Notes Ck'd by	HYDROGRAPHIC SURVEY
Map No.	Survey of
Office Work	JN 0300.02 Tape — Std — °F
	Surveyed by W. A. RICHARDS
Date	Notes W. A. R. Date 11-73
	Indexed: D. BAILEY DEC 3 1973

F. B. 2824 PG. 5

J. N. 0300.02

HYDROGRAPHIC SURVEY

REDONDO BEACH TO MALAGA COVE

FROM STATION 290+65 S. TO 428+19 S., INC.

SURVEY DIV. FILE NO. 6205

VERTICAL DATUM = M.L.L.W.

TIME REFERENCE = PACIFIC STANDARD TIME

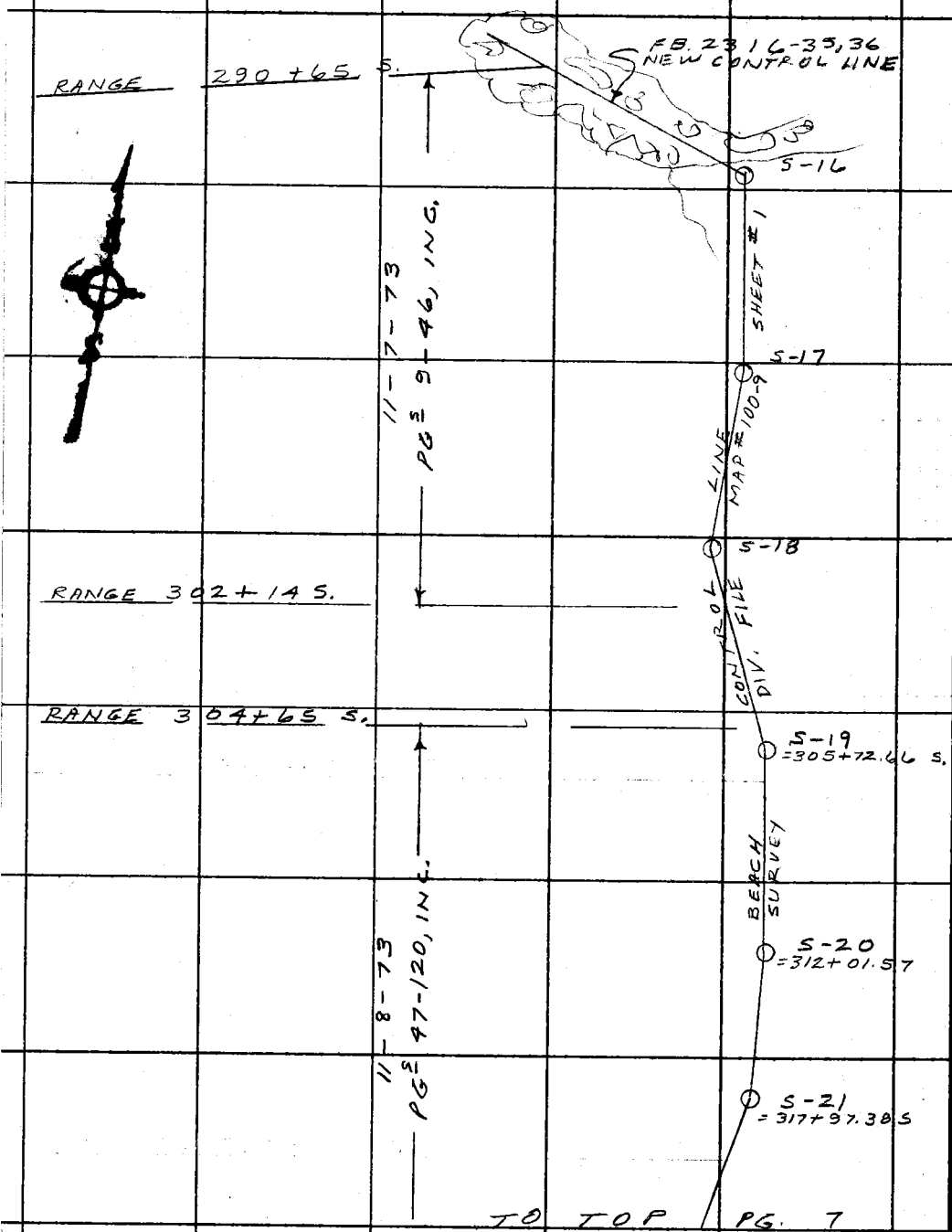
RICHARDS	BAZEN	ENGLISH	DREIER
LEGAULT	SHOEMAKER	CARO	PETERSON
TURRILL	STROUD	TULLIER	GOBLE
BUSTRUM	CLIFFORD	JOHNSON	MOORE
			McKNIGHT
		LIFEGUARDS	PAYNE
			WESTERMAN

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEER BLDG.
76F 3-69

F. B. 2824 PG. 6

INDEX MAP
NO SCALE

ENTRANCE TO KING HARBOR



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DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Notes Ck'd by
Map No.
Office Work
Checked
Date

HYDROGRAPHIC SURVEY
Survey of
JN 0300.02 Tape — Std — °F
Surveyed by RICHARDS
Notes RICHARDS Date 11-73
Indexed J. D. BAILEY DEC 3 1973

F. B. 2824 Pg. 7

INDEX MAP (CONT.)
NO SCALE

TO BOT. PG. 6

11-8-73
PG 47-120, INC.

RANGE 328+16 S.

RANGE 330+00 S.

S-22
=323+27.44 S.

LINE
NO. 100-9 SH #1

S-23
=333+41.74 S.

S-24
=337+13.46 S.

CONTROL
FILE
MAP

S-25
=344+23.01 S.

BEACH
SURVEY DIV.

S-26
=347+44.69 S.

11-9-73
PG 121-186, INC.

REDONDO - CLIFTON BEACH

TO TOP PG. 8

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76F309s CE#3103-69

F. B. 2824 PG. 8

INDEX MAP (CON'T)

NO SCALE

11-9-73
PG. 121-186, INC.

RANGE 388+00 S.

SHEET #1 LINE

S-27
= 388+19.02 S.

RANGE 393+19 S.

CONTROL FILE MAP # 100-9

11-14-73
PG. 187+222, INC.

S-28
= 422+46.03 S.

BEACH SURVEY DWG.

RANGE 428+19 S.

MALAGA COVE

S-29
= 430+81.53 S.

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76-L-298 CE 307 8-70

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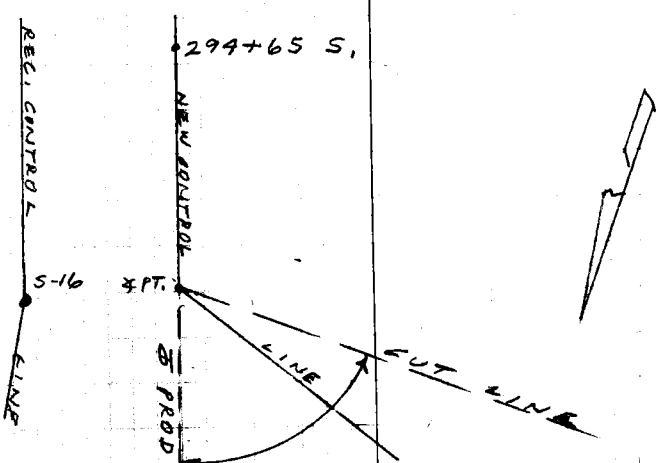
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.			290+65S
S-16	066	2094		2028			
	341	1412	1023	1071	T.P.		
	313	1225	500	912			
290+65							(FB. 2316-35,36)
					⊼ AT ~~516~~ ∡PT. (NEW. OFFSET W.)		BACKSIGHT ON NEW 294+65
			+25	147			AVERAGE TOP OF ROCKS
			88	34	#4	47° 52'	ROCK WATERS EDGE @ 10:05
			145	-23	#1	48° 48'	
			157	-35	#2	49 52	
			220	-198	#3	50 18	ESTIMATE 4 OVER 18' ROD



Profile Notes Red ____ Plotted ____ Job No. 030002 Division No. 11 F.B. 2824 PG. 9
No. ____ Date ____ Date ____ Survey of HYRO SURVEY - REDONDO
X-Sec. Notes Chk'd. WH Checked ____ Survey by ENGLISH Notes CARD DREIER Date 11-7-73
No. ____ Date 1-15-74 Date ____ Map No. ____ Indexed C. D. BAILEY Date DEC 3 1973

F. B. 2824 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.

76-L-298 CE 307 8-70

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76L298 307 Cdb 12-62

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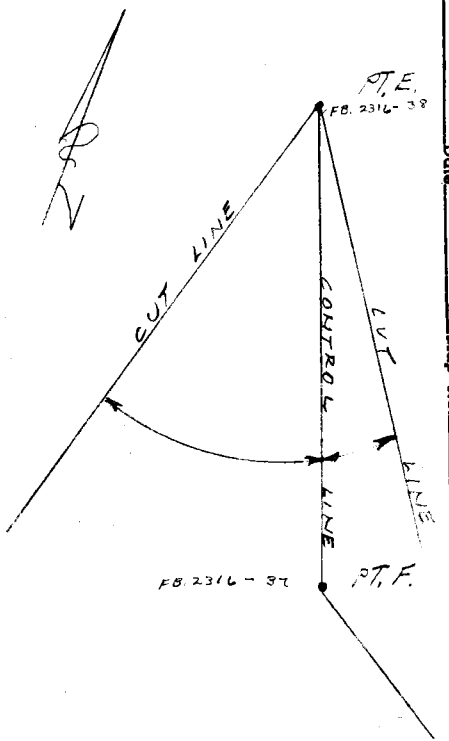
726 Los Angeles County Engineering Bldg.

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						
P.T.E	PT. F	8:12	1	44	06				
			2	43	10				
			3	41	32				2906518
			4	39	12				
			5	38	16				
			6	36	56				2906520
			7	35	12				
			8	33	55				
			9	32	15				2906522
			10	30	40				
			11	29	34				
			12	27	54				2906524
			13	26	32				
			14	24	46				
			15	23	20				2906526
			16	22	21				
			17	20	40				
			18	19	30				2906528
			19	18	30				
			20	17	25				
			21	15	30				2906530



RANGE LINE 290+65 S

Profile Notes Red. Plotted Job No. 300-4 Division No. 1

No. Date Date 1 Survey of HYDRO SURVEY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes PT Date 11-7-73

No. Date Date Map No. Indexed by L.A.BAILEY Date DEC 3 1973

F. B. 2316 Pg. 11

76L298 307 Cdb 12-62

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726 Los Angeles County Engineering Bldg.

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F. B. 2824 Pg. 12 | Job No 2300.42 Division No. 11 | Notes Red. | Plotted | Profile
Survey of HYDRO SURVEY | Date | Date | No.
Survey by RICHARDS | Notes | Notes Chkd. | Checked | X-Sec.
Indexed G. D. BAILEY | Date DEC 3 1973 | 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.
PT. E	PT. F		~~21~~	~~15~~	~~30~~			
			22	13	20			
			23	11	40			
			24	09	30			2906532
			25	08	25			
			26	07	45			
			27	07	05			2906534
			28	06	20			
			29	05	15			
			30	04	12			2906536
			31	03	13			
			32	02	11			
			33	01	35			2906552
			34	01	10			
			35	00	20			
			36	~~359~~	10	- 0	50	2906559
			37	~~357~~	10	- 2	50	
			38	~~356~~	11	- 3	49	
			39	~~355~~	08	- 4	52	2906556
			40	~~354~~	40	~~- 5~~	~~20~~	

RANGE LINE 290+65 S.
(CONT.)

76L298 307 Cdb 12-62

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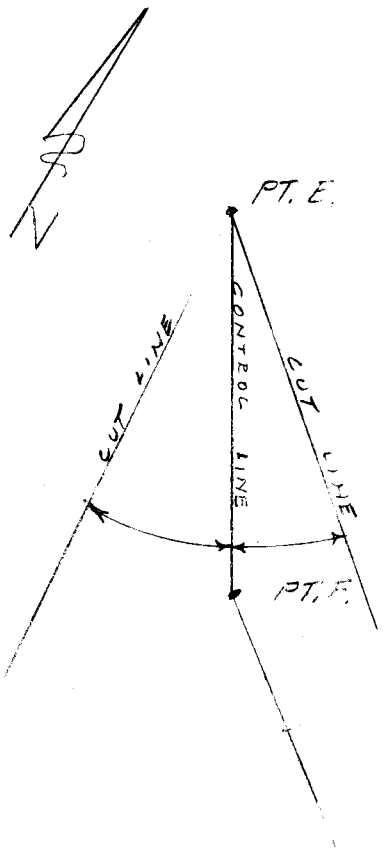
(CONT.)

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					
PT E	PT. F		41	~~354~~	~~11~~	-5 -5	20 49	
			42	~~353~~	~~08~~	-6	52	2906558
			43	~~352~~	~~09~~	-7	51	
			44	~~351~~	~~40~~	-8	20	
			45	~~351~~	~~10~~	-8	50	2906560
			46	~~350~~	~~08~~	-9	52	
			47	~~349~~	~~10~~	-10	50	
			48	~~348~~	~~25~~	-11	35	2906562
			49	~~348~~	~~10~~	-11	50	
			50	~~347~~	~~08~~	-12	52	
			51	~~347~~	~~00~~	-13	00	2906564
			52	~~346~~	~~08~~	-13	51	
		8:20	53	~~346~~	~~10~~	-13	50	
						00	00	2906566
						00	00	
						00	00	
						00	00	2906568



RANGE Line 2904655.

Profile Notes Red. ____ Plotted ____ Job No. 0300.05 Division No. 11 F. B. 2824 Pg. 13

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-7-73

No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date DEC 3 1973

F. B. 2824 Pg. 14 | Job No. 2300.02 Division No. 11 | Notes Red. | Plotted | Profile

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

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

Indexed | Date | Date | Date | No.

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.

76-L-298 CE 307 8-70

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		292+65 S
S 16	066	2094		2028		
	204	1275	1023	1071		
292+65			04	123	L. & TAG ON STAT. 2' LOW	
			25	102	40 FT. WEST, RIGHT	
			46	81	50 " "	
SEE PG. 9 FOR SKETCH					→ T ~~S 16~~ 4 FT. (NEW OFFSET W.) BACKSIGHT 294+65 NEW	
			165	-38	#1 56° 34' 15' W. OF ROCKS	
			180	-53	2 58° 46'	
			200	-73	3 60° 39'	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2824 PG. 15
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY REDONDO
X-Sec. Notes Chk'd. CWA Checked ____ Survey by ENGLISH Notes CARO-DRF Date 11-7-73
No. ____ Date 1-18-74 Date ____ Map No. ____ Indexed S. D. BAILEY Date DEC 8 1973

F. B. 2824 PG. 16 Job No. Division No. Notes Red Plotted Profile

Survey of Date Date No.

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

Indexed Date Date Date No.

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

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76-L-298 CE 307 8-70

76L298 307 Cdb 12-62

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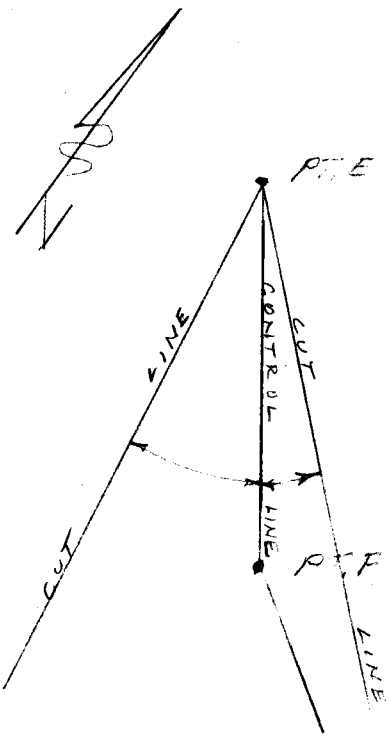
Do not extend notes this side of this line.

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.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
PT. E.	PT. F	840	1	84	40			
			2	84	05			
			3	83	31			2926518
			4	82	44			
			5	81	51			
			6	81	17			2926520
			7	80	30			
			8	79	22			
			9	78	35			2926522
			10	77	47			
			11	76	48			
			12	76	06			2926524
			13	75	00			
			14	74	00			
			15	72	58			2926526
			16	71	38			
			17	70	33			
			18	69	17			2926528
			19	67	00			
			20	66	34			
			21	65	02			2926530



RANGE 292+65 S

Profile Notes Red. Plotted Job No. 0300.02 Division No. F. B. 2824 Pg. 17

No. Date Date Survey of HYDRO. SURVEY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes R.F. Date 11-7-73

No. Date Date Map No. Indexed G. D. BAILEY Date DEC 8 1973

76L298 307 Cdb 12-62

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F. B. 2824 Pg. 18 | Job No. 0300.02 Division No. 11 | Notes Red. | Plotted | No.
Survey of HYDRO SURVEY | Date | Date | No.
Survey by RICHARDS | Notes | Notes Chkd. | Checked | X-Sec.
Indexed G. D. BAILEY | Date DEC 3 1973 | 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.
PT E.	PT. F		~~21~~	~~65~~	~~02~~			
			22	63	17			
			23	61	30			
			24	59	42			2926532
			25	57	41			
			26	55	33			
			27	52	48			2926534
			28	49	50			
			29	48	10			
			30	44	36			2926536
			31	41	56			
			32	38	45			
			33	35	16			2926554
			34	32	24			
			35	30	22			
			36	28	36			2926556
			37	27	18			
			38	26	12			
			39	25	16			2926558
			~~40~~	~~24~~	~~15~~			

RANGE 29 2+65 S.
(CONT.)

76L298 307 Cdb 12-62

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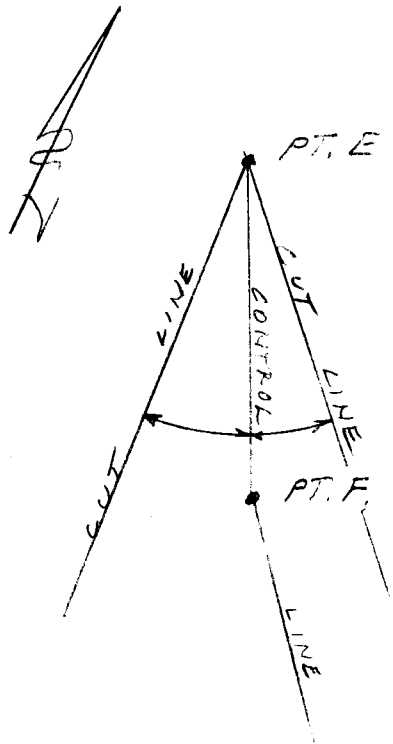
(CONT.)

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					
PT. E	PT. F		40	24	15			
			41	22	44			
			42	21	41			2926560
			43	20	29			
			44	19	27			
			45	17	51			2926562
			46	16	32			
			47	15	06			
			48	13	52			2926564
			49	12	51			
			50	11	42			
			51	10	48			2926566
			52	09	55			
			53	08	56			
			54	07	58			2926568
			55	07	15			
			56	06	17			
			57	05	22			2926570
			58	04	32			
			59	03	54			
			60	02	54			2926572



RANGE 292+65 S.

Profile Notes Red. ____ Plotted ____ Job No. 2300.2 Division No. 11 F. B. 2824 Pg. 19

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by McHARDS Notes R.T. Date 11-7-73

No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BALLES Date DEC 3 1973

76L298 307 Cdb 12-62

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RANGE 292+65 S. (CONT.)

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					
PT. E.	PT. F.		61	02	11			
			62	01	08			
			63	~~359~~	~~22~~	-0	38	2926590
			64	~~358~~	~~57~~	-1	03	
			65	~~358~~	~~31~~	-1	29	
			66	~~357~~	~~27~~	-2	33	2926592
			67	~~356~~	~~45~~	-3	15	
			68	~~355~~	~~46~~	-4	14	
			69	~~354~~	~~58~~	-5	02	2926594
			70	~~354~~	~~14~~	-5	46	
			71	~~353~~	~~24~~	-6	36	
			72	~~352~~	~~32~~	-7	28	2926596
			73	~~351~~	~~38~~	-8	22	
			74	~~350~~	~~53~~	-9	07	
			75	~~350~~	~~12~~	-9	48	2926598
			76	~~349~~	~~20~~	-10	30	
			77	~~348~~	~~32~~	-11	28	
			78	~~347~~	~~52~~	-12	08	2926600
			79	~~347~~	~~16~~	-12	44	
		8:50	80	~~346~~	~~54~~	-13	06	
				00	00			2926602

F. B. 2824 PG. 20
Survey of HYDRO. SURVEY
Survey by RICHARDS
Indexed G. D. BAILEY
Job No. 0300.02 Division No. 11
Notes Red. Date Plotted Date
Notes Chkd. Date Checked Date
Notes Date DEC 3 1973
Profile No. X-Sec. No.

76-L-298 CE 307 8-70

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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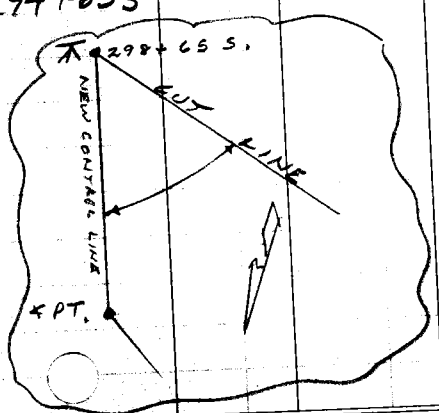
Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M.L.L.W.	294+65 S.
~~fd~~ B.M. S-16	4 95	25 23		20 28	B.M. S-16, el = 20.28, F.B. 2316-51	
294+65S.			4 49	20 74	New beach cont. line, F.B. 2316-34	
			4 48	20 75	edge wood walk	10.5 R.
			10 7	14 5	Top rocks	11.5 R.
	1 18	16 35	10 06	15 17	T.P.	
			6 3	10 0	Toe rocks	19' R.
			8 9	7 4	sand	41' R.
			~~10 6~~ 7 2	~~5 7~~ 9 2	Top 4' 1X2	"
T.P.	3 50	16 00	3 85	12 50	TP Top rock	
296+65S.	9 99	21 99	4.00	12 00	Top of 4'-1X2	
					⊼ AT 298+65S (NEW) SIGHT ON NEW ~~S-16~~ ⊼ PT.	
294+65S	-0 60	8 6		9 2	TOP 4' 1X2	41' R (4 LINES UP)
			12	7 4	SAND	41' R
			40	4 6	SAND	65' R M.H.W
			82	0 4	#1 15° 47'	
			98	-1 2	2 20 53	
			119	-3 3	3 25 10	
			145	-5 9	4 28 36	
			153	-6 7	5 33 04	
			190	-10 4	6 35 48	EST. 1 FT OVER 18' ROD



Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____
Date ____ Date ____ Survey of Hydrosurvey
X-Sec. No. ____ Notes Chk'd. CWA Checked ____ Survey by ENGLISH Notes CARI-DREDGE Date 11-7-73
Date 1-18-74 Date ____ Map No. ____ Indexed S. D. BAILEY Date DEC 3 1973

F.B. 2824 PG. 21

F. B. 2824 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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76-L-298 CE 307 8-70

76L298 307 Cdb 12-62

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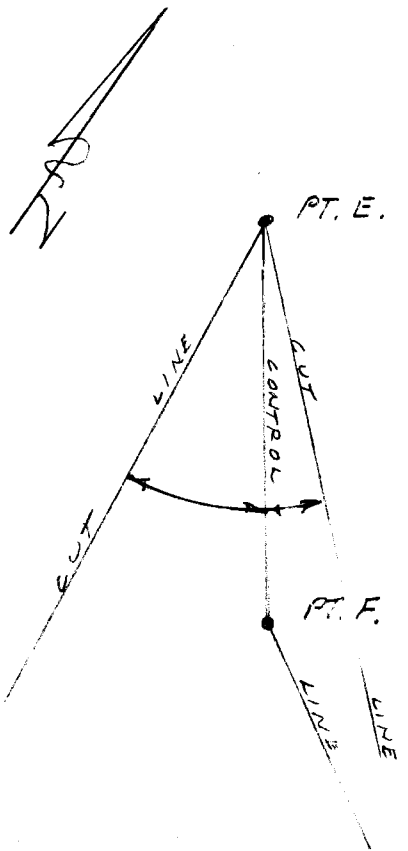
Do not extend notes this side of this line.

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.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
PT. E	PT. F	9:35	1	77	50			
			2	76	10			
			3	74	34			2946520
			4	72	42			
			5	71	16			
			6	69	16			2946522
			7	67	31			
			8	65	39			
			9	62	59			2946524
			10	61	26			
			11	59	54			
			12	56	59			2946526
			13	54	52			
			14	52	08			
			15	49	10			2946528
			16	46	54			
			17	45	11			
			18	43	52			2946530
			19	42	26			
			20	40	50			
			21	39	34			2946532



RANGE 294+65 S.

Profile Notes Red. ____ Plotted ____ Job No. 0300 Division No. ____ F. B. 2824 Pg. 23

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes P.T. Date 11-7-73

No. ____ Date ____ Date ____ Map No. ____ Indexed D. BAILEY Date DEC 3 1973

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F. B. 2824 Pg. 24 Job No. 2300.02 Division No. 11 Notes Red. Plotted
Survey of HYDRO. SURVEY Date No.
Survey by RICHARDS Notes Chkd. Checked
Indexed G. D. BAILEY Date DEC 8 1975 Date

Profile X-Sec.

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.
PT. E	PT. F		~~21~~	~~39~~	~~34~~			
			22	37	33			
			23	35	45			
			24	34	19			2946534
			25	32	35			
			26	31	11			
			27	29	33			2946536
			28	28	31			
			29	25	51			
			30	24	38			2946538
			31	23	07			
			32	21	46			
			33	20	40			2946540
			34	19	32			
			35	18	24			
			36	17	24			2946560
			37	16	21			
			38	15	27			
			39	13	12			2946562
			~~40~~	~~1~~	~~15~~	OMIT		

RANGE 29 + 65 S.
(CON'T)

76L298 307 Cdb 12-62

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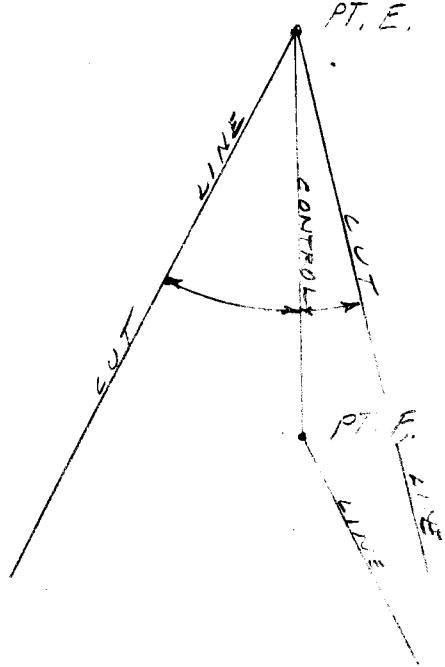
Do not extend notes this side of this line.

(CONT.)

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					
PT. E	PT. F.		41	12	04			
			42	10	53			
			43	09	34			2946564
			44	08	28			
			45	07	37			
			46	06	29			2946566
			47	05	17			
			48	04	25			
			49	03	22			2946568
			50	02	38			
			51	01	32			
			52	00	52			2946570
			53	~~359~~	~~48~~	-0	12	
			54	358	54	-1	06	
			55	357	50	-2	10	2946572
			56	356	45	-3	15	
			57	355	34	-4	26	
			58	355	20	-4	40	2946574
			59	354	22	-5	38	
			60	353	43	-6	17	
			61	352	40	-7	20	2946576



RANGE 294+65 S

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2829 Pg. 25

No. ____ Date ____ Date ____ Survey of HYDRO SURVEY

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-7-73

No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date DEC 3 1973

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					
PT. E	PT. F.		~~61~~	~~352~~	~~40~~			
			62	351	45	-8	15	
			63	351	02	-8	58	
			64	350	26	-9	34	2946578
		9:48	65	349	48	-10	12	
				00	00			
				00	00			2946580
				00	00			
				00	00			
				00	00			2946582

RANGE 294+65 S.
(CONT)

F. B. 2824 PG. 26
Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile
Survey of HYDRO. SURVEY Date Date No.
Survey by RICHARDS Notes Notes Chkd. Checked X-Sec.
Indexed G. D. BAILEY Date DEC 3 1973 Date Date No.

76-L-298 CE 307 8-70

A 298+65

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M.L.L.W.	296+65 S.
		21 99				
296+65S.		+	1 9	239	New Beach Cont. line, F.B. 2316-34	
		+	1 9	239	edge wd. walk	9' R.
			2 9	191	Top rock.	10' R.
			9 6	124	Toe rock.	19' R.
			11 3	105	sand	41' R.
T.P.	10 28	23 61	8 66	13 33	TOP 1X2	
					298+65S ON NEW CONTROL, SIGHT ~~5~~ #PT.	
296+65S	1 45	11 88		13 33	TOP OF 1X2	SEE PG. 21 FOR SKETCH.
	1 03	7 54	-5 37	6 51	T.P.	
			185	-11 0	#1 60° 09'	
			167	-9 2	2 58 56	
			145	-7 0	3 55 11	
			126	-5 1	4 52 18	
			103	-2 8	5 48 40	
			78	-0 3	6 43 19	
			63	12	7 36 12	
			41	34	107 FT RT.	
			29	46	93 " "	M.H.W.
			00	75	70 " "	

Profile Notes Red ____ Plotted ____ Job No. 030002 Division No. ____
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chk'd. CWA Checked ____ Survey by Elbrish-Dreier-Cwa Date 11-7-73
No. ____ Date 1-18-74 Date ____ Map No. ____ Indexed D. BAILEY Date DEC 3 1973

F.B. 2824 PG. 27

F. B. 2824 PG. 28 Job No. Division No. Notes Red Plotted Profile

Survey of Date Date No.

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

Indexed Date Date Date No.

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

Do not extend notes this side of this line.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76-L-298 CE 307 8-70

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.

(2)

SURVEY 11-7-73

Do not extend 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					
						93	23	
						00	00	
						00	00	2946556
						00	00	
						00	00	
						00	00	2946558

Profile

Plotted ____ No. ____ X-Sec.

Date ____ Checked ____ Date ____ No. ____

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

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

PG.

F. B.

Survey of ____

Survey by ____

Indexed ____

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

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

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

No.____ Date____ Date____ Survey of____

X-Sec. Notes Chkd.____ Checked____ Survey by____ Notes____ Date____

No.____ Date____ Date____ Map No.____ Indexed____ Date____

76L298 307 Cdb 12-62

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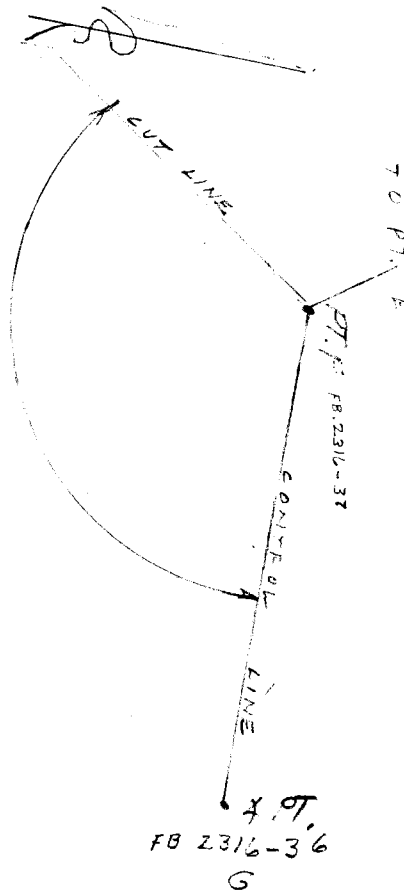
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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 DEG.	RANGE LINE MIN.	CARD NO
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
PT. F.	& PT	10:38	1	160	00			
			2	159	25			
			3	158	59			
			4	157	50			
			5	157	26			
			6	157	08			
			7	156	39			
			8	156	17			
			9	155	56			
			10	155	16			
			11	154	44			
			12	154	22			
			13	153	52			
			14	153	09			
			15	152	46			
			16	152	09			
			17	151	22			
			18	150	41			
			19	149	00			
			20	148	25			



RANGE 296+65 S.

Profile Notes Red. Plotted Job No. 23[illegible] Division No. 4

No. Date Survey of

X-Sec. Date Notes R.T. Date 11-7-73

Notes Chkd. Checked Survey by Notes R.T. Date DEC 3 1973

No. Date Date Map No. Indexed by BAILEY Date

F. B. 2[illegible] Pg. 29

76L298 307 Cdb 12-62

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
PT. F.	∡ PT		21	148	06			
			22	147	48			
			23	147	18			
			24	146	14			
			25	145	30			
			26	144	32			
			27	143	34			
			28	142	46			
			29	141	22			
			30	139	47			
			31	138	16			
			32	136	46			
			33	135	24			
			34	133	35			
			35	131	46			
			36	129	42			
			37	127	47			
			38	125	50			
			39	123	36			
			40	120	00			

RANGE 296+65 S.
(CONT.)

F. B. 2824 PG. 30
Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile
Survey of HYDRO SURVEY Date Date No.
Survey by RICHARDS Notes DEC 3 1973 Notes Chkd. Checked X-Sec.
Indexed G. D. BAILEY Date Date Date No.

76L298 307 Cdb 12-62

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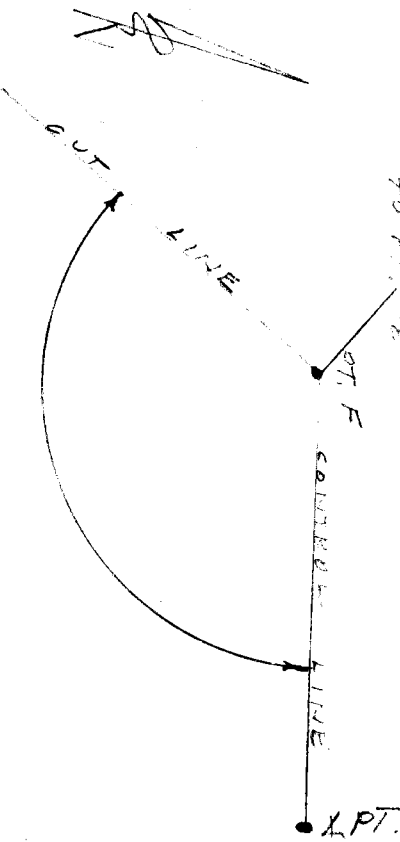
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE NO	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE LINE MIN.	CARD NO
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
P.T. F.	℄ P.T.		41	118	52			
			42	115	00			
			43	112	03			
			44	109	59			
			45	106	47			
			46	102	17			
			47	98	43			
			48	94	59			
			49	91	49			
			50	87	44			
			51	84	31			
			52	79	00			
			53	76	33			
			54	72	22			
			55	69	12			
			56	65	32			
			57	61	59			
			58	58	47			
			59	54	06			
			60	51	26			



RANGE = 296+65.5

Profile Notes Red. Plotted. Job No. 2222 Division No.

No. Date Survey of HYDRO SURVEY

X-Sec. Notes Chkd. Checked Survey by PHERRIS Notes Date 11-7-73

No. Date Date Map No. Indexed D. BAILEY Date DEC 3 1973

F. B. 2221 Pg. 31

76L298 307 Cdb 12-62

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F. B. 2824 Pg. 32
Job No. 0300.42 Division No. 11 Notes Red. Plotted
Survey of HYDRO SURVEY Date Date
Survey by RICHARDS Notes Chkd. Checked
Indexed by D. BAILEY Notes Date Date
Date DEC 3 1975
Profile No. X-Sec. No.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. DEG.	ANGLE MIN.	FOR OFFICE USE ONLY		
						RANGE DEG.	LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
PT. F	X PT.		61	48	30			
			62	46	50			
			63	45	30			
		10:51	64	44	45			

RANGE 296 + 65 S.
(CONT)

76-L-298 CE 307 8-70

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

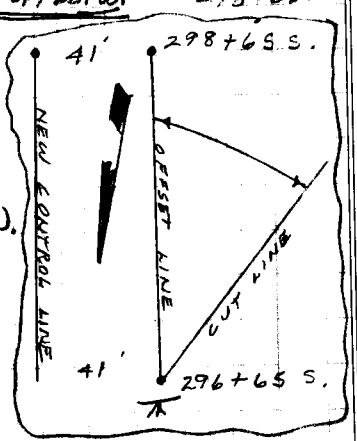
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Range Line
298+65 S.

STATION	B. S.	H. I.	F. S.	ELEV.	M.L.L.W.
		23 61			
298+65 S.			1 52	22 09	New Beach Cont. line, F.B. 2316-32
			0 52	31	Top rocks. 10' R.
			11 0	12 6	Toe " 31' R.
			11 3	12 3	Sand 41' R.
T.P.	3 15	17 15	9 61	14 00	Top 4'-1X2 41' R.
T.P.	10 65	27 28	0 52	16 63	
					⊼ AT 296+65 S. 41 FT OFFSET W.
	-0 50	13 50		14 00	TO 4' 1X2
298+65 S.			12	12 3	SAND
			16	11 9	53 FT RIGHT BRK
			36	9 9	74 " "
			89	4 6	109 " " M.H.W.
	185	643	892	4 58	T.P.
			58	0 6	#1 27° 58
			72	-0 8	#2 35 51
			97	-3 3	#3 42 37
			134	-7 0	4 48 57
			153	-8 9	5 54° 05' NEAR PIER
			175	-11 1	6 57° 06 UNDER PIER
			195	-13 1	7 60° 23' OUTSIDE PIER EST. 1.5 OVER ROD
			21.0	-14 6	8 60° 41' " 2.+ " "

SIGHT AHEAD 298+65 S



Profile Notes Red ____ Plotted ____ Job No. 0306.02 Division No. ____
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY - REDONDO
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ENGLISH DRENKER CARO Date 11-7-73
No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date DEC 3 1973

F.B. 2824 PG. 33

F. B. 2824 PG. 34 | 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 8-70

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403 Los Angeles County Engineering Bldg.

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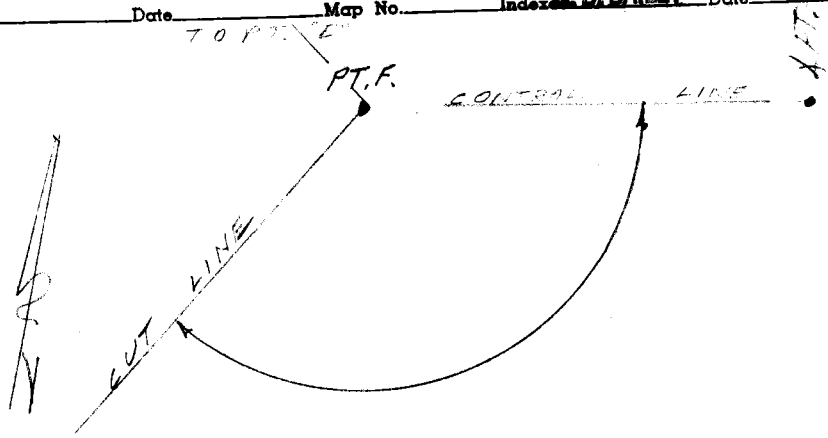
F. B. 2829 Pg. 35

Profile No. _____ Notes Red. _____ Date _____ Plotted _____ Date _____ Job No. [illegible] Division No. 11

Survey of HYDRO SURVEY

X-Sec. No. _____ Notes Chkd. _____ Date _____ Checked _____ Date _____ Survey by RICHARDS Notes R.T. Date 11-7-73

Map No. _____ Indexed R. D. BAILEY Date _____



RANGE = 298+65-S

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

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
PT. F.	∡ PT.	11:10	1	136	30			
			2	135	30			
			3	134	25			
			4	133	15			
			5	131	45			
			6	130	30			
			7	128	59			
			8	127	26			
			9	125	54			
			10	124	42			
			11	122	39			
			12	120	35			
			13	118	14			
			14	116	35			
			15	114	15			
			16	111	59			
			17	109	52			
			18	108	04			
			19	105	50			
			20	103	46			

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 (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.
PT. F.	∡PT		21	101	24			
			22	99	18			
			23	97	27			
			24	95	14			
			25	92	37			
			26	89	39			
			27	87	16			
			28	84	33			
			29	81	20			
			30	78	43			
			31	76	03			
			32	73	21			
			33	70	55			
			34	68	42			
			35	66	00			
			36	63	21			
			37	61	08			
			38	58	41			
			39	56	58			
		11:16	40	55	37			

RANGE 298+65 S.
(CONT)

F. B. 2824 PG. 36
Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile
Survey of HYDRO SURVEY Date Date No.
Survey by RICHARDS Notes Chkd. Checked X-Sec.
Indexed G. D. BAILEY Date DEC 3 1973 Date Date No.

76-L-298 CE 307 8-70

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

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

Do not extend notes this side of this line.

Range Line 300+65 S.

STATION	B. S.	H. I.	F. S.	ELEV. - M.L.L.W.	
		27.28			
300+65 S.			5.33	21.85	New Beach Cont. Lne, F.B. 2316-32
			5.72	21.56	conc. 22' R.
			3.8	23.5	Top rocks 29' R.
			9.9	17.4	" " 45' R.
~~TP~~	0.01	16.63	~~10.62~~	~~6.01~~	Toe rock. 58' R.
			4.7	11.9	86' "
			5.0	11.6	Sand 121.3 "
			10.2	6.4	" 121.3 R.
			8.48	~~8.15~~	Top 4' 1X2
~~TP~~	11.65	~~26.90~~	1.38	~~15.25~~	
TP			4.25	~~22.65~~ 8.15	(ON 41' OFFSET LINE) SIGHT ON 298+65
300+65 S - 1.99		~~6.16~~			T 296+65 & SEE PG. 33 FOR SKETCH.
			1.85	-1.23	#1 40° 31'
			1.57	-0.95	2 37 05
			1.36	-0.74	3 32 42
			0.93	-0.31	4 26 59
			0.75	-0.13	5 23 51
			0.62	-0.00	6 20 31' OUTSIDE PIER
			0.45	0.17	7 16° 45' OUTSIDE EDGE PIER
			0.16	~~AG~~ 6.5	135 FT RT 14 1213R UNDER PIER
			+0.03	6.15	SAND 121.3 RT.

Profile Notes Red _____ Plotted _____ Job No. 03002 Division No. 1
No. _____ Date _____ Date _____ Survey of HYDRO SURVEY
X-Sec. Notes Chk'd. Gus Checked _____ Survey by _____ Notes ARO DREER Date 1/11 7 1973
No. _____ Date 1-15-74 Date _____ Map No. _____ Indexed D. D. HALEY Date DEC 3 1973

F.B. 2824 PG. 37

F. B. 2824 PG. 38

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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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 8-70

76L298 307 Cdb 12-62

PLEASE RETURN TO

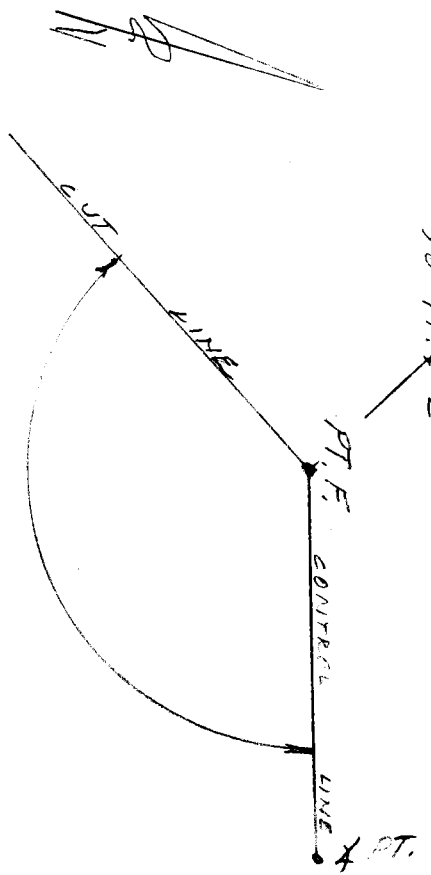
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	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					
PT. F.	∡PT	11:25	1	127	55			
			2	126	16			
			3	124	08			
			4	122	12			
			5	119	59			
			6	117	57			
			7	116	17			
			8	114	26			
			9	112	33			
			10	110	27			
			11	107	52			
			12	105	38			
			13	103	43			
			14	101	29			
			15	99	35			
			16	97	11			
			17	94	37			
			18	92	28			
			19	90	04			
			20	88	03			



RANGE = 300+65 S.

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2828 Pg. 39

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-7-73

No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date DEC 3 1973

F. B. 2824 PG. 40 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

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

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

Indexed G. D. BAILEY Date DEC 3 1973 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.
PT. F.	∡PT.		21	85	04			
			22	83	04			
			23	80	46			
			24	78	37			
			25	76	07			
			26	74	05			
			27	71	35			
			28	69	30			
			29	67	01			
			30	65	09			
			31	63	22			
			32	61	17			
			33	59	54			
			34	58	56			
			35	57	36			
			36	56	22			
		11:32	37	55	10			

300+65 S.
(CONT.)

76-L-298 CE 307 8-70

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

17 00 S

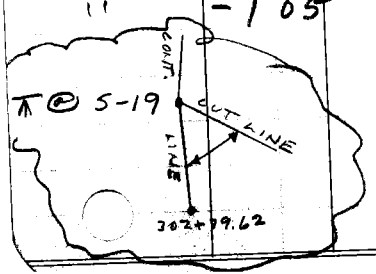
Range Line

STATION	B. S.	H. I.	F. S.	ELEV.	M.L.L.W.	302+~~65~~ 14 S.
T.P.	4 81	27 46		22 65	top pier	
TP	6 62	28 33	5 75	21 71	walk S end pier.	
TP	4 00	25 32	7 01	21 32		
TP	4 90	23 53	6 69	18 63		
S-20			6 10	17 43	S-20 El. 17.40	
S-20	6 60	24 00		17 40	" " " "	
TP	6 67	26 12	4 55	19 45	T.P. 1x2 in sand	
S- 19	1.57	23.53	4.16	21 96	S-19 (New Bt. Spk W&T flush)	
TP	2 93	16 36	10.10	13 43	T.P. 1x2 in sand	
T.P.	2 78	14 78	4 36	12 00		
302+~~65~~ 14 S.			31	11 7	Sand (under pier)	42.6 R.
			33	11 5	" "	77 R.
			82	6 6	" "	108.9 R
"	-1 05	73	65	8 3	Top 4' 1x2 (F.B. 2316-47)	108.9 R.
			27	4 6		M.H.W 124 RT
			52	2 1		145 RT
			70	0 3	#1	
			81	-0 8	2	
			105	-3 2	3	
			132	-5 9	4	
			151	7 8	5	
			172	-9 9	6	

(REC. LINE)
⊼ AT S19 SIGHT 302+79.62 S

24°	55
27	27
30	46
32	58
35	06
37	08

#7 EST. 19 ROD 38° SS EL. ≅11.7



Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 11
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY - REDONDO
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ENGLISH Notes CARO-DREMR Date 11-7-73
No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date DEC 3 1973

F.B. 2824 PG. 41

F. B. 2824 Pg. 42 | Job No. Division No. Notes Red Plotted Profile

Survey of Date Date No.

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

Indexed Date Date Date No.

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

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

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

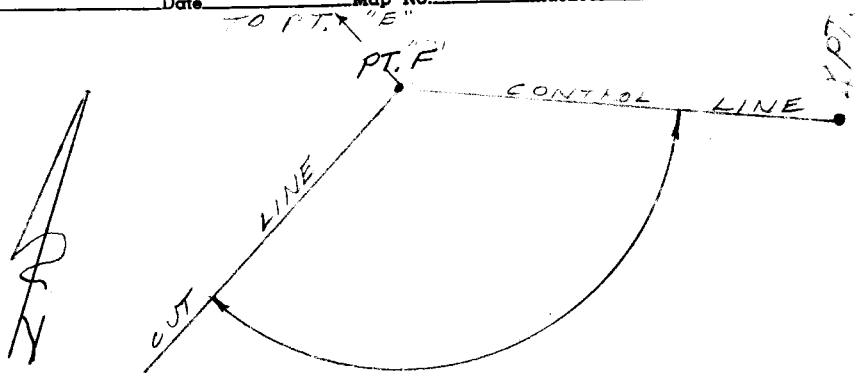
76-L-298 CE 307 8-70

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 0300.02 Division No. 11 F. B. 2829 Pg. 43

Date _____ Date _____ Survey of HYDRO. SURVEY

X-Sec. No. _____ Notes Chkd. _____ Checked _____ Survey by RICHARDS Notes RT. Date 11-7-73

Date _____ Date _____ Map No. _____ Indexed G. D. BAILEY Date DEC 3 1973



RANGE = 302+14 S.

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					
PT. F.	∡ PT.	11:43	1	82	46			
			2	81	14			
			3	79	04			
			4	77	22			
			5	75	31			
			6	73	53			
			7	72	03			
			8	71	14			
			9	69	56			
			10	68	31			
			11	66	55			
			12	65	45			
			13	64	22			
			14	63	15			
			15	62	14			
			16	61	10			
			17	60	30			
			18	59	45			
		11:46	19	58	53			

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					

RANGE 302+14 S. (CONT.)

F. B. 2824 Pg. 44 Job No. 0300.02 Division No. 11 Notes Red. Plotted
Survey of HYDRO SURVEY Date Date No.
Survey by RICHARDS Notes Notes Chkd. Checked X-Sec.
Indexed Date Date No.

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of HYDROGRAPHIC SURVEY
JN 03002 Tape Std °F
Surveyed by RICHARDS
Notes HARRIET Date 11-7-73
Indexed G. D. BAILEY DEC 3 1973

F. B. 2029 PG. 45

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

TIME	TIDE
6:00	5.3
6:30	5.3
7:00	5.3
7:30	4.9
8:00	4.6
8:30	4.2
9:00	3.6
9:30	3.1
10:00	2.4
10:30	1.8
11:00	1.3
11:30	0.7
12:00	0.4
12:30	0.1
1:00	0.0
1:30	0.0
2:00	0.1

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

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

Do not extend this side of this line.

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

16F309S CE#310 3-68

F. B. 2824 PG 46

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.

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76-L-298 CE 307 8-70

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

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

Do not extend notes this side of this line.

Range Line 304+65 S.

STATION	B. S.	H. I.	F. S.	ELEV. ≈ M.L.L.W.	
		14 78			
T.P. 304+65 S.	5 31	17 27	2 82	11 96	
			2 3	15 +0	Beach Conf. Line, F.B. 2316-47
		+	0 8	18 1	Sand - b.b. 22 L.
		+	5 2	22 5	T.b. - Conc. wlk 38 L.
			4 7	12 6	" brk. 36 R.
			5 4	11 9	" " 124 R.
			12 4	4 9	" 171 R.
	3 92	10 52	10 7	6 6	Top 4' 1X2 171 R.
			5 9	4 6	MH.W. 172 R

(π AT S20 SIGHT ON S 19)

98	07	1	20° 13'
10 8	-03	2	22 46
11 8	-13	3	24 48
160	~~-65~~ -5.5	4	27 59
174	-69	5	30 25

Profile Notes Red Plotted Job No. 03002 Division No. 11
No. Date Date Survey of HYDRO SURVEY F.B. 2824 Pg. 47
X-Sec. Notes Chk'd CWH Checked Survey by ENGLISH-DRAPER Notes Date 11-8-72
No. Date 1-18-73 Date Map No. Indexed Date DEC 3 1973

F. B. 2824 PG. 48

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 8-70

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 Los Angeles County Engineering Bldg.

Do not extend notes this side of this line.

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

F. B. 2824 Pg. 49

Profile No. _____ Notes Red. _____ Date _____ Plotted _____ Date _____

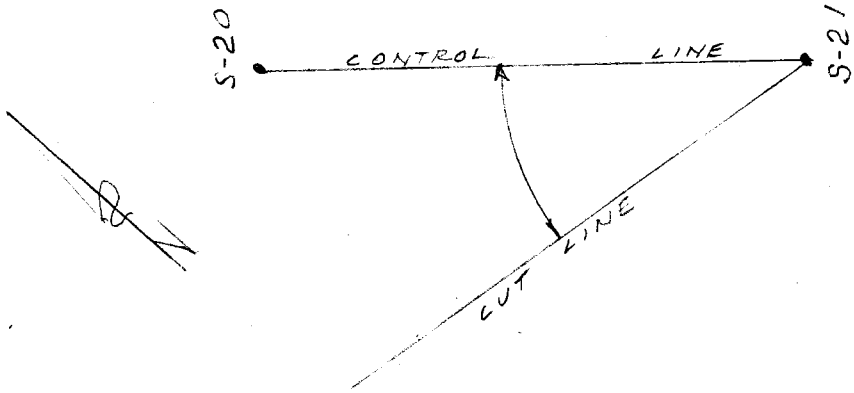
X-Sec. No. _____ Notes Chkd. _____ Date _____ Checked _____ Date _____

Job No. 0300.02 Division No. 11

Survey of HYDRO SURVEY

Survey by RICHARDS Notes R.T. Date 11-8-73

Map No. _____ Indexed D. D. BAILEY Date DEC 3 1973



RANGE = 304+65 S.

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.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
S-21	S-20	7:28	1	321	27	38	33	
			2	323	31	36	29	
			3	325	19	34	41	
			4	326	17	33	43	
			5	328	11	31	49	
			6	329	30	30	30	
			7	330	45	29	15	
			8	332	23	27	37	
			9	333	52	26	08	
			10	335	16	24	44	
			11	336	57	23	03	
			12	338	26	21	34	
			13	339	45	20	15	
		7:31	14	341	09	18	51	

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.

F. B. 2824 Pg. 50

Survey of HYDRO SURVEY

Survey by RICHARDS

Indexed

Job No. 8300.02 Division No. //

Notes

Date

Notes Red.

Date

Notes Chkd.

Date

Plotted

Date

Checked

Date

Profile No.

X-Sec. No.

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

RANGE 304+65 S. (CONT.)

76-L-298 CE 307 8-70

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

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

Do not extend notes this side of this line.

Range Line 306+65 S.

STATION	B. S.	H.I. 17.27	F. S.	ELEV.	M.L.L.W.	
	7 70	22 09	2 88	14 39		
S-19	0 03	22 00	0 12	21 97	Bt. S.W.&T. - flush., F.B. 2316-28.	
306+65 S.			1 04	20 96	Cont. line	pvmt.
			1 15	20 85		edge " 6.5' R.
			7 0	15 0		brk. sand 6.0' R
			10 8	11 2		" " 145.0' R.
			11 2	10 8		" 150.0' R
			9 31	12 69	Top 4' 1X2	150.0' R.
T.P.	0 26	19 96	2 30	19 70		
					⊼ AT S20 SIGHT ON S19	
	-2 25	10 44		12 69		
			17 6	-7 2	#1 33° 58'	
			15 3	-4 9	2 30 57	
			12 7	-2 3	3 28 24	
			11 2	-0 8	4 25 56	
			10 3	0 1	5 23 05	
			9 6	0 8	6 21 31	
			8 0	2 4	7 20 23	
			5 8	4 6		184 RT. MH.W.
			+0 4	10 8		150 RT. SAND

Profile No. ____ Notes Red ____ Plotted ____ Job No. ____ Division No. ____
Date ____ Date ____ Survey of Hydro survey
X-Sec. No. ____ Notes Chk'd LWA Checked ____ Survey by English Notes Cave Date 11-8-73
Date 1-18-74 Date ____ Map No. ____ Indexed G. D. BAILEY Date DEC 3 1973

0300.02

F.B. 2824 PG. 51

F. B. 2824 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.

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 8-70

76L298 307 Cdb 12-62

PLEASE RETURN TO

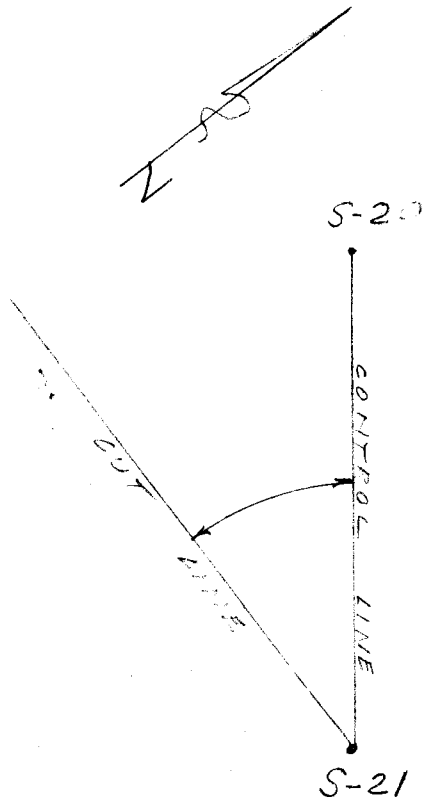
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
S-21	S-20	7:43	1	293	24	66	36	
			2	294	04	65	56	
			3	294	34	65	26	
			4	295	12	64	48	
			5	295	54	64	06	
			6	296	40	63	20	
			7	297	15	62	45	
			8	297	51	62	09	
			9	298	34	61	26	
			10	299	36	60	24	
			11	300	29	59	31	
			12	301	12°	58	48	
			13	302	02	57	58	
			14	303	01	56	59	
			15	304	01	55	59	
			16	305	09	54	51	
			17	306	32	53	28	
			18	307	46	52	14	
			19	309	09	50	51	
			20	310	15	49	45	



RANGE = 306+65 S

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2829 Pg. 53

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes ____ Date 11-8-73

No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date DEC 3 1973

76L298 307 Cdb 12-62

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
S-21	S-20		21	311	21	48	39	
			22	[illegible]	[illegible]	47	31	
			23	313	51	46	09	
			24	315	25	44	35	
			25	317	16	42	44	
			26	318	54	41	06	
			27	320	35	39	25	
			28	322	21	37	39	
			29	324	55	35	05	
			30	326	23	33	37	
			31	328	05	31	55	
			32	330	07	29	53	
			33	332	08	27	52	
			34	333	45	26	15	
			35	335	10	24	50	
			36	336	32	23	28	
			37	338	23	21	37	
			38	339	57	20	03	
		7:51	39	341	42	18	18	

RANGE 306+65 S.
(CONT.)

F. B. 2824 PG. 54
Survey of HYDRO - SURVEY
Survey by RICHARDS
Indexed G. D. BAILEY
Job No. 0300.02 Division No. 11
Notes Red. Plotted
Date Date
Notes Chkd. Checked
Date Date
Notes
Date DEC 3 1973
Profile No.
X-Sec. No.

76-L-298 CE 307 8-70

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

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.		308+65 S.
		19 96					
308+65 S.			0 90	19 06	Con't. Line	pvm't	
			1 04	18 92		edge "	6.0' R.
			5 1	14 9		brk. sand	67.0 R.
			8 7	11 3		" "	130.0 R.
			7 92	10 8		"	136.0 R.
			~~11~~ 08	~~8 86~~ 12 1288		Top 4' 1x2	136.0 R.
T.P.	1 34	19 64	1 66	18 30			
					⊼ S-19	SIGHT ON S 20	
308+65 S	-220	10 6~~6~~8		~~12 86~~ 1288			
			2 1	8 6			149 FT. RT. SAND
			6 1	4 6	#1	31° 11'	M.H.W.
			8 4	2 3	2	33 09	
			9 7	1 0	3	35 50	
			10 7	0 0	4	38 13	
			11 5	-0 8	5	41 49	
			12 5	-1 8	6	44 42	
			16 0	-5 3	7	47 36	
			17 8	-7 1	8	50 17	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Chk'd. CWA Checked ____ Survey by English Notes Sarp Date 1-8-73
No. ____ Date 1-18-74 Date ____ Map No. ____ Indexed B. BAILEY Date DEC 3 1973

F. B. 2824 Pg. 55

F. B. 2824 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.	

76-L-298 CE 307 8-70

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

76L298 307 Cdb 12-62

PLEASE RETURN TO

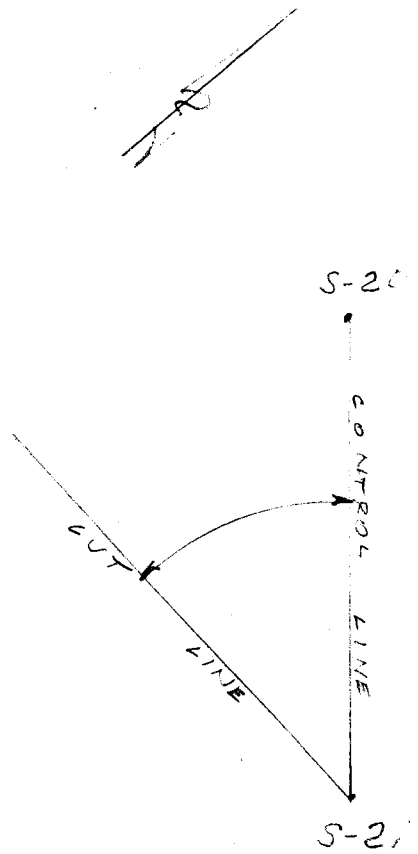
LOS ANGELES COUNTY SURVEYOR

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					
S-21	S-20	8:01	1	291	58	68	02	
			2	292	38	67	22	
			3	293	20	66	40	
			4	294	01	65	59	
			5	294	32	65	28	
			6	295	07	64	53	
			7	295	48	64	12	
			8	296	32	63	28	
			9	297	25	62	35	
			10	298	12	61	48	
			11	298	56	61	04	
			12	299	42	60	18	
			13	300	32	59	28	
			14	301	24	58	36	
			15	302	30	57	30	
			16	303	28	56	32	
			17	304	28	55	32	
			18	305	41	54	19	
			19	307	15	52	45	
			20	308	20	51	40	



RANGE = 308+65 S.

Profile Notes Red. Plotted Job No. 0300.02 Division No. 11 F. B. 2824 Pg. 57

No. Date Date Survey of HYDRO. SURVEY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes P.T. Date 11-8-73

No. Date Date Map No. Index G. D. BAILEY Date DEC 3 1973

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
S-21	S-20		21	309	37	50	23	
			22	311	31	48	29	
			23	313	05	46	55	
			24	314	53	45	07	
			25	316	30	43	30	
			26	318	24	41	36	
			27	320	15	39	45	
			28	321	57	38	03	
			29	325	20	34	40	
			30	325	36	34	24	
			31	327	17	32	43	
			32	329	03	30	57	
			33	330	51	29	09	
			34	333	04	26	56	
			35	334	31	25	29	
			36	336	44	23	16	
			37	338	45	21	15	
			38	340	18	19	42	
		8:08	39	341	20	18	40	

RANGE 308+65 S.
(CONT.)

F. B. 2824 PG. 58
Job No. 0300.02 Division No. 11 Notes Red. Plotted
Survey of HYDRO SURVEY Date Date No.
Survey by RICHARDS Notes R.T. Notes Chkd. Checked X-Sec.
Indexed G. D. BAILEY Date DEC 3 1973 Date Date No.
Profile

76-L-298 CE 307 8-70

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Range Line

M.L.L.W.

310+65S.

STATION	B. S.	H. I.	F. S.	ELEV. =			
		19 64					
310+65S.			1 49	18 15	Cont. line	pvm't	
			1 67	17 97	edge	"	6.0 R.
			46	150	brk	Sand	65.0 R.
			83	11 3	"	"	114.0 R.
			89	10 7		"	120.0 R.
			6 70	1294	Top 4' 1X2		120.0 R.
S-20	1 20	18 60	2 24	17 40	S-20 el = 17.40 F.B. 2100-158		
					↑ AT STA 519 SIGHT S-20		
	-2 19	10 75		1294			
			190	-8 2	#1	36° 30'	
			167	-5 94	2	33 20	
			144	-3 6	3	30 01	
			118	10	4	26 40	
			106	02	5	24 03	
			101	0 7	6	22 04	
			85	~~4 9~~ 2.3	7	19 54	
			62	46			160 FT RT. M.H.W
			00	108			120 " " SAND

Profile Notes Red _____ Plotted _____ Job No. 030002 Division No. _____
No. _____ Date _____ Survey of Hydrosurvey Date DEC 8 1973
X-Sec. Notes Chk'd CWH Checked _____ Survey by Engineering Notes Date DEC 8 1973
No. _____ Date 1-15-74 Date _____ Map No. _____ Index _____ Date _____

F. B. 2824 PG. 57

F. B. 2824 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.

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.

76-L-298 CE 307 8-70

76L298 307 Cdb 12-62

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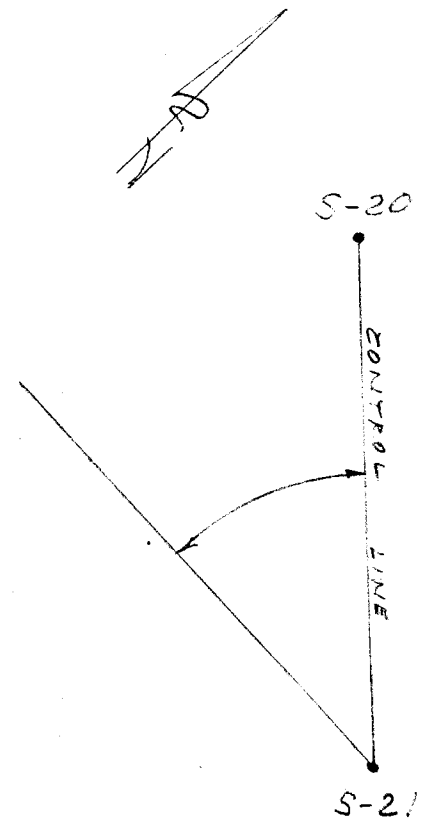
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
S-21	S-20	8:17	1	287	31	72	29	
			2	288	08	71	52	
			3	288	52	71	08	
			4	289	22	70	38	
			5	290	01	69	59	
			6	290	40	69	20	
			7	291	25	68	35	
			8	292	09	67	51	
			9	292	59	67	01	
			10	293	37	66	23	
			11	294	22	65	38	
			12	295	18	64	42	
			13	296	13	63	47	
			14	297	18	62	42	
			15	298	01	61	59	
			16	298	55	61	05	
			17	299	59	60	01	
			18	301	20	58	40	
			19	302	37	57	23	
			20	303	57	56	03	



RANGE = 310+65 S.

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 2305.02 Division No. 11 F. B. 2824 Pg. 61

Date ____ Date ____ Survey of HYDRO. SURVEY

X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes RT. Date 11-8-73

Date ____ Date ____ Map No. ____ Indexed G.D. BAILEY Date DEC 3 1973

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. 2824 Pg. 62 Job No 4300.02 Division No. 11 Notes Red. Plotted Profile
Survey of HYDRO SURVEY Date Date No.
Survey by RICHARDS Notes Notes Chkd. Checked X-Sec.
Indexed G.D. BAILEY Date DEC 3 1973 Date Date No.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
S-21	S-20		21	305	07	54	56	
			22	306	50	53	10	
			23	308	23	51	37	
			24	310	10	49	50	
			25	311	52	48	08	
			26	313	55	46	05	
			27	315	55	44	05	
			28	317	40	42	20	
			29	319	21	40	39	
			30	321	09	38	51	
			31	323	04	36	56	
			32	325	01	34	59	
			33	327	19	32	41	
			34	329	40	30	20	
			35	332	04	27	56	
			36	334	02	25	58	
			37	336	18	23	42	
		8:23	38	337	57	22	03	

RANGE 310765 S.
(CONT)

76-L-298 CE 307 8-70

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M.L.L.W.	312+65S.
		18 60				
312+65S.			1 39	17 21	Cont. line	pvmt
			1 42	17 18	edge	" 8.0 R.
			47	139	brk.	sand 57.0 R.
			70	11 6	"	" 97.0 R.
			78	108		" 105.0 R
			565	12 95	Top 4'	1x2 105.0 R
T.P.	1 68	18 75	1 53	17 07		
					⊼ AT S 21	SIGHT S 20
312+65S	-230	1065		1295		
			20	86		120 FT RT. SAND
			60	46		148 FT
			87	19	H 1 18° 00'	
			99	07	2 19 33	
			106	00	3 21 48	
			116	-10	4 24 27	
			125	-19	5 26 18	
			150	-44	6 28 58	
			173	-67	7 31 08	
			181	-75	8 33 24	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Chk'd. CWA Checked ____ Survey by English Notes Calcu Date ____ 8-
No. ____ Date 1-13-74 Date ____ Map No. ____ Indexed R. BAILEY Date DEC 3 1974

F.B. 2824 PG. 63

F. B. 2824 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.	

76-L-298 CE 307 8-70

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 Cdb 12-62

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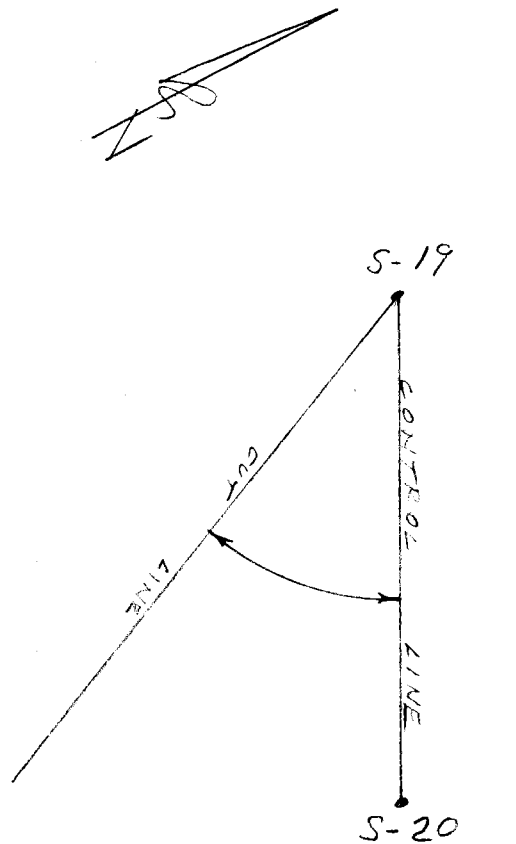
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
S-19	S-20	8:45	1	69	36			
			2	69	12			
			3	68	41			
			4	68	08			
			5	67	35			
			6	66	54			
			7	65	59			
			8	65	24			
			9	64	47			
			10	63	54			
			11	63	02			
			12	62	22			
			13	61	27			
			14	60	27			
			15	59	26			
			16	58	16			
			17	57	24			
			18	56	13			
			19	55	05			
			20	54	01			



RANGE = 312+65 S.

Profile Notes Red. Plotted Job No. Division No.

No. Date Date Survey of Notes Date

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

No. Date Date Map No. Index D. BAILEY Date DEC 3 1973

F. B. 2564 Pg. 65

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
S-19	S-20		21	51	36			
			22	50	18			
			23	48	39			
			24	46	50			
			25	44	59			
			26	43	27			
			27	41	32			
			28	39	41			
			29	37	11			
			30	36	07			
			31	33	40			
			32	31	40			
			33	29	14			
			34	27	32			
			35	25	44			
			36	23	45			
			37	22	08			
		8:51	38	21	08			

RANGE 312+65 S1
(CONT)

F. B. 2824 PG. 66
Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile
Survey of HYDRO. SURVEY Date Date No.
Survey by RICHARDS Notes R.T. Notes Chkd. Checked X-Sec.
Indexed G. D. BAILEY Date DEC 3 1973 Date Date No.

76-L-298 CE 307 8-70

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	3147655.	
		1875					
3147655.			126	1749	Cont Line	pvmt	
			150	1725	edge	"	10.3
			56	1327	brk	Sand	67.0
			76	1127	"	"	104.0
			83	1057		"	109.0
		6					
	-1 72	1058	645	1230	Top	4' 1X2	109.0
			185	-794	AT S21 SIGHT S 20 1 49° 12'		
			163	-571	2 45 59		
			150	-443	3 42 07		
			128	-224	4 39 27		
			116	-1045	5 36 36		
			104	026	6 33 55		
			96	1047	7 30 26		
			84	228	8 27 59		
			46	~~104~~	0.2	149 FT RT M.H.W.	
			02	104		109 SAND	

Profile Notes Red Plotted Job No. Division No.
No. Date Date Survey of
X-Sec. Notes Chk'd CWA Checked Survey by Notes Date 1-8-75
No. Date 1-18-74 Date Map No. Indexed D. HALLEY Date DEC 3 1975

F.B. 2824 PG. 67

F. B. 2824 Pg. 68

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 8-70

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LOS ANGELES 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.

76L298 307 Cdb 12-62

PLEASE RETURN TO

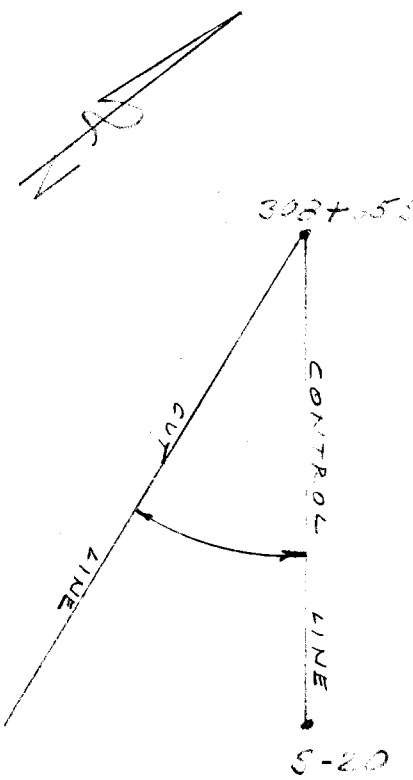
LOS ANGELES COUNTY SURVEYOR

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					
308+65S	S-20	9:03	1	71	59			
			2	71	40			
			3	71	12			
			4	70	44			
			5	70	05			
			6	69	34			
			7	68	44			
			8	67	54			
			9	67	14			
			10	66	34			
			11	65	40			
			12	64	30			
			13	63	35			
			14	62	18			
			15	61	02			
			16	60	03			
			17	58	25			
			18	57	13			
			19	55	50			
			20	53	59			



RANGE = 314+65 S.

Profile Notes Red. Plotted Job No. 03000.02 Division No. 11 F. B. 2824 Pg. 69

No. Date Date Survey of HYDRO - SURVEY

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

No. Date Date Map No. Indexed S. D. BAILEY Date DEC 3 1973

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					
308+65S	S-20		21	52	21			
			22	50	15			
			23	47	30			
			24	45	20			
			25	43	28			
			26	41	12			
			27	39	19			
			28	37	08			
			29	35	03			
			30	32	52			
			31	30	24			
			32	27	10			
			33	25	06			
		9:08	34	23	04			

RANGE 314+65 S, CONT.

F. B. 2824 PG. 70
Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile
Survey of HYDRO. SURVEY Date Date No.
Survey by RICHARDS Notes R.T. Notes Chkd. Checked X-Sec.
Indexed G. D. BAILEY Date DEC 3 1973 Date Date No.

76-L-298 CE 307 8-70

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Rang Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. M.		315+10S.
		18 75					
315+10S.			112	1763	Cont Line		pvmt
			120	1755		edge	" 10.0 R.
			54	134		brk	sand 59.0 R.
			73	115		"	" 91.0 R.
			89	99			" 103.5 R.
	-160	1016	699	1176		Top 4' 1x2	103.5 R.
					⊼ AT 521	SIGHT ON	520
			56	46			MHW 104 FT R.
			79	23	#1	30° 38'	
			92	10	2	33 55	
			100	02	3	36 39	
			108	-06	4	39 47	
			118	-16	5	42 55	
			145	-43	6	46 00	
			160	-58	7	48 51	
			171	-69	8	51 [illegible]	
			187	-85	9	54 16	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Chk'd. CWA Checked ____ Survey by Lipman Notes Carr Date 1-8-73
No. ____ Date 1-18-74 Date ____ Map No. ____ Indexed D. BAILEY Date DEC 3 1973

F. B. 2824 PG. 71

F. B. 2824 PG. 72 | 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 8-70

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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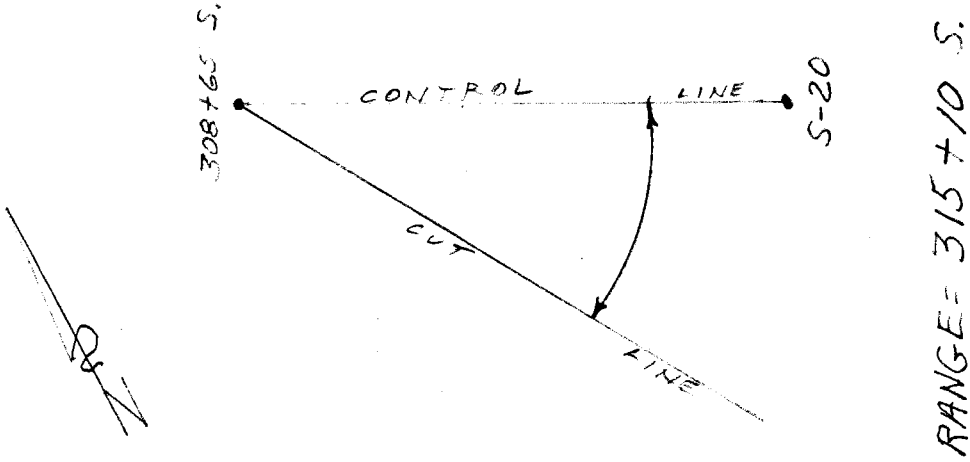
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Profile No. _____ Notes Red. _____ Date _____ Plotted _____ Date _____ Job No. 0300.62 Division No. 11 F. B. 2829 Pg. 73

X-Sec. No. _____ Notes Chkd. _____ Date _____ Checked _____ Date _____ Survey of HYDRO. SURVEY Survey by RICHARDS Notes RT Date 11-8-73 Map No. _____ Indexed G. D. BAILEY Date DEC 3 1973



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					
308+65 S.	S-20	9:17	1	49	54			
			2	49	08			
			3	47	01			
			4	45	43			
			5	44	27			
			6	42	44			
			7	41	17			
			8	39	36			
			9	37	44			
			10	35	50			
			11	33	25			
			12	31	11			
			13	29	18			
			14	27	08			
			15	25	07			
		9:20	16	23	18			

76L298 307 Cdb 12-62

76L298 307 Cdb 12-62

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726 Los Angeles County Engineering Bldg.

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F. B. 2824 Pg. 74 Job No 2300.02 Division No. 11 Notes Red. Plotted No.

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

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

Indexed Date Date Date

Inst. At	Sight On	Time	Angle No	Hor. Angle		For Office Use Only		
				Deg.	Min.	Range Line		Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch			Deg.	Min.	
308+65 S.	S-20							

76-L-298 CE 307 8-70

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403 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M.L.L.W.	315+40S.
		18 75				
315+40S.			099	17 76	Cont Line	pvmt
			109	17 66	edge	" 9.5 R.
			51	13 74	brk	Sand 56.0 R.
			80	10 84	"	" 97.0 R.
			91	9 74		" 106.0 R.
	-120	10 19	736	11 39	Top	4' 1x2 106.0 R.
					℄ AT S 21	SIGHT ON S 20
			190	-8 84	1 54° 50	
			174	-7 22	2 52 38	
			160	-5 83	3 49 42	
			138	-3 64	4 45 51	
			115	-1 35	5 42 03	
			105	-0 36	6 38 62	
			94	0 84	7 35 15	
			76	2 68	8 32 13	
			56	4 6		143 FT RT OF N.W.

Profile Notes Red Plotted Job No. 220002 Division No.
No. Date Date Survey of Hydro Soil Vey
X-Sec. Notes Chk'd. CWH Checked Survey by English Notes Care Date 11-8-73
No. Date 1-18-74 Date Map No. Indexed by Date DEC 9 1974

F. B. 2824 PG. 75

F. B. 2824 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. _____

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

76-L-298 CE 307 8-70

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76L298 307 Cdb 12-62

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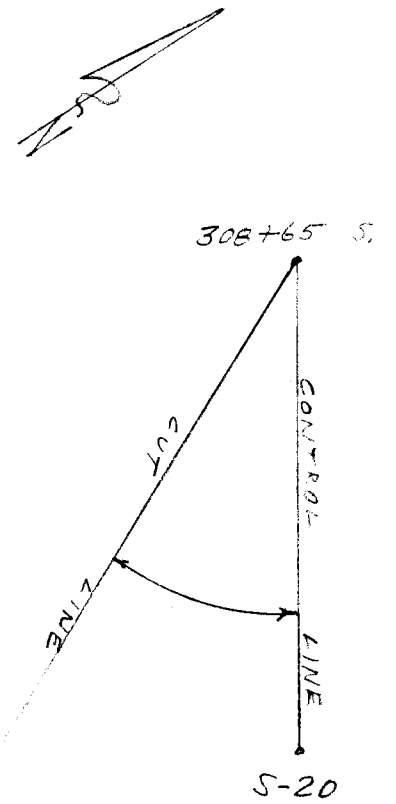
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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					
308+65 S.	S-20	9:32	1	54	13			
			2	51	55			
			3	49	52			
			4	48	11			
			5	45	46			
			6	44	10			
			7	42	17			
			8	40	24			
			9	38	41			
			10	36	55			
			11	35	17			
			12	33	27			
			13	31	20			
			14	28	34			
			15	27	07			
			16	25	09			
		9:34	17	23	15			



RANGE = 315+40 S.

Profile Notes Red. Plotted Job No. 0300.02 Division No. 11 F. B. 2824 Pg. 77

No. Date Date Survey of HYDRO. SURVEY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes P.T. Date 11-8-73

No. Date Date Map No. Indexed C. C. BAILEY Date DEC 3 1973

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					

F. B. 2824 Pg. 78 | Job No 6330.02 Division No. 11 Notes Red. Plotted

Survey of HYDRO SURVEY Date Date No.

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

Indexed Date Date No.

Profile

76-L-298 CE 307 8-70

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M.L.L.W	316+00S.
		18 75				
316+00S.			081	1794	Con't Line	pvmt
			082	1793	edge	" 8.5 R.
			43	145	brk	Sand 54.0 R.
			78	110	"	" 99.0 R.
			86	102		" 105.0 R.
			675	1200	Top	4' 1x2 105.0 R.
T.P.	241	2045	071	1804		
					T 5.20	SIGHT ON S 21
	222	978		1200		
			52	46		137 Ft. Rt. M.H.W.
			82	161	21° 35'	
			92	062	24 50	
			104	-063	27 09	
			116	-284	29 51	
			140	-425	32 44	
			156	-586	35 16	
			172	-747	37 16	
			184	-868	39 12	

Profile Notes Rec'd Plotted Job No. 030002 Division No.
No. Date Date Survey of Hydro Survey
X-Sec. Notes Chk'd CWH Checked Survey by English Notes Care Date DEC 3 1973
No. Date 1-12-74 Date Map No. Indexed D BAILEY Date DEC 3 1973

F. B. 2824 PG. 79

F. B. 2824 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.

76-L-298 CE 307 8-70

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L298 307 Cdb 12-62

PLEASE RETURN TO

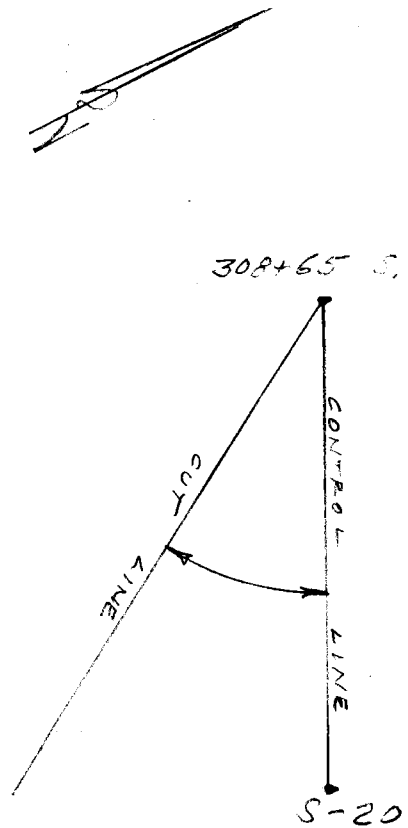
LOS ANGELES COUNTY SURVEYOR

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 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					
308+65 S.	S-20	9:45	1	50	01			
			2	48	39			
			3	46	45			
			4	45	25			
			5	43	57			
			6	42	19			
			7	40	30			
			8	38	58			
			9	37	16			
			10	35	21			
			11	33	25			
			12	30	58			
			13	28	40			
			14	26	23			
			15	24	37			
		9:47	16	22	46			



RANGE = 316+00 S.

Profile Notes Red. Plotted Job No. 0300.02 Division No. 11 F. B. 2824 Pg. 81

No. Date Date Survey of HYDRO SURVEY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes P.T. Date 11-8-73

No. Date Date Map No. Indexed G. D. BAILEY Date DEC 3 1973

F. B. 2824 PG. 82 | Job No. 0300.02 Division No. 11 | Notes Red. | Plotted | Profile

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

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

Indexed | Date | Date | Date | No.

76L298 307 Gdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

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

76-L-298 CE 307 8-70

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	317+00S.
		20 45				
317+00S.			2 02	18 43	Con't. Line	pvm't
			2 33	18 12	edge	" 7.5 R.
			57	14 8	brk.	Sand 56.0 R
			97	10 8	"	" 97.0 R.
			110	9 5		" 107.0 R
			8 92	11 53	Top	4' 1x2 107.0 R
T.P.	2 12	21 16	1 41	19 04		
					⊼ AT S20 SIGHT S 21	
	-1 63	9 90		11 53		
			19 0	-9 1	#1 33° 36'	EST. OVER ROD 1 FT.
			17 5	-7 6	2 32 13	
			15 3	-5 4	3 29 46	
			13 3	-3 4	4 27 01	
			11 4	-1 5	5 24 43	
			10 0	-0 1	6 22 36	
			9 5	0 ~~6~~ 4	7 20 27	
			8 8	1 1	8 18 27	
			5 3	4 6		143 FT. RT. MHW.
			1 4	8 5		115 " " SAND

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Chk'd. CWA Checked ____ Survey by English Notes Carc Date 11-8-73
No. ____ Date 1-18-74 Date ____ Map No. ____ Index No. ____ Date DEC 3 1973

F. B. 2824 Pg. 83

F. B. 2824 Pg. 84 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 8-70

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

76L298 307 Cdb 12-62

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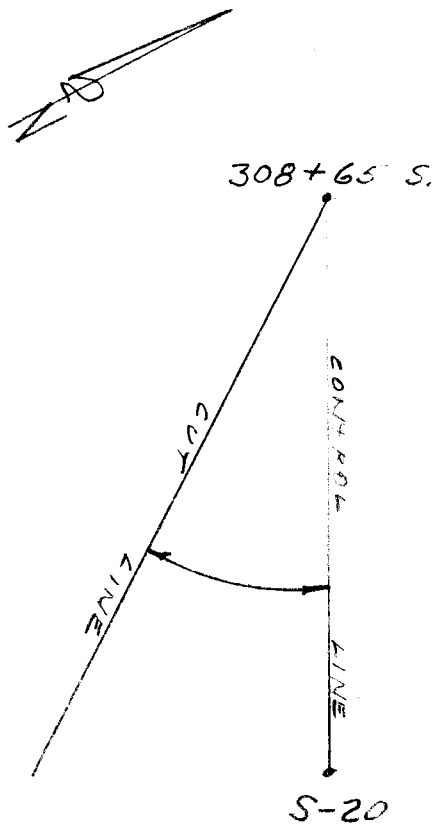
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
308+65 S.	S-20	9:56	1	47	40			
			2	43	04			
			3	41	16			
			4	40	06			
			5	38	30			
			6	37	03			
			7	35	40			
			8	34	11			
			9	32	32			
			10	30	43			
			11	28	51			
			12	27	17			
			13	25	33			
			14	23	10			
			15	21	56			
		9:58	16	20	20			



RANGE = 317+00 S.

Profile Notes Red. Plotted Job No. 2300.02 Division No.
No. Date Date Survey of HYDRO SURVEY
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes PT. Date 11-8-73
No. Date Date Map No. Indexed by BAILEY Date DEC 3 1973

F. B. 2854 Pg. 85

F. B. 2824 PG. 84 | Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO SURVEY Date Date No.

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

Indexed Date Date Date No.

761.298 307 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.

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

Do not extend notes this side of this line.

76-L-298 CE 307 8-70

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M.L.L.W.			319+005.
		21 16						
319+005			191	1925	Con't. Line			pvmt
			201	1915		edge	"	7.9 R.
			61	151		brk.	Sand	69.0 R.
			103	~~12.9~~		"	"	107.0 R.
			118	~~13.4~~			"	117.0 R.
			964	1152		Top	4' 1x2	117.0 R.
T.P.	1 14	20 69	161	1955				
					TT AT S22	SIGHT ON S21		
319+005	-170	982		1152				
			52	46				151 FT. RT. M.L.L.W.
			79	19-#1	24°	08'		
			91	07-2	27	07		
			98	00-3	30	05		
			107	-09-4	33	04		
			133	-35-5	37	03		
			149	-51-6	40	38		
			165	-67-7	43	27		
			179	-81-8	46	41		

Profile Notes Red ____ Plotted ____ Job No. 03 00.02 Division No. ____
No. ____ Date ____ Date ____ Survey of Hydro survey
X-Sec. ____ Notes Chk'd CWH Checked ____ Survey by Esquivel Notes Date 11-8-73
No. ____ Date 1-18-74 Date ____ Map No. ____ Indexed W. D. BAILEY Date DEC 2 1974

F. B. 2824 PG. 87

F. B. 2824 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.

76-L-298 CE 307 8-70

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76L298 307 Cdb 12-62

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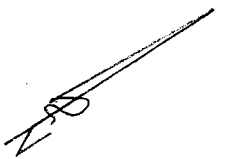
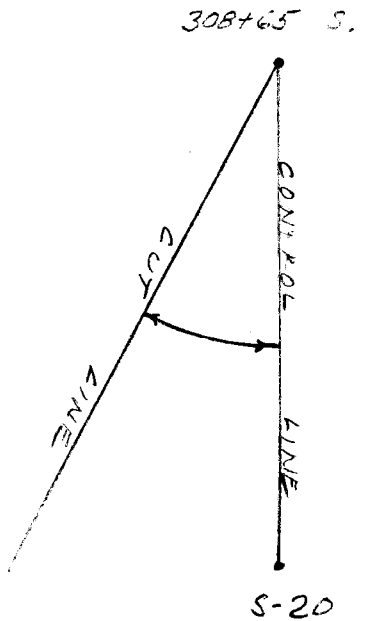
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
308+65 S.	S-20	10:07	1	36	59			
			2	36	38			
			3	34	48			
			4	33	36			
			5	32	04			
			6	30	32			
			7	28	59			
			8	27	30			
			9	25	33			
			10	24	04			
			11	22	28			
			12	21	04			
		10:09	13	19	39			





RANGE = 319+00 S.

Profile Notes Red. Plotted Job No 340.02 Division No. 4
No. Date Date Survey of HYDRO SURVEY
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes RT Date 11-8-73
No. Date Date Map No. Indexed By Date DEC 3 1973

F. B. 5324 PG. 89

F. B. 2824 Pg. 90 | Job No 0300.02 Division No. 11 | Notes Red. | Plotted | Profile

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

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

Indexed | Date | Date | Date | No.

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

Do not extend notes this side of this line.

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 Los Angeles County Engineering Bldg.

761.298 307 Cdb 12-62

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

76-L-298 CE 307 8-70

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Range Line 320+50S.

STATION	B. S.	H. I.	F. S.	ELEV. = M. L. L. W.			
		20 69					
320+50S.			092	1977 Cont. Line		pvmt	
			105	1964	edge	"	9.0 R.
			59	148	brk.	sand	59.0 R.
			98	109	"	"	97.0 R.
			115	92		"	120.0 R.
	-240	9 19	910	1159	Top	4' 1x2	120.0 R
					↑ AT S 22	SIGHT ON S 21	
				-8.2			
			174	-7.2 1	62° 01		
			157	-6.5 2	59 22		
			145	-5.3 3	56 04		
			130	-3.8 4	51.42		
			108	-1.6 5	47 55		
			94	-0.2 6	44 07		
			88	0.4 7	39 38		
			74	1.8 8	35 16		
			46	46		155 FT. RT. OF H.W.	

Profile Notes Red _____ Plotted _____ Job No. _____ Division No. _____
No. _____ Date _____ Date _____ Survey of Hydro SURVEY
X-Sec. _____ Notes Chk'd CWA Checked _____ Survey by English Notes Cara Date 4-8-73
No. _____ Date 1-16-74 Date _____ Map No. _____ Index D. BAILEY Date DEC 3 1973

F. B. 2824 PG. 71

F. B. 2824 Pg. 92

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.

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
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76-L-298 CE 307 8-70

9 x 8

76L298 307 Cdb 12-62

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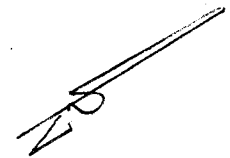
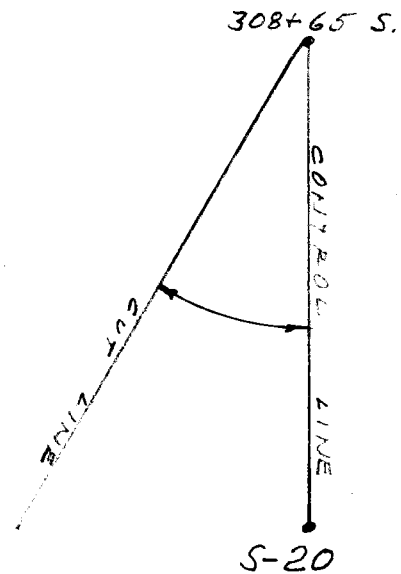
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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					
308+65 S.	S-20	10:20	1	39	33			
			2	38	37			
			3	37	28			
			4	35	56			
			5	35	04			
			6	33	51			
			7	32	58			
			8	31	34			
			9	30	06			
			10	28	28			
			11	27	04			
			12	25	06			
			13	23	46			
			14	22	34			
			15	21	29			
			16	20	25			
		10:22	17	19	09			





RANGE = 320+50 S.

Profile No.____ Notes Red.____ Plotted____ Job No. 0300.02 Division No. 11 F. B. 2824 Pg. 93
X-Sec. No.____ Date____ Date____ Survey of HYDRO SURVEY
Notes Chkd.____ Checked____ Survey by RICHARDS Notes R.T. Date 11-8-73
Date____ Date____ Map No.____ Index [illegible] Date____

F. B. 2824 PG. 94 Job No. 0300.02 Division No. 11 Notes Red. ______ Plotted ______ Profile No. ______

Survey of HYDRO. SURVEY ______ Date ______ Date ______

Survey by RICHARDS Notes R.T. Notes Chkd. ______ Checked ______ X-Sec. No. ______

Indexed ______ Date ______ Date ______ 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 (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.

76-L-298 CE 307 8-70

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Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. = M.L.L.W.		322+00 S.	
		20 69					
322+00 S.			020	2049	Cont. Line	prmt.	
			042	2027	edge	" 9.9	R.
			69	138	brk.	sand 48.0	R.
			94	113	"	" 94.0	R.
			112	95		" 107.0	R.
			904	1165	Top	4' 1x2 107.0	R.
T.P.	578	26 06	041	2028			
S-22			544	2062	S-22 el = 20.61	FB. 2100-157	
					T AT S 21 SIGHT ON S 22		
		90					
	-268	897		1165			
			42	48		135 FT RT.	
			44	46		138 FT. RT. M.H.W	
			79	1141	22° 17'		
			89	012	25 28		
			98	-083	27 45		
			118	-284	30 00		
			129	-395	32 02		
			144	-546	34 22		
			154	-647	36 08		
			165	-758	38 03		
			174	-849	39° 29'		

Profile Notes Red Plotted Job No. 03 00.02 Division No.
No. Date Date Survey of Hydrosurvey
X-Sec. Notes Chk'd CWH Checked Survey by English Notes Carlo Date 11-8-73
No. Date 1-18-74 Date Map No. Indexed D. BAILEY Date DEC 3 1973

F. B. 2824 PG. 95

F. B. 2824 Pg. 96 | 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 8-70

76L298 307 Cdb 12-62

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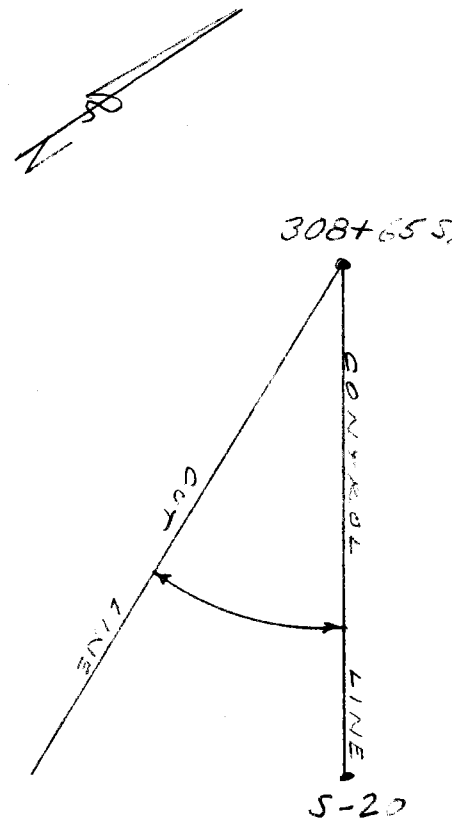
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	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					
308+65 S.	S-20	10:30	1	40	25			
			2	39	24			
			3	38	06			
			4	37	01			
			5	36	04			
			6	35	07			
			7	33	57			
			8	32	55			
			9	31	49			
			10	30	33			
			11	29	12			
			12	28	00			
			13	26	53			
			14	25	30			
			15	24	07			
			16	22	47			
			17	21	32			
			18	20	35			
			19	19	30			
			20	18	12			



RANGE = 322+00 S.

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 11 F. B. 2824 Pg. 97

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

Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes M.T. Date 11-8-73

Date ____ Date ____ Map No. ____ Index D. BAILEY Date DEC 3 1973

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. 2824 Pg. 98 Profile

Survey of HYDRO. SURVEY Job No. 030.02 Division No. 11 Notes Red. Plotted

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

Indexed B. D. BAILEY Date DEC 3 1962 Date Date

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
308+65 S.	S-20	10:33	21	17	10			

RANGE 322+00 S (CONT)

76-L-298 CE 307 8-70

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M.L.L.W.	323+00S.
S-22	070	2131		2061	S-22 el=20.61	F.B. 2100-157
323+00S.			048	2083	Con't. Line	pvmt.
			073	2058	edge	" 45 R.
			76	137	brk.	sand 46.0 R.
			104	109	"	" 95.0 R.
		6	135	78		" 114.0 R.
	-152	857	1122	1009	Top	4' 1x2 114.0 R.
		"			⊼ S 21 SIGHT	ON S 22
			159	-73	#1 33° 33'	
			168	-82	2 35 BIGGER 27'	
			155	-69	3 33 05	
			138	-52	4 30 16	
			127	-41	5 27 46	
			108	-22	6 25 35	
			93	-07	7 23 29	
			84	02	8 21 05	
			75	11	9 19 03	
			40	46		134 FT RT MHW

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____
Date ____ Date ____ Survey of Hydro Survey
X-Sec. No. ____ Notes Chk'd. CWA Checked ____ Survey by English Notes Date 11-8-73
Date 1-18-74 Date ____ Map No. ____ Indexed D. BAILEY Date DEC 3 1973

F.B. 2824 PG. 99

F. B. 2824 Pg. 100 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.

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

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LOS ANGELES COUNTY ENGINEER

403 Los Angeles County Engineering Bldg.

76-L-298 CE 307 8-70

76L298 307 Cdb 12-62

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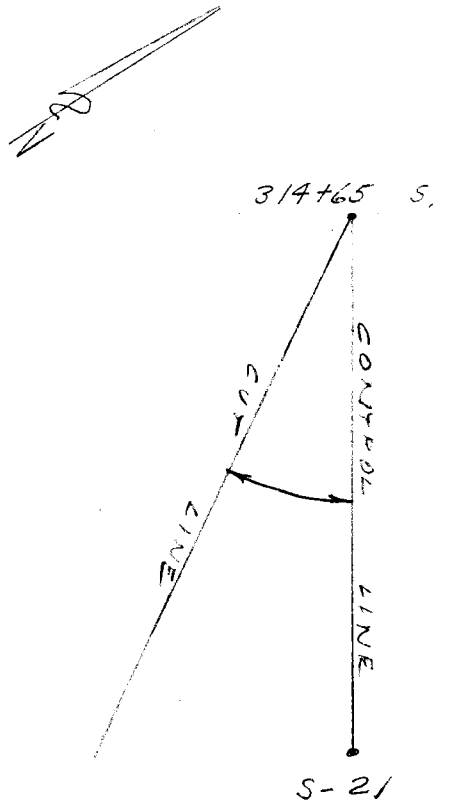
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
314+65 S.	S-21	10:52	1	53	20			
			2	52	07			
			3	50	39			
			4	49	17			
			5	48	01			
			6	46	49			
			7	45	16			
			8	43	54			
			9	41	55			
			10	40	08			
			11	38	17			
			12	37	03			
			13	35	48			
			14	33	39			
			15	31	59			
			16	30	20			
			17	28	32			
			18	26	47			
			19	25	25			
		10:55	20	23	45			



RANGE = 323+00 S.

Profile Notes Red. ____ Plotted ____ Job No. 0303-02 Division No. 11 F. B. 2824 Pg. 101

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-8-73

No. ____ Date ____ Date ____ Map No. ____ Index [illegible] Date DEC 3 1973

F. B. 2824 Pg. 102 | Job No. 0300.02 Division No. 11 | Notes Red. | Plotted | Profile

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

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

Indexed | Date | Date | Date | No.

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.	

Do not extend notes this side of this line.

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761.298 307 Cdb 12-62

76-L-298 CE 307 8-70

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.		324+00 S.
		21 31					
324+00 S.			0 06	21 25	Con't. Line		pvmt.
			0 23	21 08		edge	" 4.0 R.
			81	13 2		brk.	Sand. 67.0 R.
			108	10 5		"	" 110.0 R.
			157	5 6			" 139.0 R.
			13 46	7 85		Top	4' 1x2 139.0 R.
T.P.	2 26	21 98	1 59	19 72			
					⊼ AT 330+00		SIGHT S22
	-0 45	7 40		7 85			
			28	4 6			149 FT. RT. M.H.W.
			40	3 4			163 " " SAND
			60	14	#1	17° 46'	
			68	06	2	19 12	
			73	01	3	20 54	
			84	-10	4	23 06	
			98	-24	5	24 51	
			113	-39	6	26 33	
			123	-49	7	28 47	
			135	-51	8	31 05	
			144	-70	9	33 18	
			158	-84	10	35 36	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chk'd CWA Checked ____ Survey by English Notes Carp Date 11-8-73
No. ____ Date 1-18-74 Date ____ Map No. ____ Indexed B. BAILEY Date DEC 3 1973

F.B. 2824 PG. 103

F. B. 2824 PG. 109 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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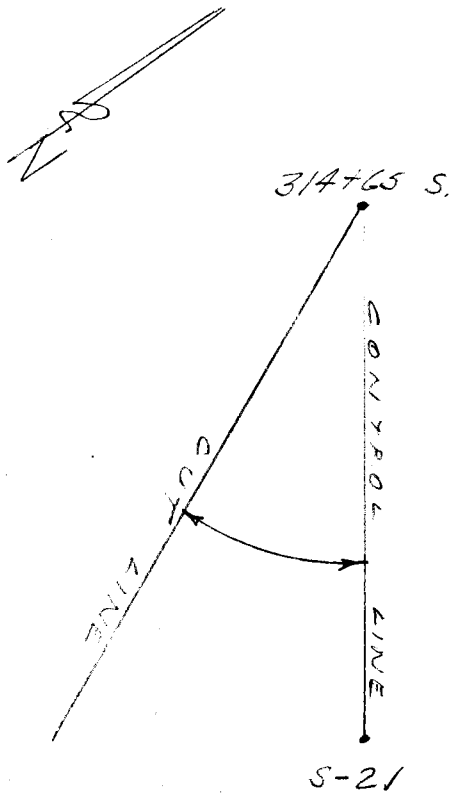
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend 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					
314+65 S.	S-21	11:04	1	51	49			
			2	50	44			
			3	49	27			
			4	48	26			
			5	47	30			
			6	46	04			
			7	45	07			
			8	44	03			
			9	42	45			
			10	41	30			
			11	39	45			
			12	38	07			
			13	36	30			
			14	34	51			
			15	32	56			
			16	31	11			
			17	29	02			
			18	27	36			
			19	25	56			
			20	24	33			



RANGE = 324+00 S.

Profile Notes Red. ____ Plotted ____ Job No. 2300.[illegible] Division No. 11 F. B. 2824 Pg. 105

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes P.T. Date 11-8-73

No. ____ Date ____ Date ____ Map No. ____ Indexed [illegible] Date DEC 3 1973

76L298 307 Cdb 12-62

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

Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
314+65 S	S-21	11:07	21	23	19			

RANGE 324+00 S (CONT)

F. B. 2824 Pg. 106

Survey of HYDRO SURVEY

Survey by RICHARDS

Indexed by BAILEY

Notes R.T.

Date DEC 3 1973

Job No. 8300.02 Division No. 11

Notes Red. Date Plotted Date

Notes Chkd. Date Checked Date

Profile No. X-Sec. No.

76-L-298 CE 307 8-70

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M.L.L.W.	325+50 S.
		21 98				
325+50S.			024	21 74	Cont. Line	prmt.
			033	21 65	edge	" 5.9 R.
			84	136	brk	Sand 57.0 R.
			117	103	"	" 132.0 R.
			165	55		" 163.0 R.
			1430	768	Top	4' 1x2 163.0 R
J.P.	064	22 51	011	2187		
					T AT 330+00	SIGHT ON S 22
	-061	707		768		
			156	-85 #1	45° 32'	
			140	-69 2	42 28	
			126	-55 3	39 55	
			115	-44 4	37 27	
			100	-29 5	35 05	
			83	-12 6	32 55	
			75	-04 7	30 43	
			65	06 8	27 43	
			50	21		205 FT RT,
			35	346		173 FT. RT. M.H.W.

Profile Notes Red Plotted Job No. Division No.
No. Date Date Survey of
X-Sec. Notes Clk'd Checked Survey by Notes
No. Date Date Map No. Indexed Date DEC 3 1973

F. B. 2824 PG. 107

F. B. 2824 PG. 108 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 8-70

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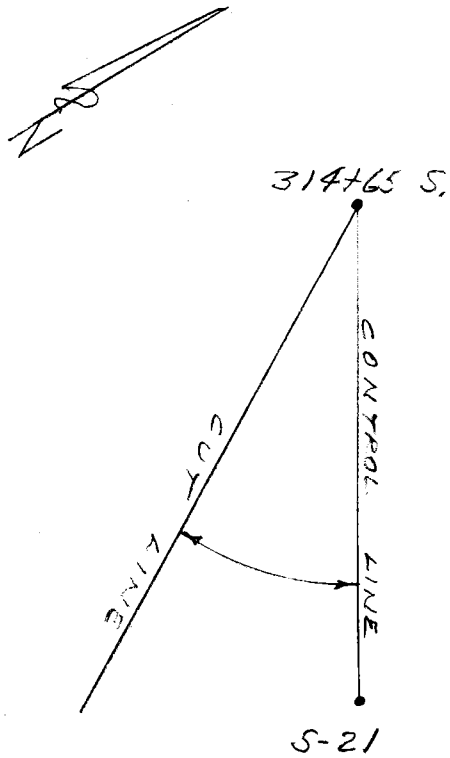
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

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					
314+65 S.	S-21	11:18	1	57	55			
			2	57	17			
			3	56	46			
			4	56	11			
			5					
			6	53	54			
			7	52	47			
			8	51	42			
			9	50	40			
			10	49	17			
			11	48	08			
			12	46	20			
			13	45	02			
			14	43	12			
			15	41	45			
			16	40	11			
			17	38	30			
			18	36	47			
			19	35	02			
			20	33	34			



RANGE = 325+50 S.

Profile Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 11 F. B. 2824 Pg. 109

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-8-73

No. ____ Date ____ Date ____ Map No. ____ Indexed D. BAILEY Date DEC 3 1973

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Do not extend notes this side of this line.

F. B. 2829 Pg. 110 Profile

Survey of HYDRO. SURVEY Job No. 0360.02 Division No. 11 Notes Red. Date Plotted No.

Survey by RICHARDS Notes A.T. Notes Chkd. Date Checked No.

Indexed G.D. BAILEY Date DEC 3 1973 Date Date X-Sec.

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					
31+65 S.	S-21		21	31	59			
			22	30	36			
			23	28	46			
			24	27	10			
			25	25	46			
			26	24	32			
			27	23	14			
			28	21	56			
		11:23	29	20	55			

RANGE 325+50 S. CONT.

76-L-298 CE 307 8-70

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.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.			327+00 S.	
		22 51							
327+00 S.			011	22 40	Con't. Line			pvm't.	
			016	22 35			edge	"	7.9 R.
			89	13 6			brk.	sand	67.0 R.
			120	10 5			"	"	149.0 R.
			180	4 5				"	190.0 R.
			1584	6 67			Top	4' 1x2	190.0 R.
T.P.	005	21 92	064	21 87					
					⊼ AT S 22		SIGHT	S 23	
	007	6 74		6 67					
			21	4 6				188 FT. RT M.H.W.	
			42	25				215	
			56	1 1				244	
			68	-0 1	#1	36°	08'		
			81	-1 4	2	40	40		
			91	-2 4	3	41	52		
			102	-3 5	4	43	18		
			120	-5 3	5	45	29		
			124	-5 7	6	47	31		
			133	-6 6	7	49	37		
			142	-7 5	8	51	32		
			151	-8 4	9	53	13		
			160	-9 3	10	54	16		

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Chk'd. CWH Checked ____ Survey by Engineer Notes [illegible] Date 8-
No. ____ Date 1-13-74 Date ____ Map No. ____ Indexed G.D. RAILEY Date DEC 9 19[illegible]

F. B. 2824 Pg. 111

F. B. 2824 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.

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 8-70

76L298 307 Cdb 12-62

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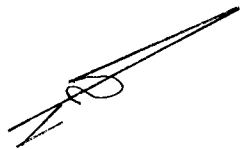
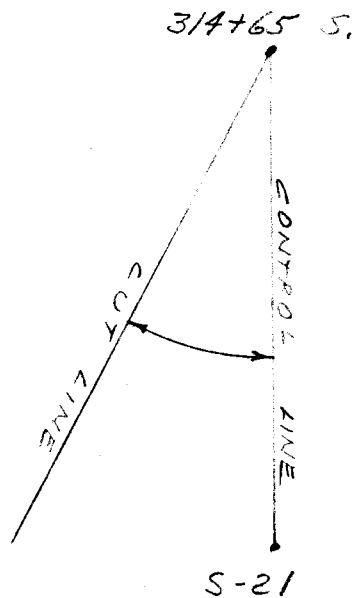
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
314+65 S.	S-21	11:33	1	60	54			
			2	59	00			
			3	58	45			
			4	58	27			
			5	57	40			
			6	56	41			
			7	55	50			
			8	54	28			
			9	53	40			
			10	52	15			
			11	51	10			
			12	49	45			
			13	48	51			
			14	47	43			
			15	46	11			
			16	44	35			
			17	43	14			
			18	41	52			
			19	40	36			
			20	39	08			





RANGE = 327+00 S.

Profile Notes Red. Plotted Job No 3206.02 Division No. 11 SURVEY F. B. 2824 Pg. 113

No. Date Date Survey of HYDRO. Date 11-8-73

X-Sec. Notes Chkd. Checked Survey by PK HARRIS Notes P.T. Date 11-8-73

No. Date Date Map No. Indexed Date DEC 8 1973

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					
314+65 S.	S-21		21	37	48			
			22	36	31			
			23	35	10			
			24	33	38			
			25	32	10			
			26	30	49			
			27	29	39			
			28	28	38			
			29	27	28			
			30	26	15			
			31	25	01			
			32	23	47			
			33	22	42			
			34	21	59			
			35	20	47			
		11:38	36	19	46			

RANGE 327+00 S, CONT.

F. B. 2824 Pg. 114
Job No. 300.02 Division No. 11 Notes Red. Plotted
Survey of HYDRO. SURVEY Date Date No.
Survey by RICHARDS Notes R.T. Notes Chkd. Checked X-Sec.
Indexed G. D. BAILEY Date DEC 3 1973 Date Date No.
Profile

76-L-298 CE 307 8-70

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV.	M. L. L. W.	3284+16S.
		21 92				
3284+16S.			0 07	21 85	Con't. Line	pvmt.
			0 07	21 85	edge	" 9.0 R.
			82	137	brk	Sand 70.0 R.
			112	107	"	" 175.0 R.
			164	55		" 224.0 R.
			1288	904	Top	4' 1x2 224.0 R.
T.P.	026	21 34	084	2108	STA. 328+00 SAND AT BASE OF ROCKS AT S 22 SIGHT ON S-23	
	-232	672		904	ABOUT	
5		46	157	-90 1	50° 48'	
			138	-71 2	48 38	
			125	-58 3	46 38	
			107	-40 4	44 36	
			105	-38 5	43 22	
			98	-32 6	41 20	
			88	-21 7	39 37	
			80	-13 8	37 32	
			70	-03 9	35 22	
			53	14 10	31 33	
			32	35		245 FT. RT.
			21	46		234 FT. RT. M.H.W.

Profile Notes Red Plotted Job No. Division No.
No. Date Date Survey of
X-Sec. Notes Chk'd. Checked Survey by Notes Date
No. Date Date Map No. Indexed Date DEC 3 1974

F.B. 2824 PG. 115

F. B. 2824 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.

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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76-L-298 CE 307 8-70

76L298 307 Cdb 12-62

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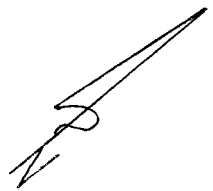
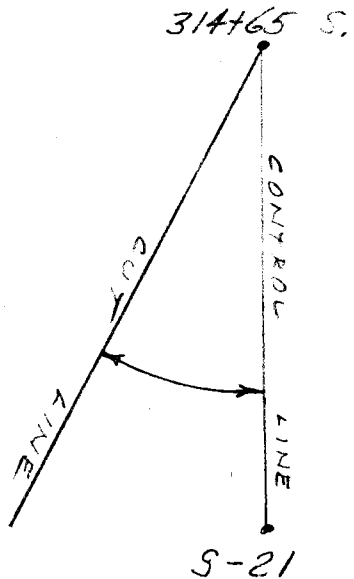
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE NO	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE MIN.	CARD NO
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
314+65 S	S-21	11:46	1	58	30			
			2	57	41			
			3	56	58			
			4	55	31			
			5	55	08			
			6	53	41			
			7	52	42			
			8	51	57			
			9	50	45			
			10	49	44			
			11	48	35			
			12	47	16			
			13	46	10			
			14	45	08			
			15	43	50			
			16	42	24			
			17	40	46			
			18	39	27			
			19	38	04			
			20	37	02			





RANGE = 328+16 S.

Profile Notes Red. Plotted Job No 23002 Division No. 11
No. Date Date Survey of HYDRO. SURVEY F. B. 2824 Pg. 117
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes R.T. Date 11-8-23
No. Date Date Map No. Indexed by D. BAILEY Date DEC 3 1923

76L298 307 Cdb 12-62

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
314+65 S.	5-21		21	35	32			
			22	34	04			
			23	33	01			
			24	31	56			
			25	30	52			
			26	29	59			
			27	29	18			
			28	28	28			
		11:51	29	28	09			

RANGE 328+16 S.
CONT.

F. B. 2824 PG. 118 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile
Survey of HYDRO. SURVEY Date Date No.
Survey by RICHARDS Notes RT Notes Chkd. Checked X-Sec.
Indexed G.D. BAILEY Date DEC 3 1973 Date Date No.

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of HYDROGRAPHIC SURVEY F. B. 994 PG. 119
JN 0300-02 Tape Std °F
Surveyed by RICHARDS
Notes UNARRIGT Date 11-8-73
Indexed B. D. BAILEY DEC 3 1973

TIDE GAGE READINGS
NOV. 8, 1973
TIME - P.S.T.
DATUM - M.L.L.W.

TIME	TIDE
6:00	5.5
6:30	5.7
7:00	5.8
7:30	5.7
8:00	5.4
8:30	5.0
9:00	4.5
9:30	3.9
10:00	3.1
10:30	2.4
11:00	1.7
11:30	1.1
12:00	0.3
12:30	0.0
1:00	-0.4
1:30	-0.5
2:00	-0.5

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

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

Do not extend this side of this line.

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DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-68

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

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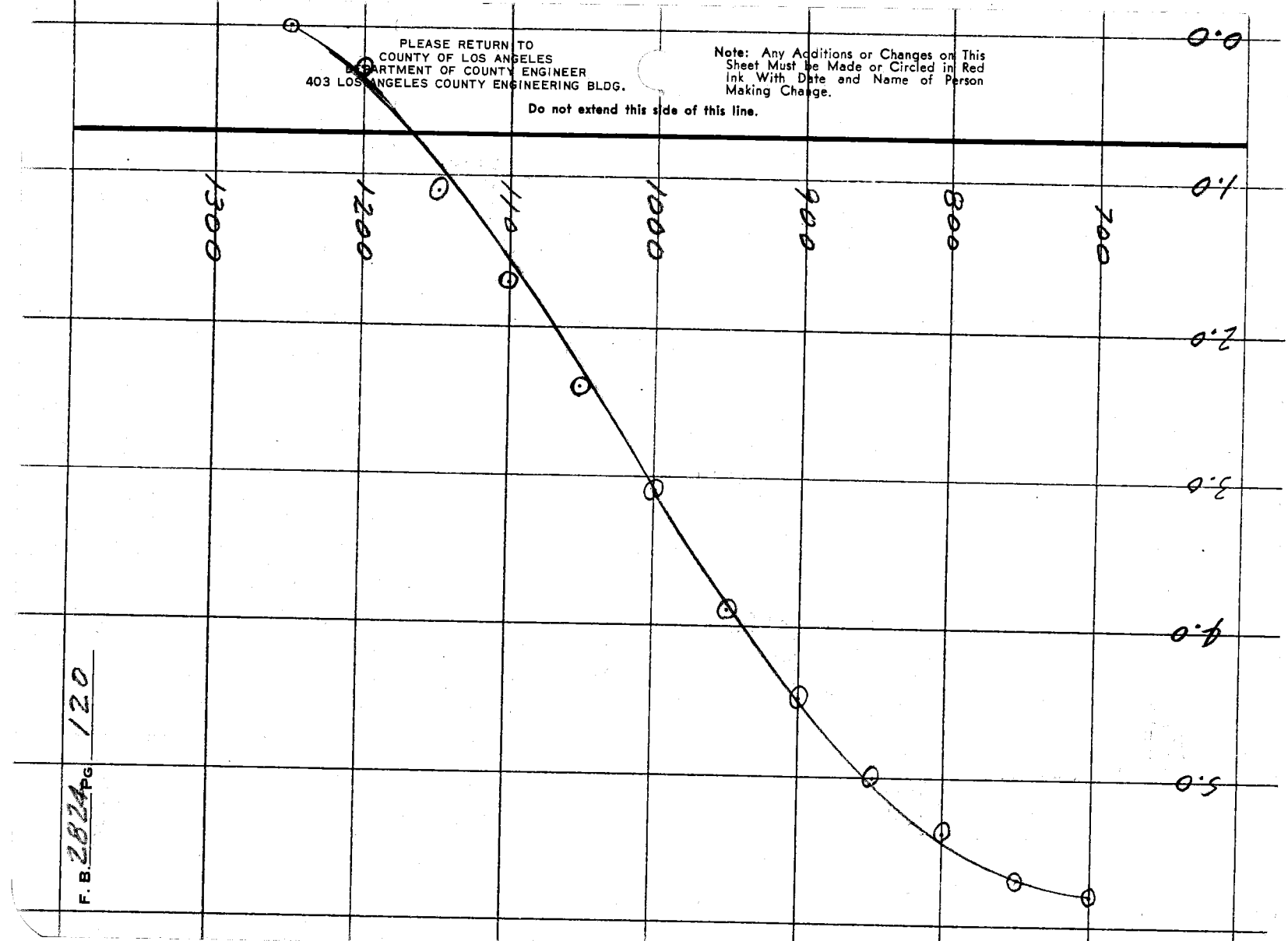
Do not extend this side of this line.



F. B. 2824 PG 120

76-L-298 CE 307 8-70

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LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		328+50S
STA 328+16	0 95	22 80		21 85	SPK ON CONTROL	LINE
328+50			115	21 65	PAV. ON CONTROL	LINE
			116	21 64		9 FT RT. TOP CON. CR.
			12	21 6		9 FT RT SAND
			15	21 3		12 FT RT " BRK
			42	18 6		21 FT RT "
			83	14 5		60 " "
			96	13 2		100 " "
			110	11 8		200 " "
			128	10 0		273 " " BR
			~~128~~		⊼ AT S 23 SIGHT ON S 22	
T. P.	0 82	857	1505	7 75		ROCK
			40	4 6		311 FT RT. M.H.W.
			50	3 6	1 34° 17'	
			68	1 8	2 36 54	
			79	0 7	3 39 28	
			85	0 1	4 42 58	
			100	-1 4	5 45 27	
			129	-4 3	6 48 20	
			149	-6 3	7 51 00	
			142	5 6	8 52 30	
			200	-11 4	9 54 31	EST. 1.5 OVERROD

EXTRA LINE, ONSHORE ONLY
S'LY SIDE OF ROCK GROIN

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F. B. 2824 Pg. 121
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY - REDONDO
X-Sec. Notes Chk'd. CWA Checked ____ Survey by DREIER Notes DREIER Date 11-9-73
No. ____ Date 1-18-74 Date ____ Map No. ____ Indexed G.D. BAILEY Date DEC 3 1973

F. B. 2824 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.

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76-L-298 CE 307 8-70

76-L-298 CE 307 8-70

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403 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M.L.L.W.	330+00 S.
		21 34			PG 115	
330+00 S.			045	2089	Cont. Line	pvmt.
			045	2089	edge	" 8.0 R.
			66	147	brk.	sand 65.0 R.
			105	108	"	" 229.0 R.
		6	110	103		" 248.0 R.
	-402	8 57	875	1259	Top	4' 1x2 248.0 R.
					↑ S 23 SIGHT	S 22
			195	1094	1 60° 24'	EST. 1 FOOT OVER 18.5 RID
			168	826	2 57 54	
			147	617	3 55 49	
			114	288	4 52 33	
			99	134	5 50 31	
			88	026	6 48 00	
			86	00	7 45 19	
			75	11	8 42 55	
			58	28	9 40 26	
			40	46	SAND	288 FT M.H.W.

Profile Notes Red Plotted Job No. 3300.02 Division No.
No. Date Date Survey of Hydro Survey
X-Sec. Notes Ck'd CWA Checked Survey by English Notes Cake Date 11-8-73
No. Date 1-18-74 Date Map No. Index & D. BAILEY Date DEC 3 1973

F. B. 2824 Pg. 123

F. B. 2824 Pg. 129 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 8-70

76L298 307 Cdb 12-62

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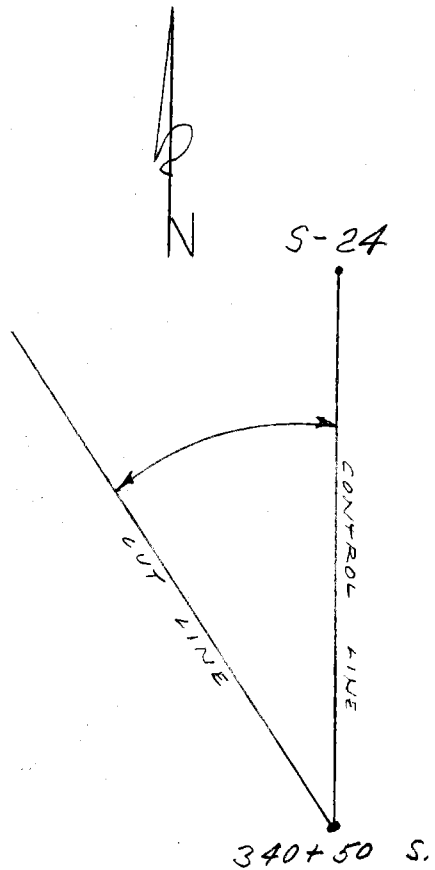
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE NO	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE MIN.	CARD NO
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	359	60			
340+50 S	S-24	7:27	1	287	00	73	00	
			2	287	47	72	13	
			3	288	44	71	16	
			4	289	30	70	30	
			5	290	18	69	42	
			6	291	10	68	50	
			7	291	48	68	12	
			8	292	50	67	10	
			9	293	50	66	10	
			10	295	06	64	54	
			11	296	19	63	41	
			12	297	23	62	37	
			13	299	08	60	52	
			14	300	48	59	12	
			15	302	22	57	38	
			16	304	14	55	46	
			17	305	59	54	01	
			18	308	16	51	44	
			19	310	17	49	43	
			20	311	49	48	11	



RANGE = 330+00 S.

Profile Notes Red. Plotted Job No. 3280.62 Division No. 11
No. Date Date Survey of HYDRO. SURVEY F. B. 2824 PG. 125
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes A. D. BAILEY Date 11-9-73
No. Date Date Map No. Indexed Date DEC 3 1973

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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F. B. 2824 Pg. 126 Job No. 8300.02 Division No. 11 Notes Red. Plotted No.

Survey of HYDRA SURVEY Date Date X-Sec.

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

Indexed G. D. BAILEY Date DEC 3 1973 Date Date

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
340+50 S.	5-24		21	313	36	46	24	
			22	315	24	44	36	
			23	318	50	41	10	
			24	321	14	38	46	
			25	323	28	36	32	
			26	325	45	34	15	
			27	328	14	31	46	
			28	330	02	29	58	
		7:32	29	332	06	27	54	

RANGE 330+00 S. CONT.

76-L-298 CE 307 8-70

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	333+00S.
		21 34				
T. P.	071	21 07	098	2036		
333+00S.			058	2049	Con't. line	pum't.
			051	2056	edge	" 6.2 R.
			51	160	brk	Sand 126.0 R.
			87	124		213.0 R.
			106	105		228.0 R.
	- 265	10 04	838	1269	TOP 1X2	228.0 R.
			54	46		266 FT. RT. M.H.W.
					* AT 330+00 SIGHT ON S 23	
			73	27	#1 44° 07	
			90	10	2 45 53	
			100	00	3 48 07	
			106	-06	4 51 28	
			120	-20	5 54 06	
			136	-36	6 55 40	
			145	-45	7 57 40	
			172	-72	8 59 41	
			190	90	9 61 13	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chk'd CWA Checked ____ Survey by English Notes Caro Date 11-9-73
No. ____ Date 1-18-74 Date ____ Map No. ____ Indexed B.D. BAILEY Date DEC 3 1973

F.B. 2824 PG. 127

F. B. 2824 Pg. 128 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.

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

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LOS ANGELES COUNTY ENGINEER
403 Los Angeles County Engineering Bldg.

76-L-298 CE 307 8-70

76L298 307 Cdb 12-62

PLEASE RETURN TO

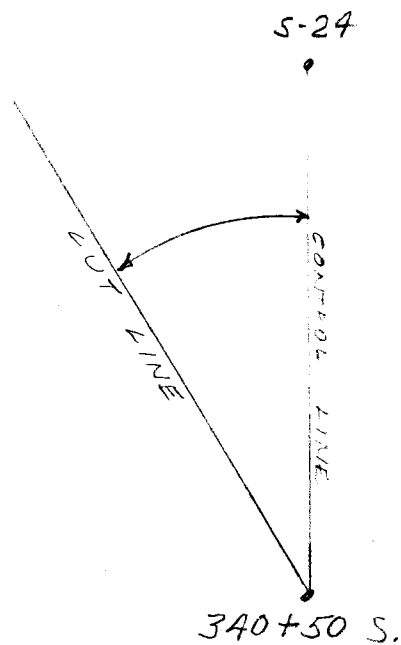
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	FOR OFFICE USE ONLY LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	359	60			
340+50 S.	S-24	7:48	1	278	55	81	05	
			2	279	44	80	16	
			3	280	25	79	35	
			4	280	59	79	01	
			5	281	23	78	37	
			6	282	23	77	37	
			7	283	04	76	56	
			8	283	54	76	06	
			9	284	55	75	05	
			10	285	30	74	20	
			11	286	43	73	17	
			12	287	23	72	37	
			13	288	34	71	26	
			14	289	26	70	34	
			15	290	51	69	09	
			16	292	20	67	40	
			17	294	01	65	59	
			18	295	40	64	20	
			19	297	35	62	25	
			20	299	44	60	16	



RANGE = 333+00 S.

Profile Notes Red. ____ Plotted ____ Job No. 9300.02 Division No. 11 F. B. 2824 Pg. 129

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by R. HARDS Notes RT. Date 11-9-73

No. ____ Date ____ Date ____ Map No. ____ Indexed D. BAILEY Date DEC 3 1973

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.

F. B. 2824 Pg. 130

Job No. 23002 Division No. 11 Notes Red. Plotted

Survey of HYDRO. SURVEY Date Date

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

Indexed G.D. BAILEY Date DEC 3 1973 Date Date

Profile No. X-Sec. No.

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					
340+50 S.	S-24		21	301	45	58	15	
			22	303	33	56	27	
			23	305	45	54	15	
			24	308	15	51	45	
			25	310	27	49	33	
			26	312	42	47	18	
			27	314	26	45	34	
			28	316	10	43	50	
			29	318	16	41	44	
			30	320	30	39	20	
			31	322	22	37	38	
			32	324	32	35	28	
		7:55	33	326	09	33	51	

RANGE 333+00 S, CONT.

76-L-298 CE 307 8-70

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		335+00S
		21 07				
S-23	164	21 70	101	20 06	S-23 el = 20.06	F.B. 2100-157
335+00S.			063	21 07	Con't. Line	pvm't.
			065	21 05	edge	" 6.4 R.
			46	17 1	brk	Sand 132.0 R.
			95	12 2	"	" 225.0 R.
			105	11 2		" 234.0 R.
	025	13 85	810	13 60	Top	4' 1x2 234.0 R.
	088	9 83	490	8 95	T.P. ⊼ AT 330+00	SIGHT ON S 23
			52	46		278 FT RT M.H.W.
			21E	-11 2	#1 51° 44	ESTIMATE 2½ FEET OVER ROD
			185	-8 7	2 49 50	
			166	-6 8	3 47 51	
			138	-4 0	4 45 40	
			122	-2 4	5 43 38	
			117	-1 9	6 41 07	
			102	-0 4	7 38 00	
			102	-0 4	8 35 37	
			92	0 6	9 33 48	
			77	2 1	10 32 16	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2824 PG. 131
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Chk'd CWA Checked ____ Survey by English Notes Care Date 11-8-73
No. ____ Date 1-18-74 Date ____ Map No. ____ Indexed G. D. BAILEY Date DEC 3 1973

F. B. 2824 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.

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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 8-70

76L298 307 Cdb 12-62

PLEASE RETURN TO

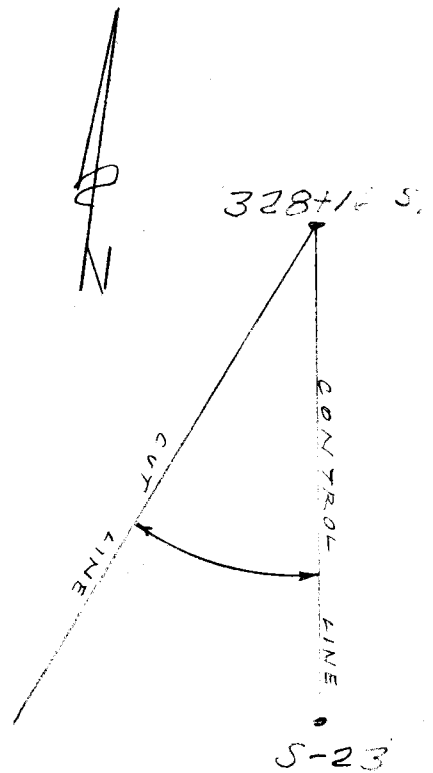
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
328+16 S.	S-23	8:13	1	76	49			
			2	75	55			
			3	75	34			
			4	75	01			
			5	74	21			
			6	73	41			
			7	73	04			
			8	72	07			
			9	71	16			
			10	70	11			
			11	69	24			
			12	68	34			
			13	67	31			
			14	66	16			
			15	65	11			
			16	63	54			
			17	62	21			
			18	60	52			
			19	59	06			
			20	56	59			



RANGE = 335700 S.

Profile Notes Red. Plotted Job No. 0300.02 Division No. 11 F. B. 2824 Pg. 133

No. Date Date Survey of HYDRO SURVEY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes A.T.T. Date 9-77

No. Date Date Map No. Indexed by D. BAILEY Date DEC 5 1977

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. 2824 Pg. 134 | Job No. 4200.02 Division No. // Notes Red. Plotted
Survey of HYDRO SURVEY Date Date No.
Survey by RICHARDS Notes A.T. Date X-Sec.
Indexed G.D. BAILEY Date 8/1973 Notes Chkd. Checked
Profile Date Date No.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
328+16 S.	S-23		21	54	54			
			22	52	48			
			23	50	15			
			24	48	16			
			25	46	15			
			26	43	40			
			27	41	41			
			28	39	32			
			29	37	40			
			30	36	01			
			31	34	07			
		8:19	32	32	14			

RANGE 335+00 S. (CONT)

76-L-298 CE 307 8-70

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

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	338+00 S
		21 70				
T.P.	1 02	22 64	0 08	21 62		
338+00S			0 22	22 42	Con't. line	pvmt.
			0 19	22 45	edge	" 6.9 R.
			60	16 6	brk	sand 131.0 R.
			117	109	"	" 235.0 R.
			139	87		" 248.0 R.
	-1 70	9 26	11 68	10 96	Top	4' 1x2 248.0 R.
					⊼ AT 335+00	SIGHT ON S 24
			47	46		282 FT RT M.H.W.
			83	10	#1 46° 29	
			88	05	2 48° 30	
			94	-01	3 50 25	
			102	-09	4 52 43	
			116	-23	5 53 44	
			130	-37	6 56 37	
			150	-57	7 58 00	
			175	-82	8 60 14	
			190	-97	9 61 34	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2824 Pg. 135
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chk'd CWH Checked ____ Survey by English Notes Cara Date 11-9-73
No. ____ Date 1-18-74 Date ____ Map No. ____ Indexed G.D. BAILEY Date DEC 3 1973

F. B. 2824 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.

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

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LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76-L-298 CE 307 8-70

76L298 307 Cdb 12-62

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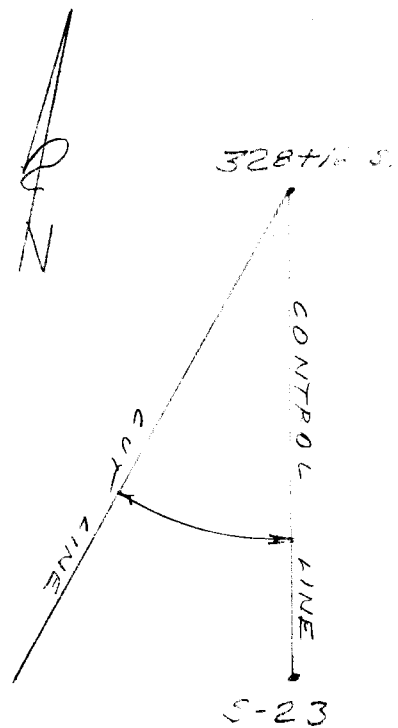
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
323+16 S.	S-23	8:31	1	56	26			
			2	55	01			
			3	53	31			
			4	52	33			
			5	51	34			
			6	50	33			
			7	49	11			
			8	47	38			
			9	46	34			
			10	45	18			
			11	43	27			
			12	41	37			
			13	39	15			
			14	37	38			
			15	36	07			
			16	34	23			
			17	32	59			
			18	31	35			
			19	30	04			
			20	28	37			



RANGE = 338+00 S.

Profile Notes Red. Plotted Job No. 0300.02 Division No. 1 F. B. 2824 Pg. 137

No. Date Date Survey of HYDRO. SURVEY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes RT Date 11-9-73

No. Date Date Map No. Index Cd. G.D. BAILEY Date DEC 3 1973

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					
328+16 S.	S-23		21	27	26			
			22	25	42			
		8:35	23	24	40			

RANGE 338+00 S.
CONT.

F. B. 2824 Pg. 138 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile
Survey of HYDRO. SURVEY Date Date No.
Survey by RICHARDS Notes R.T. Notes Chkd. Checked X-Sec.
Indexed G. D. BAILEY Date DEC 3 1973 Date Date No.

76-L-298 CE 307 8-70

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M.L.L.W.	340+505.
		22.64				
T.P.	.016	21.65	1.15	21.49		
340+505.			1.05	20.60	Cont line	pvmt.
			1.22	20.43	edge	" 11.0 R
			.58	1.59	brk.	Sand 100.0 R.
			.86	1.31	"	" 196.0 R.
			1.16	1.01		" 208.0 R.
	-2.22	10.08	9.35	12.30	Top	4" I x 2 208.0 R.
					↑ AT 335+00 SIGHT ON S 24	
			1.90	-8.94 #1	44° 51'	
			1.68	-6.71 2	42 53	
			1.53	-5.23	41 09	
			1.28	-2.74	38 41	
			1.15	-1.45	36 49	
			1.06	-0.54 6	34 29	
			.99	0.27	32 32	
			.84	1.78	30 18	
			.78	2.39	28 33	
			.55	4.62		248 FT RT. M.H.W.

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

F. B. 2824 PG. 139

F. B. 2829 PG. 140 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 8-70

76L298 307 Cdb 12-62

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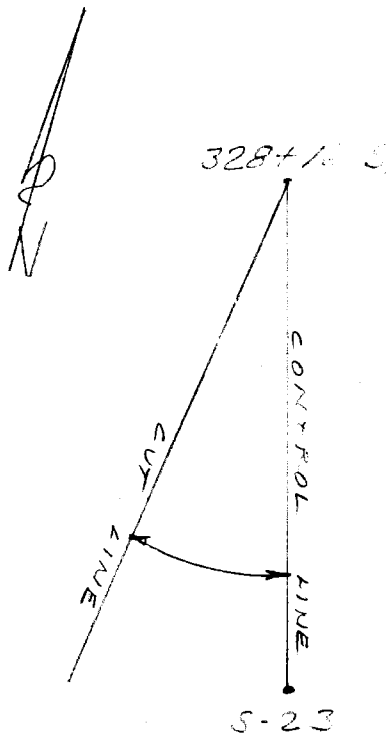
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
328+16 S.	S-23	8:47	1	56	25			
			2	55	27			
			3	54	15			
			4	53	06			
			5	51	50			
			6	50	33			
			7	49	20			
			8	48	03			
			9	46	51			
			10	45	17			
			11	43	44			
			12	41	59			
			13	40	02			
			14	38	08			
			15	36	32			
			16	34	27			
			17	32	37			
			18	31	01			
			19	29	30			
			20	27	59			



RANGE = 340+50 S.

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2824 Pg. 141

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes RT. Date 11-9-73

No. ____ Date ____ Date ____ Map No. ____ Index D. BAILEY Date DEC 3 1973

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					
328+16 S.	S-23		21	26	32			
			22	25	07			
			23	23	51			
			24	22	18			
			25	21	05			
		8:52	26	20	07			

RANGE 340+50 S, (CONT.)

F. B. 2824 PG. 142 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO SURVEY Date Date No.

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

Indexed G. D. BAILEY Date DEC 3 [illegible] Date Date No.

76-L-298 CE 307 8-70

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

383
+1

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	343+00S.
		21 65				
T.P.	169	19 71	3 63	18 02		
343+00S.			22	17 5	Con't. line	Sand
			14	18 3	Toe slope 45.0L.	
		(+)	36	23 3	" 55.0L.	(hand Level)
			45	15 2	brk.	Sand 87.0 R.
			67	13 0	"	" 147.0 R.
			96	10 1		" 171.0 R.
	-188	10 43	7 40	12 31	Top 4' 1x2	171.0 R.
					⊼ AT 353+00 SIGHT ON 525	
			58	4 6		211 FT. RT. M.H.W
			99	0 5	#1 13° 06'	
			106	-0 2	2 14 35	
			120	-1 6	3 16 33	
			134	-3 0	4 18 49	
			137	-3 3	5 20 35	
			163	-5 9	6 23 06	
			178	-7 4	7 24 22	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2824 PG. 143
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chk'd CWH Checked ____ Survey by English Notes Caro Date 11-9-73
No. ____ Date 1-18-74 Date ____ Map No. ____ Indexed D. BAILEY Date DEC 3 1973

F. B. 2824 Pg. 149 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 8-70

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403 Los Angeles County Engineering Bldg.

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

76L298 307 Cdb 12-62

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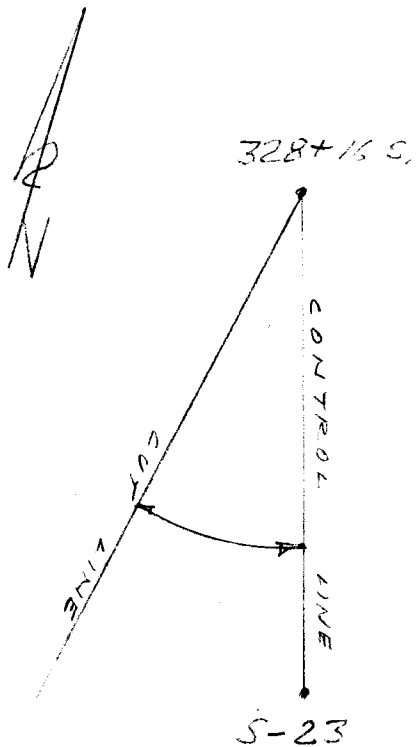
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
328+16 S.	S-23	9:05	1	47	34			
			2	46	09			
			3	45	08			
			4	44	08			
			5	42	56			
			6	41	48			
			7	40	40			
			8	39	19			
			9	37	17			
			10	35	52			
			11	34	17			
			12	32	35			
			13	30	46			
			14	29	04			
			15	27	19			
			16	25	37			
			17	24	33			
			18	23	18			
			19	21	56			
			20	20	54			



RANGE = 343+00 S.

Profile Notes Red. Plotted Job No. 2300.32 Division No. 4
No. Date Date Survey of HYDRO SURVEY
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes AT Date 11-9-73
No. Date Date Map No. Indexed D. BAILEY Date DEC 3 1973

F. B. 2824 Pg. 145

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.

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F. B. 2824 Pg. 146 Job No 4300.02 Division No. 11 Notes Red. Plotted No. Profile

Survey of HYDRO SURVEY Date Date X-Sec.

Survey by RICHARDS Notes Chkd. Checked No.

Indexed G. D. BAILEY Notes Date DEC 3 1973 Date Date

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
328+16 S.	S-23		21	19	27			
			22	18	26			
			23	17	14			
		9:09	24	16	20			

RANGE 343+00 S. (CONT.)

76-L-298 CE 307 8-70

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

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M.L.L.W.	348+00S.
		1971				
T.P.	293	1899	365	1606		
348+00S			48	142	Con't. line	Sand
			44	146	Toe slope 14.5 L.	"
			00	190	" 27.5 L.	grd.
			56	134	brk	Sand 133.0 R.
			93	97		" 156.0 R.
	258	950	691	1208		Top 4' 1x2 156.0 R.
					⊼ AT 353+00S	SIGHT ON S25
			195	-100	#1 44° 26'	
			172	-77	2 42 27	
			150	-55	3 39 49	
			118	-23	4 35 39	
			108	-13	5 33 32	
			100	-05	6 30 11	
			95	00	7 27 24	
			86	09	8 21 47	
			49	46		197 FT. RT. M.H.W.

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chk'd. CWA Checked ____ Survey by English Notes Carc Date 11-9-72
No. ____ Date 1-18-74 Date ____ Map No. ____ Indexed G. D. BAILEY Date DEC 3 1973

F.B. 2824 PG. 147

F. B. 2824 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.	

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76-L-298 CE 307 8-70

76L298 307 Cdb 12-62

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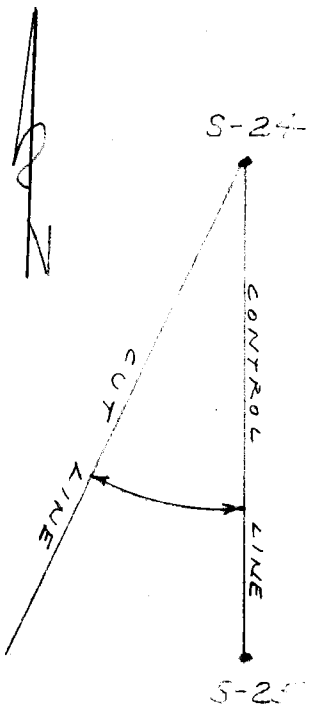
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
S-24	S-25	9:24	1	47	32			
			2	46	32			
			3	45	02			
			4	43	45			
			5	42	20			
			6	41	00			
			7	39	32			
			8	37	43			
			9	36	05			
			10	34	21			
			11	31	38			
			12	29	59			
			13	28	22			
			14	26	37			
			15	24	41			
			16	22	56			
			17	21	49			
			18	20	13			
			19	18	30			
			20	16	37			



RANGE = 348+00 S.

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 11 F. B. 2824 Pg. 149

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

Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-9-73

Date ____ Date ____ Map No. ____ Indexed G.D. BAILEY Date DEC 3 1973

F. B. 2824 PG. 150 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO SURVEY Date Date No.

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

Indexed G. D. BAILEY Date DEC 3 1975 Date Date No.

76L298 307 Cdb 12-62

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

Do not extend notes this side of this line.

INST. AT DON'T PUNCH	SIGHT ON DON'T PUNCH	TIME DON'T PUNCH	ANGLE Nº DON'T PUNCH	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº.
S-24	S-25		21	14	56			
			22	13	42			
		9:28	23	12	35			

RANGE 348+00 S.
(CONT.)

76-L-298 CE 307 8-70

388+06

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	353+00S.
		18 99				
T. P.	3 95	18 77	4 17	148 2		
353+00S.			41	147	Con't. line	sand
			35	153	Toe slope 12.0 L.	"
		(+)	15	203	" 21.0 L.	grd. (hand level)
			65	123		brk sand 133.0 R.
			86	102		" 145.0 R.
—	- 220	10 22	6 35	124 2		Top 4' 1x2 145.0 R.
			56	46		189 FT. RT. M.H.W.
					⊼ AT 348+00S SIGHT ON 353+00	
			85	17	1 23° 50'	
			104	-02	2 26 54	
			111	-09	3 30 50	
			130	-28	4 34 49	
			151	-49	5 38 01	
			180	-78	6 40 51	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of Hydrosurvey
Notes Chk'd. CWH Checked ____ Survey by English Notes Cairo Date 11-9-73
Date 1-18-74 Date ____ Map No. ____ Indexed G.D. BAILEY Date DEC 3 1973

F. B. 2824 Pg. 151

F. B. 2824 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.

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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76-L-298 CE 307 8-70

76L298 307 Cdb 12-62

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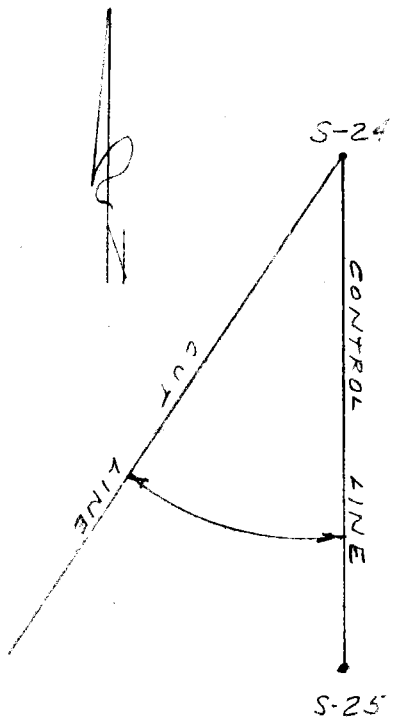
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
S-24	S-25	9:41	1	34	50			
			2	33	18			
			3	32	09			
			4	30	42			
			5	29	08			
			6	27	22			
			7	25	41			
			8	23	50			
			9	21	59			
			10	20	04			
			11	17	56			
			12	16	39			
			13	15	12			
			14	13	55			
			15	12	37			
			16	11	27			
			17	10	24			
			18	09	19			
			19	08	09			
			20	07	11			



RANGE = 353+00 S

Profile Notes Red. ____ Plotted ____ Job No. 0300-02 Division No. 11 F. B. 2824 Pg. 153

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes RT. Date 11-9-73

No. ____ Date ____ Date ____ Map No. ____ Indexed G.D. BALLEY Date DEC 3 1973

F. B. 2824 PG. 154 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

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

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

Indexed G. D. BAILEY Date DEC 3 1975 Date _____ Date _____ No. _____

76L298 307 Cdb 12-62

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
S-24	S-25		21	06	22			
		9:45	22	05	06			

RANGE 353 + 00 S.
(CONT.)

76-L-298 CE 307 8-70

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

Do not extend notes this side of this line.

Range Line 358+00 S.

STATION	B. S.	H. I.	F. S.	ELEV. = M. L. L. W.		
		18 77				
T.P.	334	19 45	266	16 11		
358+00 S.			42	153	Cont. line	Sand
			30	165	Toe slope 19.0 L.	"
		(+)	20	215	" 34.0 L.	grd. (hand level)
			60	135	blk.	Sand 130.0 R.
			96	99		" 150.0 R.
	-261	9 44	740	1205	Top	4' 1x2 150.0 R.
		46	48	46		187 FT. RT. M.H.W.
					℄ AT 353+00	SIGHT ON 358 TOO
			84	10-1	23° 50	
			100	06-2	25 59	
			98	-04-3	29 00	
			103	-09-4	30 20	
			118	-24-5	33 53	
			133	-39-6	36 22	
			152	-58-7	38 41	
			171	-77-8	40 58	
			190	-96-9	43 47	

Profile Notes Red _____ Plotted _____ Job No. _____ Division No. _____
No. _____ Date _____ Date _____ Survey of Hy Arc Survey
X-Sec. Notes Chk'd. LWA Checked _____ Survey by _____ Notes Cano Date 11-9-73
No. _____ Date 1-18-74 Date _____ Map No. _____ Indexed D. BAILEY Date DEC 3 1973

F. B. 2824 Pg. 155

F. B. 2824 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.	

76-L-298 CE 307 8-70

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

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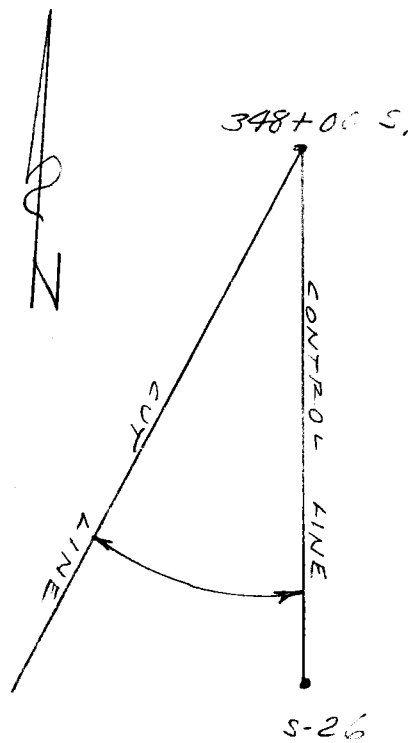
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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					
348+00 S.	S-26	10:08	1	62	42			
			2	62	19			
			3	61	36			
			4	61	19			
			5	60	25			
			6	59	37			
			7	58	32			
			8	57	14			
			9	56	24			
			10	55	17			
			11	54	18			
			12	53	02			
			13	51	55			
			14	50	34			
			15	49	07			
			16	47	08			
			17	45	25			
			18	43	53			
			19	42	10			
			20	40	04			



RANGE = 358+00 S.

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2824 Pg. 157

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-9-73

No. ____ Date ____ Date ____ Map No. ____ Indexed G.D. BAILEY Date DEC 3 1973

F. B. 2824 PG. 158 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

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

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

Indexed G. D. BAILEY Date DEC 3 1973 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					
348+00 S.	S-26		21	38	05			
			22	36	37			
			23	34	33			
			24	32	54			
			25	31	12			
			26	29	16			
			27	27	53			
			28	25	59			
			29	23	38			
			30	21	35			
			31	20	27			
		10:13	32	18	45			

RANGE 358+00 S.

CONT.

76-L-298 CE 307 8-70

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	363+00S.
		19 45				
T.P.	359	18 57	447	14 98		
363+00S.			40	14 6	Cont. line	Sand
			35	15 2	Toe slope 16.0 L.	"
		(+)	14	20 2	" 34.0 L.	grd. (hand level)
			51	13 5		brk. Sand 157.0 R.
			85	10 1		" 177.0 R
	-283	9 57	617	12 40		Top 4' 1x2 177.0 R
			50	46		215 FT. RT. M.H.W.
					⊼ AT 358+00 SIGHT ON 363+00	
			89	07	#1 26° 57	
			101	-05	2 29 06	
			100	-04	3 31 54	
			110	-14	4 34 53	
			132	-36	5 38 48	
			155	-59	6 41 16	
			178	-82	7 39 33	
			188	-92	8 44 49	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 330002 Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of Hydro Survey
Notes Chk'd CWA Checked ____ Survey by English Notes Carlo Date 11-9-73
Date 1-18-74 Date ____ Map No. ____ Indexed D. BAILEY Date DEC 3 1973

F.B. 2824 PG. 159

F. B. 2824 PG. 160 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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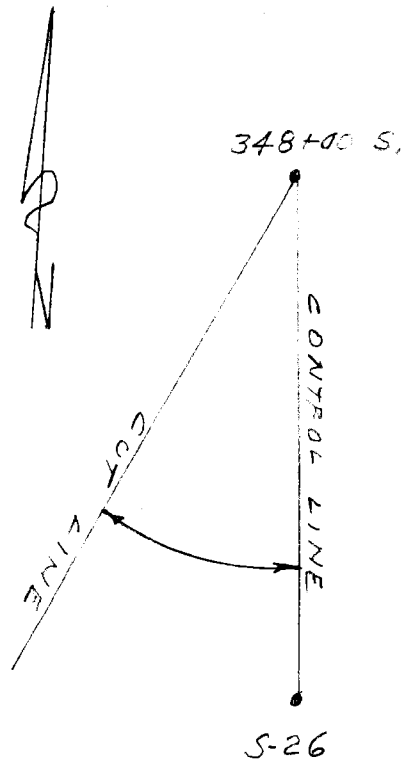
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend 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					
348+00 S.	S-26	10:26	1	53	05			
			2	51	56			
			3	51	15			
			4	50	05			
			5	49	10			
			6	48	44			
			7	47	37			
			8	46	44			
			9	45	39			
			10	44	31			
			11	43	25			
			12	41	50			
			13	41	08			
			14	40	00			
			15	38	54			
			16	36	55			
			17	35	19			
			18	33	40			
			19	31	59			
			20	30	09			



RANGE = 363+00 S.

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2824 Pg. 161

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes RT. Date 11-9-73

No. ____ Date ____ Date ____ Map No. ____ Indexed G.D. BAILEY Date DEC 3 1973

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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					
348+00 S.	S-26		21	27	55			
			22	25	31			
			23	23	40			
			24	21	48			
			25	20	08			
			26	18	14			
			27	16	51			
			28	15	16			
		10:31	29	14	15			

RANGE 363+00 S.
(CONT.)

F. B. 2824 PG. 162

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

Survey of HYDRO. SURVEY Date No.

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

Indexed G. D. BAILEY Date DEC 3 1973 Date No.

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Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	368+00S.
		18 57				
T. P.	7 42	22 36	3 63	14 94		
T.B.M. #2	0 87	22 18	1 05	21 31	T.B.M. #2 el.= 21.32	F.B. 2100 - 155
T.P.	4 08	19 58	6 68	15 50		
368+00S.			43	153	Con't. line	Sand
			38	158	Toe slope 17.5 L.	"
		(+)	12	208	" 30.5 L.	grd (hand level)
			62	134	brk	Sand 175.0 R.
		80	116	80		" 205.0 R
	-203	7 96	9 59	9 99	Top	4' 1x2 205.0 R.
			34	46		231 FT. RT. mH.W.
					⊼ AT 363+00S	SIGHT ON 526
			75	05	#1 31° 14'	
			92	-12	2 35 32	
			95	-15	3 38 47	
			109	-29	4 42 26	
			131	-51	5 45 23	
			151	-71	6 48 01	
			168	-88	7 50 23	
			185	-105	8 52 41	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 300.02 Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of Hydro Survey
Notes Chk'd CWH Checked ____ Survey by English Notes Carr Date 11-9-73
Date 1-18-74 Date ____ Map No. ____ Indexed G.D. BAILEY Date DEC 3 1973

F. B. 2824 PG. 163

F. B. 2824 Pg. 164

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 8-70

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403 Los Angeles County Engineering Bldg.

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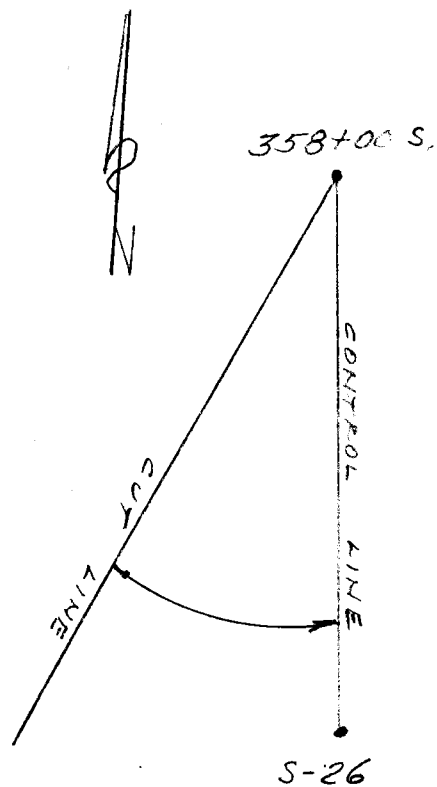
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
358+00 S.	S-26	10:49	1	68	55			
			2	67	25			
			3	65	43			
			4	63	59			
			5	62	35			
			6	61	22			
			7	60	01			
			8	59	01			
			9	57	47			
			10	55	08			
			11	53	48			
			12	51	46			
			13	49	16			
			14	47	13			
			15	45	12			
			16	42	16			
			17	39	27			
			18	36	58			
			19	34	06			
			20	31	37			



RANGE = 368+00 S.

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2824 Pg. 165

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes RT. Date 11-9-73

No. ____ Date ____ Date ____ Map No. ____ Index G. D. BAILEY Date DEC 3 1973

F. B. 2824 PG. 166 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

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

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

Indexed G. D. BAILEY Date DEC 3 1973 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					
358+00 S.	S-26		21	28	56			
			22	27	20			
		10:54	23	25	47			

RANGE 368+00 S.
(CONT)

76-L-298 CE 307 8-70

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

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	373+00S.
		19 58				
T.P.	3 01	18 49	4 10	15 48		
373+00S			37	148	Con't line	Sand
			27	158	toe slope 57.0 L.	"
		(+)	23	208	" 74.0 L.	" (hand level)
			51	134	brk	" 130.0 R.
			104	81		" 168.0 R.
	-1 73	8 51	8 25	10 24	Top	4' 1x2 168.0 R.
			39	46		195 FT. RT. m.H.W.
					T 368+00S SIGHT ON 373+00S	
			89	-04	#1 25° 37'	
			89	-04	2 28 23	
			97	-12	3 31 07	
			110	-25	4 34 23	
			124	-39	5 36 59	
			140	-55	6 38 51	
			161	-76	7 40 48	
			170	-85	8 42 06	
			181	-96	9 43 51	

Profile Notes Red ____ Plotted ____ Job No. 3300.02 Division No. ____
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Chk'd CWH Checked ____ Survey by Engineer Notes Carr Date [illegible]
No. ____ Date 1-18-74 Date ____ Map No. ____ Indexed G. D. BAILEY Date DEC [illegible]

F.B. 2824 PG. 167

F. B. 2829 PG. 168

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 8-70

PLEASE RETURN TO

LOS ANGELES 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.

76L298 307 Cdb 12-62

PLEASE RETURN TO

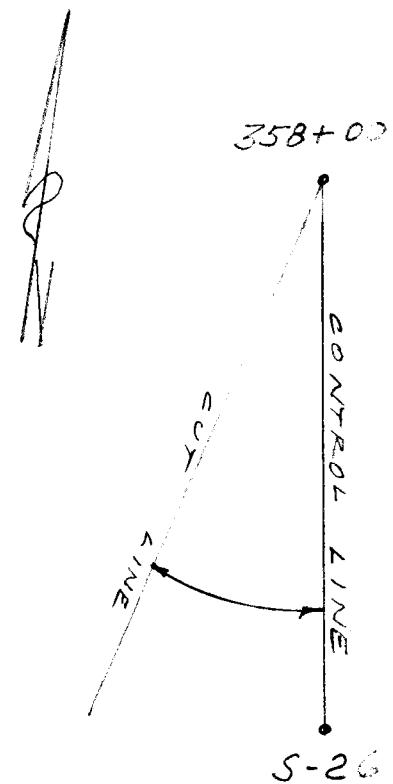
LOS ANGELES COUNTY SURVEYOR

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					
358+00 S.	S-26	11:05	1	51	25			
			2	49	49			
			3	48	12			
			4	46	40			
			5	45	04			
			6	43	23			
			7	41	05			
			8	39	03			
			9	37	20			
			10	35	23			
			11	33	30			
			12	31	30			
			13	29	16			
			14	27	17			
			15	25	25			
			16	23	45			
			17	21	45			
			18	20	40			
			19	19	14			
			20	18	20			



RANGE = 373+00 S.

Profile Notes Red. ____ Plotted ____ Job No. 2300.22 Division No. 4 F. B. 2824 Pg. 169

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 11-9-73

No. ____ Date ____ Date ____ Map No. ____ Indexed G.D. BAILEY Date DEC 3 1973

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					
358+00 S.	S-26	11:08	21	16	58			

RANGE 373+00 S.
(CONT)

F. B. 2824 PG. 170

Job No. 030002 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO. SURVEY Date Date No.

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

Indexed G. D. BAILEY Date DEC 3 1973 Date Date No.

76-L-298 CE 307 8-70

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

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	378+00 S.
		18 49				
T.P.	461	20 15	295	1554		
378+00 S.			54	148	Cont line	Sand
			44	158	toe Slope 55.0 L.	"
		(+)	06	208	" 72.0 L.	grd. (hand level)
			69	133		brk. Sand 126.0 P.
		4	122	80		" 163.0 P.
	-150	836	1029	986		Top 4' 1x2 163.0 P.
			38	46		191 FT. RT. M.H.W.
					π AT 373+00	SIGHT ON 378+00
			84	00	#1 25° 13'	
			86	-02	2 28 41	
			98	-14	3 32 02	
			120	-36	4 36 07	
			140	-56	5 38 44	
			160	-76	6 41 14	
			181	-97	7 43 34	

Profile Notes Red Plotted Job No. Division No.
No. Date Date Survey of Hydro Survey
X-Sec. Notes Chk'd. EWH Checked Survey by English Notes Card Date 1-18-74
No. Date 1-18-74 Date Map No. Indexed D. BAILEY Date DEC 3 1973

F.B. 2824 PG. 171

F.B. 2824 PG. 172 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 8-70

76L298 307 Cdb 12-62

PLEASE RETURN TO

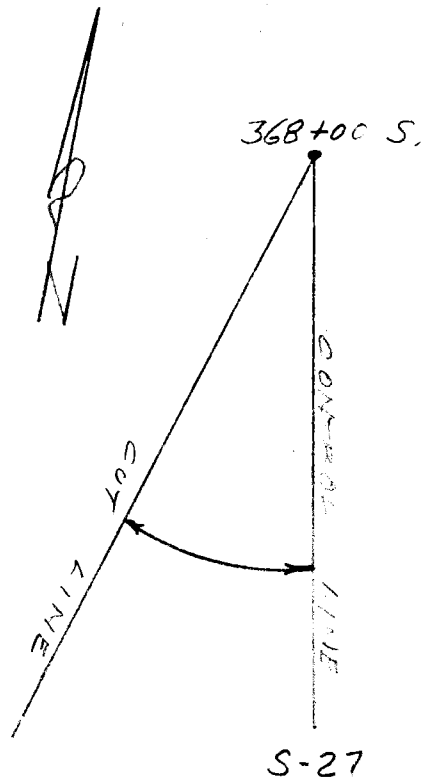
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
368+00 S.	S-27	11:24	1	53	54			
			2	52	44			
			3	50	57			
			4	49	22			
			5	48	05			
			6	46	10			
			7	44	08			
			8	41	45			
			9	39	34			
			10	37	18			
			11	35	12			
			12	32	57			
			13	30	46			
			14	29	26			
			15	27	24			
			16	26	02			
			17	24	20			
			18	23	06			
		11:27	19	21	30			



RANGE = 378+00 S.

Profile Notes Red. ____ Plotted ____ Job No. C3002 Division No. 11 F. B. 2824 Pg. 173

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes RT. Date 11-9-73

No. ____ Date ____ Date ____ Map No. ____ Index No. C.D. BAILEY Date DEC 3 1973

F. B. 2824 PG. 174 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 Los Angeles County Engineering Bldg.

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

76-L-298 CE 307 8-70

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

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M.L.L.W.	383+00 S.
		20 15				
T. P.	3 40	19 21	4 34	15 81		
383+00 S.			48	14 4	Con't. line	Sand
			41	15 1	Toe slope 36.0 L.	"
		(+)	09	20 1	" 64.0 L	grd. (hand leve.)
			66	12 6	brk.	Sand 145.0 R.
			12 5	6 7		" 177.0 R.
	- 1 60	7 04	10 57	8 64	Top	4' 1x2 177.0 R.
			2 4	4 6		195 FT. RT. M.H.W.
					⊼ AT 378+00	SIGHT ON 383+00
			70	00 #1	25° 51'	
			72	-02 2	29 31	
			89	-19 3	33 11	
			113	-43 4	37 44	
			138	-68 5	40 19	
			161	-91 6	42 49	
			175	-105 7	45 31	

Profile Notes Red ____ Plotted ____ Job No. 030002 Division No. ____
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Chk'd CWH Checked ____ Survey by Lipush Notes Carp Date ____
No. ____ Date 1-18-74 Date ____ Map No. ____ Indexed D. BAILEY Date DEC 3 1973

F.B. 2824 PG. 175

F. B. 2824 Pg. 176 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 8-70

PLEASE RETURN TO

LOS ANGELES 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.

76L298 307 Cdb 12-62

PLEASE RETURN TO

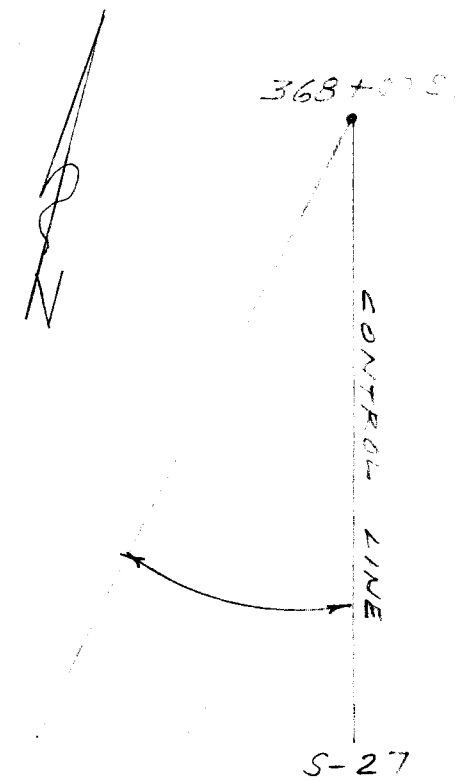
LOS ANGELES COUNTY SURVEYOR

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					
368+00 S.	S-27	11:38	1	42	48			
			2	41	25			
			3	40	11			
			4	38	45			
			5	36	54			
			6	35	04			
			7	33	09			
			8	31	25			
			9	29	27			
			10	27	32			
			11	25	33			
			12	23	12			
			13	21	37			
			14	20	41			
			15	19	15			
			16	18	11			
			17	17	04			
		11:41	18	16	13			



RANGE = 383+00 S.

Profile Notes Red. ____ Plotted ____ Job No. [illegible] Division No. 11 F. B. 28[illegible] Pg. 177

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes P.T. Date 11-9-73

No. ____ Date ____ Date ____ Map No. ____ Indexed S. D. BOULEN Date DEC 3 1973

F. B. 2824 Pg. 178 | Job No. 0300.02 Division No. 11 | Notes Red. | Plotted | Profile

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

Survey by RICHARDS | Notes R.J. | 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 Don't Punch	Sight On Don't Punch	Time Don't Punch	Angle No Don't Punch	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Deg.	For Office Use Only Line Min.	For Office Use Only Card No.

76-L-298 CE 307 8-70

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	388+00S.
		19 21				
T. P.	158	15 00	2 79	16 42		
388+00S.			3 +	14 6	Con't. line	sand
			27	15 3	toe slope 26.0 L.	"
		(+)	23	20 3	" 44.0 L	grd.
			51	12 9	brk.	sand 163.0 R.
			123	5 7		" 210.0 R.
	0 82	7 00	10 18	7 82	top	4' 1x2 210.0 R.
			24	4 6		223 FT. RT. M.H.W.
					π AT 383+00 SIGHT ON 388+00	
			62	0 8	1 28° 55'	
			69	0 1	2 32 39	
			77	-0 7	3 36 42	
			117	-4 7	4 41 47	
			140	-7 0	5 44 09	
			160	-9 0	6 46 38	
			176	-10 6	7 49 24	

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

X-Sec. No. ____ Date ____ Notes Chk'd. CWA Checked ____ Date 1-18-74 Survey by ENGLISH Notes CARU-DREIER Date 11-9-73

Map No. ____ Indexed G.D. BAILEY Date DEC 3 1973

F.B. 2824 PG. 179

F.B. 2824 PG. 180 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.

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 ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76-L.298 CE 307 9-70

76L298 307 Cdb 12-62

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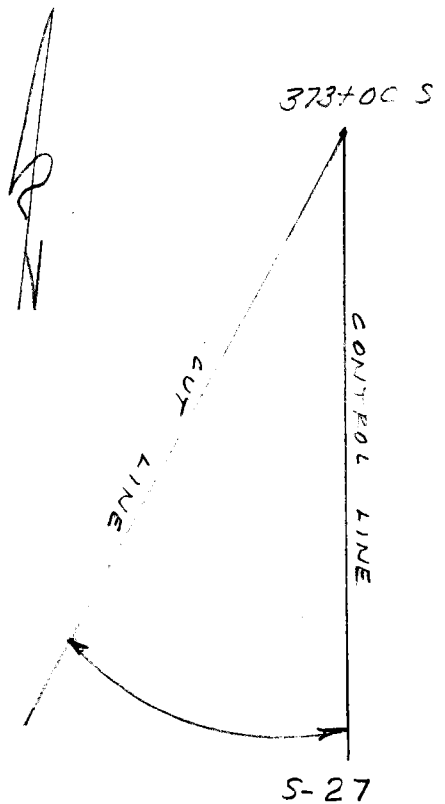
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
373+00 S	S-27	11:58	1	45	17			
			2	44	01			
			3	42	51			
			4	41	40			
			5	40	37			
			6	39	21			
			7	38	00			
			8	36	54			
			9	35	11			
			10	33	03			
			11	31	42			
			12	30	22			
			13	28	35			
			14	26	41			
			15	24	41			
			16	23	04			
			17	21	15			
			18	20	09			
			19	19	02			
			20	17	54			



RANGE = 388+00 S.

Profile Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 11 F. B. 2824 Pg. 181

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes P.T. Date 11-9-73

No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date DEC 3 1973

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. 2824 Pg. 182 Job No. 036-02 Division No. 11 Notes Red. Plotted
Survey of HYDRO. SURVEY Date Date
Survey by RICHARDS Notes RT No. X-Sec.
Indexed G. D. BAILEY Date DEC 3 1975 Notes Chkd. Checked
Date Date No. Profile

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					
373+60 S	S-27	12:02	21	17	03			

RANGE 388+00 S, (CONT.)

Notes Ck'd by	Survey of HYDROGRAPHIC SURVEY
Map No.	JN 0300-02 Tape Std °F
Office Work	Surveyed by RICHARDS
Checked	Notes UNARRIET Date 11-9-73
Date	Index G. D. BAILEY DEC 3 1973

F. B. 2824 PG. 193

TIDE GAGE READINGS
NOV. 9, 1973
TIME - P.S.T.
DATUM - M.L.L.W.

TIME	TIDE
6:00	5.4
6:30	5.7
7:00	6.0
7:30	6.1
8:00	5.9
8:30	5.7
9:00	5.3
9:30	4.8
10:00	3.9
10:30	3.2
11:00	2.3
11:30	1.5
12:00	0.7
12:30	0.1
1:00	-0.5
1:30	-0.8
2:00	-1.1

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

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

Do not extend this side of this line.

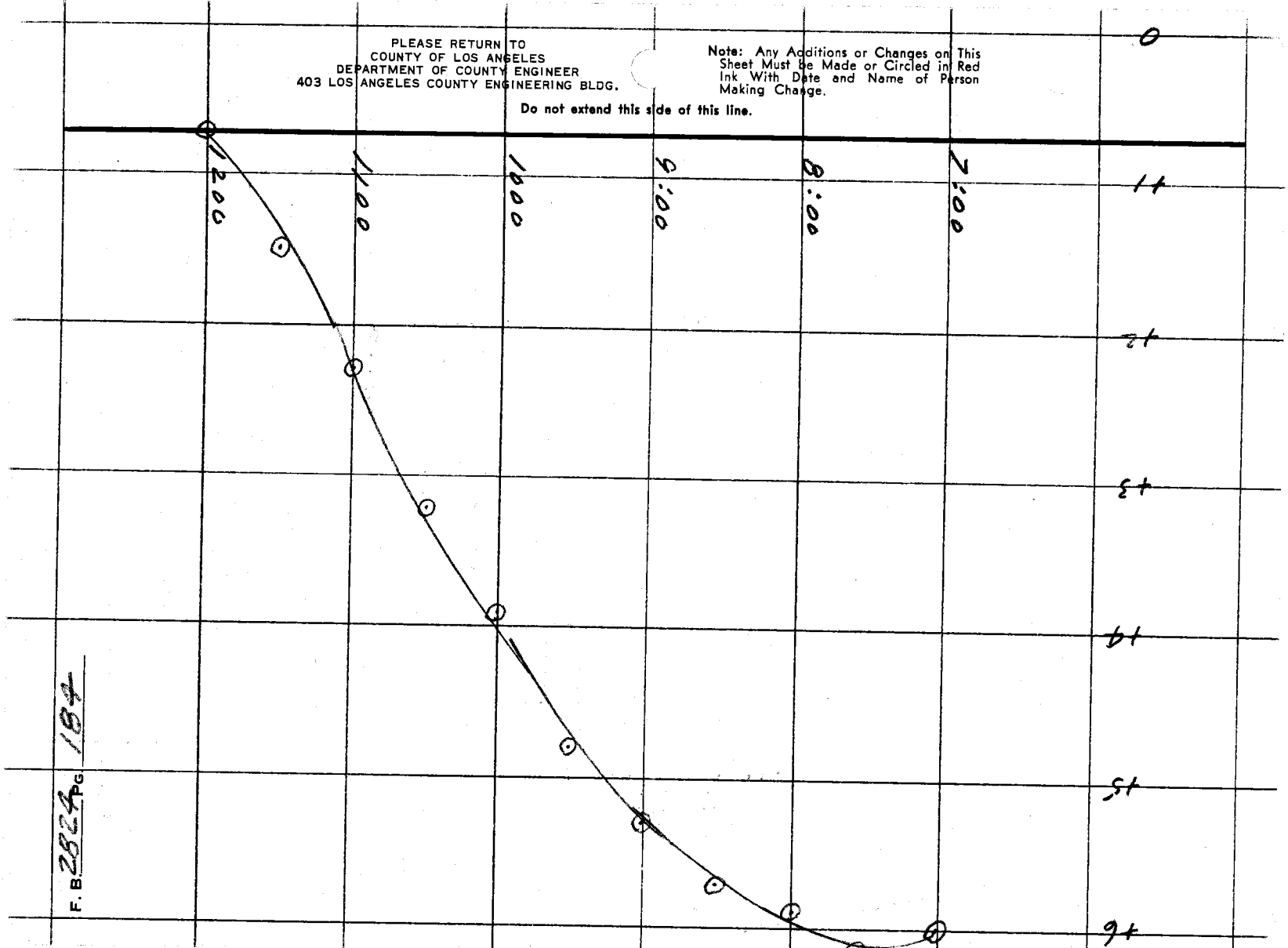
PLEASE RETURN TO
COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

16F3095 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. B. 2824 PG. 184

76-L-298 CE 307 8-70

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

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

Do not extend notes this side of this line.

Range Lin.

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	393+19S.
		18 00	11-13-73			
T.P.	310	19 52	1 58	16 42	L&T.	
T.P.	425	19 29	4 48	15 04		
393+19S.			44	149	Cont. line	Sand
			42	151	toe slope 2.0 L.	"
			00	193	" 14.0 L.	grd.
			59	134	brk	Sand. 148.0 R.
			99	94		" 165.0 R.
	- 114	10 54	7 61	11 68	1H4-73 Top	4' 1x2 165.0 R.
					AT S 27	SIGHT ON 393+19S.
			18	8 7	SAND	165 FT RT.
			59	4 6		197 FT RT M.H.W.
			80	25	#1 24° 53'	
			98	07	2 26 21	
			114	-09	3 30 07	
			124	-19	4 34 47	
			145	-40	5 41 08	
			169	-64	6 44 27	
			172	-67	7 44 58	
			205	-100	8 47° 02'	ESTIMATE 2 FT. OVER ROD (185)

Profile No. ____ Notes Red ____ Plotted ____ Job No. 03000 Division No. ____ F.B. 2824 Pg. 185
Date ____ Date ____ Survey of Hydro Survey #14
X-Sec. No. ____ Notes Chk'd CWA Checked ____ Survey by Ingham Notes Carc Date 11-13-73
Date 1-18-74 Date ____ Map No. ____ Index G. D. BAILEY Date DEC 3 1973

F. B. 2824 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 G. D. BAILEY Date DEC 3 1973 Date ____ Date ____ No. ____

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

76-L-298 CE 307 8-70

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403 Los Angeles County Engineering Bldg.

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76L298 307 Cdb 12-62

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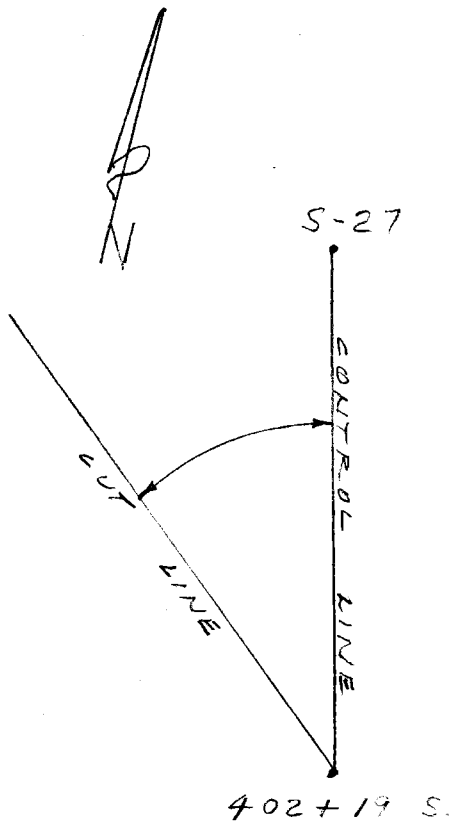
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	359	60	DEG.	MIN.	
402+19 S.	S-27	10:03	1	299	18	60	48	
			2	300	32	59	28	
			3	301	46	58	14	
			4	302	36	57	24	
			5	303	51	56	09	
			6	305	15	54	45	
			7	306	40	53	20	
			8	308	06	51	54	
			9	309	24	50	36	
			10	311	11	48	49	
			11	313	10	46	50	
			12	315	16	44	44	
			13	317	18	42	42	
			14	319	59	40	01	
			15	322	06	37	54	
			16	324	21	35	39	
			17	326	45	33	15	
			18	328	45	31	15	
			19	330	12	29	48	
			20	331	58	28	02	



RANGE = 393+19 S.

Profile Notes Red. Plotted Job No. Division No.
No. Date Date Survey of HYDRO SURVEY F. B.
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes R.T. Date 11-14-73 Pg. 187
No. Date Date Map No. Index by BAILEY 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					
402+19 S.	S-27	10:07	21	332	51			

RANGE 393+19 S.
CONT.

F. B. 2824 Pg. 188

Survey of HYDRO SURVEY

Survey by RICHARDS Notes Dec 8 1973

Indexed G. D. BAILEY Date

Job No. 23002 Division No. 11 Notes Red. Date

Notes Chkd. Date

Plotted Date

Checked Date

Profile No.

X-Sec. No.

76-L-298 CE 307 8-70

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Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	398+195.
		19 29				
T. P.	235	18 31	333	1596		
398+195.			41	142	Cont line	Sand
			29	154	Toe slope 25.0L.	"
11-13-73		(7)	21	204	" 46.0L.	yrd.
			50	133	DRK. Sand	156.0 R.
			78	105	"	172.0 R.
—	-192	1078	-561	1270	Top 4" 1x2	172.0 R.
					↑ AT 393+19 SIGHT ON 398+19 5.	
			-220	-112	1 49° 15'	EST. 25 OVER.
11-19-73			188	-80	2 48 42	
			172	-64	3 47 05	
			153	-45	4 44 42	
			143	-35	5 42 52	
			135	-27	6 40 49	
			125	-17	7 38 01	
			109	-01	8 30 42	
			93	15	9 26 23	
			80	28	10 25 25	
			62	46	11 23° 01'	M.H.W.
			06	102	SAND	172 FT RIGHT

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY
X-Sec. Notes Chk'd Chkd Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date 1-15-74 Date ____ Map No. ____ Indexed D. BAILEY Date DEC 8 1975

F. B. 2824 Pg. 189

F. B. 2829 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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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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76-L-298 CE 307 8-70

76L298 307 Cdb 12-62

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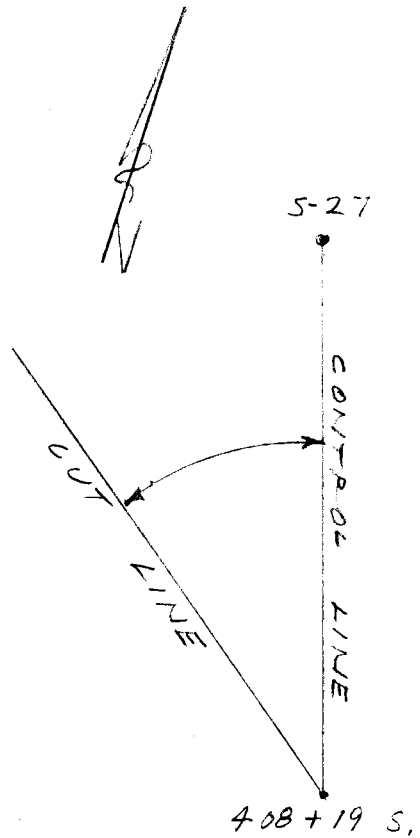
Do not extend notes this side of this line.

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.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	359	60			
408+19 S.	S-27	10:20	1	307	27	52	33	
			2	308	41	51	19	
			3	309	57	50	03	
			4	311	33	48	27	
			5	312	55	47	05	
			6	314	25	45	35	
			7	316	09	43	15	
			8	317	56	42	04	
			9	319	59	40	01	
			10	321	39	38	21	
			11	323	34	36	24	
			12	325	24	34	36	
			13	326	54	33	06	
			14	328	16	31	44	
			15	329	35	30	25	
			16	331	12	28	48	
			17	332	49	27	11	
			18	334	08	25	52	
			19	335	35	24	25	
		10:24	20	337	01	22	59	



RANGE = 398+19 S.

Profile Notes Red. Plotted Job No. 03000.02 Division No. 11 F. B. 2824 Pg. 191

No. Date Date Survey of HYDRO. SURVEY

X-Sec. Notes Chkd. Checked Survey by Notes R.T. Date 11-14-73

No. Date Date Map No. Indexed D. BAILEY Date DEC 3 1973

F. B. 2824 PG. 192 Job No. 0300.02 Division No. 11 Notes Red. ______ Plotted ______ Profile

Survey of HYDRO. SURVEY ______ Date ______ Date ______ No. ______

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

Indexed ______ Date ______ Date ______ Date ______ No. ______

76L298 307 Cdb 12-62

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Do not extend notes this side of this line.

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

76-L-298 CE 307 8-70

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Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.		403+19S.
		18 31					
T.P.	453	22 13	071	1760			
403+19S.			52	169	Con't. line		Sand
			124	2089	edge Conc. 74.0 L.		Conc. Dr.
11-13-73			85	14.0	brk.		Sand 127.0 R.
			124	97			" 146.0 R.
	-154	10 43	1016	1197			Top 4' 1x2 146.0 R.
					⊼ ON 398+19S		SIGHT ON 403+19S
			10	93			146 FT. RT., SAND
			58	46	#1	19° 36'	M.H.W.
			80	24	2	22 27	
			103	01	3	25 27	
11-14-73			114	-10	4	27 23	
			117	-13	5	30 21	
			128	-24	6	36 02	
			145	-41	7	40 18	
			162	-58	8	43 16	
			180	-76	9	45 50	
			205	-101	10	48 06	EST. 2 FT. OVER 18.5 ROD

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____ F.B. 2824 Pg. 193
No. ____ Date ____ Date ____ Survey of ____ Survey by English Notes ____ Date 11-13-73
X-Sec. Notes Chk'd Cuth Checked ____ Date ____ Map No. ____ Indexed D. BAILEY Date DEC 3 1973
No. ____ Date 1-18-74 Date ____

F. B. 2829 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.	

76-L-298 CE 307 8-70

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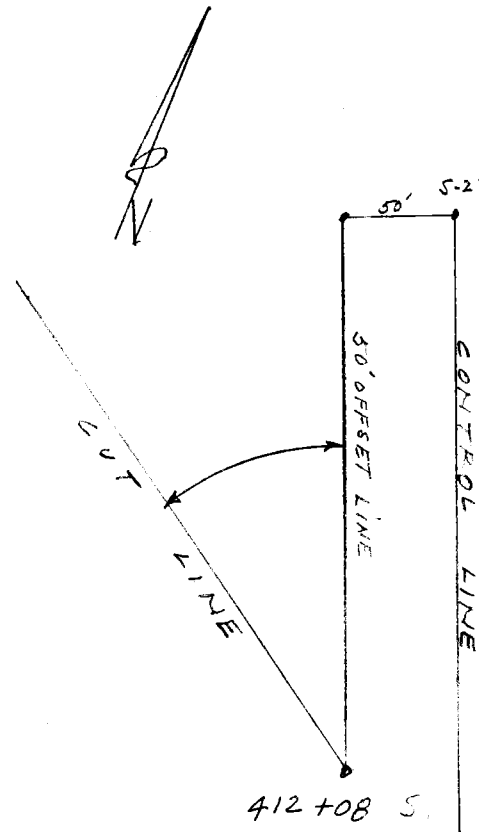
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Deg.	Range Min.	Card No
Don't Punch	Don't Punch	Don't Punch	Don't Punch	359	60			
412+08 S.	5-27 50' OFF	10:33	1	296	41	63	19	
			2	297	26	62	34	
			3	298	26	61	34	
			4	299	29	60	31	
			5	300	26	59	34	
			6	301	49	58	11	
			7	303	19	56	41	
			8	304	49	55	11	
			9	306	19	53	41	
			10	308	07	51	53	
			11	309	41	50	19	
			12	311	11	48	49	
			13	313	37	46	23	
			14	316	10	43	50	
			15	318	30	41	20	
			16	320	50	39	10	
			17	322	43	37	17	
			18	325	02	34	58	
			19	327	35	32	25	
			20	329	01	30	59	



RANGE = 403+19 S.

Profile Notes Red. Plotted Job No 230.02 Division No. 11 F. B. 2864 Pg. 19

No. Date Date Survey of HYDRO SURVEY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes R.T. Date 11-14-73

No. Date Date Map No. Index G.D. BAILEY Date DEC 3 1973

76L298 307 Cdb 12-62

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F. B. 2824 Pg. 196 Job No. 4300.02 Division No. 11 Notes Red. Plotted

Survey of HYDRO. SURVEY Date Date

Survey by RICHARDS Notes ART Notes Chkd. Checked

Indexed G.D. BAILEY Date DEC 3 1962 Date Date

Profile No. X-Sec. No.

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					
412+08 S.	(S-27 (50' offset))		21	330	22	29	28	
			22	332	14	27	46	
			23	334	18	25	42	
			24	336	12	23	48	
		10:38	25	338	11	21	49	

RANGE 403+19 S. (CONT.)

76-L-298 CE 307 8-70

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403 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

Range Line

408+195.

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	408+195.
		22 13 ✓				
T. P.	093	18 32	-4 74	17 39 ✓		
408+195.			64	11 9	Cont line	Sand
			36	14 7	brk sand 38.0L.	
		(4)	1 78	20 10	Top conc. blk wall 38.0L.	
			45	13 8	brk. sand	130.0 R.
			95	8 8	"	152.0 R.
		9 88 ~~10 88~~				
	-1 09		735	10 97	Top 4' 1x2	152.0 R.
					11-14-73 AT 403+19 SIGHT ON 408+195	
			200	10.1 -9 1	1 48° 06	EST. 1.5 OVER R/W
			185	9.9 -9 6	2 46 52	
			156	5.4 -4 7	3 44 09	
			140	4.1 -3 1	4 41 56	
			130	3.1 -2 1	5 40 19	
			120	2 1 -1 1	6 35 59	
			100	-0.1 ~~0 9~~	7 29 31	
			90	0.9 9 1	8 25 08	
			63	3.6 ~~4 6~~	9 21° 16'	
			10	~~8 9~~ 9		152 FT RT SAND

Profile Notes Rel. Plotted Job No. Division No.
No. Date Date Survey of
X-Sec. Notes Chk'd Checked Survey by Notes Date
No. Date Date Map No. Index D. BAILEY Date DEC 3 1973

F. B. 2824 PG. 197

F. B. 2829 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.

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76-L-298 CE 307 8-70

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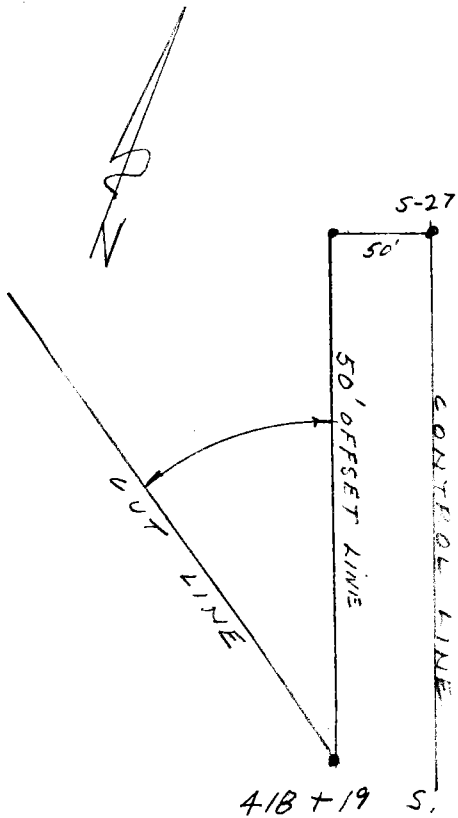
Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	359	60			
418+19 S.	S-27 50' OFF.	10:54	1	300	23	59	37	
			2	301	05	58	55	
			3	302	20	57	30	
			4	303	25	56	35	
			5	304	32	55	28	
			6	306	10	53	50	
			7	307	31	52	29	
			8	309	01	50	59	
			9	310	46	49	14	
			10	312	55	47	05	
			11	315	06	44	54	
			12	317	03	42	57	
			13	319	46	40	14	
			14	322	15	37	45	
			15	324	20	35	30	
			16	326	27	33	33	
			17	329	02	30	58	
			18	331	10	28	50	
			19	332	55	27	05	
			20	334	24	25	36	



RANGE = 408+19 S.

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2824 Pg. 199

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes RT. Date 11-14-73

No. ____ Date ____ Date ____ Map No. ____ Index Cd. D. BAILEY Date DEC 3 1973

76L298 307 Cdb 12-62

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F. B. 2824 Pg. 200 Profile ____ No. ____ X-Sec. ____ No. ____

Survey of HYDRO SURVEY Plotted ____ Date ____

Survey by RICHARDS Notes Red. ____ Date ____

Indexed by D. BAILEY Job No 2301.02 Division No. 11 Notes Chkd. ____ Date ____

Notes PLS Date DEC 3 1973 Checked ____ Date ____

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
41B+19 S.	S 27 50' OFF		21	336	11	23	49	
			22	337	35	22	25	
		10:58	23	339	14	20	46	

RANGE 408+19 S. (CONT)

76-L-298 CE 307 8-70

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Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W	413+195.	
		18 32					
T.P.	345	18 74	303	1529			
413+195.			53	134	50' off line F.B. 2100-266	Sand	
			54	133	toe slope	44.0 L.	"
			04	183	"	66.0 L.	"
			45	142	brk.	"	75.0 R.
			105	82		"	101.0 R.
	-115	9 12	847	1027	Top 4' 1x2		101.0 R.
					11-14-73		
					⊼ AT 408+195 SIGHT ON 413+195		
			09	82	SAND	101 FT. RT.	
			45	46		24 FT. RT. M.H.W.	
			64	27 #1	22° 02'		
			77	142	24 32		
			88	033	26 55		
			88	034	28 26		
			103	-025	32 06		
			107	-166	34 46		
			110	-197	37 24		
			122	-318	40 27		
			140	-499	43 57		
			168	-767 10	47 09		
			185	-9.4 11	~~48.42~~		

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of Sycamore Canyon Levee
X-Sec. Notes Chk'd Gwh Checked ____ Survey by Engineering Notes Levee Date 11-14-73
No. ____ Date 1-28-74 Date ____ Map No. ____ Index No. D. BAILEY Date DEC 3 1973

F.B. 2824 PG. 201

F. B. 2824 Pg. 202

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 8-70

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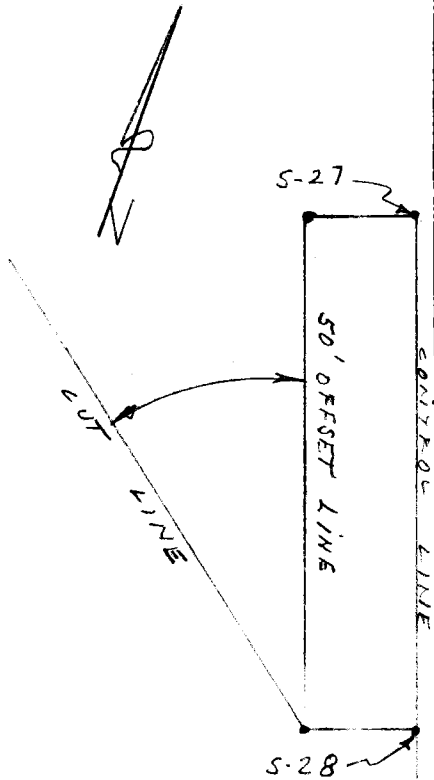
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	359	60			
S-28 50' OFF	S-27 50' OFF	11:10	1	298	25	61	35	
			2	299	16	60	44	
			3	300	08	59	52	
			4	301	16	58	44	
			5	302	26	57	34	
			6	303	37	56	23	
			7	304	48	55	12	
			8	306	12	53	48	
			9	307	27	52	34	
			10	308	42	51	18	
			11	310	31	49	29	
			12	311	59	48	01	
			13	313	36	46	24	
			14	315	38	44	22	
			15	317	54	42	06	
			16	320	16	39	44	
			17	322	23	37	37	
			18	325	08	34	52	
			19	327	24	32	36	
			20	329	35	30	25	



RANGE = 413+19 S.

Profile Notes Red. Plotted Job No. 21002 Division No. 11
No. Date Date Survey of HYDRO SURVEY
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes R.T. Date 11-14-73
No. Date Date Map No. Indexed D. BAILEY Date DEC 3 1973

F. B. 2824 Pg. 203

76L298 307 Cdb 12-62

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

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	359	60			
S-28 50' OFF	S-27 50' OFF		21	331	19	28	41	
			22	333	32	26	28	
			23	334	52	25	08	
			24	336	33	23	27	
			25	337	57	22	03	
		11:15	26	340	01	19	59	

RANGE 413 + 19 S
(CONT)

F. B. 2824 PG. 204
Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile
Survey of HYDRO. SURVEY Date Date No.
Survey by RICHARDS Notes R.T. Notes Chkd. Checked X-Sec.
Indexed G. D. BAILEY Date DEC 3 1973 Date Date No.

76-L-298 CE 307 8-70

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	418+19S.
		18 74				(DIST. TO RIGHT ARE MEAS. FROM 50 FT OFFSET LINE
T. P.	428	19 42	3 60	15 14		
418+19S.			55	13 9	50' offset Line FB. 2100-266	Sand
			58	13 6	toe slope 29.0 L.	"
			14	18 0	" 39.0 L.	grd.
			51	14 3	brk.	Sand 71.0 R.
			104	9 0		" 39.0 R.
	174	9.52 ~~10.52~~ 46	8 16	11 26	Top	4' 1x2 89.0 R.
					↑ AT 413+19 50 FT. OFFSET W. SIGHT ON 418+19 50 FT OFF	
			200	10.5 ~~9.5~~	#1 50° 12'	EST. 1.5 OVER ROD 13.5
			190	9.5 ~~8.5~~	2 48 24	" 0.5 "
			172	7.7 ~~6.7~~	3 45 43	
			170	7.5 ~~6.5~~	4 43 33	
			153	5.8 ~~4.8~~	5 41 14	
			133	3.8 ~~2.8~~	6 37 52	
			120	2.5 ~~1.5~~	7 33 47	
			105	1.0 ~~0.0~~	8 28 54	
			90	0.5 ~~1.5~~	9 22 56	
			85	1.0 ~~2.0~~	10 19 16	
			59	3.6 ~~4.6~~	11 14 39	M.H.W.

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300002 Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of Hydro Survey
Notes Chk'd. CWA Checked ____ Survey by English Notes Carry Date 11-14-73
Date 1-18-74 Date ____ Map No. ____ Indexed C. E. BAILEY Date DEC 3 1973

F. B. 2829 Pg. 205

F. B. 2824 Pg. 206 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 8-70

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76L298 307 Cdb 12-

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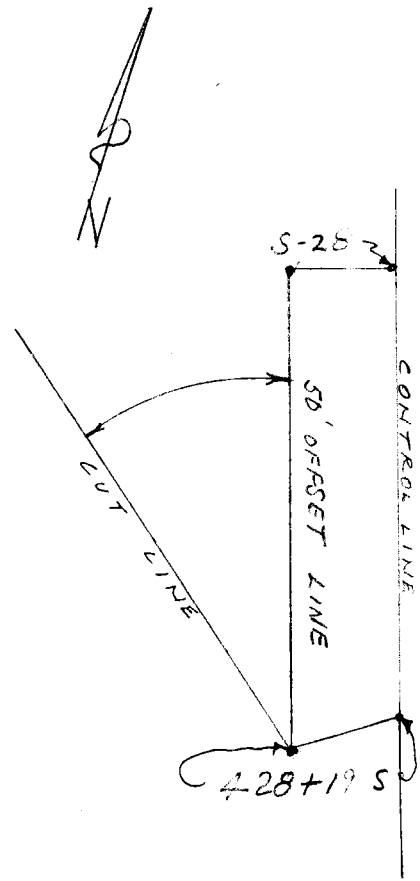
726 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Deg.	Range Min.	Card No
Don't Punch	Don't Punch	Don't Punch	Don't Punch	359	60			
428-19 S.	S-28 50' OFF	11:24	1	288	12	71	48	
			2	289	13	70	47	
			3	290	32	69	28	
			4	291	51	68	09	
			5	292	43	67	17	
			6	294	10	65	50	
			7	295	40	64	20	
			8	297	03	62	57	
			9	298	42	61	18	
			10	300	30	59	30	
			11	302	04	57	56	
			12	303	50	56	10	
			13	305	45	54	15	
			14	307	55	52	05	
			15	310	11	49	49	
			16	312	28	47	32	
			17	315	02	44	58	
			18	317	48	42	12	
			19	320	24	39	36	
			20	322	40	37	20	



RANGE = 418+19 S.

Profile Notes Red. Plotted Job No. 300.02 Division No. 11
No. Date Date Survey of HYDRO SURVEY
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes Date 11-14-73
No. Date Date Map No. Indexed by D. BAILEY Date DEC 3 1973

F. B. 2824 Pg. 20

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	359	60			
428+19 50'OFF	S-28 50'OFF		21	325	36	34	24	
			22	329	00	31	00	
			23	330	53	29	07	
			24	332	54	27	06	
			25	335	31	24	29	
		11:29	26	337	16	22	44	

RANGE 418+19 S.
(CONT)

F. B. 2824 PG. 208 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile
Survey of HYDRO. SURVEY Date Date No.
Survey by RICHARDS Notes RT. Notes Chkd. Checked X-Sec.
Indexed G. D. BAILEY Date DEC 3 1973 Date Date No.

76-L-298 CE 307 8-70

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M.L.L.W.	423+19S.
		19 42				(DIST. RT. FROM 60 FT OFF)
T.P.	458	19 72	428	1514		
423+19S.			60	137	50' offset Ln. F.B. 2100-266	Sand
			57	140	toe slope 27.0L.	"
			07	190	" 37.0L.	grt. (119' RT)
			53	144		brk. Sand 69.0 R.
			107	90		" 90.0 R.
	-056	1071	845	1127		top 4' 1x2 90.0 R.
					⊼ AT 418+19 50 FT. OFF W. SIGHT ON S 28, 50' W	
			61	46		117 FT. RT. M.H.W.
			100	07	#1 17° 46'	
			105	02	2 19 03	
			104	03	3 23 47	
			111	-04	4 27 07	
			123	-16	5 31 43	
			133	-26	6 34 53	
			151	-44	7 38 32	
			170	-63	8 42 13	
			175	-68	9 45 26	
			200	-93	10 47 24	EST. 1.5 OVER 18.5 ROD

Profile Notes Red ____ Plotted ____ Job No. 030002 Division No. ____ F.B. 2824 Pg. 209
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Chk'd. CWA Checked ____ Survey by Ehallsn Notes Caro Date 11-17-73
No. ____ Date 1-18-74 Date ____ Map No. ____ Indexed D. Bauer Date DEC 3 1973

F. B. 2829 Pg. 210 | 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 8-70

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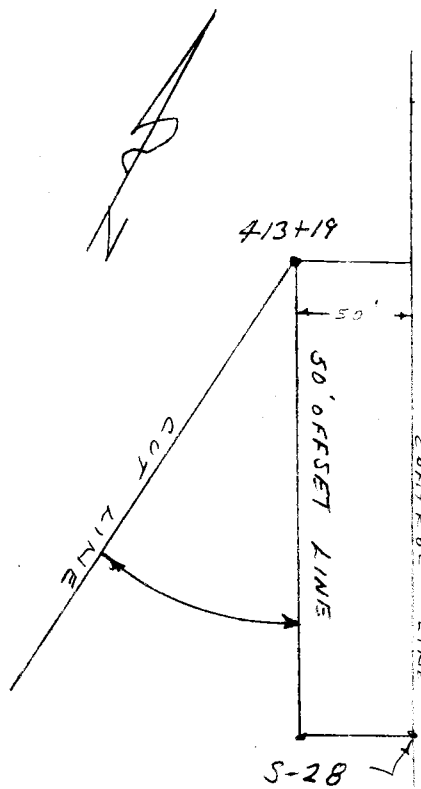
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

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					
413+19 50' OFF	S-28 50' OFF	11:45	1	66	50			
			2	65	34			
			3	64	59			
			4	64	14			
			5	63	29			
			6	62	28			
			7	61	30			
			8	60	23			
			9	59	16			
			10	58	08			
			11	57	03			
			12	55	56			
			13	54	22			
			14	52	57			
			15	51	08			
			16	49	30			
			17	47	49			
			18	45	47			
			19	43	47			
			20	41	15			



RANGE = 423+19 S.

Profile Notes Red. Plotted Job No. 300.02 Division No. 11 F. B. 2824 Pg. 211

No. Date Date Survey of HYDRO. SURVEY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes RT Date 11-14-73

No. Date Date Map No. Indexed G. D. BAILEY Date DEC 3 1973

CONTROL LINE

76L298 307 Cdb 12-62

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Do not extend notes this side of this line.

RANGE
423+19 S, (CONT)

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					
423+19 S, 50'OFF	S-28 50'OFF		21	38	53			
			22	36	11			
			23	34	05			
			24	32	16			
			25	30	21			
			26	28	09			
			27	26	05			
			28	24	12			
			29	22	38			
		11:51	30	20	42			

F. B. 2824 Pg. 212 Job No. 0300.02 Division No. 11 Notes Red. Plotted
Survey of HYDRO. SURVEY P.T. Date Date No.
Survey by RICHARDS Notes Date Profile
Indexed G. D. BAILEY Date DEC 3 1973 Notes Chkd. Checked X-Sec.
Date Date No.

76-L-298 CE 307 8-70

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Range Line

STATION	B. S.	H. I.	F. S.	ELEV. =	M. L. L. W.	428+19S.
		19 72				
T.P.	4 76	19 00	5 48	14 24		
428+19S			6 00	13 00	50' offset Ln. F.B. 2100-266 Sand	
			4 7	14 3	toe slope 50.0L.	"
		(+)	0 3	19 3	" 69.0L. grd. (hand level)	
			5 9	13 1	brk Sand	45.0 R.
			11 9	7 1	"	69.0 R.
	+ 1 35	10 67	9 68	9 32	Top 4' 1x2	69.0 R.
					⊼ 418+19S 50' W., SIGHT ON S 28, 50 FT W.	
			6 1	4 6	89 FT. RT M.H.W.	
			7 1	3 6	#1 12° 38'	
			8 4	2 3	2 14 27	
			9 7	1 0	3 16 53	
			11 1	-0 4	4 19 19	
			11 9	-1 2	5 21 14	
			12 6	-1 9	6 23 48	
			13 5	-2 8	7 25 39	
			15 3	-4 6	8 28 01	
			17 5	-6 8	9 30° 16'	

Profile Notes Red ____ Plotted ____ Job No. 03[illegible] Division No. ____
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chk'd. CWH Checked ____ Survey by [illegible] Notes [illegible] Date 11-14-73
No. ____ Date 1-18-74 Date ____ Map No. ____ Indexed G. D. BAILEY Date DEC 3 1973

F.B. 2824 PG. 213

F. B. 2829 Pg. 214 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.

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76-L-298 CE 307 8-70

76-L-298 CE 307 8-70

B.M. RETURN CHECK IN

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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.		
		19 00				
T.P.	446	19 57	389	1511	1+2	S+K
"	461	20 00	415	1539	"	"
"	445	19 93	452	1549	"	"
"	438	20 03	428	1565	"	"
"	420	19 49	414	1529	"	"
"	420	19 77	392	1557	"	"
"	442	19 91	428	1549	"	"
"	889	24 52	428	1563	"	"
T.B.M #1			257	2195	T.B.M #1 el = 22.00 F.B. 2100-154	

RETURN LEVELS FOR CHECK-IN

Profile Notes Red____ Plotted____ Job No.____ Division No.____
No.____ Date____ Date____ Survey of____
X-Sec. Notes Chk'd Cwp Checked____ Survey by____ Notes____ Date____
No.____ Date 1+18-74 Date____ Map No.____ Indexed R. D. BAILEY Date DEC 3 1974

F.B. 2224 PG. 215

F.B. 2829 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.	

76-L-298 CE 307 8-70

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76L298 307 Cdb 12-62

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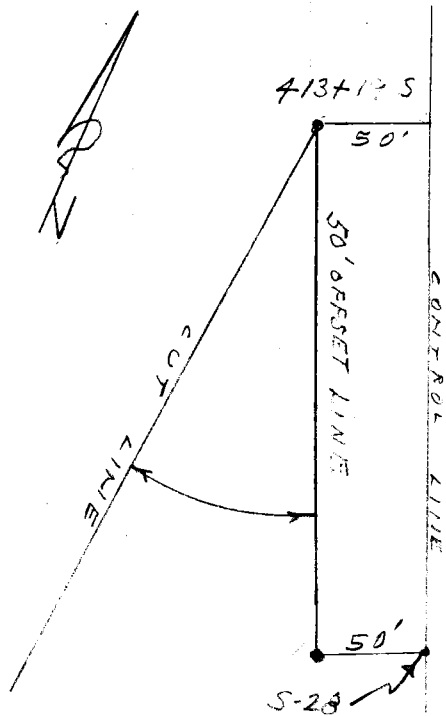
725 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Min.	For Office Use Only Range Deg.	Line Min.	Card No
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
413+19 S 50' OFF	S-28 50' OFF	12:01	1	55	56			
			2	55	00			
			3	54	03			
			4	52	38			
			5	51	38			
			6	50	13			
			7	48	34			
			8	47	18			
			9	45	58			
			10	44	50			
			11	42	51			
			12	41	26			
			13	39	28			
			14	37	42			
			15	35	51			
			16	33	42			
			17	31	43			
			18	28	53			
			19	26	54			
			20	25	18			



RANGE = 423+19 S.

Profile Notes Red. Plotted Job No. 3300.0 Division No. 11
No. Date Date Survey of HYDRO SURVEY
X-Sec. Notes Chkd. Checked Survey by R. HARRIS Notes Date 11-14-73
No. Date Date Map No. Index No. D. BAILEY Date DEC 3 1973

F. B. 2824 Pg. 217

76L298 307 Cdb 12-62

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F. B. 2824 Pg. 218 | Job No. 4300.02 | Division No. 11 | Notes Red. | Plotted | No.
Survey of HYDRO. SURVEY | Date | Date | X-Sec.
Survey by PICHARDS | Notes OCT | Notes Chkd. | Checked | No.
Indexed R.D. BAILEY | Date DEC 3 1973 | Date | Date

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
413+19 S 50' OFF	S-28 50' OFF		21	23	24			
			22	21	49			
			23	20	20			
			24	18	55			
			25	18	25			
		12:05	26	17	02			

RANGE 428+19 S.
CONT.

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of HYDROGRAPHIC SURVEY
JN 0300.02 Tape Std °F
Surveyed by RICHARDS
Notes HARRIET Date 11-14-73
Indexed DEC 3 1973

F. B. 2524 PG. 219

TIDE GAGE READINGS
NOV. 14, 1973
TIME - P.S.T.
DATUM - M.L.L.W.

TIME	TIDE
6:00	2.4
6:30	2.6
7:00	2.9
7:30	3.2
8:00	3.8
8:30	4.2
9:00	4.5
9:30	5.0
10:00	5.2
10:30	5.4
11:00	5.5
11:30	5.5
12:00	5.3
12:30	5.1
1:00	4.6
1:30	4.1
2:00	3.4

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

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

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DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

26F309S CE#310 3-68

PLEASE RETURN TO
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DEPARTMENT OF COUNTY ENGINEER
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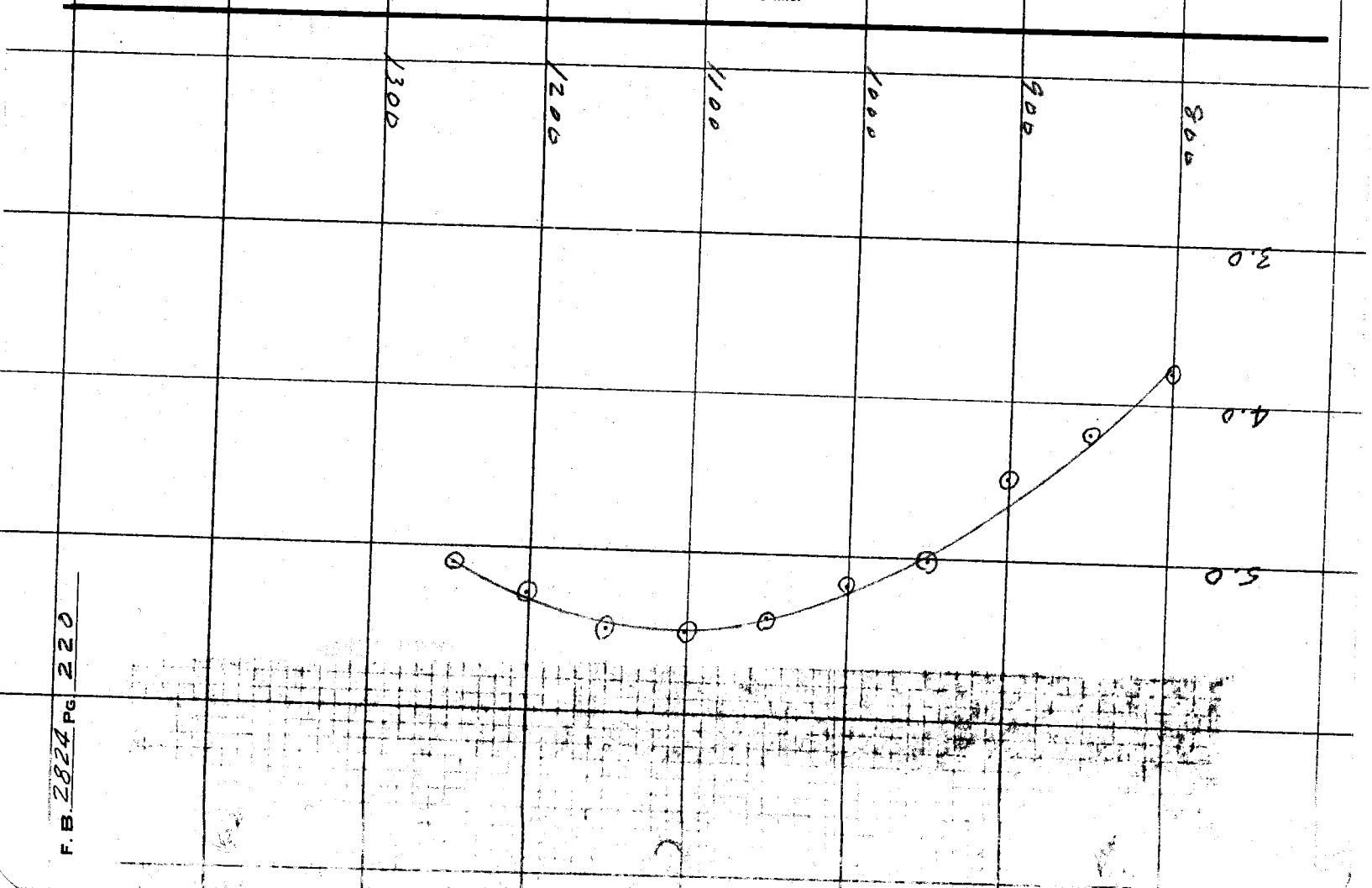

F.B. 2824 PG. 220