			5	312	40	47	20	
			6	314	44	45	16	
			7	316	34	43	26	
			8	318	29	41	31	
			9	320	23	39	37	
			10	322	27	37	32	
			11	324	37	35	23	
			12	326	35	33	25	
			13	328	26	31	34	
			14	330	25	29	35	
			15	332	19	27	41	
			16	334	08	25	52	
			17	335	46	24	14	
			18	337	47	22	13	
			19	339	15	20	45	
			20	340	51	19	09	



Profile No.____ Notes Red.____ Plotted____ Job No. 0300.02 Division No. 11 F.B. 2818 Pg. 61

X-Sec. No.____ Date____ Notes Chkd.____ Date____ Checked____ Date____ Survey of MALLIBU HYDRO SURVEY

Survey by RICHARDS Notes DON Date 5-2-69

Map No.____ Indexed____ Date____

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
			21	342	10	17	50	
			22	343	45	16	15	
			23	344	38	15	22	
		9:07	24	345	20	14	40	

F. B. 2818 PG. 62

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

Survey of SAME Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	744+90.14 N-79 GROIN, CONC.
	293	1134		841	L&TAG N-79, ℄, GROIN
			69	44	℄ SAND E. SIDE "
			39	74	℄ " W.
			09	104	33 FT RT TOP GROIN, & SAND
			43	70	364 LEFT TOP OF GROIN, END
			92	21	" " SAND "
			87	26	" " "
			108	05	55 " " AT END OF BROKEN GROIN

Profile No. ____ Notes Red ____ Plotted ____ Job No. 03[illegible] Division No. 11 F. B. 7818 PG. 63
Date ____ Date ____ Survey of HYDRO SURVEYS
X-Sec. No. ____ Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date ____
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 Pg. 64 | Job No.____ Division No.____ Notes Red____ Plotted____ Profile

Survey of____ Date____ Date____ No.____

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

Indexed____ Date____ Date____ Date____ No.____

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

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76-L-298 CE 307 5-66

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
				Sta. 746+38.57		
		Sight on		N-80	100° 05' Lt.	
T.B.M. #6				8.41	TBM. #6 El. 8.41 F.B. 3770-105 (N-79) LET Sea Wall	
T.P.					T.P. N-80 1"x2"	
				11.4		31 Ft Top Bk.
				12.8		60 Ft Bot Bk [illegible]
				7.3		60 " Top " "
T.P.				7.80	T.P. N-8 1"x2"	
					⊼ ON P.O.T. 741+39.10	SIGHT N 79
	1 12	9 53		8 41		
			3 07	6 46	1x2 ℄ & SAND	
			17 3	-7 8	4" 1 36 20	
			15 7	-6 2	2 29 50	
			15 2	-5 7	3 25 30	
			13 6	-4 1	4 19 35	
			11 6	2 1	5 13 21	
			9 7	0 2	6 7 52	
			8 5	1 0	7 4 48	
			5 9	3 6	8 0 12	
			4 9	4 6	14 FT. LEFT M.H.T.	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. 11 F.B. 2810 Pg. 65
No. ____ Date ____ Date ____ Survey of Malibu Beach - Hyd. Survey
X-Sec. Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date 2-2-[illegible]
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 Pg. 66 Job No. Division No. Notes Red Plotted Profile

Survey of Date Date No.

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

Indexed Date Date Date No.

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

Do not extend notes this side of this line.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

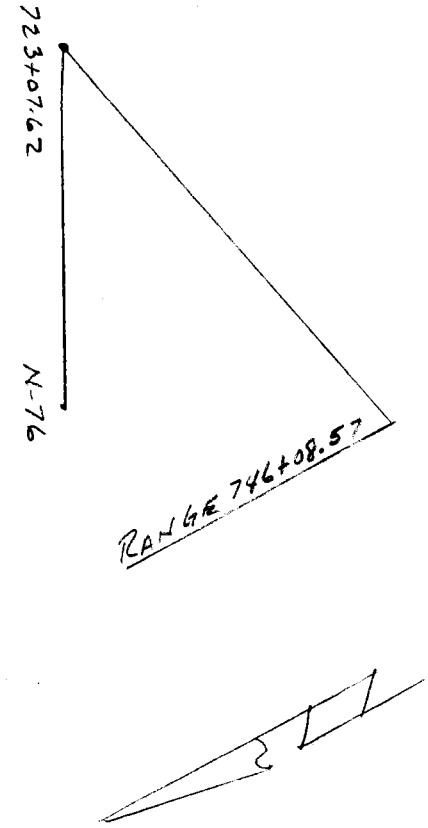
LOS ANGELES COUNTY SURVEYOR

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					
723+07	N-76	9:20	1	305	30	55	30	
		P.S.T.	2	306	30	53	30	
			3	307	24	52	36	
			4	309	14	50	46	
			5	310	35	49	25	
			6	311	50	48	10	
			7	313	27	46	33	
			8	314	47	45	13	
		9:23	9	316	05	43	55	
		9:30	10	314	43	45	17	
			11	316	23	43	37	
			12	317	51	42	09	
			13	319	32	40	28	
			14	321	02	38	58	
			15	323	11	36	49	
			16	324	39	35	21	
			17	326	13	33	47	
			18	327	19	32	41	
			19	328	38	31	22	
			20	329	48	30	12	



Profile No.____ Notes Red.____ Plotted____ Job No. 0300.02 Division No. 11 F.B. 2818 Pg. 17

Date____ Date____ Survey of MALIBU HYDRO SURVEY

X-Sec. No.____ Notes Chkd.____ Date____ Checked____ Survey by RICHARDS Notes DON Date 5-2-69

Date____ Date____ Map No.____ Indexed____ Date____

76L298 307 Cdb 12-62

PLEASE RETURN TO

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
			21	331	05	28	55	
			22	332	26	27	34	
			23	333	40	26	20	
			24	334	56	25	04	
			25	336	07	23	53	
			26	337	03	22	57	
			27	338	04	21	56	
			28	339	15	20	45	
			29	340	31	19	29	
			30	341	32	18	28	
			31	342	43	17	17	
			32	343	26	16	34	
		9:35	33	344	22	15	38	

F. B. 2818 PG. 68

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

Survey of Date Date No. X-Sec.

Survey by Notes Notes Chkd. Checked

Indexed Date Date No.

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
				Sta. 748+64.55		
		Sight on N-81			70°09' Lt.	
T.P.				7.80	T.P. 1"x2" N-80	
				4.92	T.P. 1"x2" Sta. [illegible]	
				10.21		36' Bt Top [illegible]
				11.2	[illegible]	60' Bt [illegible]
				21.2		60' Bt Top
					P.O.T. 41+39.10	SIGHT ON N79
	182	674		4.92	T.P. 1x2 on Sta.	
			21	46	3 FT LEFT	
			52	15	27 FT "	
			78	-11	∡ #1	3° 10'
			92	-25	∟ 2	6 04
			99	-32	3	9 11
			121	-54	4	13 02
			157	-90	5	22 17

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2818 Pg. 69
X-Sec. No. ____ Date ____ Date ____ Survey of Malibu Arsca - Hyd. Survey
Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date [illegible]
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 70 Job No.____ Division No.____ Notes Red____ Plotted____ Profile

Survey of____ Date____ Date____ No.____

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

Indexed____ Date____ Date____ Date____ No.____

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

Do not extend notes this side of this line.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

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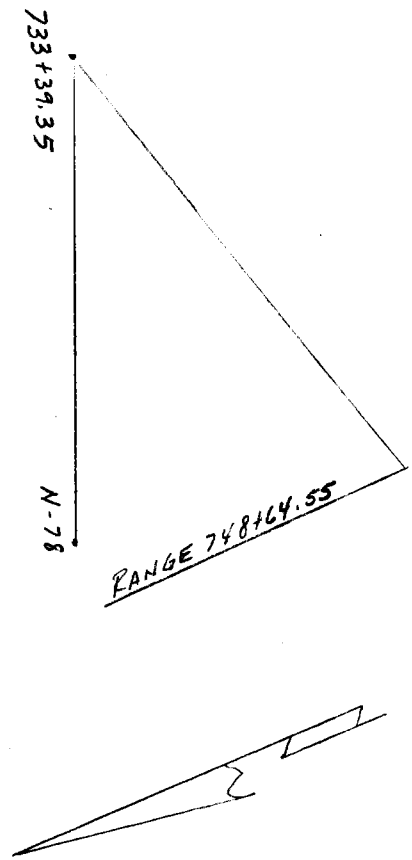
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
733+39	N-78	9:55	1	299	02	60	58	
		P.S.T.	2	302	45	57	15	
			3	304	43	55	17	
			4	306	26	53	34	
			5	308	32	51	28	
			6	310	10	49	50	
			7	311	45	48	15	
			8	312	60	47	00	
			9	314	28	45	32	
			10	315	58	44	02	
			11	317	05	42	55	
		9:58	12	318	47	41	13	
		10:06	13	318	00	42	00	
			14	319	35	40	25	
			15	320	59	39	01	
			16	322	27	37	33	
			17	324	04	35	56	
			18	325	46	34	14	
			19	327	17	32	43	
			20	328	52	31	08	



Profile Notes Red. ____ Plotted ____ Job No. 8300.02 Division No. 11 F. B. 2818 Pg. 71

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes DON Date 5-2-69

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

76L298 307 Cdb 12-62

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LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
			21	330	55	29	05	
			22	332	25	27	35	
			23	334	00	26	00	
			24	335	24	24	36	
			25	336	55	23	05	
			26	338	23	21	37	
			27	339	30	20	30	
			28	340	55	19	05	
			29	342	20	17	40	
		10:09	30	343	31	16	29	

F. B. 2818 Pg. 72 Job No. SAME Division No. Notes Red. Plotted Profile

Survey of Date No.

Survey by Notes Date Checked X-Sec.

Indexed Date Notes Chkd. Date No.

L-298 CE 307 5-66

751+30 34

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	749+75 ℄ GROIN CONC.
	4 05	13 17		9 12	T.P. ROCK
			60	7 2	℄ TOP OF GROIN
			102	30	℄ SAND E. SIDE OF GROIN
			83	4 9	℄ " W. " " "
			37	9 5	32 RT. TOP GROIN
			80	5 2	32 RT SAND E
			15	11 7	60 RT TOP OF GROIN, ROCK BOTH SIDES ELEV SAND
			29	10 3	25 RT. TOP OF ROCKS ON W. SIDE OF GROIN
			70	6 2	11 RT. SAND & BEGIN OF ROCKS ON W. SIDE
			67	6 5	12 LEFT TOP GROIN
			106	2 6	" " SAND E. OF GROIN
			105	2 7	" " " W. " "

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____ F. B. ____
No. ____ Date ____ Date ____ Survey of ____ Pg. ____
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 5-2-69
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 74 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
				Sta. 751	+30.34	
		Sight on N-81			70°09' Lt.	
TP				4.17	TP Rock	
TP				3.76	TP Rock	
TP				4.27	T.P. 1" x 2 @ Sta - Rocks	
				4.5	[illegible]	12' 34 [illegible]
				3.7		12 34 [illegible]
				2.7		[illegible]
				5.6	[illegible]	[illegible]
				9.4		41' [illegible]
TP				8.12	TP Rock	
					⊼ ON P.O.T. 741+39.10 SIGHT ON N-79	
	393	820		427		
			170	-88	∡ #1 20° 51'	
			162	-80	2 17 17	
			147	-65	3 14 33	
			114	-32	4 10 26	
			81	01	5 5 35	
			68	14	6 3 51	
			48	34	℄ SAND	
			36	46	8 FT RIGHT M.H.T.	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. ____ Division No. ____ F. B. [illegible] Pg. 75
X-Sec. No. ____ Date ____ Date ____ Survey of [illegible]
Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date [illegible]
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 76 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 5-66

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

Do not extend notes this side of this line.

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

76L298 307 Cdb 12-62

PLEASE RETURN TO

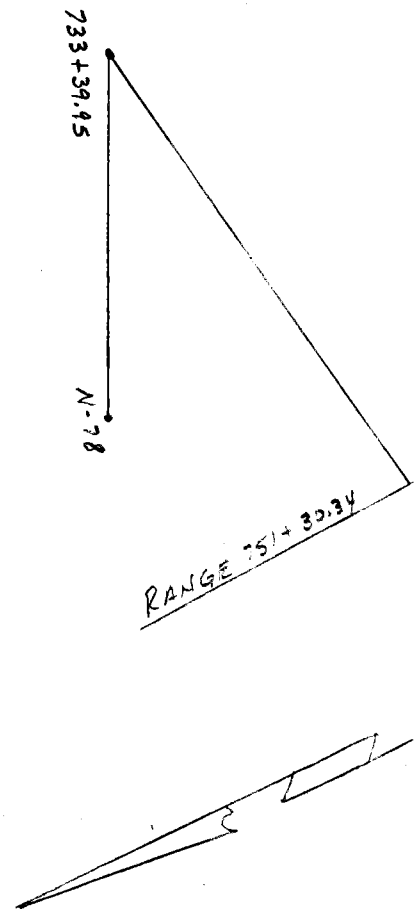
LOS ANGELES COUNTY SURVEYOR

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					
733+39	N-78	10:23	1	301	32	58	28	
		P.S.T.	2	303	03	56	57	
			3	304	07	55	53	
			4	305	40	54	20	
			5	307	05	52	55	
			6	308	32	51	28	
			7	310	00	50	00	
			8	311	28	48	32	
			9	312	49	47	11	
			10	314	19	45	41	
			11	315	50	44	10	
			12	317	32	42	28	
			13	319	14	40	46	
			14	320	51	39	09	
			15	322	31	37	29	
			16	324	20	35	40	
			17	325	41	34	19	
			18	326	59	33	01	
			19	328	20	31	40	
			20	329	51	30	09	



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2818 Pg. 77

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes DON Date 5-2-69

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

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
			21	331	20	28	40	
			22	332	31	27	29	
			23	334	01	25	59	
			24	335	20	24	40	
			25	336	52	23	08	
			26	338	17	21	43	
			27	339	29	20	31	
			28	340	59	19	01	
		10:28	29	342	08	17	52	

F. B. 2818 PG. 78

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

Survey of Date Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed Date Date No.

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
			Sta. 753+	96.13		
		Sight on	N-81		70° 09' Lt.	
T.P.				9.12	T.P. Rock	
T.P.				5.95	T.P. 1"x2" @ Sta	Rocks
				10.5		17' Rt. Rocks
				12.8		29' Rt. Rocks
				6.61	T.P. El. 6.61 FB. 3790-106 L&GE Tag in Jon-Hall (N-81)	
					⊼ ON P.O.T. 741+39.10, SIGHT ON N-79	
	0 50	6 45		5 95	T.P. 1x2	
		46	18	46	6 FT. LEFT M.H.T.	
		18	52	12	A #1 7° 27	
			64	00	2 8 38	
			75	-11	3 10 19	
			91	-27	4 12 24	
			109	-45	5 14 42	
			131	-67	6 17 06	
			161	-97	7 19 16	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. 11 F.B. 2810 Pg. 79
No. ____ Date ____ Date ____ Survey of Hal. Lo. Mem. Hyd. Survey
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 2-2-62
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 Pg. 80

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

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

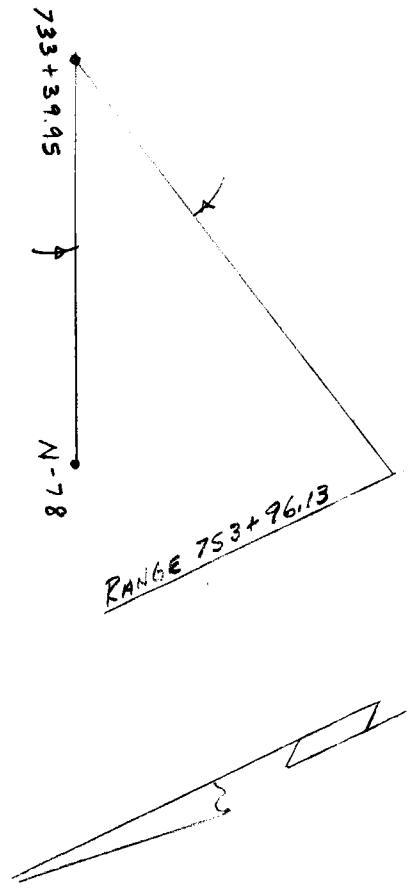
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	FOR OFFICE USE ONLY LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
733+39	N·78	10:38	1	307	51	52	09	
		P.S.T	2	309	04	50	56	
			3	310	18	49	42	
			4	311	35	48	25	
			5	312	54	47	06	
			6	314	33	45	27	
			7	315	39	44	21	
			8	317	04	42	56	
			9	318	26	41	34	
			10	320	01	39	59	
			11	321	30	38	30	
			12	322	53	37	07	
			13	324	23	35	37	
			14	325	30	34	30	
			15	326	57	33	03	
			16	327	44	32	16	
			17	328	43	31	17	
			18	329	41	30	19	
			19	330	58	29	02	
			20	331	55	28	05	
						27	22	



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 7818 Pg. 81

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes DON Date 5-2-69

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

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
			21	332	38	27	22	
			22	333	32	26	28	
			23	334	26	25	34	
			24	335	15	24	45	
			25	336	19	23	41	
			26	337	17	22	43	
			27	338	20	21	40	
			28	339	08	20	52	
		10:43	29	340	21	19	39	

F. B. 2818 PG. 82

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

Survey of Date Date No. X-Sec.

Survey by Notes Notes Chkd. Checked

Indexed Date Date Date No.

Notes Ck'd by	Survey of HYDROGRAPHIC SURVEY
~~Map No.~~	JN 0300.02 Tape — Std — °F
Office Work	Surveyed by RICHARDS
Checked	Notes HARRIET Date 5-2-69
Date	Indexed

F. B. 918 PG. 83

TIDE GAGE READINGS
MAY 2, 1969
TIME — P.S.T.
DATUM — M.L.L.W.

TIME	TIDE
6:00	1.2
6:30	1.8
7:00	2.5
7:30	3.0
8:00	3.5
8:30	3.8
9:00	4.0
9:30	4.1
10:00	4.0
10:30	3.8
11:00	3.5
11:30	3.2
12:00	2.8
12:30	2.4
1:00	2.1
1:30	1.9
2:00	1.7

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

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

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DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-68

F. B. 2818 PG. 84

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DEPARTMENT OF COUNTY ENGINEER
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F. B. 2813 PG. 8[illegible]

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 030062 Division No. ____

X-Sec. No. ____ Notes Chk'd. ____ Date ____ Checked ____ Date ____ Survey of MALISU AREA HYDRO

Survey by [illegible] Notes [illegible] Date 5-5-69

Map No. ____ Indexed ____ Date ____

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403 Los Angeles County Engineering Bldg.

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STATION	B. S.	H. I.	F. S.	ELEV.	
					N81, 754+66.91 GROIN
		GROIN HAS NO APPRECIABLE AFFECT ON BEACH PROFILE. ROCKS AND SAND ARE SAME ELEV, BOTH SIDES OF CONC. OUTER STEEL GROIN CORRUGED OUT BELOW CONC. CAP			

76-L-298 CE 307 5-66

F. B. 2818 PG. 86 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76-L-298 CE 307 5-66

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line. N-81 754+66.91 El [illegible]

STATION	B. S.	H. I.	F. S.	ELEV.		
			Sta. 756+50.43			
		Sight on N-82			71°49' Lt.	
T.B.M. #7				10.85	T.B.M. #7 El. 10.85 FB 3790-106 Co. Sur[illegible] R.E. 63	
				3.79	1"x2" @ Sta. [illegible]	
				11.2	53' Rt. Top Brk. [illegible]	
				15.4	63' Rt. Bot. Brk. [illegible]	
				24.4	75' Rt Top Brk. [illegible]	
[illegible]				[illegible]	T.P. [illegible]	
					⊼ ON N-81 SIGHT ON N-82	
	3 09	6 88		3 79	T.P.	
			23	4 6	11 FT RIGHT	
			57	1 2	∆ #1 9°13'	
			69	0 0	2 16 0	
			94	-2 5	3 30 09	
			104	-3 5	4 42 00	
			151	-8 2	5 54 03	
			165	-9 6	6 59 39	

DATUM
MEAN LOWER LOW WATER

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

F. B. [illegible] PG. 87

F. B. 2818 PG. 88 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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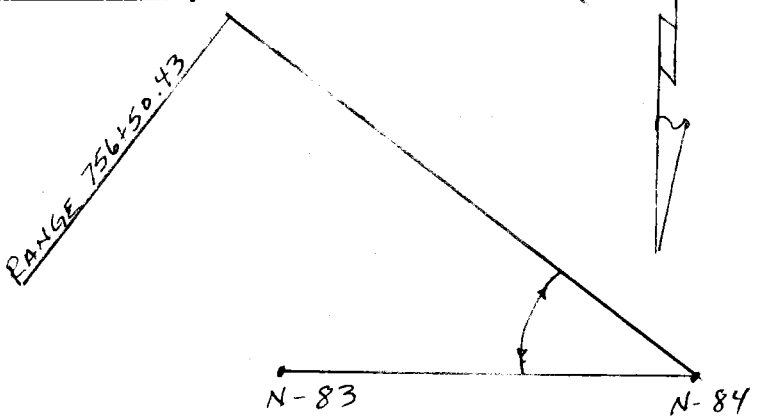
76-L-298 CE 307 5-66

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 7818 Pg. 89

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

Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes DON Date 5-5-69

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



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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
N-84	N-83	9:19	1	45	06			
		P.S.T.	2	44	06			
			3	42	54			
			4	41	30			
			5	40	14			
			6	38	46			
			7	37	12			
			8	35	21			
			9	33	55			
			10	32	32			
			11	31	13			
			12	30	02			
			13	28	46			
			14	27	30			
			15	26	17			
			16	25	09			
			17	24	00			
			18	23	03			
			19	22	09			
			20	21	15			

76L298 307 Cdb 12-62

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
			21	20	30			
			22	19	41			
			23	18	48			
			24	18	21			
			25	17	32			
			26	16	59			
			27	16	05			
		9:24	28	15	35			

F. B. 2818 PG. 90

Job No. 5A17E Division No. Notes Red. Plotted Profile

Survey of Date Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed Date Date No.

76-L-298 CE 307 5-66

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	758+92 GROIN	
					π AT N 81 SIGHT ON N-82	
		6 21				
			10 0	-3 8	∡ #4 18° 36'	E. SIDE OF GROIN
			9 3	-3 1	5 13 28	
			9 5	-3 3	6 7 26	
			5 8	04	7 3 32	
			3 9	2 3	℄ E SIDE OF	GROIN
			0 9	5 3	¢ W.	
			+1 2	7 4	℄ TOP GROIN	

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____ F. B. ____
No. ____ Date ____ Date ____ Survey of ____ Pg. ____
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 Pg. 92 | Job No. 030002 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
			Sta.	759+00.55		
		Sight on		N-82	91°49' Lt.	
T.P.				7.48	T.P. & Pot. Lt on Sea wall	
				5.05	1"x2" @ Sta. Sand.	
				13.3	57' Rt. Bot. Brk Sand	
				21.5	79' Rt. Top " [illegible]	
[illegible]				15.16	T.B.M. #8 El. 15.16 [illegible] (N-82) L&CE Tag on Rock.	
	1 16	6 21		5 05	↑ ON N-81 SIGHT ON N-82	
		ESTIM.	17 8	-11 6	∡ #1 37° 49'	
			15 6	-9 4	2 29 44	
			11 8	-5 6	3 24 08	8 FT. E. OF GROIN
			1 6	4 6	M.H.T.	
			5 6	0 6	8 5° 04'	
			8 8	-2 6	9 16 20	10 W. OF GROIN
			10 6	-4 4	10 21 45	± 15 W. OF LINE, 5 FT W. of GROIN
			14 6	-8 4	11 29 59	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. 03[illegible].02 Division No. 11 F.B. [illegible] Pg. 93
X-Sec. No. ____ Date ____ Date ____ Survey of Malibu Area - Hyd. Survey
Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date [illegible]-5-[illegible]
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 Pg. 94 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

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76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

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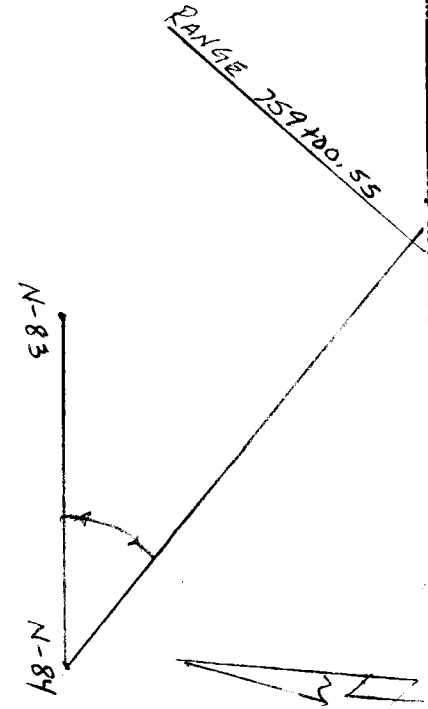
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	FOR OFFICE USE ONLY LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
N-84	N-83	9:31	1	48	54			
		P.S.T.	2	47	58			
			3	46	19			
			4	44	44			
			5	43	02			
			6	41	34			
			7	40	05			
			8	38	21			
			9	36	35			
			10	34	48			
			11	33	21			
			12	31	52			
			13	30	22			
			14	28	53			
			15	27	24			
			16	26	23			
			17	25	17			
			18	24	11			
			19	23	08			
			20	22	16			



Profile

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

Date Date Survey of MALIBU HYDRO SURVEY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes DON Date 5-5-69

No. Date Date Map No. Indexed Date

F. B. 7818 PG. 82

F. B. 2818 PG. 96 Job No. _____ Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of SAME Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L298 307 Cdb 12-62

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INST. AT DON'T PUNCH	SIGHT ON DON'T PUNCH	TIME DON'T PUNCH	ANGLE Nº DON'T PUNCH	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº.
			21	21	30			
			22	20	11			
			23	19	04			
			24	18	16			
			25	17	24			
			26	16	36			
		9:36	27	15	35			

76-L-298 CE 307 5-66

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

Do not extend notes this side of this line. N-82 761+50.67

STATION	B. S.	H. I.	F. S.	ELEV.		
			Sta.	761 +	50.67	
	Sight on		N-82		91°49'24	
TBM #8				15.16	T.B.M. #8 El. 15.16 F.B. 3790-106 (N-82) L&C.E. Tag in Rock.	
				[illegible]	[illegible]	
				[illegible]	3' ± Sand	
				[illegible]	[illegible]	
				1.2	[illegible]	
				14.7	[illegible]	
				[illegible]	[illegible]	
					TT AT N-81, SIGHT N-82	
	0 67	15 83		15 16		
	1 39	7 08	10 14	5 69	T.P. ROCK	
			169	-9 8	A #1 22° 19	
			141	-7 0	2 17 28	
			106	-3 5	3 12 22	
			89	-1 8	4 8 31	AT ROCK
			68	0 3	5 5 34	DATUM MEAN LOWER LOW WATER
			62	0 9	35	
			53	1 8	24	BEGIN SHORE ROCKS
			25	46	10 MHT	

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. 11 F.B. 2818 Pg. 97
No. ____ Date ____ Date ____ Survey of Malibu Pier Hyd. Survey
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 5-5-67
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76-L-298 CE 307 5-66

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F. B. 2818 PG. 98

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

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

Survey by ____ Notes ____ Notes Chk'd. ____ Checked ____

Indexed ____ Date ____ Date ____ Date ____

STATION	B. S.	H. I.	F. S.	ELEV.	761+50.67 ℄ GROIN
		708			
	671	1339	040	668	T.P.
		4	29	105	22 RT E. SIDE, BOT. CUT BANK
			+07	141	22 " TOP GROIN
			+02	136	10 " TOP " BOT " "
			10	124	6 LEFT TOP " BEGIN CONC
			19	115	6 " SAND W. SIDE GROIN
			72	62	50 "
			67	67	75 " END OF CONC. TOP GROIN AT BIG ROCK
			92	42	75 " SAND TO W. OF GROIN

76L298 307 Cdb 12-62

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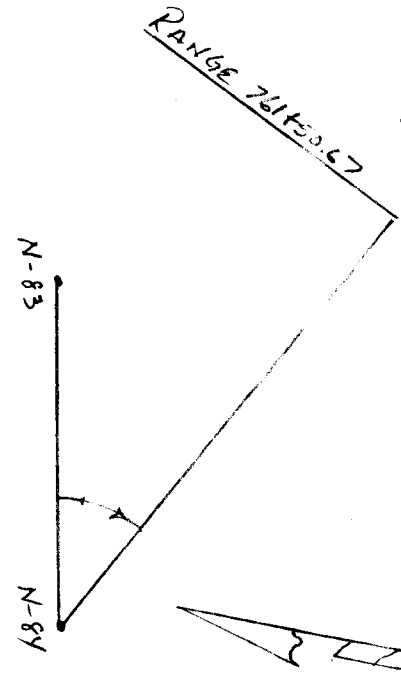
Do not extend notes this side of this line.

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					
N-84	N-83	[illegible]	1	52	29			
		[illegible]	2	51	10			
			3	49	27			
			4	47	55			
			5	46	35			
			6	44	55			
			7	43	18			
			8	41	49			
			9	40	17			
			10	38	51			
			11	37	41			
			12	36	03			
			13	34	21			
			14	33	02			
			15	31	43			
			16	30	32			
			17	28	48			
			18	27	30			
			19	26	04			
			20	24	29			



Profile No.____ Notes Red.____ Plotted____ Job No. 0300 02 Division No. 11 F. B. 78 PG. 92

X-Sec. No.____ Date____ Date____ Survey of MALIBU HYDRO SURVEY

Notes Chkd.____ Date____ Checked____ Survey by RICHARDS Notes DN Date 5-5-69

Map No.____ Date____ Indexed____ Date____

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					
			21	22	51			
			22	21	16			
			23	20	09			
			24	19	01			
			25	17	55			
			26	16	36			
			27	15	54			
		9:51	28	14	42			

F. B. 2818 PG. 100 Job No. SAME Division No. Notes Red. Plotted Profile

Survey of Date Date No. X-Sec.

Survey by Notes Notes Chkd. Checked

Indexed Date Date No.

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	762 + 74 GROIN	
		13 39			CONT FROM 761 + 50.67	
			09	125	℄ TOP OF GROIN	
			43	91	℄ SAND & BEGIN OF ROCK TOWARD SHORE	
			22	112	℄ ROCKS	
			05	139	10 FT RIGHT BOT. OF CUT BANK & END ROCKS	
			51	83	8 FT. LEFT SAND & END OF ROCKS	
			46	88	50 TOP	
			101	33	50 SAND E SIDE OF GROIN	
			101	33	50 " W. " " "	
	0 05	8 54	4 90	849	T.P	
					⊼ AT N 82 SIGHT ON N 83	
			70	15	4 1 27° 03	EAST SIDE OF GROIN
			90	-05	2 35 32	"
			115	-30	3 44 08	"
			131	-46	4 49 55	"
			154	-69	5 54 53	" UNDER WATER HARD TO DETERMINE POSITION
			176	-91	6 59 17	
			140	-55	7 55 16	WEST SIDE OF GROIN
			120	-35	8 50 10	" "
			104	-19	9 38 25	"
			79	06	10 30 19	"

Profile No. ____ Notes Red ____ Plotted ____ Job No. ____ Division No. 11
X-Sec. No. ____ Date ____ Date ____ Survey of ____
Notes Chk'd. ____ Date ____ Checked ____ Date ____ Survey by ____ Date ____
Map No. ____ Date ____ Indexed ____ Date ____ Notes ____

F. B. 2818 Pg. ____

F. B. 2818 PG. 102 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76-L-298 CE 307 5-66

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	✓	
				Sta 764+00.78		
	Sight on N-83				33° 17' Lt.	
				8.11	T.P. @ Sta 1x2'	[illegible]
				13.6		[illegible]
				[illegible]		[illegible]
					⊼ N82 SIGHT N83	
	0 24	8 35		8 11	T.P. 1x2 AT STA.	
			3 8	4 6	14 FT LEFT M.H.T.	
			6 6	1 8	4 #1 10° 07'	
			8 7	0 4	2 17 54	
			12 0	- 3 6	3 30 58	
			13 6	- 5 2	4 37 57	
			16 3	- 7 9	5 44 40	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of Malibu Mesa - Hyd. Survey
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 103

F. B. 2818 PG. 104 Job No.____ Division No.____ Notes Red____ Plotted____ Profile

Survey of____ Date____ Date____ No.____

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

Indexed____ Date____ Date____ Date____ No.____

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

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

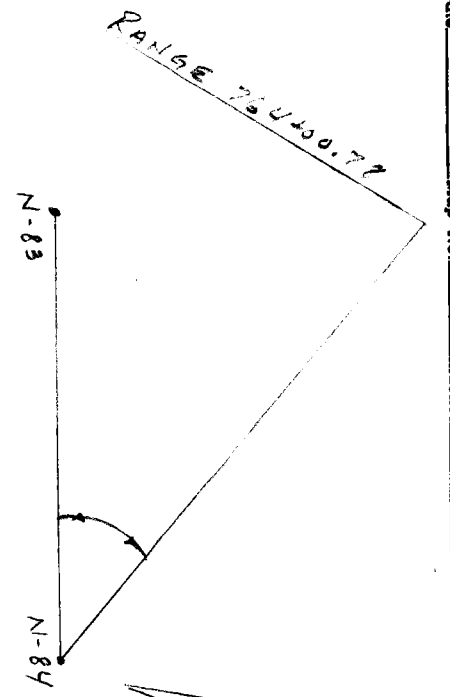
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
N-83	N-84	10:01	1	54	06			
		P.S.T.	2	51	39			
			3	49	43			
			4	47	56			
			5	46	18			
			6	44	43			
			7	42	52			
			8	41	04			
			9	39	01			
			10	36	34			
			11	34	50			
			12	33	09			
			13	31	33			
			14	29	54			
			15	28	01			
			16	26	22			
			17	24	38			
			18	23	05			
			19	21	51			
			20	20	36			



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 7818 Pg. 1125

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes DON Date 5-5-69

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

F. B. 2818 PG. 106 Job No. _____ Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of SAME Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
			21	19	33			
			22	18	04			
			23	17	06			
			24	16	02			
			25	14	32			
		10:05	26	13	41			

Notes Ck'd by	Survey of HYDROGRAPHIC SURVEY
Map No.	JN 0300.02 Tape — Std. — °F
Office Work	Surveyed by RICHARDS
Checked	Notes UHARRIET Date 5-5-69
Date	Indexed

F. B. 2818 PG. 137

TIDE GAGE READINGS
MAY 5, 1969.
TIME — P.S.T.
DATUM — M.L.L.W.

TIME	TIDE
6:00	-0.9
6:30	-0.8
7:00	-0.6
7:30	-0.2
8:00	0.2
8:30	0.7
9:00	1.2
9:30	1.7
10:00	2.1
10:30	2.5
11:00	3.0
11:30	3.2
12:00	3.3
12:30	3.4
1:00	3.5
1:30	3.3
2:00	3.3

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

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

Do not extend this side of this line.

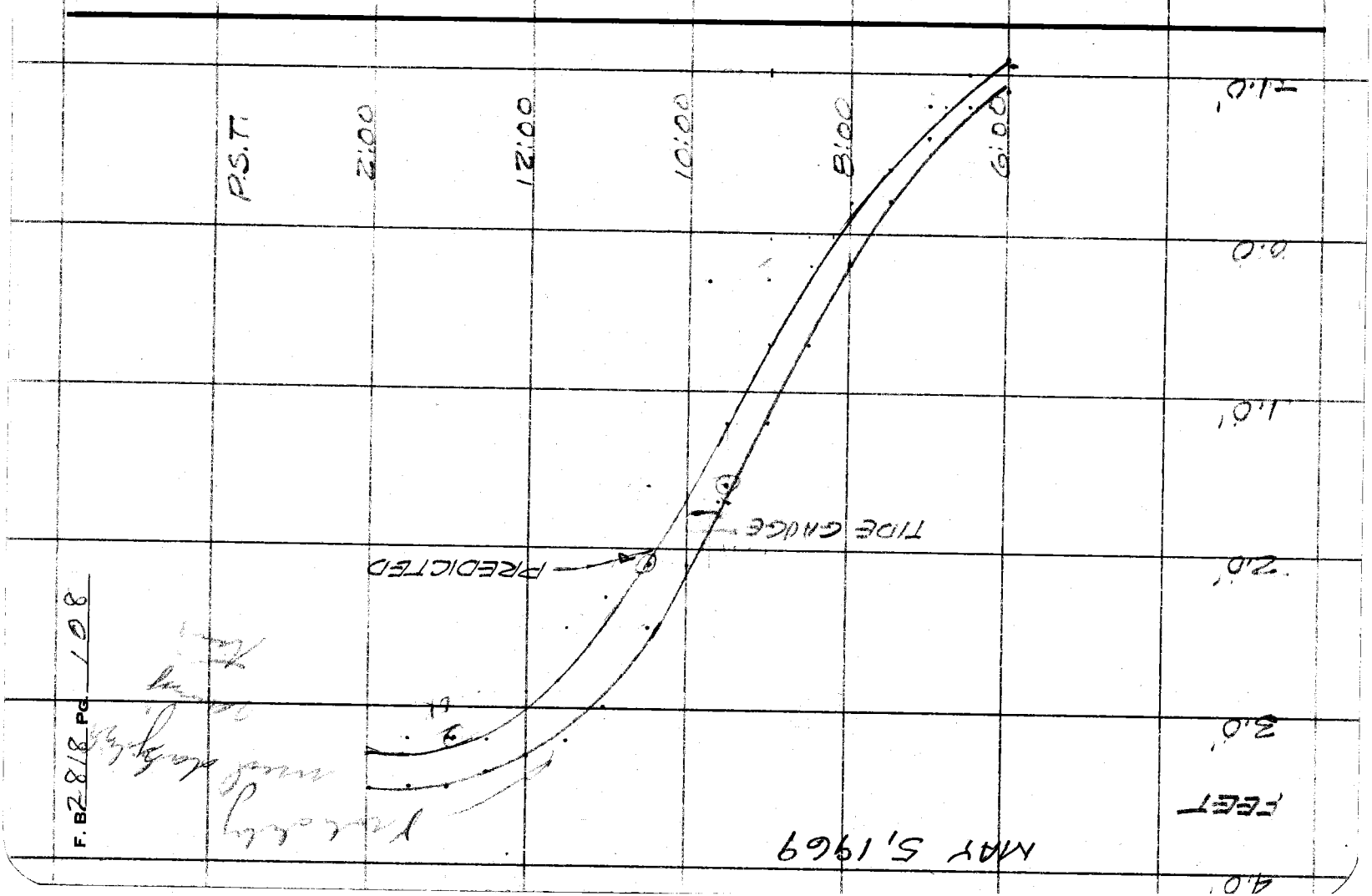
PLEASE RETURN TO
COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-68

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. B2818 PG. 108

76-L-298 CE 307 5-66

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	764 + 93 GROIN	
					⊼ ON N-82 SIGHT ON N-83	
		8 35				
			140	-56	∡ #1 28° 46'	END OF GROIN ?
			122	-38	2 23 14	EAST SIDE "
			120	-36	3 19 05	NEAR ∡ POINT
			87	-03	4 13 32	
			66	18	5 6° 31'	
			54	30	17 FT LEFT SAND, BEGIN ROCKS	
			+05	89	℄ TOP OF STEEL GROIN, ROCK TO 4' LEVEL WITH TOP OF GROIN	
			46	38	∡ 6 4° 04'	SAND, W. SIDE GROIN
			84	00	7 14 02	" "
			118	-34	8 23 08	"
			135	-51	9 28 00	"
						"

Profile No. ____ Notes Red ____ Plotted ____ Job No. ____ Division No. ____
Date ____ Date ____ Survey of HYDRO SURVEYS
X-Sec. No. ____ Notes Chk'd. ____ Checked ____ Survey by RICHARDS Notes DREIER Date ____
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 2818 PG. 109

F. B. 2818 PG. 110 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76-L-298 CE 307 5-66

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
			STA 766+50.59			
		Sight on N-83			38°17' Lt.	
[illegible]				[illegible]	[illegible]	
[illegible]				[illegible]	[illegible]	
				12.0	25' [illegible]	
				[illegible]	[illegible]	
					⊼ N83	SIGHT ON N82
	026	770		744		
			31	46	4FT LEFT MHT.	
			53	24	23" " SAND END OF ROCKS	
			84	-07	A 1 4° 32'	
			96	-19	2 6° 54	
			117	-40	3 11 22	
			146	-69	4 16 07	
			172	-95	5 19 57	

DATUM
MEAN LOWER LO[illegible]

Profile No.____ Notes Red____ Plotted____ Job No.____ Division No.____
Date____ Date____ Survey of [illegible] Survey
X-Sec. No.____ Notes Chk'd.____ Checked____ Survey by____ Notes____ Date____
Date____ Date____ Map No.____ Indexed____ Date____

F. B. 2818 PG. 111

F. B. 2818 Pg. 112 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

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

Do not extend notes this side of this line.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

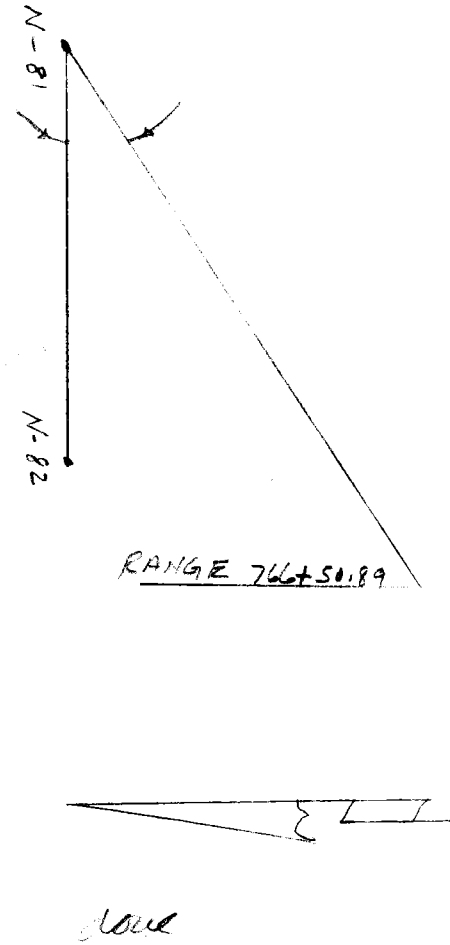
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE	LINE	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH			DEG.	MIN.	
N-81	N-82	8:37	1	300	15	59	45	
			2	303	02	56	58	
			3	304	38	55	22	
			4	306	04	53	56	
			5	307	30	52	30	
			6	309	01	50	59	
			7	310	49	49	11	
			8	312	45	47	15	
			9	314	26	45	34	
			10	315	57	44	03	
			11	317	46	42	14	
			12	319	05	40	55	
			13	321	00	39	00	
			14	322	22	37	38	
			15	324	06	35	54	
			16	325	53	34	07	
			17	327	51	32	09	
			18	329	14	30	46	
			19	331	15	28	45	
			20	332	47	27	13	



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

No. Date Date Survey of MALIBU HYDRO SURVEY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes DONE Date 5-6-69

No. Date Date Map No. Indexed Date

F. B. 7818 PG. 113

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
			21	334	36	25	24	
			22	336	15	23	45	
			23	338	06	21	54	
			24	340	04	19	56	
			25	342	08	17	52	
			26	344	24	15	36	
			27	345	53	14	07	
			28	347	56	12	04	
		8:42	29	349	06	10	54	
			~~30~~	~~349~~	~~55~~			

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date Notes Chkd. Date

Division No. 5454

Job No. Notes Date

F. B. 2818 Pg. 114

Survey of

Survey by

Indexed

76-L-298 CE 307 5-66

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	767+35 GROIN	
					⊼ AT N-83 SIGHT ON N 82	
	463	719		256	$X2 STA. 769+01.00	EAST OF GROIN RAIN
			154	-82	∡1 22° 10'	OUTSIDE END OF GROIN
			141	-69	2 18 08	
			126	-54	3 13 19	
			103	-31	4 9 21	
			88	-16	5 5 43	
			60	12	6 2 04	BEGIN SHORE ROCKS
			26	46	℄ $ M.H.T.	
			44	28	∡1 1° 59'	WEST SIDE OF GROIN
			82	-10	2 7 09	
			108	-36	3 11 51	
			133	-61	4 17 00	
			147	-75	5 20 11	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 03604 Division No. 11
Date ____ Date ____ Survey of LAND SURVEYS
X-Sec. No. ____ Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date [illegible]
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2878 PG. 115

F. B. 2818 PG. 116 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76-L-298 CE 307 5-66

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
				STA. 767+01.00		
		Sight on N-83			38°17' [illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]				2.56	[illegible] @ Sta 1"x2" [illegible]	
				4.0	18' [illegible]	
				9.5	36' [illegible]	
				23.0	[illegible]	
	478	734		2 56	T.P. 1 X 2 on STA.	TW83 [illegible] or N82
		[illegible]	158	- 85	∡ #1 24°20'	
			139	- 66	2 19 21	
			97	- 24	3 13 12	
			74	01	4 6 22	
			59	14	5 2 55	
			27	46	16 FT RIGHT M.H.T.	

DATUM
MEAN LOWER [illegible]

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. 11 F. B. 2818 PG. 117
No. ____ Date ____ Date ____ Survey of [illegible] Survey
X-Sec. Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date [illegible]
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 118 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 5-66

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

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

76L298 307 Cdb 12-62

PLEASE RETURN TO

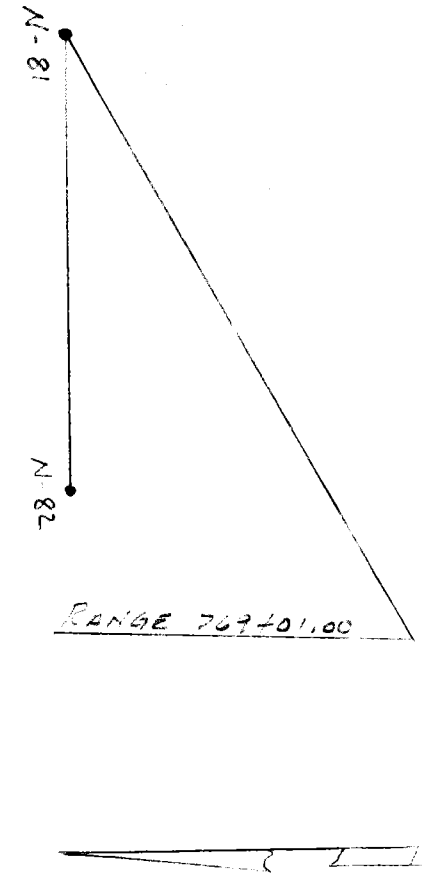
LOS ANGELES COUNTY SURVEYOR

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.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
N-81	N-82	8:53	1	306	31	53	29	
			2	307	53	52	07	
			3	309	30	50	30	
			4	311	16	48	44	
			5	312	59	47	01	
			6	314	45	45	15	
			7	316	11	43	49	
			8	317	18	42	42	
			9	318	44	41	16	
			10	320	11	39	49	
			11	321	39	38	21	
			12	323	07	36	53	
			13	324	32	35	28	
			14	326	03	33	57	
			15	327	48	32	12	
			16	329	17	30	43	
			17	331	07	28	53	
			18	332	36	27	24	
			19	334	30	25	30	
			20	336	12	23	48	



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 7818 Pg. 119

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes DON Date 5-6-69

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

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
			21	337	47	22	13	
			22	339	33	20	27	
			23	341	41	28	19	
			24	343	37	26	23	
			25	345	05	24	55	
			26	347	15	22	45	
			27	348	41	21	19	
		8:58	28	350	25	9	35	

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date Notes Chkd. Date

Division No. Job No. SAME

Notes Date

Survey of

Survey by

Indexed

F. B. 2818 Pg. 120

76-L-298 CE 307 5-66

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
				STA. 771+51.11		
		SIGHT ON N-83			88°17' [illegible]	
T.P.				2.56	T.P. @ Sta. [illegible]	1" [illegible]
T.P.				[illegible]	T.P. [illegible] "X" on Rock	[illegible]
				[illegible]	[illegible]	[illegible]
				12.1	[illegible]	[illegible]
				17.6	57' [illegible]	[illegible]
				30.1	33' [illegible]	[illegible]
					T ON N83 SIGHT ON N82	
	298	638		340	T.P. "X" ON ROCK ON STA.	
			18	46	23 FT RIGHT M.H.T.	
			66	-02	∡ #1 6° 02	
			83	-19	2 12 56	
			110	-46	3 27 17	
			138	-74	4 38 51	
			156	-92	5 45 49	
			173	-109	6 49 18	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____ F. B. 2818 PG. 121
No. ____ Date ____ Date ____ Survey of Malibu Circa Hyd. Survey
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 6-
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 122 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

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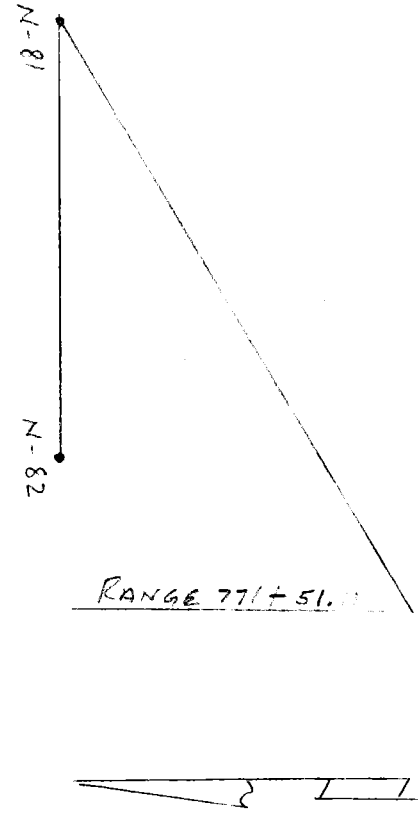
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	FOR OFFICE USE ONLY LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
N-81	N-82	9:07	1	311	35	50	25	
		P.S.T.	2	313	03	46	57	
			3	314	33	45	27	
			4	316	04	43	56	
			5	317	33	42	27	
			6	319	43	40	17	
			7	321	20	38	40	
			8	323	10	36	50	
			9	324	44	35	16	
			10	326	39	33	21	
			11	328	33	31	27	
			12	330	01	29	59	
			13	331	44	28	16	
			14	333	14	26	46	
			15	334	48	25	12	
			16	336	39	23	21	
			17	338	09	21	51	
			18	339	57	20	03	
			19	341	56	18	04	
			20	344	08	15	52	



Profile Notes Red. Plotted Job No. 0300.02 Division No. 11 F. B. 2818 Pg. 123

No. Date Date Survey of MALIBU HYDRO SURVEY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes DON Date 5-6-69

No. Date Date Map No. Indexed Date

76L298 307 Cdb 12-62

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

Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. 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					
			21	345	46	14	14	
			22	347	13	12	47	
			23	348	53	11	07	
			24	350	20	9	40	
		9:12	25	351	44	8	16	

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date Notes Chkd. Date

Division No. 5445

Job No.

Notes Date

Survey of

Survey by

Indexed

F. B. 2818 Pg. 124

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

RAIN

STATION	B. S.	H. I.	F. S.	ELEV.		
					STA 774+01.22	
					Sight on N-83	88°-17' Lt.
[illegible]				[illegible]	T.P. [illegible]	[illegible]
[illegible]				[illegible]	[illegible]	
[illegible]				13.44	T.P. [illegible]	[illegible]
				3.3	2 [illegible]	[illegible]
				18.0		[illegible]
				27.0		[illegible]
T.P.			7740	18.90	T.P.	
T.B.M. #9			767	23.05	T.B.M. #9 El. 23.05 [illegible]	
					AT 767+50 SIGHT ON N83	RAIN
	302	642		34.0	T.P. 'X' ON ROCK AT STA.	
			18	46	20 FT RIGHT [illegible]	
			170	-106	Δ #1 23° 13	
			146	-82	2 18 36	
			120	-56	3 14 44	
			94	-30	4 9 28	
			88	-24	5 7 01	
			67	03	6 3 24	
			38	26	℄ BASE OF WALL	

DATUM
MEAN LOWER

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

F.B. 2818 PG. 125

F. B. 2818 PG. 126 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

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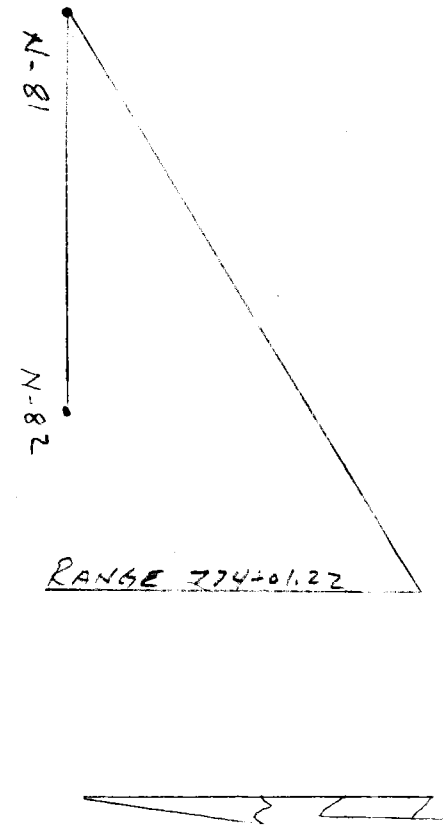
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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					
N-81	N-82	9:28	1	318	22	41	38	
			2	319	42	40	18	
			3	321	04	38	56	
			4	322	10	37	50	
			5	323	22	36	38	
			6	324	33	35	27	
			7	325	42	34	18	
			8	327	04	32	51	
			9	328	32	31	28	
			10	329	43	30	17	
			11	331	05	28	55	
			12	332	19	27	41	
			13	333	33	26	27	
			14	334	51	25	09	
			15	336	01	23	59	
			16	337	26	22	34	
			17	338	51	21	09	
			18	340	22	19	38	
			19	341	58	18	02	
			20	343	09	16	51	



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2818 Pg. 12

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes DON Date 5-6-69

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

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
			21	344	36	15	24	
			22	345	38	14	22	
			23	346	24	13	36	
			24	347	19	12	41	
			25	347	49	12	11	
			26	348	53	11	07	
			27	349	55	10	05	
		7:33	28	350	35	9	25	

F. B. 2818 PG. 128

Job No. 5A[illegible] Division No. Notes Red. Plotted Profile

Survey of Date No.

Survey by Notes Chkd. Checked X-Sec.

Indexed Date Date No.

Notes Ck'd by	Survey of HYDROGRAPHIC SURVEY
Map No.	JN 0300.02 Tape — Std — °F
Office Work	Surveyed by RICHARDS
Checked	Notes HARRIET Date 5-6-69
Date	Indexed

F. B. 2818 PG. 129

TIDE GAGE READINGS
MAY 6, 1969
TIME — P.S.T.
DATUM — M.L.L.W.

TIME	TIDE
6:00	-0.5
6:30	-0.6
7:00	-0.8
7:30	-0.7
8:00	-0.5
8:30	-0.3
9:00	0.0
9:30	0.5
10:00	0.9
10:30	1.4
11:00	1.8
11:30	2.2
12:00	2.6
12:30	2.9
1:00	3.2
1:30	3.3
2:00	3.3

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

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.
Do not extend this side of this line.
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DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.
16F3095 CE#310 3-68

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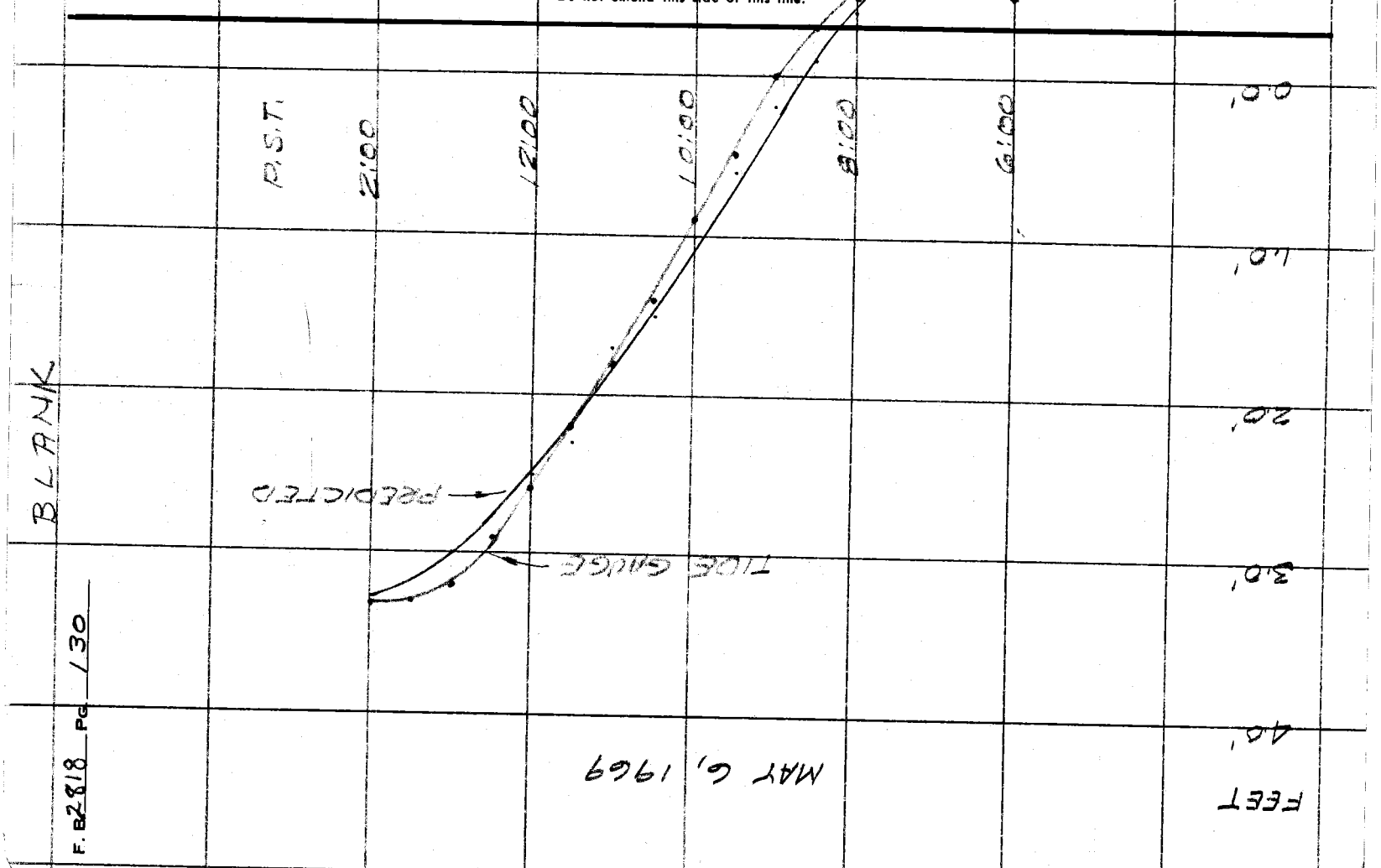
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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.



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F. B. 2818 Pg. 130

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
			Sta. 775+67.61			
	Sight on N-84				59° 14' Lt	
T.P.				18.3	T.P. chis "X" in Conc. wall - Sta. 775+40.2	
				12.26	TBM #19 El. 12.26 F.B. 3770-107 Bt. spk in 2nd Pile from East in Pile	
T.P.				3.51	T.P. 1"X2" @ Sta	Sand & Rocks
				10.0		40' Rt. Bot Bk. - Rocks
				21.9		65' Rt. Top Bk.
					AT N 83 SIGHT ON N 84	
	3 05	6 56		3 51	1X2 ℄ STA	
			3 4	3 2	℄ SAND	
			2 0	4 6	16 FT RIGHT M.H.T.	
			7 0	-0 4	45" LEFT SAND	
			10 1	-3 5	A #1 18° 24'	
			12 3	-5 7	2 24 12	
			13 0	-6 4	3 28 27	
			15 6	-9 0	4 32 48	
			17 7	-11 1	5 37 09	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____ F. B. ____
No. ____ Date ____ Date ____ Survey of ____ Notes ____ Date ____ Pg. 131
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 132 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
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76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

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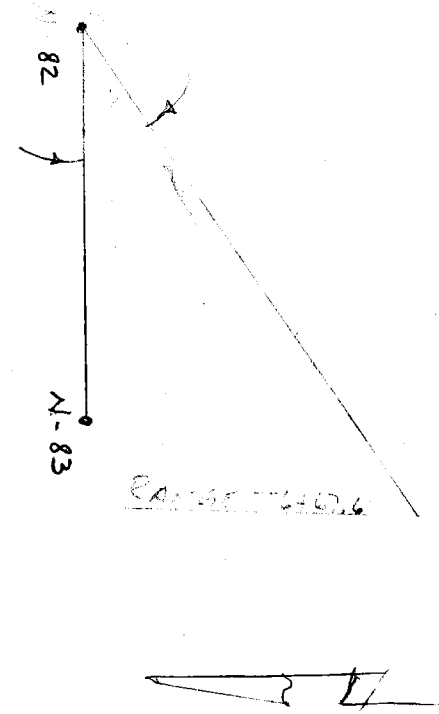
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
N-82	N-83	7.39	1	306	06	53	54	
		P.S.T.	2	308	33	51	27	
			3	310	41	49	19	
			4	312	28	47	32	
			5	314	25	45	35	
			6	315	57	44	03	
			7	317	37	42	23	
			8	319	37	40	23	
			9	321	14	38	46	
			10	322	45	37	15	
			11	324	42	35	18	
			12	326	22	33	38	
			13	327	21	32	28	
			14	329	12	30	30	
			15	330	42	29	31	
			16	332	00	27	33	
			17	333	38	26	34	
			18	335	03	24	36	
			19	336	43	23	37	
			20	338	19	21	39	



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2818 Pg. 133

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes DON Date 5-7-69

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

76L298 307 Cdb 12-62

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Profile No. X-Sec. No.
Plotted Date Checked Date
Notes Red. Date Notes Chkd. Date
Division No. Notes Date
Job No. SAME Notes Date
F. B. 2818 Pg. 134
Survey of
Survey by
Indexed

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
			21	339	51	20	09	
			22	341	32	18	28	
			23	342	30	17	30	
		7:43	24	344	03	15	57	
		7:53	25	338	11	21	49	
			26	339	58	20	02	
			27	341	28	18	32	
			28	342	48	17	12	
			29	344	17	15	43	
			30	345	11	14	49	
			31	346	33	13	27	
			32	347	40	12	20	
			33	348	58	11	02	
		7:55	34	349	50	10	10	

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	778+32 GROIN ROCK & CONC.
	11 26	14 77 8		3 51	1X2 STA 776+67.61
			125	2 3	℄ 778+27 5 FT E. OF GROIN
			114	3 4	20 FT RIGHT SAND " BEGIN ROCKS
			93	5 5	35 " " ROCKS "
			48	10 0	53 " " " " BOT. CUT BANK
			78	7 0	℄ 778+32 BROKEN TOP OF GROIN
			59	8 9	5 FT. RIGHT
			28	12 0	25 " " " " BRK
			07	14 1	54 " " " " N. END
			122	2 6	℄ 778+37 SAND W. SIDE OF GROIN
			100	4 8	12 FT RIGHT " " " BEGIN ROCKS
			30	11 8	45 FT " ROCKS " "
			21	12 7	58 " " " BOT. CUT BANK
					778+32
			125	2 3	" 5 FT LEFT SAND
			147	0 1	" 40 " " "

Profile No. ____ Notes Red ____ Plotted ____ Job No. 03 01.02 Division No. ____ F.B. 2818 Pg. 135
Date ____ Date ____ Survey of MALIBU AREA HYDO
X-Sec. No. ____ Notes Chk'd. ____ Checked ____ Survey by PREFER Notes PREFER Date 5-7-69
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 136 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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76-L-298 CE 307 5-66

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
			Sta. 779 + 35.00			
	Sight on N-84				69° 14' Lt	
TBM #10				12.26	TBM #10 El. 12.26 (Cont)	
T.P.				3.87	T.P.	
T.P.				3.90	T.P. @ Sta Chis X East Base & Bot Groin	
				4.6	10' Rt. Bot. Conc wall	
				9.90	18' Rt. Top " "	
T.P.				8.25	T.P.	
					π AT N 83 SIGHT ON N 84	
	2 10	6 00		3 90	T.P. & STA "X" & SAND	
			17 2	- 1 2	∡ #1 25° 27'	
			159	- 9 9	2 22 50	
			123	- 6 3	3 18 37	
			9 5	- 3 5	4 13 38	
			7 3	- 1 3	5 7 25	
			4 1	1 9	33 FT. LEFT SAND W. SIDE OF GROIN	
			1 4	4 6	13 FT RIGHT MHT. SAND AT BASE OF CONC. SLOPE	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. 11
No. ____ Date ____ Date ____ Survey of Manhattan Hyd. Survey
X-Sec. Notes Chk'd. ____ Checked ____ Survey by Curtis Notes RC Date 5-7-62
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 137

F. B. 2818 PG. 138 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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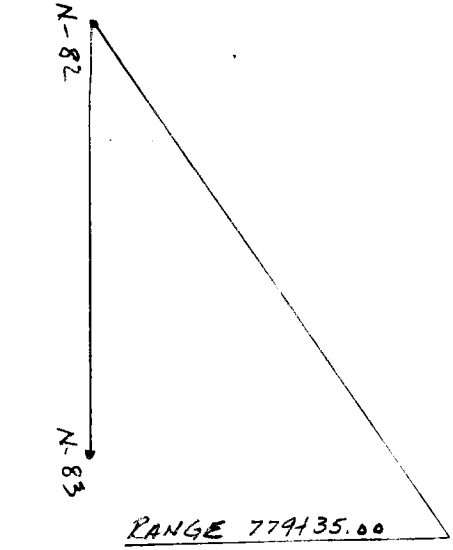
Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE	LINE	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH			DEG.	MIN.	
N-82	N-83	8:07	1	314	53	45	07	
			2	315	56	44	04	
			3	316	54	43	06	
			4	318	10	41	50	
			5	319	51	40	09	
			6	321	12	38	48	
			7	322	15	37	45	
			8	323	17	36	43	
			9	324	17	35	43	
			10	325	25	34	35	
			11	326	42	33	18	
			12	327	43	32	17	
			13	328	59	31	01	
			14	329	59	30	01	
			15	331	05	28	55	
			16	332	31	27	29	
			17	333	49	26	11	
			18	335	18	24	42	
			19	336	38	23	22	
			20	337	51	22	09	



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

No. Date Date Survey of MALIBU HYDRO SURVEY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes DON Date 5-7-69

No. Date Date Map No. Indexed Date

F. B. 78818 PG. 130

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.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
			21	338	51	21	09	
			22	339	33	20	27	
			23	339	56	20	04	
			24	340	43	19	17	
			25	341	28	18	32	
			26	342	58	17	03	
			27	344	34	15	26	
			28	345	40	14	20	
			29	346	46	13	14	
		8:13	30	347	55	12	05	

F. B. 2818 PG. 140 Job No. SAME Division No. Notes Red. Plotted Profile

Survey of Date Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed Date Date No.

76-L-298 CE 307 5-66

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	779+46 GROIN ROCK & CONC.
		6 00			CONT. FROM 779+35.00
			23	37	℄ 6FT E. OF CENTER OF GROIN
			21	39	4 FT RIGHT, EAST " " "
			62	-02	50 FT LEFT SAND CENTER " "
			16	44	45 " " TOP, END OF CTR "
	964	1513	051	549	T.P.
			40	111	℄ TOP OF GROIN 779+46
			16	135	23± FT RIGHT TOP OF G
			96	55	℄ 6FT WEST OF CTR OF GROIN, SAND
			66	85	6' W. SIDE OF CTRL OF 23 FT RIGHT ROCKS BASE OF CONC. SLOPE
	400	791	1122	391	T.P.
			316	475	T.P. 1X2 ℄ STA. 782+02.39

Profile Notes Red ____ Plotted ____ Job No. 03[illegible] Division No. 11 F. B. 2818 PG. 171
No. ____ Date ____ Date ____ Survey of HYDRO-SURVEYS
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes DRIFTER Date 5-7-69
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 142 Job No.____ Division No.____ Notes Red____ Plotted____ Profile

Survey of____ Date____ Date____ No.____

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

Indexed____ Date____ Date____ Date____ No.____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

76-L-298 CE 307 5-66

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
		Sta 782+02.39				
		Sight on N-84			69°14' Lt	
T.P.				8.25	T.P. Cont. from Sta. 779+35.00	
T.P.				4.76	T.P. 1"x2 @ Sta. Sand	
				6.1	18' Rt edge Banks	
				11.8	49' Rt. Bot. Bank "	
				27.4	65' " Top "	
TBM #11				11.79	TBM #11 El. 11.79 F.B. 3790-109 Bt. Spk. in Pile S.W. Cor. Ho. #19744	
					⊼ AT N-83	SIGHT N-84
	3 16	7 92		4 76	T.P. 1X2 ℄ STA.	
			3 3	4 6	1 FT LEFT M.H.T.	
			7 0	0 9	50 " " SAND	
			9 7	- 1 8	⊼ #1 6° 17	
			12 2	- 4 3	2 9 53	
			15 4	- 7 5	3 13 05	
			17 1	- 9 2	4 16 06	

DATUM
MEAN LOWER LOW WATER

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

F. B. [illegible] Pg. 143

F. B. 2818 PG. 144 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

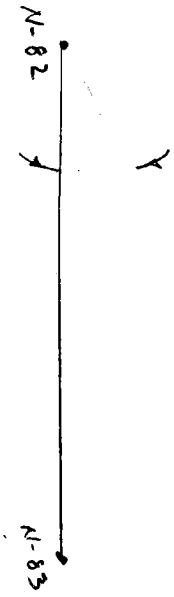
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

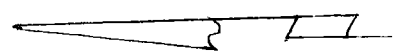
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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					
N-82	N-83	8:30	1	319	01	40	59	
		P.S.T	2	319	47	40	13	
			3	320	07	39	53	
			4	321	35	38	25	
			5	322	43	37	17	
			6	323	41	36	19	
			7	324	49	35	11	
			8	325	58	34	02	
			9	327	05	32	55	
			10	328	18	31	42	
			11	329	15	30	45	
			12	330	00	30	00	
			13	330	41	29	19	
			14	331	28	28	32	
			15	332	22	27	38	
			16	333	26	26	34	
			17	334	42	25	18	
			18	335	44	24	16	
			19	336	30	23	30	
			20	337	28	22	32	



RANGE 782+02.39



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0900.02 Division No. 11 F. B. 2818 Pg. 145

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

Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes DON Date 5-7-69

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

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date Notes Chkd. Date

Division No. Notes Date

Job No. SAME

F. B. 2818 PG. 146

Survey of

Survey by Notes

Indexed Date

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					
			21	338	29	21	31	
			22	339	29	20	31	
			23	340	33	19	27	
			24	341	44	18	16	
			25	342	52	17	08	
			26	343	49	16	11	
			27	344	57	15	03	
			28	346	00	14	00	
			29	347	05	12	55	
		8:36	30	347	59	12	01	

76-L-298 CE 307 5-66

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
			Sta	784+	70.99	
		Sight	on	N-85	50° 38' Lt	
TP				4.76	T.P. 1"x2 Cont. from Sta. 782+02.39	
TBM #12				8.61	TBM #12 El. 8.61 F.B. 3790-108 L&T in Rk (N-84) @ Ho. #19812 784+64.01	
TP				6.39	T.P. 1"x2" @ Sta Rocks	
				8.1	Rocks 9° Rt. Bot Wd. Rot. Wall	
				12.3	9° Rt. Top " " "	
					⊼ AT N 83, SIGHT ON N-84	
	053	692		639	T.P. 1x2 STA.	
			144	-75	⊼ 1 13° 15'	
			160	-91	2 15 52	(WENT OUT MORE)
			142	-73	3 12 42	
			131	-62	4 10 00	
			108	-39	5 8 17	
			90	-21	6 5 37	
			77	-08	7 3 40	
			62	07	50 FT LEFT	
			23	46	4 FT "	
			12	57	℄ SAND & SMALL ROCKS	

DATUM
M.H.T. MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____ F.B. 2010 PG. 147
No. ____ Date ____ Date ____ Survey of Malibu Mon. Hyd. Survey
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date ____ -7
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 148 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

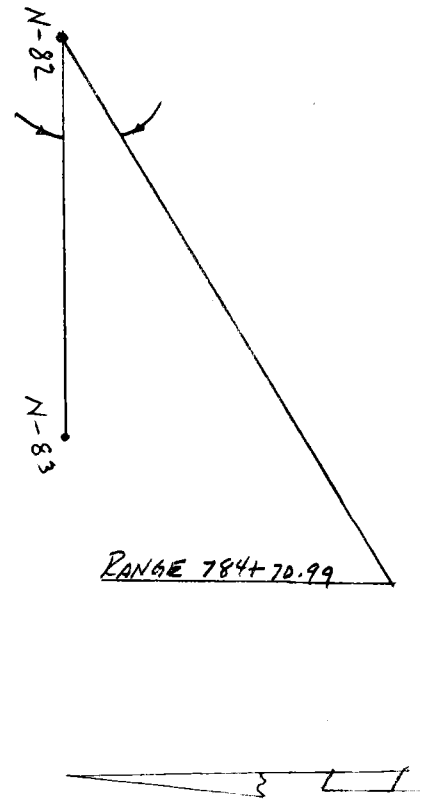
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
N-82	N-83	8:43	1	323	37	36	23	
			2	324	25	35	35	
			3	325	23	34	37	
			4	326	12	33	48	
			5	326	57	33	03	
			6	327	35	32	15	
			7	328	15	31	45	
			8	329	24	30	36	
			9	330	11	29	49	
			10	330	59	29	01	
			11	331	38	28	22	
			12	332	16	27	44	
			13	332	60	27	00	
			14	333	47	26	13	
			15	334	29	25	31	
			16	335	07	24	53	
			17	336	04	23	56	
			18	336	57	23	03	
			19	337	32	22	28	
			20	338	30	21	30	



Profile No.____ Notes Red.____ Plotted____ Job No. 2330.02 Division No. 1 F. B. 2812 Pg. 49

X-Sec. No.____ Date____ Notes Chkd.____ Date____ Checked____ Date____ Survey of MALIBU HYDRO SURVEY

Survey by [redacted] Notes DON Date 5-7-64

Map No.____ Date____ Indexed____ Date____

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
			21	339	14	20	46	
			22	340	16	19	44	
			23	341	12	18	48	
			24	341	55	18	05	
			25	342	50	17	10	
			26	343	39	16	21	
		8:49	27	344	19	15	41	

F. B. 2818 PG. 150

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

Survey of Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed Date Date No.

76-L-298 CE 307 5-66

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
			Sta. 787 + 94.38			
		Sight on N-85			50° 38' Lt.	
T.B.M. #12				8.61	T.B.M. #12 El. 8.61 (Cont)	
T.P.				3.37	T.P. 1"x2" @ Sta	(Sand & Rock)
				6.0	29' Rt. Bot. Wd. Ret. Wall	
				12.8	29' Rt. Top " " "	
					⊼ AT N 84	SIGHT ON N-85
	094	431		3.37	T.P. 1x2 ℄ STA.	
			14		℄ SAND	
			+03	46	18 FT RIGHT M.H.T	
			41	02	40 FT LEFT SAND & ROCKY	
			67	-24	4 #1 12° 33	
			84	-41	2 19 11	
			116	-73	3 22 18	
			123	-80	4 24 18	
			120	-77	5 25 24	
			147	-104	6 27 23	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. ____ Division No. ____
Date ____ Date ____ Survey of [illegible] Hyd. Survey
X-Sec. No. ____ Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date [illegible] -7
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 151

F. B. 2818 PG. 152 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

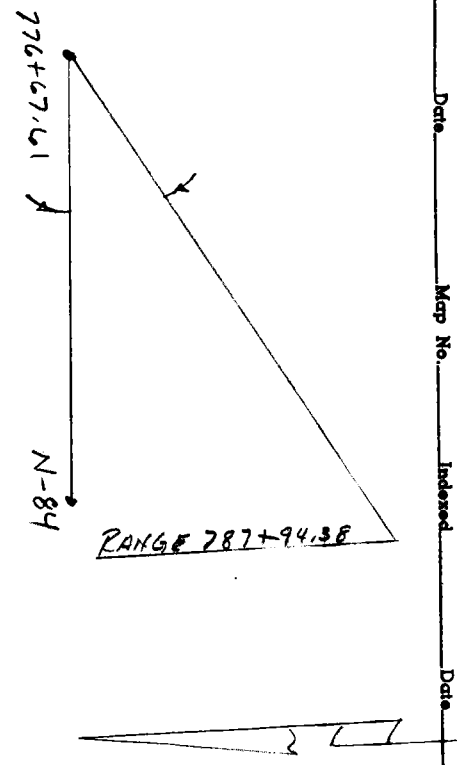
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
776+67	N-84	9:06	1	317	54	42	06	
			2	319	07	40	53	
			3	319	59	40	01	
			4	321	03	38	57	
			5	322	02	37	58	
			6	322	58	37	02	
		*	7	322	56	37	04	
			8	323	28	36	32	
			9	323	42	36	18	
			10	324	23	35	37	
			11	325	27	34	33	
			12	326	23	33	37	
			13	327	50	32	10	
			14	328	35	31	25	
			15	329	35	30	25	
			16	330	56	29	04	
			17	332	08	27	52	
			18	333	44	26	16	
			19	334	59	25	01	
			20	336	32	23	28	



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2818 PG. 152

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes DON Date 5-7-69

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

F. B. 2818 PG. 154

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

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

SAME

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					
			21	338	05	21	55	
			22	339	54	20	06	
			23	341	17	18	43	
			24	342	42	17	08	
		9:13	25	343	25	16	35	

76-L-298 CE 307 5-66

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
			Sta.	791+17.77		
	5.34 on		N-85		50° 38' Lt.	
T.P.				3.37	T.P. "X" and chiss. Sta 787+94.38	
T.B.M. #13				3.44	T.B.M. #13 El. 3.44 FB. 3793-108 Br. Spk. in Pine 20ft. West of S.E. Cor. Ho. #	
T.P.				5.48	T.P. Chis "+" in Rock - Sand & Rocks	
				10.2	Rocks, 35' Rt. Rocks & T. Bark	
				16.4	Sand, 45' Rt. under House	
				5.95	T.B.M. #14 El. 5.95 FB. 3793-108 (N-85) L & C.E. Tag in Rock Sta. 791+40.75	
					T on N-84 SIGHT N-85	
	0.77	6.25		5.48	T.P. "X" on Rock	
			1.6		3 FT. LEFT M.H.T.	
			16.6	-10.4	A #1 15° 59'	
			14.0	-7.8	2 14 17	
			12.5	-6.3	3 12 28	
			10.9	-4.7	4 10 41	
			8.9	-2.7	5 8 18	
			7.1	-0.9	6 5 47	
			5.2	1.0	56 FT LEFT ROCKS & SAND	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____ F. B. ____
No. ____ Date ____ Date ____ Survey of ____ Pg. ____
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 156

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

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

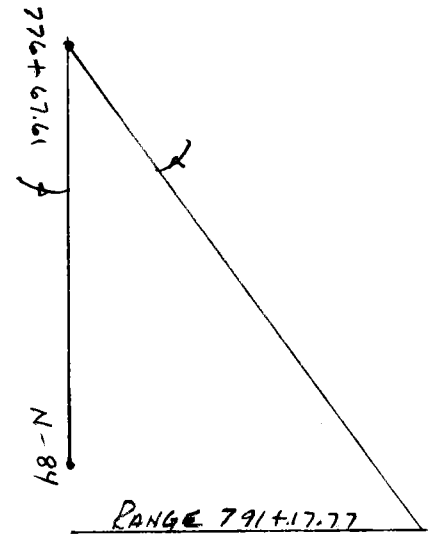
LOS ANGELES COUNTY SURVEYOR

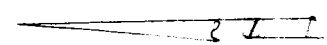
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
776+67	N-84	9:30	1	324	45	35	15	
			2	325	36	34	24	
			3	326	53	33	07	
			4	328	37	31	23	
			5	329	53	30	07	
			6	331	12	28	48	
			7	332	04	27	56	
			8	333	12	26	48	
			9	334	37	25	23	
			10	335	38	24	22	
			11	337	04	22	56	
			12	338	21	21	39	
			13	339	19	20	41	
			14	340	33	19	27	
			15	341	36	18	24	
			16	343	04	16	56	
		9:33	17	343	51	16	09	





Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2 Pg. 157

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes DON Date 5-7-69

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

F. B. 2818 PG. 158 | Job No. _____ Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ 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	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					

Notes Ck'd by	Survey of HYDROGRAPHIC SURVEY
Map No.	JN 0300.02 Tape — Std — °F
Office Work	Surveyed by RICHARDS
Checked	Notes HARRIET Date 5-7-69
Date	Indexed

F. B 2818 PG. 159

TIDE GAGE READINGS
MAY 7, 1969
TIME - P.S.T.
DATUM - M.L.L.W.

TIME	TIDE
6:00	0.3
6:30	0.3
7:00	-0.3
7:30	-0.6
8:00	-0.7
8:30	-0.7
9:00	-0.6
9:30	-0.3
10:00	0.0
10:30	0.3
11:00	0.7
11:30	1.2
12:00	1.6
12:30	2.0
1:00	2.4
1:30	2.7
2:00	3.1

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

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.
Do not extend this side of this line.
PLEASE RETURN TO
COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.
16F309S CE#310 3-68

F. B 2818 PG 160

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COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
			Sta 793+80.62			
	Sight on N-86				75° 31' Lt.	
[illegible] #14				5.95	TBM #14 El. 5.95 (N-85) "Cont. [illegible]"	
TP				8.53 / 7.89	TP @ Sta 1"x2" Sand	
				10.[illegible]	35' Lt. sand, [illegible]	
TP				14.09	TP. Left in RR. Rot. FB 37[illegible]-24 Sta. 794+4[illegible].74	
	0.86	9.39		8.53	℄ AT N 85 SIGHT N-86	
			13	81	℄ SAND	
			48	46	30 FT LEFT M.H.T	
			81	13	∡ #1 10° 52'	
			89	05	2 21 41	
			95	-01	3 27 18	
			133	-39	4 32 36	
			145	-51	5 37 43	
			146	-52	6 40 31	
			183	-89	7 44 31	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2818 Pg. 161
Date ____ Date ____ Survey of Malibu Creek-Hyd. Survey
X-Sec. No. ____ Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date [illegible] 13 67
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 162 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

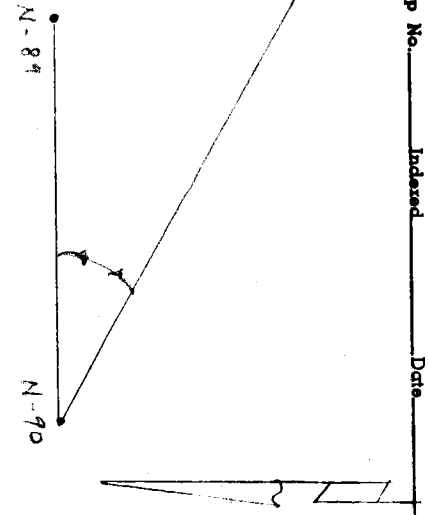
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	FOR OFFICE USE ONLY LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
N-90	N-89	7:54	1	16	25			
		P.S.T.	2	14	30			
			3	12	38			
			4	11	19			
			5	10	24			
			6	9	41			
			7	8	48			
			8	7	56			
			9	7	03			
			10	6	03			
			11	4	59			
			12	4	13			
			13	3	17			
			14	2	26			
			15	1	31			
			16	0	39			
			17	0	07			
		7:57	18	359	23			

RANGE 793+80.02



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

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

Plotted ____ Date ____ Checked ____ Date ____

Job No. 03300.02 Division No. 11 Map No. ____ Indexed ____ Date ____

Survey of MAL/BU HYBRID SURVEY

Survey by RICHARDS Notes DON Date 5-13-60

F. B. 7818 Pg. 163

F. B. 2818 PG. 164 Job No. Division No. Notes Red. Plotted Profile

Survey of Date Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed Date Date Date 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 507 Cdb 12-62

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
			Sta	7967	38.83	
		Sight	on N-86		75° 31' Lt.	
T.P.				4.09	T.P. (Cont.) L&T @ M.H.T.	
T.B.M. #15				9.34	TBM #15 EL. 9.34 F.B. 3790-107 Bt. spk. [illegible] Pile @ S.W. Cor. Ho. #19948	
T.P.				7.05	T.P. 1"x3" @ Sta. [illegible] Sand	
				9.7	33 Ct. "Sand" [illegible]	
					↑ SET AT N 85	SIGHT N-86
	011	9 45		9 34		
		Estim. 4	192	-9 8	4 1 31° 58'	
		46	140	-4 6	2 24 47	
		48	127	-3 3	3 20 16	
			125	-3 1	4 20 13	
			99	-0 5	5 15 34	
			93	0 1	6 9 35	
			80	1 4	7 6 05	
			73	2 1	54 FT LEFT	
			48	46	24 " " M.H.T.	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2818 PG. 165
No. ____ Date ____ Date ____ Survey of Malibu Creek Hyd. Survey
X-Sec. Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes ASC Date May 13-69
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 166 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

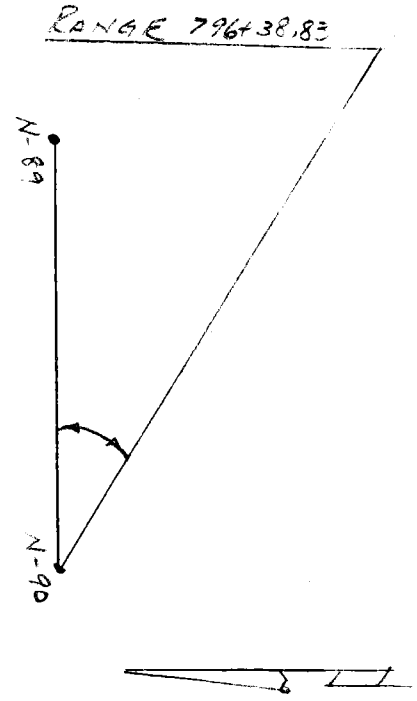
LOS ANGELES COUNTY SURVEYOR

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					
N-90	N-89	8:05	1	17	40			
		P.S.T.	2	16	35			
			3	15	34			
			4	14	28			
			5	13	51			
			6	12	58			
			7	12	05			
			8	11	07			
			9	10	12			
			10	9	24			
			11	8	36			
			12	7	50			
			13	7	10			
			14	6	18			
			15	5	26			
			16	4	55			
			17	3	53			
			18	3	35			
			19	2	45			
			20	1	57			



Profile Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 11 F. B. 7818 Pg. 167

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes DON Date 5-13-69

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

F. B. 2818 PG. 168 | Job No. _____ Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of SAME Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Inst. At Don't Punch	Sight On Don't Punch	Time Don't Punch	Angle No Don't Punch	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
		8:08	21	1	07			

76-L-298 CE 307 5-66

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

N-86 [illegible]
N-87 [illegible]

STATION	B. S.	H. I.	F. S.	ELEV.		
			Sta. 798+92.65			
	Sight on N-87				99°55' Lt.	
T.B.M. #15				9.34	T.B.M. #15 El. 9.34 F.B. 3790-109 St. spk. in Pile @ S.W. Cor. No. #1994F	
T.P.				7.82	T.P. 1"x2 @ Sta.	sand
				9.4	15' Rt. ed Rocks	
				11.9	25' Rt. Rocks under house	
					⊼ AT N-86 SIGHT N-87	
	0 33	8 15		7 82	T.P. 1x2 STA	
		2	05	7 7	℄ " SAND	
		[illegible]	36	4 6	32 FT LEFT M.H.T	
			60	2 2	4 #1 13° 21'	
			73	0 9	2 24 31	
			102	-2 0	3 32 22	
			98	-1 6	4 42 39	
			130	-4 8	5 53 27	
			167	-8 5	6 59 59	

SCATTERED BIG ROCKS

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. ____ Division No. ____
Date ____ Date ____ Survey of [illegible]
X-Sec. No. ____ Notes Chk'd. ____ Checked ____ Survey by ____ Notes [illegible] Date [illegible] 13
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 169

F. B. 2818 PG. 170 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

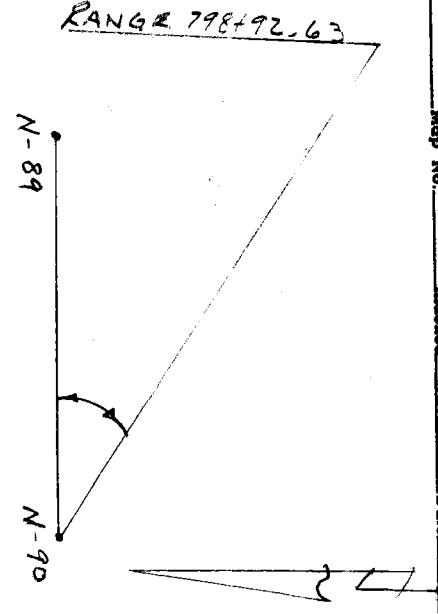
LOS ANGELES COUNTY SURVEYOR

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					
N-90	N-89	8:17	1	21	07			
		P.S.T.	2	19	55			
			3	18	45			
			4	17	57			
			5	16	53			
			6	16	04			
			7	15	01			
			8	14	10			
			9	13	16			
			10	12	14			
			11	10	59			
			12	10	05			
			13	9	13			
			14	8	16			
			15	7	22			
			16	6	11			
			17	5	14			
			18	4	28			
			19	3	16			
			20	2	59			



Profile No.____ Notes Red.____ Plotted____ Job No. P300.02 Division No. 11 F. B. 2818 PG. 171

X-Sec. No.____ Date____ Notes Chkd.____ Date____ Checked____ Date____ Survey of MALIBU HYDRO SURVEY Survey by RICHARDS Notes DBN Date 5-12-69 Map No.____ Indexed____ Date____

F. B. 2818 PG. 172 Job No. SAME Division No. Notes Red. Plotted

Profile

Survey of Date Date No.

Survey by Notes 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.
		8:20	21	1	57			

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76L298 307 Gdb 12-62

76-L-298 CE 307 5-66

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
			Sta	Bolt 46.42		
	Sight on N-87				99° 55' Lt	
T.P.				7.80	T.P. Cont from Sta. 798+92.63	
T.P.				5.62 ~~6.71~~	T.P. 1"x2" @ Sta. Sand	
				9.1	40' Rt. ed. Sand	
				11.2	51' Rt. Rocks under House	
					⊼ AT N 86 SIGH N-87	
	0 90	652		562	T.P. 1X2 FLUSH ℄ STA.	
			160	-95	∡ #1 37° 13'	
			130	-65	2 32 44	
			112	-47	3 29 12	
			84	-19	4 20 56	
			63	02	5 12 00	
			49	16	6 7 05	
			19	46	17 FT LEFT M.H.T.	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of Naples Marina Sight Survey
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 8 Apr 13
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 7818 PG. 173

F. B. 2818 PG. 174 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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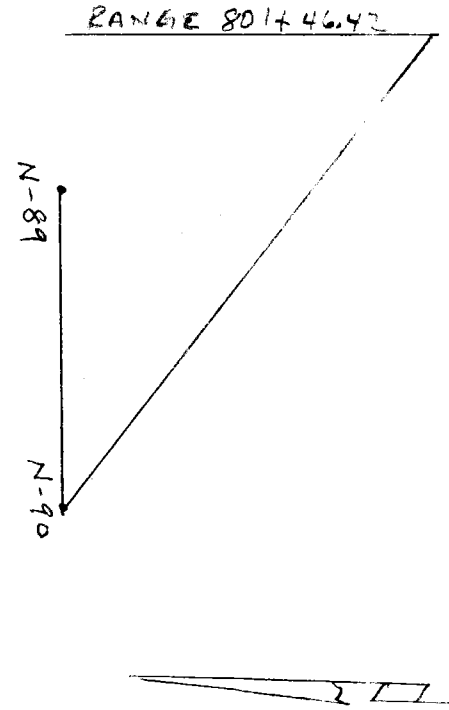
Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
N-90	N-89	8:32	1	25	14			
			2	24	23			
			3	23	27			
			4	22	12			
			5	21	15			
			6	20	00			
			7	18	48			
			8	17	40			
			9	16	11			
			10	14	32			
			11	13	28			
			12	12	15			
			13	11	09			
			14	10	01			
			15	8	46			
			16	7	35			
			17	6	42			
			18	5	13			
			19	4	38			
			20	3	47			



Profile Notes Red. Plotted

No. Date Date Job No. 0300.02 Division No. 11

X-Sec. Notes Chkd. Checked Survey of MALIBU HYDRO SURVEY

No. Date Date Map No. Indexed Survey by RICHARDS Notes DBN Date 5-13-69 Date

F. B. 2818 PG. 175

F. B. 2818 PG. 176 Job No. _____ Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

761298 307 Gdb 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 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.
		8:36	22	2	01			
			21	2	56			

76-L-298 CE 307 5-66

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line. N-87 805+19.71

STATION	B. S.	H. I.	F. S.	ELEV.		
			Sta. 804+00.21			
	Sight on N-87				99°55' Lt.	
T.P.				5.62 ~~6.71~~	T.P. Cont. from Sta 801+46.42	
T.P.				5.99 ~~5.52~~	T.P. 1"x2" @ Sta. Sand.	
				9.0	(50') Rt. Sot Brk Sand.	
				2.66	(67') Rt. Top Brk. [illegible]	
TBM #16				11.73	TBM #16 N-87 pg-109	
					⊼ AT N-86 SIGHT ON N-87	
	-006	593		599	T.P. 1x2 @ STA.	
			04	55	℄ SAND AT STA.	
			13	46	14 FT. LEFT M.H.T.	
			39	20	⊼ #1 3° 46'	
			59	00	2 7 41	
			74	-15	3 12 16	
			128	-69	4 20 27	
			160	-101	5 24 20	
			0 90	503	T.P. ON ROCK CONT TO 806+52.79	

SCAT 316 ROCKS

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date [illegible] 13 [illegible]
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. [illegible] PG. 177

F. B. 2818 PG. 178 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

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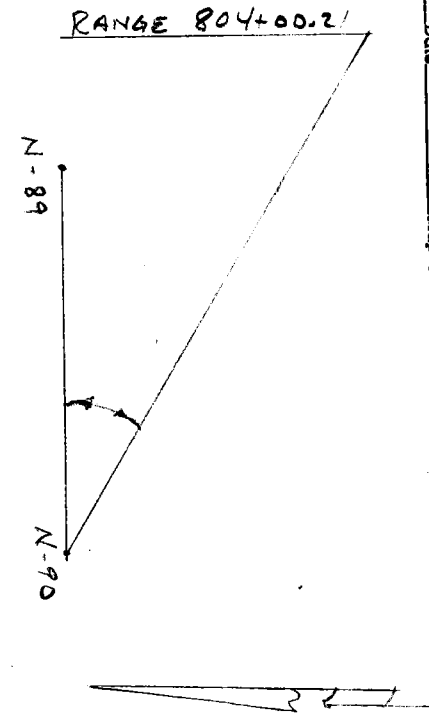
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
N-90	N-89	8:44	1	29	25			
		P.S.T.	2	28	20			
			3	27	08			
			4	25	49			
			5	24	18			
			6	23	06			
			7	22	00			
			8	20	52			
			9	19	45			
			10	18	42			
			11	17	53			
			12	16	55			
			13	16	01			
			14	15	06			
			15	14	11			
			16	13	08			
			17	12	07			
			18	11	05			
			19	10	07			
			20	9	06			



Profile No.____ Notes Red.____ Plotted____ Job No. 03 00-02 Division No. 11 F. B. 2818 Pg. 179

X-Sec. No.____ Date____ Notes Chkd.____ Date____ Checked____ Date____ Survey of MALIBU HYDRO SURVEY

Survey by RICHARDS Notes DON Date 5-13-69

Map No.____ Date____ Indexed____ Date____

76L298 307 Cdb 12-62

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

Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
			21	7	56			
			22	6	52			
			23	5	45			
			24	4	32			
			25	3	26			
			26	2	22			
			27	1	05			
		8:49	28	359	51			

F. B. 2818 Pg. 180

Job No. 5475

Division No.

Notes Red. Date

Notes Chkd. Date

Notes Date

Plotted Date

Checked Date

Profile No.

X-Sec. No.

Survey of

Survey by

Indexed

76-L-298 CE 307 5-66

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
			Sta.	806+	52.79	
Sight on N-85					92°02' Lt	
T.P.					T.P. Cont. from Sta. 804+00.21	
T.B.M. #16				11.73	T.B.M. #16 El. 11.73 F.B. 3790-109 (N-87) L & CE. Tag in Rock @ Ho. #20118 & 20120	
T.P.				9.53	T.P. Chis "+" in Rock @ Sta.	
				9.4	(Rocks) 13' Rt. Bot. Plank Wall	
				13.2	13' Rt. Top " "	
		6 48			⊼ AT N 86 SIGHT N-87	
	061	564		5 03	CONT. FROM STA. 804+00.21	
			178	-12 2	∡ #1 21° 04'	
			143	-8 7	2 18 40	
			89	-3 3	3 13 07	
			79	-2 3	4 10 06	
			58	-0 2	5 6 29	
			49	0 7	6 3 24	
			10	4 6	19 FT. LEFT M.H.T.	
	4 42	9 81	0 25	5 39	T.P. & SAND 12 FT LEFT	
	7 03	15 67	1 17	8 64	"X" ON STA.	
			3 86	11 81	T.B.M. #16 EL. 11.73 F.B. 3790-109	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes [illegible] Date [illegible] 13
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 2818 PG. 181

F. B. 2818 PG. 182 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

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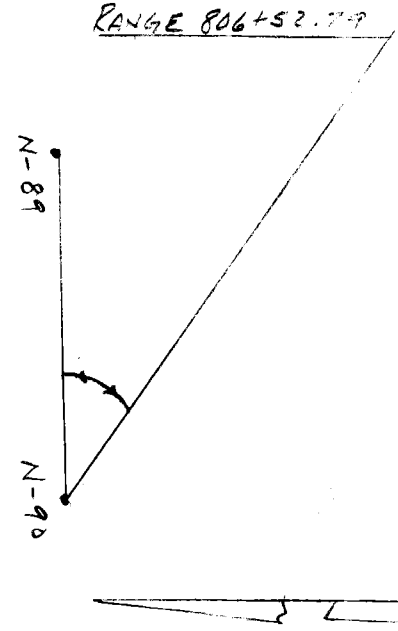
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	FOR OFFICE USE ONLY LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
N-90	N-89	8:59	1	32	48			
		P.S.T.	2	31	32			
			3	30	31			
			4	29	11			
			5	28	01			
			6	27	00			
			7	25	57			
			8	24	56			
			9	23	31			
			10	22	00			
			11	20	33			
			12	19	15			
			13	17	36			
			14	16	30			
			15	15	17			
			16	13	50			
			17	12	49			
			18	11	36			
			19	10	44			
			20	9	23			



Profile No.____ Notes Red.____ Plotted____ Job No. 6301.07 Division No. 11 F. B. 7818 Pg. 183

X-Sec. No.____ Date____ Notes Chkd.____ Date____ Checked____ Date____ Survey of HYDRO SURVEY MALIBU Survey by RICHARDS Notes DON Date 5-13-69 Map No.____ Indexed____ Date____

F. B. 2818 PG. 184 Job No. _____ Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of SAME Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L298 307 Cdb 12-62

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
			21	8	33			
			22	7	25			
			23	6	28			
		9:04	24	5	43			

76-L-298 CE 307 5-66

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

Do not extend notes this side of this line. N-89 [illegible]

STATION	B. S.	H. I.	F. S.	ELEV.		
				Sta. 809+03.33		
	Sight on N-89				50° 33' Lt	
T.P.				8.58	T.P. Cont from Sta. 806+52.79	
T.P.				5.17	T.P. 1"x2" @ Sta.	Sand
				10.2	50' Rt	Rocks [illegible]
				15.7	30' Rt	Top [illegible]
					⊼ AT 806+52.79 SIGHT ON N-89	
	142	659		517	1X2 AT STA.	
				50	SAND AT STA	
			20	46	5 FT. LEFT M.H.T.	
			59	07	⊼ #1 10 54	
			68	-02	2 18 13	
			84	-18	3 25 32	
			96	-30	4 32 16	
			111	-45	5 40 02	
			120	-54	6 47 35	
			160	-94	7 53 09	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes [illegible] Date ____ 13
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. [illegible] PG. 185

F. B. 2818 PG. 186

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

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

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

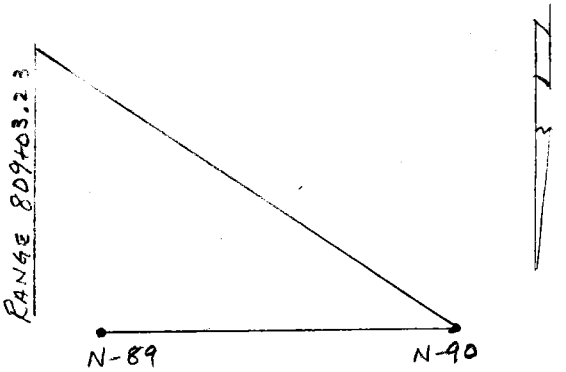
76-L-298 CE 307 5-66

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 0300.02 Division No. 11 F. B. 2818 Pg. 187

Date _____ Date _____ Survey of MALIBU HYDRO SURVEY

X-Sec. No. _____ Notes Chkd. _____ Checked _____ Survey by RICHARDS Notes DON Date 5-13-69

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



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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
N-90	N-89	9:13	1	39	56			
		P.S.T.	2	39	00			
			3	38	00			
			4	36	51			
			5	35	46			
			6	34	17			
			7	32	34			
			8	31	12			
			9	29	46			
			10	28	33			
			11	27	04			
			12	25	33			
			13	24	19			
			14	22	55			
			15	21	41			
			16	20	23			
			17	19	09			
			18	17	52			
			19	16	16			
			20	15	06			

76L298 307 Cdb 12-62

76L298 307 Cdb 12-62

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

Do not extend notes this side of this line.

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					
			21	13	43			
			22	12	22			
			23	11	04			
			24	9	45			
			25	8	36			
		9:17	26	7	29			

F. B. 2818 Pg. 188 Job No. SAME Division No. Notes Red. Plotted Profile

Survey of Date Date No. X-Sec.

Survey by Notes Notes Chkd. Checked

Indexed Date Date Date No.

76-L-298 CE 307 5-66

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
			Sta	811+56.98		
	Sight on N-90				102° 41' Lt.	
T.B.M. #18				8.35	T.B.M. #18 (N-89)	F.B. 3790-109
T.P.				6.55	T.P. 1"x2" @ Sta Rocks	
				11.1	21' Rt. Rocks	
				26.2	34' Rt. Top Bank.	
					⊼ AT 806+52.79	SIGHT ON N-88
	013	668		6 55		
		ESTIM.	195		∡ 1 32° 49'	
			138		∡ 2 28 04	
			97		3 21 41	
			100		4 18 18	5' OUTSIDE ROCK
			75		5 13 52	5' INSIDE "
			60		6 10 21	
			44		20 FT LEFT	BEGIN SHORE ROCKS
			21		5 FT "	AMONG ROCKS M.P.T.

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2.8.9 Pg. 189
No. ____ Date ____ Date ____ Survey of Malibu Area Hyd. Survey
X-Sec. Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes 9.50 Date 5-13-69
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 190 | Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

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76-L-298 CE 307 5-66

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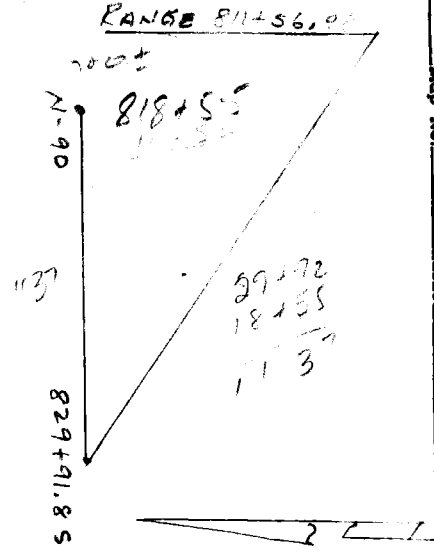
Do not extend notes this side of this line.

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					
829+92	N-90	9:44	1	30	10			
			2	28	59			
			3	28	01			
			4	26	57			
			5	25	47			
			6	24	47			
			7	23	35			
			8	22	48			
			9	21	28			
			10	20	06			
			11	19	04			
			12	17	59			
			13	16	45			
			14	15	23			
			15	14	23			
			16	13	30			
			17	12	27			
			18	11	39			
			19	10	43			
			20	9	58			



Profile No.____ Notes Red.____ Plotted____ Job No. 03300.02 Division No. 11 F. B. 7818 Pg. 191

X-Sec. No.____ Date____ Notes Chkd.____ Date____ Checked____ Date____ Survey of MALIBU HYDRO SURVEY

Survey by RICHARDS Notes DON Date 5-13-69

Map No.____ Indexed____ Date____

F. B. 2818 PG. 192 Job No. _____ Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of _____ SAME _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L298 307 Cdb 12-62

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
			21	9	16			
			22	8	35			
			23	7	51			
		9:49	24	7	12			

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
			Sta 814+13.23			
	SIGHT on N-90				102°41' Lt	
T.B.M. #19				10.15	T.B.M. #19 EL. 10.15 F.B. 3791-111 Bt. Sp. L	
					in Pile S.W. Cor. Ho. # 20288	
T.P.				6.45	T.P. 1"x2" @ Sta.	[illegible]
				11.0		Rt. Bot. Brk. [illegible]
				15.0		Rt. Top [illegible]
					⊼ AT N 90, SIGHT N-89	
	066	7 11		6 45	T.P. 1x2 @ STA. FLUSH	
			25	46	18 FT LEFT M.H.T.	
			52	19	4 #1 6° 06'	
			75	-04	2 12 20	
			95	-24	3 17 45	
			105	-34	4 21 00	
			133	-62	5 25 38	
			170	-99	6 29 44	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2818 PG. 193
No. ____ Date ____ Date ____ Survey of Malibu Area - Hyd. Survey
X-Sec. Notes Chk'd. ____ Checked ____ Survey by Curtis Notes ASC. Date 5-13-69
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 194 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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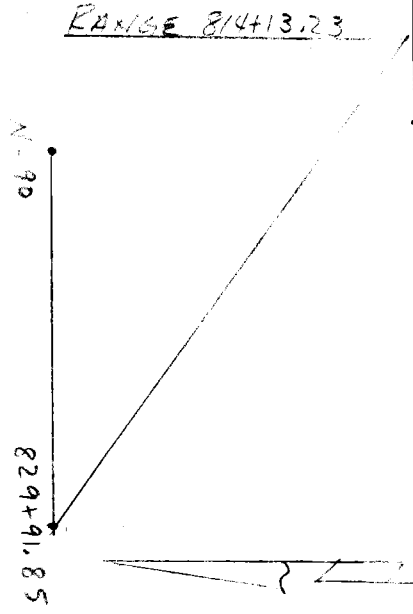
Do not extend notes this side of this line.

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					
829+92	N-90	10:00	1	33	10			
			2	32	~~20~~ 20			
			3	31	16			
			4	29	57			
			5	28	46			
			6	27	06			
			7	25	20			
			8	24	27			
			9	23	02			
			10	21	53			
			11	20	59			
			12	20	01			
			13	19	25			
			14	18	23			
			15	17	20			
			16	16	37			
			17	15	59			
			18	15	21			
			19	14	16			
			20	13	39			



Profile Notes Red. Plotted Job No. 8300.02 Division No. 11 F. B. 2818 PG. 195

No. Date Date Survey of MALIBU HYDRO SURVEY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes DON Date 5-12-69

No. Date Date Map No. Indexed Date

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only		
						Range Line		Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch			Deg.	Min.	
			21	12	37			
			22	11	37			
			23	10	42			
		10:04	24	10	14			

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date Notes Chkd. Date

Division No. Job No. 5475

Notes Date

F. B. 2818 Pg. 196

Survey of

Survey by

Indexed

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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. N-90 818+54.42

STATION	B. S.	H. I.	F. S.	ELEV.		
			Sta. 816+69.48			
	SIGHT on N-90				102° 41' Lt.	
T.P.				645	T.P. from Sta. 814+13.23	
T.P.				658	T.P. "X2" Sand.	
				10.8	52' Rt.	Sand - under [illegible]
					↑ N90	N89
	081	739		658		
			185	-111	∡ #1 52° 21	
			165		2 45 06	
			125		3 41 56	
			96		4 36 24	
			78	04	5 27 02	
			67		6 20 11	
			28		17 FT LEFT M.HT	
			13		℄ SAND.	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes ____ Date 5-13-69
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 197

F. B. 2818 PG. 198 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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

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76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

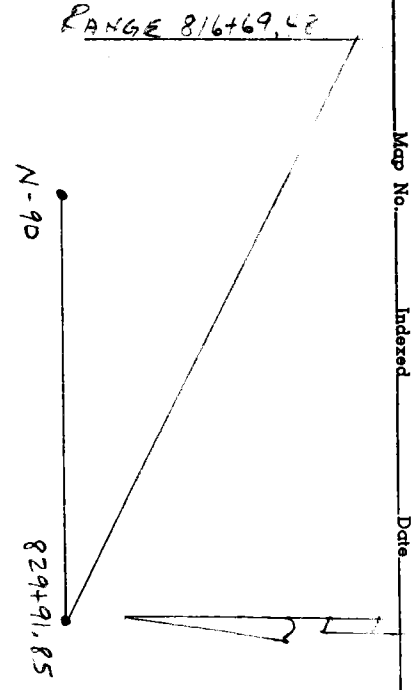
LOS ANGELES COUNTY SURVEYOR

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					
829+92	N-90	10:13	1	37	44			
			2	37	04			
			3	36	23			
			4	35	22			
			5	34	36			
			6	33	27			
			7	32	~~39~~ 39			
			8	31	46			
			9	30	50			
			10	30	11			
			11	29	05			
			12	27	59			
			13	26	48			
			14	25	34			
			15	24	17			
			16	23	14			
			17	22	05			
			18	20	56			
			19	19	41			
			20	18	55			



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2818 Pg. 199

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes DON Date 5-13-69

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

	21	17-52
	22	17-19
	23	16-28
	24	15-43
	25	14-28
	26	13-19
	~~27~~	~~12-24~~
	~~28~~	~~10-41~~
10:18	~~29~~	~~10-12~~

2818 - 200

Notes Ck'd by	Survey of HYDROGRAPHIC SURVEY
Map No.	JN 0300.02 Tape — Std — °F
Office Work	Surveyed by RICHARDS
Checked	Notes UHARRIET Date 5-13-69
Date	Indexed

F. B. 2818 PG. 201

TIDE GAGE READINGS
MAY 13, 1969
TIME - P.S.T.
DATUM - M.L.L.W.

TIME	TIDE
6:00	3.3
6:30	3.6
7:00	3.8
7:30	4.0
8:00	3.9
8:30	3.7
9:00	3.4
9:30	3.0
10:00	2.6
10:30	2.2
11:00	1.8
11:30	1.5
12:00	1.3
12:30	1.0
1:00	1.1
1:30	1.1
2:00	1.2

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

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.
Do not extend this side of this line.
PLEASE RETURN TO
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DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.
16F3095 CE#310 3-68

PLEASE RETURN TO
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DEPARTMENT OF COUNTY ENGINEER
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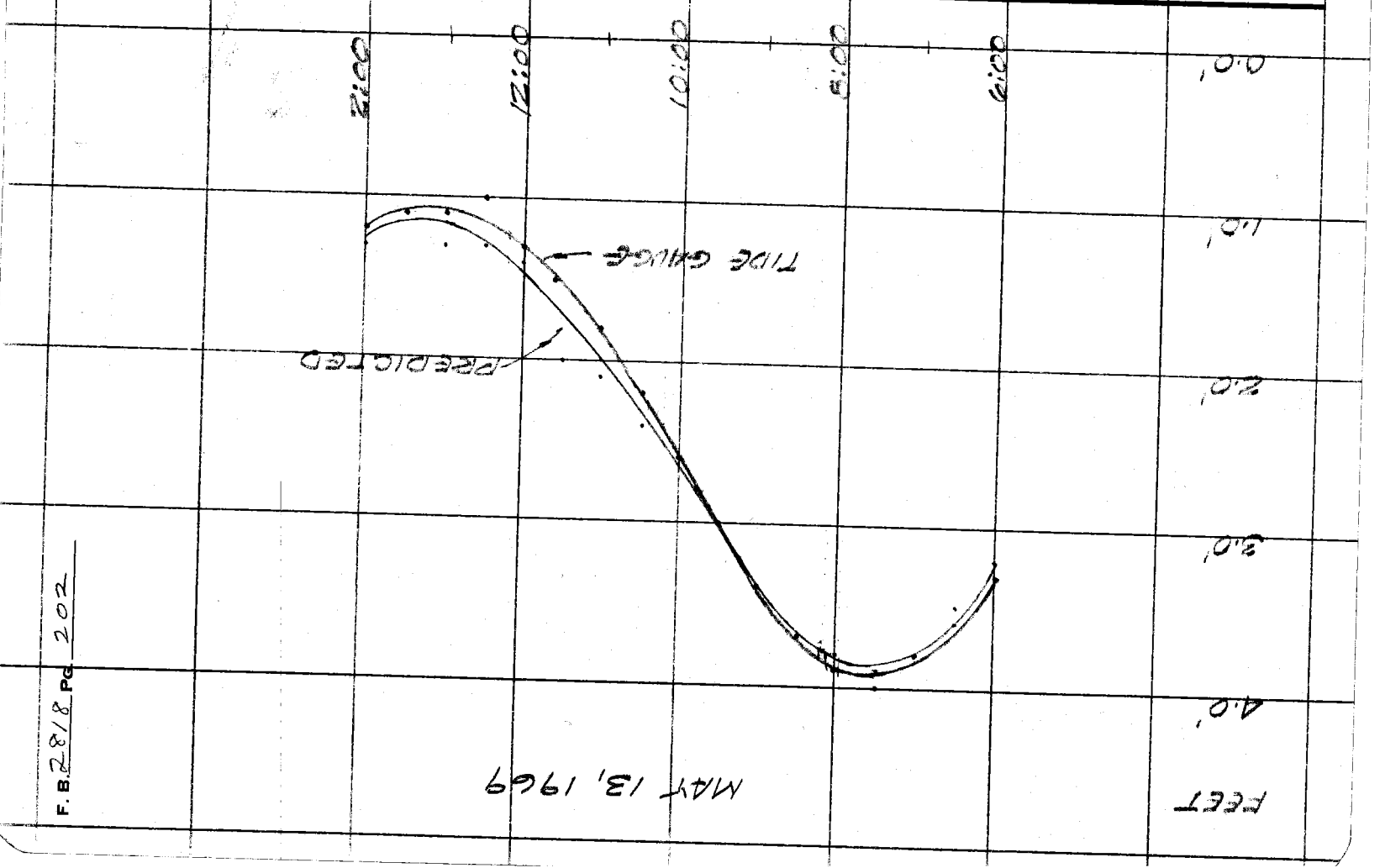
Do not extend this side of this line.



F. B. 2818 PG. 202

76-L-298 CE 307 5-66

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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.

N-90 818+54.42

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
					Sta. 819+24.48	
		Sight on N-91			76°47' Lt.	
T.B.M #20				8.38	T.B.M #20 El. 838 per FB. 1790-111 (N-90)	
T.P.				8.62	T.P. Chis't @ Sta. Rocks	
				116	24' Rt BOT Bk. under House	
T.B.M #20				8.38	T.B.M. #20	
					⊤ AT 827+17.8	SIGHT ON N-90
	0 69	9 31		8 62	21 FT LEFT M.H.T.	
			1 3	8 0	℄ SAND BESIDE ROCK	
			4 7	4 6	22 FT LEFT M.H.T.	
			6 7	2 6	Δ 1 2° 59'	
			8 9	0 4	2 4 17	
			9 4	-0 1	3 5 44	
			9 9	-0 6	4 8 49	
			11 7	-2 4	5 11 37	
			13 3	-4 0	6 14 26	
			15 6	-6 3	7 16 56	
		ESTIM.	18 0		8 19 10	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of Malibu Area - Hyd. Survey
X-Sec. Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes 9 sc. Date 5-14-69
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 7819 Pg. 203

F. B. 2818 Pg. 204 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

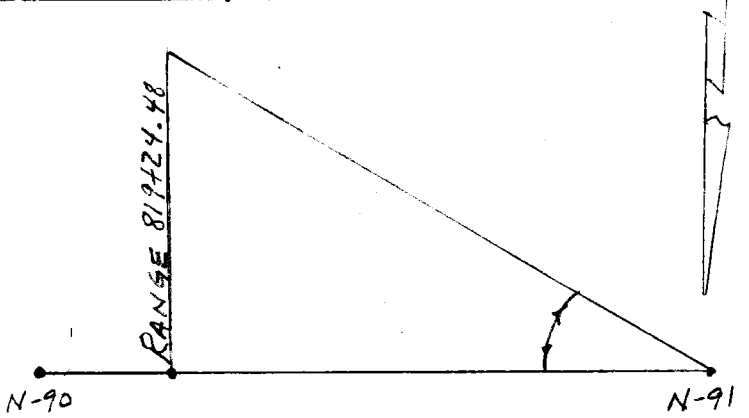
76-L-298 CE 307 5-66

Profile No. _____ Notes Red. _____ Date _____ Plotted _____ Date _____ Job No. 2300.02 Division No. 11 F. B. 2818 Pg. 205

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

Survey by RICHARDS Notes DON Date 5-14-69

Map No. _____ Indexed _____ Date _____



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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
N-91	N-90	7:26	1	35	37			
		P.S.T.	2	34	21			
			3	33	09			
			4	32	04			
			5	30	47			
			6	29	21			
			7	28	10			
			8	26	33			
			9	25	26			
			10	24	05			
			11	23	08			
			12	22	14			
			13	21	26			
			14	20	30			
			15	19	36			
		7:29	16	18	35			
		7.39	17	18	39			
			18	17	29			
			19	16	19			
			20	15	10			

76L298 307 Cdb 12-62

76L298 307 Cdb 12-62

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Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
			21	14	14			
			22	13	01			
			23	12	01			
			24	11	03			
			25	10	05			
			26	9	05			
			27	8	02			
			28	6	57			
		7:42	29	6	24			

F. B. 2818 PG. 206 Job No. SAME Division No. Notes Red. Plotted Profile

Survey of Date Date No. X-Sec.

Survey by Notes Notes Chkd. Checked

Indexed Date Date No.

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
			Sta. 821 + 76.24			
	Sight on N-91				96° 47' Lt	
T.P.				8.62	T.P. Cont from Sta 819 + 24.48	
T.P.				4.93	T.P. Chis "+" Top Rock @ Sta.	
				13.4	31' Rt. Bot Brk Rock	
				28.7	46' Rt Top Brk	
					⊼ AT 827 + 17.8 SIGHT ON N-90	
	360	8 53		4 93		
		ESTIM	19+	±-11 5	∡ 1 30 00	
		TO	DEEP	OUT OF SIGHT	2 26 20	
			170	-8 5	3 24 39	
			146	-6 1	4 21 22	
			125	-4 0	5 18 22	
			118	-3 3	6 12 50	
			89	-0 4	7 10 21	
			78	0 7	8 7 09	
			78	0 7	9 3 51	
			39	4 6	4 FT. LEFT	
	310	9 45	2 18	6 35	T.P	
			0 86	8 59	T.B.M # 21	ELEV. 8.53

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. ____ Division No. ____ F. B. ____ Pg. 207
Date ____ Date ____ Survey of Malibu Area Hyd. Survey
X-Sec. No. ____ Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date ____
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 208 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76-L-298 CE 307 5.66

76L298 307 Cdb 12-62

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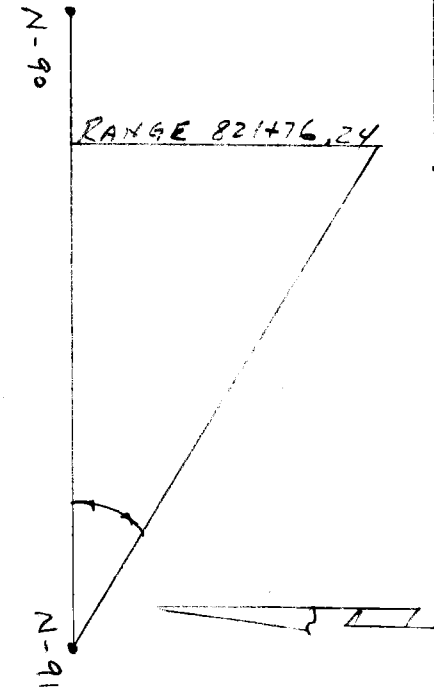
Do not extend notes this side of this line.

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					
N-91	N-90	7:54	1	38	44			
			2	37	09			
			3	35	59			
			4	34	41			
			5	33	19			
			6	31	54			
			7	30	11			
			8	28	25			
			9	27	07			
			10	25	26			
			11	23	50			
			12	22	21			
			13	20	44			
			14	19	25			
			15	18	05			
			16	16	58			
			17	15	36			
			18	14	13			
			19	13	09			
			20	11	50			

836+39
821+76

1 3



Profile Notes Red. Plotted Job Nº 2300.02 Division No. 11 F. B. 2818 Pg. 200

No. Date Date Survey of MALIBU HYDRO SURVEY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes DON Date 5-14-69

No. Date Date Map No. Indexed Date

F. B. 2818 PG. 210 Job No. _____ Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of _____ SAME Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
			21	10	48			
			22	9	45			
			23	8	26			
			24	7	41			
		7:59	25	6	37			

76-L-298 CE 307 5-66

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
			Sta. 824+28.00			
	Sight on N-91				96° 47' Lt	
T.B.M. #21				8.53	T.B.M. #21 El. 8.53 F.B. [illegible] 3 ft. spk. in sw. pile @ Malibu Riviera Cath. L & CE Tag in Rk. Sta. 829+71.85	
TP				5.26	T.P. Chis "+" on Rock - (Rocks)	
				13.8	38' Rt. Bot Brk Rock	
				28.3	38' Rt. Top " (Wd. walk)	
					831+83.38	SIGHT ON 824+28
	174	7 00		5 26		
			24	46	5 FT RIGHT SAND BETWEEN ROCKS M.H.T.	
			45	25	4+1 0° 51'	
			56	14	2 2 26	
			71	-01	3 4 53	
			95	-25	4 10 05	
			119	-49	5 14 30	
			133	-63	6 18 01	
			173	-10.3	7 22 11	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300-05 Division No. 11 Hyd. Survey
Date ____ Date ____ Survey of Malibu Riv. Hyd. Survey
X-Sec. No. ____ Notes Chk'd. ____ Checked ____ Survey by Curtis Notes 4 SC Date 5-14-69
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 2918 PG. 211

F. B. 2818 PG. 212

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

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76-L-298 CE 307 5.66

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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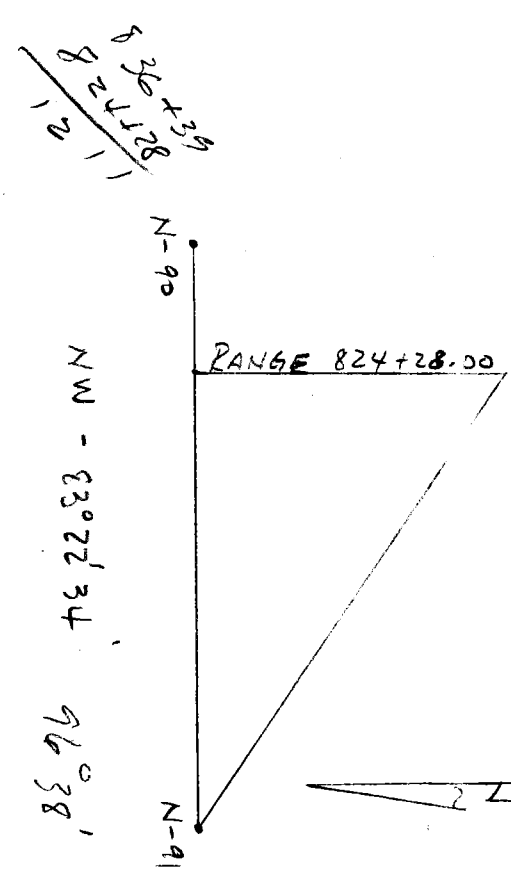
Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
N-91	N-90	8:11	1	44	20			
		P.S.T.	2	43	31			
			3	42	30			
			4	41	16			
			5	40	15			
			6	38	57			
			7	37	27			
			8	35	59			
			9	34	19			
			10	32	40			
			11	31	00			
			12	29	44			
			13	28	32			
			14	27	21			
			15	26	15			
			16	25	08			
			17	24	13			
			18	22	54			
			19	21	32			
			20	20	12			



Profile Notes Red. Plotted Job No. 0300-03 Division No. 11 F.B. 2818 Pg. 213

No. Date Date Survey of MALIBU HYDRO SURVEY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes DON Date 5-14-69

No. Date Date Map No. Indexed Date

F. B. 2818 PG. 214 Job No. _____ Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of _____ SAME Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L298 307 Cdb 12-62

PLEASE RETURN TO

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT DON'T PUNCH	SIGHT ON DON'T PUNCH	TIME DON'T PUNCH	ANGLE Nº DON'T PUNCH	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº.
			21	19	23			
			22	18	03			
			23	16	56			
			24	15	40			
			25	14	11			
			26	12	53			
			27	11	34			
			28	10	30			
			29	9	22			
			30	7	39			
		8:16	31	6	33			

76-L-298 CE 307 5-66

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
			STA. 826 + 79.76			
	Sight on		N-91		96° 47' Lt.	
T.P.				5.26	T.P. Cont. from Sta 824+28.00	
T.P.				4.00	T.P. 1"x2" @ Sta (Sand)	
T.P.				11.25	T.P. only	
				6.6		26' Rt BRK
				14.9		50' Rt BOT Brk
				28.5		50' Rt Top - Conc. wk
					π ON 831 + 83.33	SIGHT ON 824 + 28
	283	683		4 00	T.P. 1x2 STA	
			181	-11 3	∡1 25° 05'	
			135	-67	2 20 19	
			105	-37	3 16 25	
			90	-22	4 13 31	
			74	-06	5 9 06	
			63	05	6 6 54	
			50	18	7 3 17	
			22	46	11 FT RIGHT M.H.T.	
			36	32	℄ SAND	

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of Malibu Arm. Hyd. Survey
X-Sec. Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date 5-14-[illegible]
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 Pg. 215

F. B. 2818 PG. 216 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

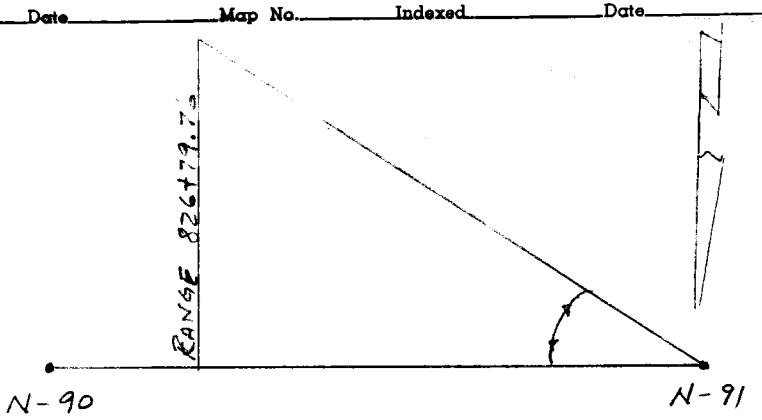
76-L-298 CE 307 5-66

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 0300.02 Division No. 11 | F. B. 2818 Pg. 217

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

Notes Chkd. _____ Checked _____ Survey by RICHARDS Notes DON Date 5-14-69

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



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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
N-91	N-90	8:30	1	54	35			
			2	53	39			
			3	52	57			
			4	52	31			
			5	51	59			
			6	50	50			
			7	49	58			
			8	49	14			
			9	48	05			
			10	47	12			
			11	46	20			
			12	45	11			
			13	44	19			
			14	43	04			
			15	41	59			
			16	40	40			
			17	39	20			
			18	38	04			
			19	36	49			
			20	35	17			

76L298 307 Cdb 12-62

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
			21	33	25			
			22	31	59			
			23	30	05			
			24	28	19			
			25	26	43			
			26	25	24			
			27	23	53			
			28	22	41			
			29	21	14			
			30	19	33			
			31	17	58			
			32	16	15			
			33	14	25			
			34	12	31			
			35	10	40			
			36	8	45			
		8:37	37	6	55			

F. B. 2818 PG. 218

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

Survey of Date No. X-Sec.

Survey by Notes Chkd. Checked

Indexed Date Date No.

76-L-298 CE 307 5-66

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
			Sta. 829 + 31.52			
Sight on N-91					96° 47' Lt.	
T.B.M. #22				9.52	T.B.M. #22 El. 9.52 F.B. 3790-111 P.O.T.	
T.P.				7.33	T.P. Chis't @ Sta	Rocks
				7.9	(Rocks)	12 Bt Bot Wd Rot W-91
				14.3		12 " Top " "
					⊼ AT 827 + 17.8	SIGHT ON N-91
	052	785		7.33	T.P. "X" ON STA. & AVERAGE ELEV. OF ROCKS	
			32	46	10 FT LEFT M.H.T.	
			66	12	∡# 1 10° 15'	
			73	15	2 13° 11'	
			81	-03	3 22 58	
			107	-29	4 33 38	
			119	-41	5 42 05	
			150	-72	6 48 20	
			164	-86	7 54 48	

DATUM
MEAN LOWER LOW WATER

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

F. B. 7818 PG. 219

F. B. 2818 PG. 220

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

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

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

Do not extend notes this side of this line.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

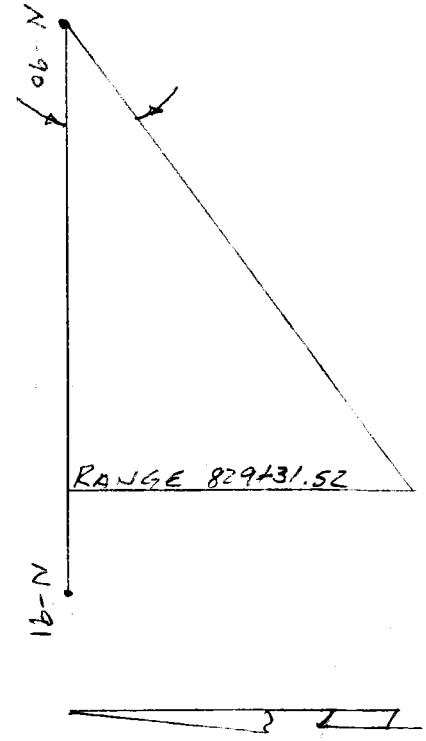
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
N-90	N-91	8:56	1	302	01	57	59	
			2	303	37	56	23	
			3	305	09	54	51	
			4	306	16	53	44	
			5	307	47	52	13	
			6	309	14	50	46	
			7	310	40	49	20	
			8	312	08	47	52	
			9	313	37	46	23	
			10	315	10	44	50	
			11	316	27	43	33	
			12	317	54	42	06	
			13	319	19	40	41	
			14	320	55	39	05	
			15	322	47	37	13	
			16	324	34	35	26	
			17	326	42	33	18	
			18	328	51	31	09	
			19	330	27	29	33	
			20	332	19	27	41	



Profile Notes Red. Plotted Job No. 0300.02 Division No. 11 F. B. 2818 Pg. 221

No. Date Date Survey of MALIBU HYDRO SURVEY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes DON Date 5-14-69

No. Date Date Map No. Indexed Date

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
			21	334	02	25	58	
			22	335	53	24	07	
			23	337	12	22	48	
			24	339	01	20	59	
			25	340	43	19	17	
			26	342	30	17	30	
			27	344	34	15	26	
			28	346	08	13	52	
			29	347	56	12	04	
			30	349	28	10	32	
		9:02	31	350	55	9	05	

F. B. 2818 PG. 222

Job No. SAME Division No. Notes Red. Plotted Date Date No. Proff.

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

Survey by Notes Chkd. Date Date No.

Indexed Date

76-L-298 CE 307 5-66

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
			Sta 831+83.28			
	Sight on N-91				96°47' Lt.	
				7.33	T.P. Cont from Sta 829+31.62	
T.P.				12.[illegible]	TP 1'x2" @ Sta	DIRT under House
				[illegible]	35' Lt.	Sand under House
				11.0	14' Lt. Top Brk	Wd. Ret wall [illegible]
				4.0	14' Lt. Bot "	Wd. Ret wall [illegible]
TBM #22				9.52	TBM #22. El. 9.52	
					⊼ AT 827+17.8	SIGHT ON N-91
	165	1412		1247	1x2 T.P. @ STA.	
	122	663	871	541	T.P.	
91			158	-92	4 #1 35° 35'	
			145	-79	2 29 37	
			112	-46	3 24 27	
			100	-34	4 20 03	
			90	-24	5 16 00	
			73	-07	6 10 20	
			58	08	7 6°12' BEGIN ROCKS	
			20	46	15 FT. LEFT, M.H.T. ON ROCK FILL SLOPE	

DATUM
MEAN LOWER LOW WATER

31 [illegible]
27 HT
[illegible]

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. 11
No. ____ Date ____ Date ____ Survey of Malibu Area Hyd. Survey
X-Sec. Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date -14
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 223

F. B. 2818 PG. 224 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

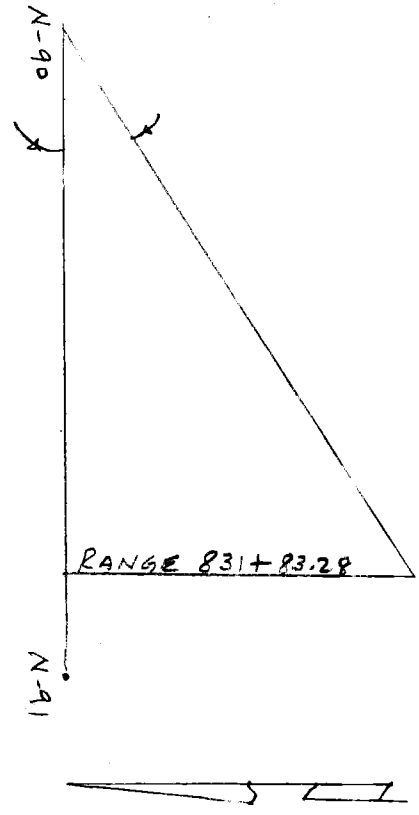
LOS ANGELES COUNTY SURVEYOR

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					
N-90	N-91	9:11	1	308	04	51	56	
			2	309	48	50	12	
			3	311	58	48	02	
			4	313	51	46	09	
			5	315	24	44	36	
			6	316	44	43	16	
			7	318	28	41	32	
			8	319	56	40	04	
			9	321	54	38	06	
			10	323	33	36	17	
			11	325	17	34	33	
			12	326	41	33	19	
			13	328	04	31	56	
			14	329	35	30	25	
			15	331	33	28	27	
			16	333	24	26	36	
			17	335	05	24	55	
			18	336	42	23	18	
			19	338	23	21	37	
			20	339	47	20	13	



Profile Notes Red. ____ Plotted ____ Job No. 0300.07 Division No. 11 F. B. 2818 Pg. 225

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes DON Date 5-14-69

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

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
			21	341	02	18	58	
			22	342	18	17	42	
			23	343	52	16	08	
			24	345	03	14	57	
			25	346	38	13	22	
			26	347	43	12	17	
			27	348	57	11	03	
			28	349	57	10	03	
			29	350	45	9	15	
			~~30~~	~~351~~	~~30~~			
		9:17	~~31~~	~~352~~	~~38~~			

F. B. 2818 PG. 226

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

Survey of Date Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed Date Date No.

76-L-298 CE 307 5-66

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

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

Do not extend notes this side of this line. N-91 836+38.14

STATION	B. S.	H. I.	F. S.	ELEV.		
			Sta. 834 + 35.04			
	Sight on N-91				96°47' Lt.	
T.P.				8.19	T.P. El. 8.19 F.B. 3770-111	Bt. spk. [illegible] Blank [illegible]
T.P.				8.71	T.P. 1"x2" @ Sta. Sand	
				12.2	43' Rt. Brk. Sand.	
				14.9	56' Rt. " "	
				15.3	69' Rt. " "	
				21.3	79' Rt. Top Brk.	
					⊼ AT 831+83.28 SIGHT ON N-91	
	0.00	8.71		8.71	T.P. 1X2 STA. FLUSH	
			41	46	24 FT LEFT M.HT.	
			79	08	∡ 41 12° 30'	
			93	-06	2 21 33	
			115	-28	3 30 30	
			125	-38	4 36 29	
			156	-69	5 40 25	
			162	-75	6 45 57	
		ESTIM.	187	-100	7 49 22	

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. 11
No. ____ Date ____ Date ____ Survey of Malibu Area Hyd. Survey
X-Sec. Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date 5-14-[illegible]
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. [illegible] Pg. [illegible]

F. B. 2818 PG. 228 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

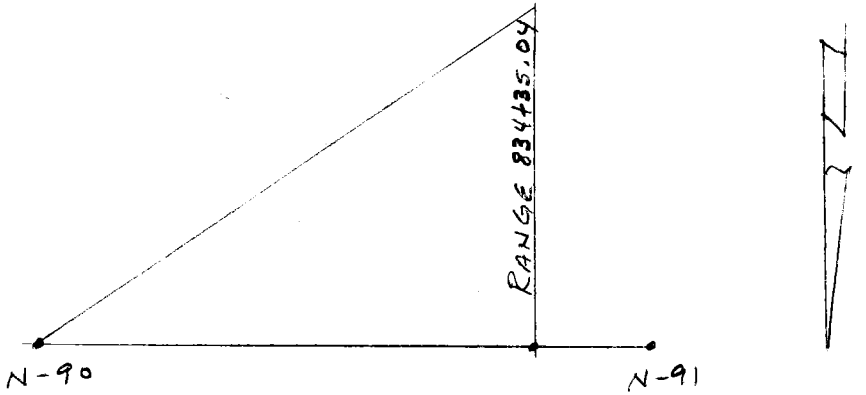
76-L-298 CE 307 5-66

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 0300.02 Division No. 11 | F. B. 2818 Pg. 229

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

Notes Chkd. _____ Checked _____ Survey by RICHARDS Notes DON Date 5-14-69

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



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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	FOR OFFICE USE ONLY LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
N-90	N-91	9:40	1	314	45	45	15	
			2	316	41	43	19	
			3	318	14	41	46	
			4	320	19	29	41	
			5	321	45	38	15	
			6	323	17	36	43	
			7	324	58	35	02	
			8	326	16	33	44	
			9	328	03	31	57	
			10	329	33	30	27	
			11	330	49	29	11	
			12	332	05	27	55	
			13	333	26	26	34	
			14	334	36	25	24	
			15	336	10	23	50	
		9:43	16	337	39	22	21	
		9:50	17	335	01	24	59	
			18	336	41	23	19	
			19	338	21	21	39	
			20	339	53	20	07	

76L298 307 Cdb 12-62

76L298 307 Cdb 12-62

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LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
			21	341	23	18	37	
			22	342	39	17	21	
			23	344	01	15	59	
			24	345	37	14	23	
			25	346	34	13	26	
			26	348	14	11	46	
			27	349	24	10	36	
			28	350	21	9	39	
			29	351	33	8	27	
		9:52	30	352	24	7	36	

F. B. 2818 PG. 230

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

Survey of Date Date No. X-Sec.

Survey by Notes Notes Chkd. Checked

Indexed Date Date No.

76-L-298 CE 307 5-66

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

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

Do not extend notes this side of this line. N-92 841+45.30

STATION	B. S.	H. I.	F. S.	ELEV.		
			Sta.	836+	86.64	
	Sight on N-92				85°07' Lt	
T.P.				8.71	T.P. Cont from Sta 834+35.04	
T.P.				8.30	T.P. 1"x2" @ Sta. Sand.	
				8.9	6' Rt. Bot Sht. Pile Wall Sand	
				14.9	6' Rt. Top " " "	
					⊼ AT 831+83.38	SIGHT ON N.91
	-0.33	7.97		8.30	T.P. 1x2	
		80	00		℄ SAND.	
			162	-82	∡ #1 32° 09'	
			151	-71	2 27 06	
			114	-34	3 19 06	
			95	-15	4 15 27	
			80	00	5 10 58	
			71	09	6 8 10	
			34	46	21 FT LEFT M.H.T.	

NEW SCAT ROCKS

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2818 Pg. 231
No. ____ Date ____ Date ____ Survey of Malibu Creek - Hyd. Survey
X-Sec. Notes Chk'd. ____ Checked ____ Survey by Curtis Notes ASC Date 5-14-62
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2818 PG. 232 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

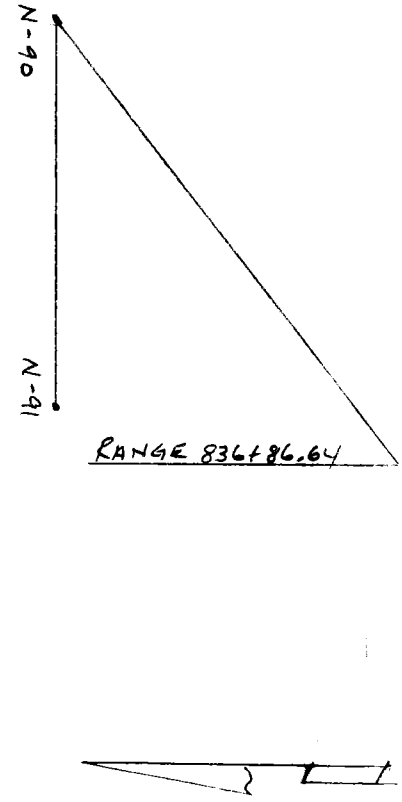
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	FOR OFFICE USE ONLY RANGE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
N-90	N-91	10:04	1	322	12	37	48	
			2	323	55	36	05	
			3	325	49	34	11	
			4	328	14	31	46	
			5	330	25	29	35	
			6	331	53	28	07	
			7	333	23	26	37	
			8	334	51	25	09	
			9	336	03	23	57	
			10	337	44	22	16	
			11	338	44	21	16	
			12	339	45	20	15	
			13	340	43	19	17	
			14	341	46	18	14	
			15	342	45	17	15	
			16	343	36	16	24	
			17	344	31	15	29	
			18	345	36	14	24	
			19	346	23	13	37	
			20	347	19	12	41	



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2818 Pg. 233

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

Date ____ Map No. ____ Date ____ Indexed ____ Date ____ Survey by DDN Notes RICHARDS Date 5-14-69

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					
			21	348	18			
			22	349	10			
			23	349	58			
			24	351	06			
			25	352	09			
			26	353	06			
		10:08	27	353	55			

F. B. 2818 PG. 234

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

Survey of Date Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed Date Date No.

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
			Sta. 839+37.55			
		Sight on N-92			85° 07' Lt.	
TP				330	T.P. Cont. from Sta. 836+86.64	
T.P.				621	T.P. 1"x2" @ STA.	(Sand)
				10.5	3' Rt Brk	Sand
				12.0	5' Rt	Sand
					⊼ AT 831+83.38,	SIGHT ON N-91
	074	6 95		621	T.P. 1x2 AT STA.	
		70	12	68	℄ SAND	
			34	46	17 FT LEFT IN. H.T.	
			55	15	⊼ #1 7° 34'	
			74	-04	2 9 12	(HOLE ON SHORE BY ROCK
			68	02	3 10 48	
			85	-15	4 14 16	
			110	-40	5 18 02	
			147	-77	6 19 33	
		RUP CORED	130	-60	7 21 27	
			146	-76	8 24 20	
			180	-110	9 28 13	

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. 11
No. ____ Date ____ Date ____ Survey of Malibu Creek Hyd. Survey
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 5812 Pg. 235

F. B. 2818 PG. 236 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

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

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

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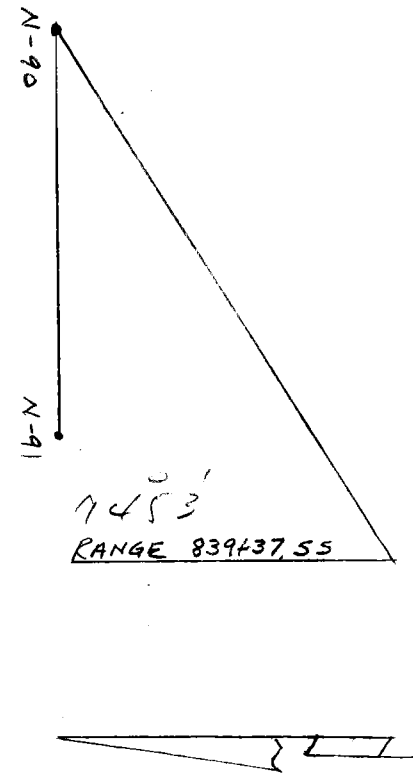
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
N-90	N-91	10:16	1	323	35	36	25	
			2	324	59	35	01	8393810
			3	326	00	34	00	
			4	327	00	33	00	
			5	328	08	31	52	
			6	329	18	30	42	
			7	330	26	29	34	
			8	331	31	28	29	
			9	332	55	27	05	
			10	334	24	25	36	
			11	335	40	24	20	
			12	336	52	23	08	
			13	338	07	21	53	
			14	339	23	20	37	
			15	340	11	19	39	
			16	341	04	18	56	
			17	341	56	18	04	
			18	342	52	17	08	
			19	343	46	16	14	
			20	344	48	15	12	



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2818 Pg. 237

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes DON Date 5-14-69

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

76L298 307 Cdb 12-62

PLEASE RETURN TO

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
			21	345	52	14	08	
			22	346	50	13	10	
			23	347	36	12	24	
			24	348	18	11	42	
			25	349	04	10	56	
			26	349	50	10	10	
			27	350	45	9	15	
			28	351	19	8	41	
		10;21	29	352	11	7	49	
				94	53			

F. B. 2818 PG. 238

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

Survey of Date Date No. X-Sec.

Survey by Notes Notes Chkd. Checked

Indexed Date Date No.

76-L-298 CE 307 5-66

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

Do not extend notes this side of this line. N-93 841+45.30 N-93 844+47.73

STATION	B. S.	H. I.	F. S.	ELEV.		
			STA. 841 + 94.28			
	SIGHT ON N-93				61°29' Lt.	
TP				6.21	TP Cont from STA 839+32.66	
T.P.				6.47	TP 1"x2" @ Sta	Sand & Rocks
				8.9	20' Rt. Bot	Wd. Ret. Wall "
				11.9	20' Rt. Top	" " "
TBM #24				9.28	TBM #24 El. 9.28	3/4 E in "n" pile Ho #20656
					⊼ AT 831+83.38	SIGHT ON N-91
	1.11	7.58		6.47	T.P. 1X2 STA.	
			15	6.1	℄ SAND.	
			147	-7.1	⊼ #1 22° 44	
			198	-10.2	2 25 32	458 OUT MORE
			172	-9.6	3 23 53	422 CAT.
			153	-7.7	4 22 42	390 ROCKS
			145	-6.9	5 20 05	346
			95	-1.9	6 15 20	253
			85	-0.9	7 14 04	220
			75	0.1	8 12 08	188
			62	1.4	9 10 34	155
			30	4.6	12 FT LEFT M.H.T	

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. 11
No. ____ Date ____ Date ____ Survey of Topo Cont Hyst. Survey
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. ____ Pg. 239

F. B. 2818 PG. 240 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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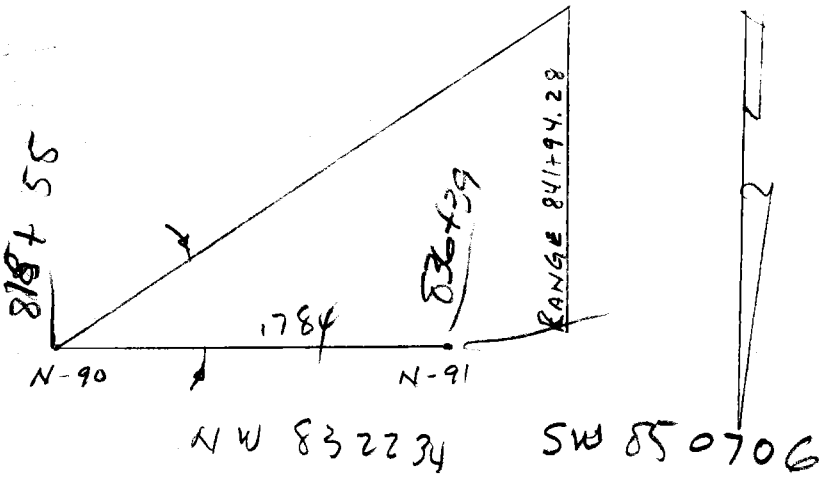
76-L-298 CE 307 5-66

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 0300.02 Division No. 11 F. B. 2818 Pg. 241

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

Notes Chkd. _____ Checked _____ Survey by RICHARDS Notes DON Date 5-14-69

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



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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	FOR OFFICE USE ONLY LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
N-90	N-91	10:28	1	329	01	30	59	
			2	330	27	29	33	
			3	331	38	28	22	
			4	333	01	26	59	
			5	334	21	25	39	
			6	335	23	24	37	
			7	336	34	23	26	
			8	337	45	22	15	
			9	338	56	21	04	
			10	340	12	19	48	
			11	341	26	18	34	
			12	342	47	17	13	
			13	343	54	16	06	
			14	344	52	15	08	
			15	345	42	14	18	
			16	346	36	13	24	
			17	347	02	12	58	
			18	347	58	12	02	
			19	348	29	11	31	
			20	349	25	10	35	

76L298 307 Cdb 12-62

F. B. 2818 PG. 292 Job No. Division No. Notes Red. Plotted Profile

Survey of SAME Date Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

76L298 307 Cdb 12-62

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LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
			21	349	55			
			22	350	44			
			23	351	11			
		10:33	24	351	44			

Notes Ck'd by	Survey of HYDROGRAPHIC SURVEY
Map No.	JN 0300.02 Tape — Std. — °F
Office Work	Surveyed by RICHARDS
Checked	Notes L HARRIS Date 5-14-69
Date	Indexed

F. B 2218 PG. 243

TIDE GAGE READINGS
MAY 14, 1969
TIME – P.S.T.
DATUM – M.L.L.W.

TIME	TIDE
6:00	2.5
6:30	2.9
7:00	3.3
7:30	3.6
8:00	3.7
8:30	3.7
9:00	3.6
9:30	3.4
10:00	3.2
10:30	2.9
11:00	2.5
11:30	2.2
12:00	1.9
12:30	1.7
1:00	1.6
1:30	1.4
2:00	1.6

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

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

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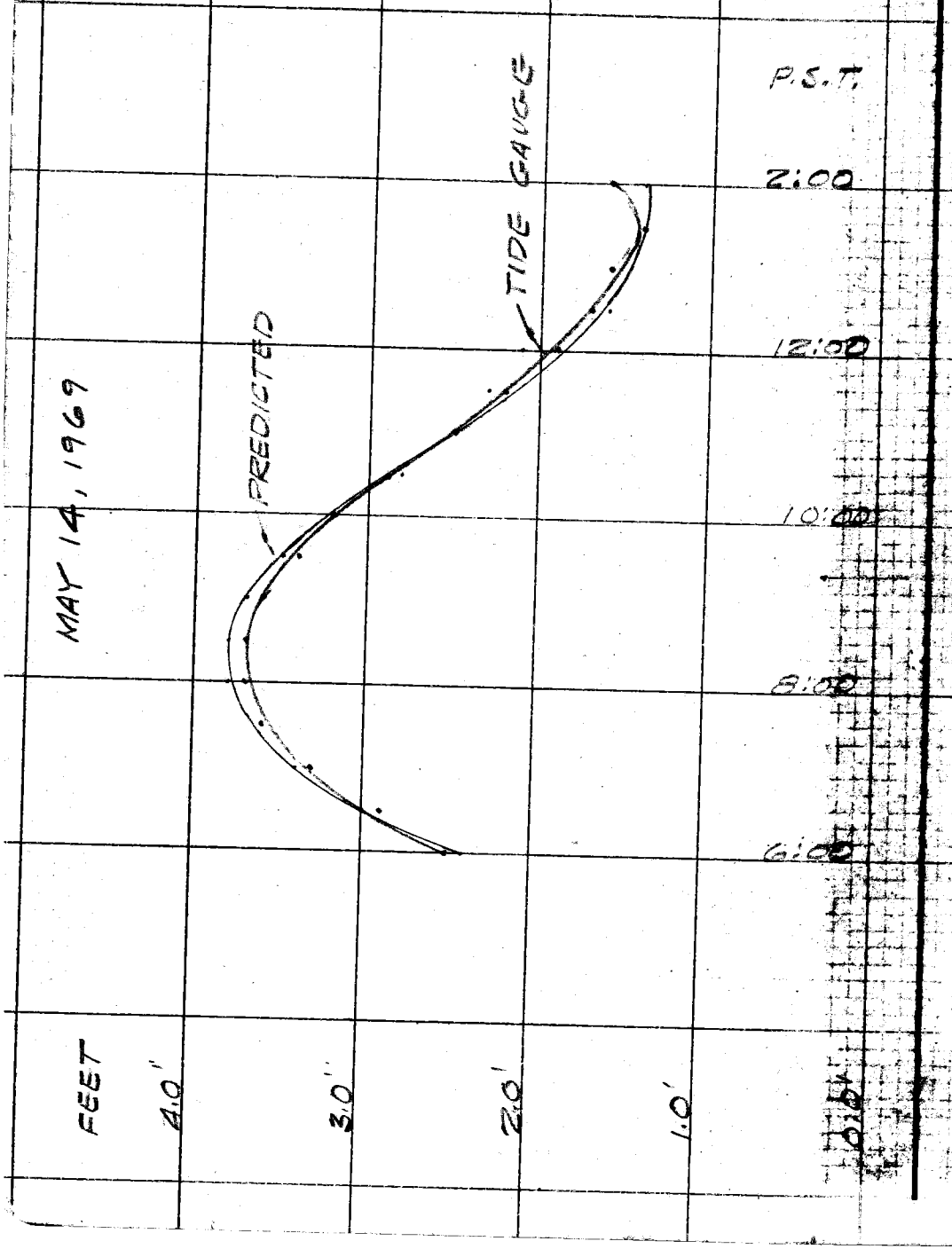
403 LOS ANGELES COUNTY ENGINEERING BLDG.

16F309S CE#310 3-68

BLANK. BOOK CLOSED

F. B. 2818 PG. 244

SEE F.B. 2819 FOR CONTINUATION OF SURVEY



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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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