Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 | F. B. 2307 Pg. 5

Date ____ Date ____ Survey of Beach Erosion

X-Sec. ____ Notes Chkd. ____ Checked ____ Survey by Van Deren Notes Van Date 7-14-58

Date ____ Date ____ Map No. ____ Indexed ____

J.N. 0300.02

BEACH EROSION SURVEY

Malaga Cove to Hyperion.

From 418+19 South To 6+00 North

See FB 2307-2308-2309-2310

(worked on daylight Saving time)

Remarks

7-14-58

M.A. Van Deren

K. Kvammen

V. Anderson

J. Bazen

R. Turrill

T.C. Peterson

R.A. Moore

V.F. Lieber

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

Inst. At | Sight On | Depth # Rec. | Adj. | Time | Hor. Ang.

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 700 Los Angeles County Engineering Bldg.

Do not extend notes this side of this line.

F. B. 2307 Pg. 6 Job No. 10 Division No. Notes Red. Plotted Profile

Survey of Beach Erosion Date 7-14-58 Date No.

Survey by Van Deren Notes Notes Chkd. Checked X-Sec.

Indexed K. C. Johnson Date Date Date No.

7-14-58

3.0 on Datum Line

standard Time Gage time	Reading	P.D.S.T.
6.00 AM	3.0	7-00
6.30 "	3.5	7-30
7.00 "	3.8	8-00
7.30 "	4.1	8-30
8-00 "	4.2	9-00
8-30 "	4.1	9-30
9-00 "	4.0	10-00
9-30 "	3.9	10-30
10-00 "	3.7	11-00
10-30 "	3.5	11-30
11-00 "	3.2	12-00
11-30 "	3.0	12-30
12.00 "	2.8	1-00
12-30 PM	2.7	1-30
1-00 "	2.6	2-00
1-30 "	2.7	2-30
2-00 "	2.8	3-00
2-30 "	3.0	3-30
3-00 "	3.5	4-00

Time Check on Tide Gage

Gage Time	P.D.S.T
9.43	10-45

STATION | B.B. | H.I. | F.B. | ELEV.

Inst. Sight Depth
At On # Rec. Adj. Time Hor. Ang.

Remarks

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76298 S & K #307—7-55

76F309S CE #247—8-57

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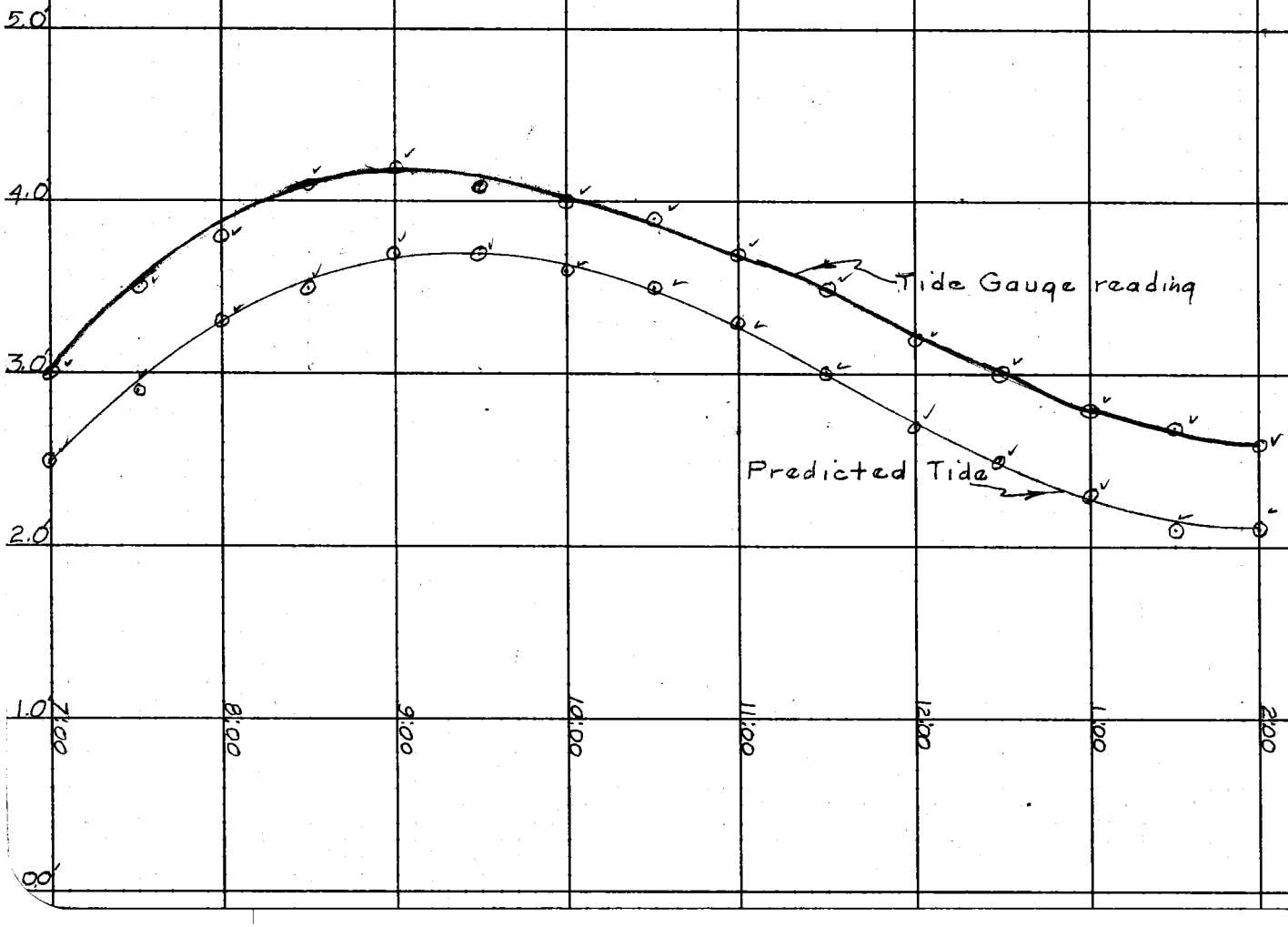

Notes Ck'd by
Map No.
Office Work L. Manley
Checked J.S.H.
Date 9-4-58

Survey of 0300.02
JN
Tape Std °F
Surveyed by
Notes Van Dorsen Date 7-14-58
Indexed

F. B. 2307 Pg. 6-A

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 415+69	Sight on 418+19
T.B.M. #1	1 19	23 19		22 00	T.B.M. #1, el = 22.002, F.B. 2100-154	
405+69	2 51	13 78	11 92	11 27	control	line
408+19	3 43	13 66	3 55	10 23	"	" Inshore
410+69	3 44	14 82	2 28	11 38	"	" 418+19
413+19	1 49	14 55	1 76	13 06	"	"
415+69	1 81	12 83	3 53	11 02	"	"
418+19	0 25	10 29	2 79	10 04	"	"
			+2 7	13 5	16' L B.B.	
T.P.	2 43	7 78	4 94	5 35		51' R.
			5 0	2 8		17° 34' 79'
			6 3	1 5		25 42 120'
			7 4	0 4		33 46 167'
			8 5	-0 7		41 15 219'
			10 3	-2 5		47 13 2[illegible]
			12 6	-4 8		52 51 330'
			13 6	-5 8		55 52 369'
			13 9	-6 1		58 47 413'
			14 1	-6 3		61 12 455'
T.P.	2 86	7 71	2 93	4 85		
413+19			+5 35	13 06		

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 7
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Sur.
Notes Chkd. ____ Checked ____ Survey by English Notes Ed. Date 7-14-58
Date ____ Date ____ Map No. ____ Ind. Ed. C. Johnson

76298 S & E #307—7-55

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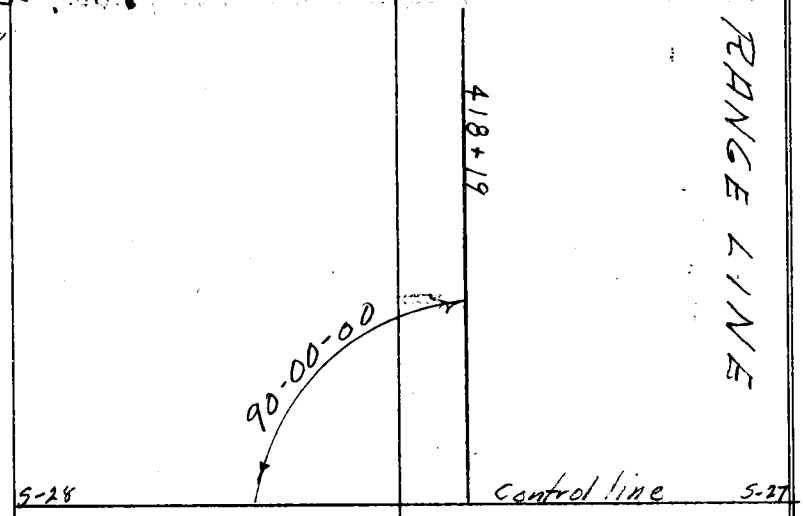
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
418+19	S-28			8:04	90°00'00"	
#1					" "	
#2					" "	
#3					" "	
#4					" "	
#5					" "	
#6					" "	
#7					" "	
#8					" "	
#9					" "	
#10					" "	
#11					" "	
#12					" "	
#13					" "	
#14					" "	
#15					" "	
#16					" "	
#17					" "	
#18					" "	
#19					" "	



RANGE LINE

Profile Notes Red_____ Plotted_____ Job No. 0300 Division No. 10 F. B. 2307 Pg. 9
No._____ Date_____ Date_____ Survey of BEACH EROSION
X-Sec. Notes Chkd._____ Checked_____ Survey by VAN DAGEN Notes V.K. Date 7-14-58
No._____ Date_____ Date_____ Map No._____ Index C. [illegible]

76298 S & E #307—7-55

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
418+19	S-28				90°		
#20					" "		
#21					" "		
#22					" "		
#23				8:08	" "		

F. B. 2307 Pg. 10 Job No. 2300.02 Division No. 10 Notes Red. Plotted Profile
Survey of BEACH EROSION Date 7-14-58 Date No. X-Sec.
Survey by VAN DAREN Notes V.L. Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.

76298 S & E #307—7-55

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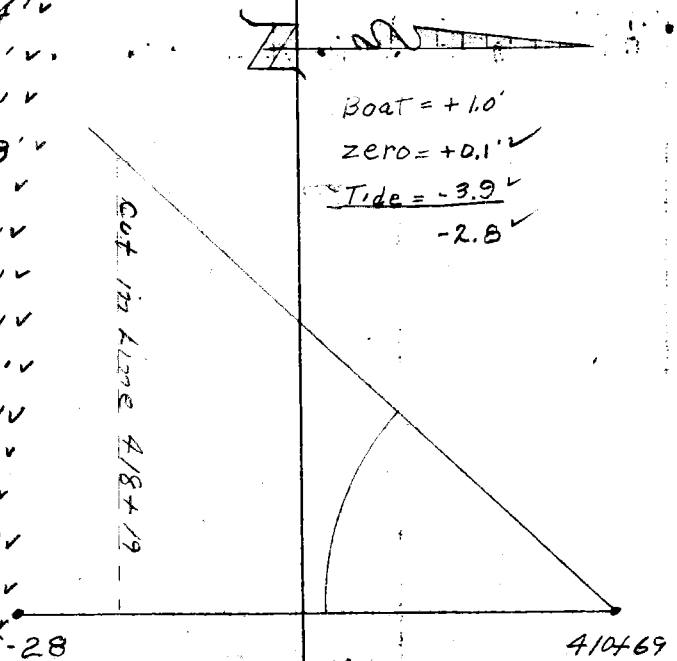
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
410+69	S-28	1	33.6	30.8	04	67° 40	1826' Cut in Line 418+19
		2	30.7	27.9		66° 18'	1709'
		3	29.6	26.8		64° 56	1604'
		4	29.0	26.2		64° 08'	1547'
		5	28.7	25.9		63° 10'	1483'
		6	27.0	24.2		61° 36'	1388'
		7	26.0	23.2		60° 05'	1304
		8	24.4	21.6		58° 57'	1246'
		9	23.8	21.0		57° 35'	1181'
		10	23.7	20.9		56° 09'	1118'
		11	22.6	19.8		54° 39'	1058'
		12	21.0	18.2		52° 39'	983'
		13	20.0	17.2		50° 39'	915'
		14	17.6	14.8		48° 40'	853'
		15	15.9	13.1		46° 13'	782'
		16	15.0	12.2		43° 42'	717'
		17	13.6	10.8		41° 36'	666 S-28
		18	12.6	9.8		39° 20'	614'
		19	11.5	8.7		37° 11'	569'
		20	11.3	8.5		34° 40'	519'



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2307 PG. 11
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deven Notes J.T. Date 7-14-58
No. Date Date Map No. Indexed C. Johnson

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		21	10.0	7.2		32° 14'	473'	Cut in Line 418+19
		22	8.9	6.1		30° 06'	435'	
		23	8.6	5.8	8:08	27° 28'	390'	
								Boat = +1.0'
								zero = +0.1'
								Tide = -3.9
								-2.8
410+69	S-28							

F. B. 2307 Pg. 12 Job No. 03002 Division No. 10 Notes Red. Plotted No. Profile
Survey of Beach Erosion Study Date 7-14-58 Date X-Sec.
Survey by Van Deren Notes Ralph Turrill Notes Chkd. Checked No.
Indexed [illegible] Date Date Date

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. st. 415+69	Sight on 413+19
413+19	1 00	14 06		13 06	FROM INSHORE 418+19	
			+10	15 06	10 FT LEFT TOE OF SLOPE	Inshore
	0 9	6 8	82	5 9	50 FT RIGHT	413+19
			6 9	-0 1		23° 11 107'
			8 0	-1 2		31 36 154'
			8 7	-1 9		45 50 258'
			12 4	-5 6		53 16 335'
			17 5	-10 7		58 39 411'

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 13
No. ____ Date ____ Date ____ Survey of Beach Erosion Sur.
X-Sec. Notes Chkd. ____ Checked ____ Survey by Draper & English Notes ____ Date 7-14-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Jan[illegible]

76298 S & E #307—7-55

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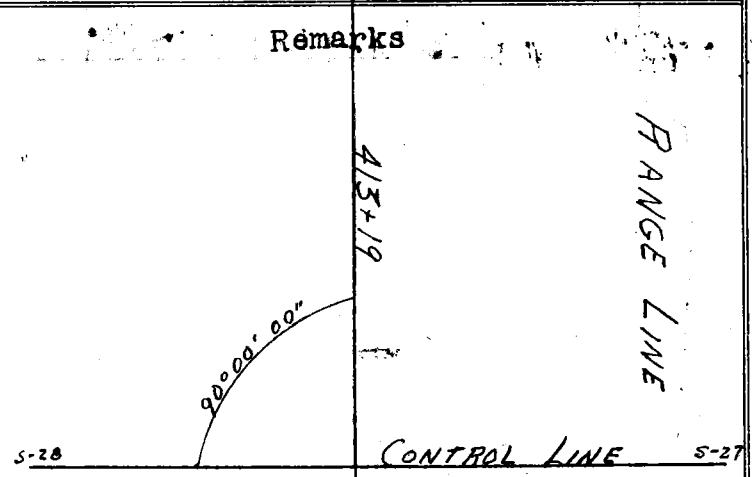
Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Remarks	
413+19	S-28				8:23	90° – –		
#1						" "		
2						" "		
3						" "		
4						" "		
5						" "		
6						" "		
7						" "		
8						" "	S-28	CONTROL LINE S-27
9						" "		
10						" "		
11						" "		
12						" "		
13						" "		
14						" "		
15						" "		
16						" "		
17						" "		
18						" "		
19						" "		



Profile Notes Red. ____ Plotted ____ Job No. 03000 Division No. 10 F. B. 2307 Pg. 15
No. ____ Date ____ Date ____ Survey of BEACH FRONTAGE
X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date 7-14-58
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76298 S & E #307—7-55

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F. B. 2307 PG. 16 Job No. 0300-02 Division No. 10 Notes Red Plotted Profile No.
Survey of BEACH EROSION Date 7-14-58 Date X-Sec. No.
Survey by VAN DAREN Notes V. L. Notes Chkd. Checked
Indexed L. C. Johnson Date Date Date

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	# Rec	Depth Adj.	Time	Hor. Ang.		Remarks
413+19 / 5-28				90° —		
20				" "		
21				" "		
22				" "		
23			8:28	" "		

76298 S & E #307—7-55

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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 Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
403+19	S-28	1	32.0	28.9	8 23	57° 57'	1597' Cut in Line 413+19
		2	30.4	27.3		56° 18'	1499'
		3	28.4	25.3		54° 58'	1426'
		4	27.7	24.6		53° 37'	1357'
		5	26.4	23.3		51° 53'	1275'
		6	26.2	23.1		50° 24'	1209'
		7	24.5	21.4		48° 58'	1149'
		8	23.3	20.2		46° 28'	1053'
		9	21.3	18.2		44° 28'	982'
		10	19.0	15.9		41° 54'	897'
		11	17.7	14.6		39° 50'	834'
		12	16.9	13.8		37° 58'	780'
		13	15.8	12.7		36° 10'	731'
		14	14.2	11.1		34° 07'	677'
		15	13.2	10.1		32° 37'	640'
		16	12.3	9.2		30° 24'	587'
		17	11.3	8.2		28° 27'	542'
		18	10.6	7.5		26° 22'	496' S-28
		19	10.2	7.1		24° 30'	456'
		20	9.2	6.1		22° 54'	422'

Boat = +1.0
zero = +0.0
Tide = -4.1
-3.1

Cut in Line 413+19

403+19

Profile Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 10 F. B. 2307 Pg. 17
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 7-14-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

76298 S & E #307—7-55

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F. B. 2307 Pg. 18 | Job No. 0200.02 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Study Date 7-14-58 Date No. Profile
Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.
Indexed Date Date Date No.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		21	8.5	5.4'		20° 37'	376'	
		22	7.7	4.6'		19° 26'	353'	Cut in Line 413+19
		23	6.3	3.2'	8:28	17° 20'	312'	
403+19	S-28							

Boat = +1.0'
zero = +0.0'
Tide = -4.1'
-3.1'

76L298 S & E #307 9-54

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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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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 405+69	Sight on 408+19
STA 413+19	1 00	14 06		13 06	SEE INSHORE 418+19	
T.P.	5 51	16 8	2 68	11 38	STAT. 410+69	Inshore
408+19			66	10 35		408+19
			41	12 8	30 FT LEFT TOE OF SLOPE	
			26	14 35	52 FT BRK	
T.P.	16	8 5	100	6 9	38.5 FT RIGHT	
			7 6	+0 9		21° 34' 99'
			8 2	+0 3		32° 45' 161'
			9 0	-0 5		39 04 203'
			10 1	-1 6		44 21 245'
			11 6	-3 1		49 14 290'
			13 3	-4 8		53 40 340'
			14 4	-5 9		56 56 384'
			16 1	-7 6		61 18 457'

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 19
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Sur.
Notes Chkd. ____ Checked ____ Survey by Dieter & English Date 7-14-58
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76298 S & E #307—7-55

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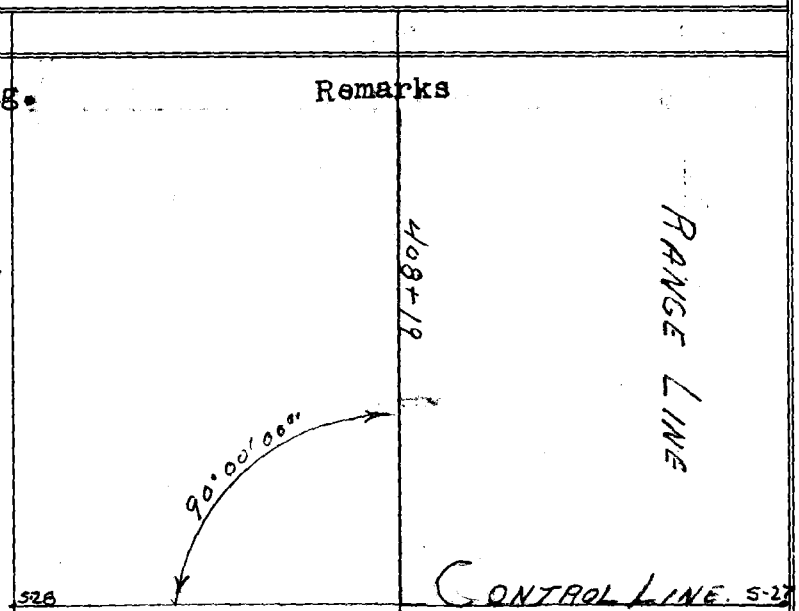
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
408+19	S-28			8:39	90° --		
#1					" "		
2					" "		
3					" "		
4					" "		
5					" "		
6					" "		
7					" "		
8					" "		
9					" "		
10					" "	S28	CONTROL LINE. S-27
11					" "		
12					" "		
13					" "		
14					" "		
15					" "		
16					" "		
17					" "		
18					" "		
19					" "		

408+19

90°00'00"

RANGE LINE



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 21
No. Date Date Survey of BEACH EROSION
X-Sec. Notes Chkd. Checked Survey by VAN DAREN Notes V.L. Date 7-14-58
No. Date Date Map No. Indexed C. Johnson Date

F. B. 2307 Pg. 22 | Job No. 0300.02 Division No. 10 | Notes Red. | Plotted | Profile

Survey of BEACH EROSION | Date 7-14-58 | Date | No.

Survey by VAN DAREN Notes V. L | Notes Chkd. | Checked | X-Sec.

Indexed C. Johnson Date | Date | Date | No.

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	# Depth Rec. Adj.		Time Hor. Ang.		
468+19 S-28			90° —		
20			" "		
21			8:44 " "		

76298 S & E #307—7-55

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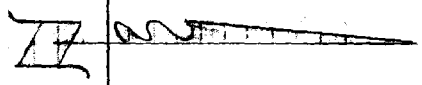
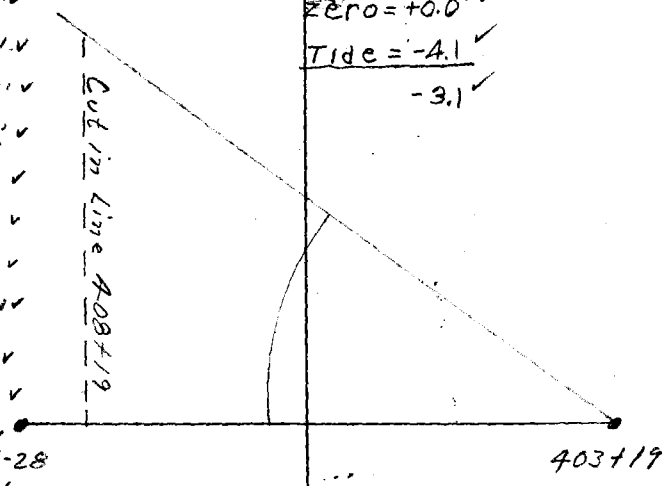
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.		Remarks
		1	32.2 29.1	8:39	72° 26'	1580'	Cut in Line 408+19
		2	31.0 27.9		71° 50'	1524'	
		3	30.1 27.0		70° 28'	1410'	
		4	28.3 25.2		69° 28'	1335'	
		5	26.4 23.3		68° 16'	1255'	
		6	25.7 22.6		66° 58'	1176'	
		7	24.4 21.3		65° 25'	1093'	
403+19	S-28	8	23.5 20.4		64° 34'	1052'	
		9	22.3 19.2		62° 51'	975'	
		10	20.6 17.5		60° 15'	875'	
		11	18.2 15.1		57° 45'	793'	
		12	16.4 13.3		55° 23'	725'	
		13	15.0 11.9		53° 30'	676'	
		14	13.4 10.3		51° 04'	619'	
		15	12.5 9.4		48° 33'	566'	
		16	11.4 8.3		46° 00'	518'	
		17	10.5 7.4		43° 28'	474'	S-28
		18	9.4 6.3		40° 00'	420'	
		19	8.3 5.2		35° 58'	363'	
		20	7.3 4.2		33° 04'	326'	



Boat = +1.0'
Zero = +0.0'
Tide = -4.1
-3.1



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 23
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 7-14-58
No. Date Date Map No. Indexed C. John

F. B. 2307 Pg. 24 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 7-14-58 Date No.

Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.

Indexed C. Johnson Date Date Date No.

76298 S & E #307—7-55

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	Depth # Rec. Adj.		Time Hor. Ang.			Remarks
403+19						
S-28						
	21 6.3	3.2	8:44	30° 10'	291.1'	Cut in Line 408+19
						Boat = +1.0'
						zero = +0.0'
						Tide = -4.1'
						-3.1'

76L298 S & E #307 9-54

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 405+69	Sight on 403+19
T. P.	5 51	16 89		11 38	STAT 410+69	SEE INSHORE 408+19
T. P.	9 69	22 17	4 41	12 48		Inshore
403+19			104	118		403+19
			60	162	50 FT. LEFT	
			30	192	70 " "	
			123	2094	74 FT LEFT ON CONC. DRIVE	
T.P.	0 3	8 4	141	81	34 FT RIGHT	
			5 3	31	17°05' 77'	
			8 5	-0 1	23 05 107'	
			8 3	+0 1	29 50 143'	
			8 8	-0 4	35 43 180'	
			9 1	-0 7	40 19 212'	
			10 7	-2 3	46 20 262'	
			13 1	-4 7	50 54 308'	
			14 2	-5 8	56 20 375'	
			15 9	-7 5	59 17 421'	

Profile Notes Red ____ Plotted ____ Job No. 030002 Division No. 10 F. B. 2307 Pg. 25
No. ____ Date ____ Date ____ Survey of Beach & Erosion Sur.
X-Sec. Notes Chkd. ____ Checked ____ Survey by Dreier & Notes Date 7-14-58
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

76298 S & E #307—7-55

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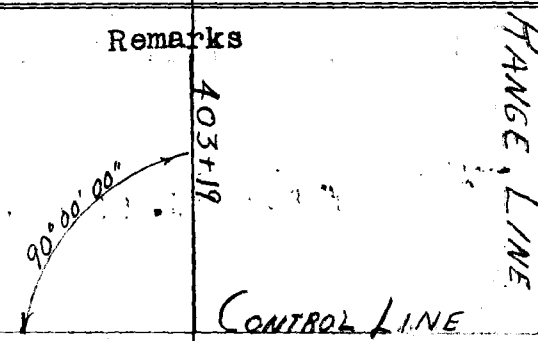
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
403+19	S-28				8:56	90° —	
#1						"	
2						"	
3						"	
4						"	
5						"	S-28 CONTROL LINE S-27
6						"	
7						"	
8						"	
9						"	
10						"	
11						"	
12						"	
13						"	
14						"	
15						"	
16						"	
17						"	
18						"	
19						"	



Profile No. ___ Notes Red. ___ Plotted ___ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 27
Date ___ Date ___ Survey of BEACH EROSION
X-Sec. No. ___ Notes Chkd. ___ Checked ___ Survey by VAN DAREN Notes VL Date 7-14-58
Date ___ Date ___ Map No. ___ Indexed C. Jennings Date ___

F. B. 2307 Pg. 28 Job No. 030002 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION Date 7-14-58 Date No.

Survey by VAN [illegible] Notes VL. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On		Depth # Rec. Adj.	Time	Hor. Ang.		Remarks
40344 5-28				90° —		
20				" "		
21			9.01	" "		

76298 S & E #307—7-55

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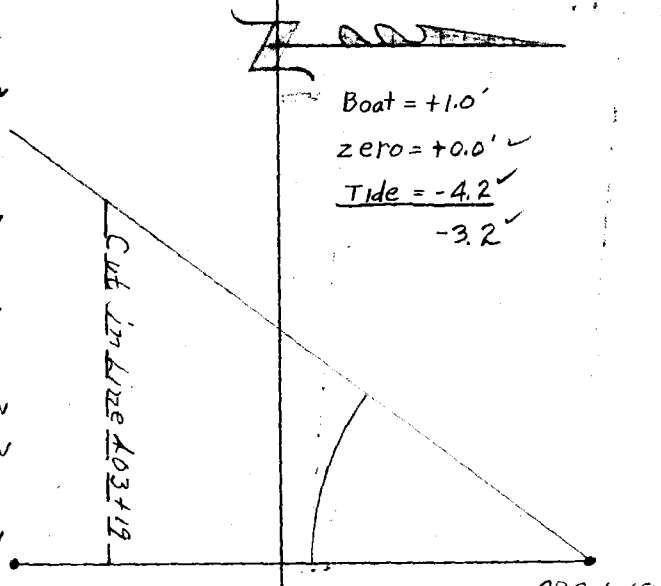
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
393+19	S-28	1	—		8:56	57° 32'	
		2	32.5	29.3		55° 51'	1474' Cut in Line 403+19
		3	30.8	27.6		54° 00'	1376'
		4	29.6	26.4		52° 02'	1282'
		5	27.5	24.3		49° 43'	1180'
		6	26.2	23.0		48° 05'	1114'
		7	24.7	21.5		46° 10'	1042'
		8	23.2	20.0		43° 31'	950'
		9	21.2	18.0		40° 03'	841'
		10	19.6	16.4		37° 23'	764'
		11	18.2	15.0		35° 22'	710'
		12	16.6	13.4		33° 30'	662'
		13	15.2	12.0		31° 31'	613'
		14	13.7	10.5		29° 15'	560'
		15	13.0	9.8		27° 43'	525'
		16	11.7	8.5		25° 11'	470'
		17	10.9	7.7		23° 03'	426'
		18	9.4	6.2		21° 15'	389' S-28
		19	8.4	5.2		19° 30'	354'
		20	7.8	4.6		18° 22'	332'



Profile Notes Red. ____ Plotted ____ Job No. 03000.02 Division No. 10 F. B. 2307 Pg. 29
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Dorn Notes JRT Date 2-14-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. [illegible]

F. B. 2307 Pg. 30 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 7-14-58 Date No.

Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	# Rec. Adj.	Depth	Time	Hor. Ang.	Remarks	
393+19						
S-28	21	—	9:01	16°32		
					Cut in Line 403+19	

76L298 S & E #307 9-54

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 395+69	Sight on 398+19
T.P.	969	22 17		12 48	T.P. 2nd LINE ON STAT. 403+19	
T.B.M. #1	0 16	22 16	0 17	22 00	T.B.M. #1 F.B. 2100-154	Inshore
T.P.	766	18 92	10 90	11 26	T.P. 400+69	398+19
398+19			6 3	12 6		
			4 9	14 0	12 FT. LEFT	
			2 5	16 4	47 " " TOE OF SLOPE	
T.P.	0 2	8 0	11 07	7 85	43 FT. RIGHT	
			4 9	3 1	18° 21' 83'	
			7 3	2 7	27 06 128'	
			7 9	+0 1	33 22 165'	
			8 3	-0 3	38 10 197'	
			9 7	-1 7	43 43 239'	
			12 1	-4 1	49 46 296'	
			14 2	-6 2	55 25 363'	
			16 1	-8 1	60 40 445'	

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 31
No. ____ Date ____ Date ____ Survey of Beach Erosion Sur.
X-Sec. Notes Chkd. ____ Checked ____ Survey by English & Preier Date 7-1458
No. ____ Date ____ Date ____ Map No. ____ Indexed E. Jones Date ____

76298 S & E #307—7-55

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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 Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
398+19	5-28				9:11	90° - -	
#1						" "	
2						" "	
3						" "	
4						" "	
5						" "	
6						" "	
7						" "	5-28
8						" "	
9						" "	
10						" "	
11						" "	
12						" "	
13						" "	
14						" "	
15						" "	
16						" "	
17						" "	
18						" "	
19						" "	

RANGE LINE

398+19

90°00'00"

CONTROL LINE 5-27

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 33
No. ____ Date ____ Date ____ Survey of BEACH EROSION
X-Sec. Notes Chkd. ____ Checked ____ Survey by VAN DAREN Notes VL Date 7-14-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

76298 S & E #307—7-55

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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.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
398+19	5-28				90° —		
20					" "		
21					" "		
22				9:17	" "		

F. B. 2307 Pg. 34 Job No. 0300.02 Division No. 10 Notes Red. Plotted No. Profile
Survey of BEACH EROSION Date 7-14-58 Date X-Sec.
Survey by VAN DAREN Notes VL Notes Chkd. Checked No.
Indexed C. Johnson Date Date Date

76298 S & E #307—7-55

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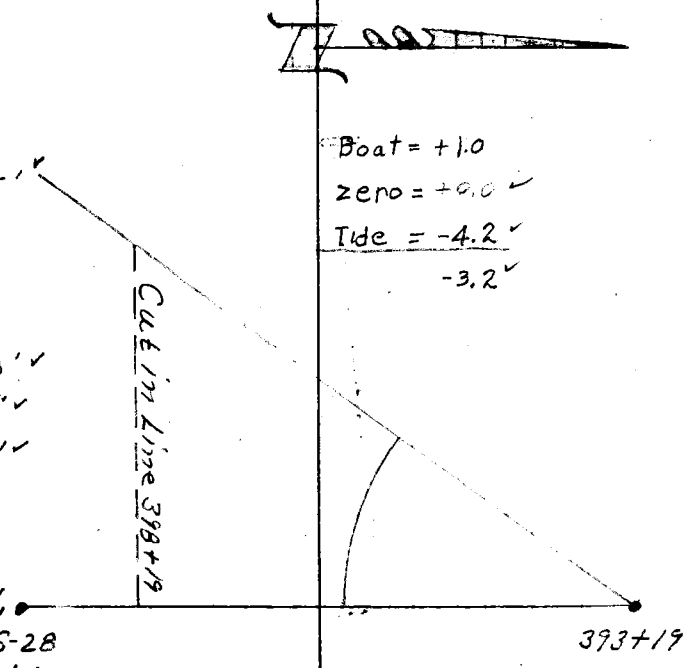
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		1	—		9:11	72° 26'	
		2	—			70° 16'	Cut in Line 398+19
		3	—			69° 12'	
		4	—			66° 46'	
		5	—			63° 57'	
		6	—			61° 20'	
		7	—			60° 00'	
393+19	S-28	8	21.3	18.1		57° 49'	795'
		9	—			56° 16'	
		10	—			55° 09'	
		11	—			53° 24'	
		12	16.3	13.1		51° 29'	628'
		13	15.3	12.1		49° 43'	590'
		14	14.3	11.1		48° 01'	556'
		15	—			46° 35'	
		16	—			44° 11'	
		17	—			42° 08'	
		18	10.7	7.5		39° 34'	413'
		19	9.7	6.5		37° 28'	383'
		20	8.7	5.5		35° 21'	355'



Boat = +1.0
zero = +0.0
Tide = -4.2
-3.2

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 35
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 7-19-58
No. Date Date Map No. Indexed C. Johnson Date

76298 S & E #307—7-55

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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.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		21	7.7	4.5		33° 00	325'	
		22	7.3	4.1	9:17	30° 14	292'	Cut in Line 398+19
393+19	S-28							

Boat = +1.0
zero = +0.0
Tide = -4.2
-3.2

F. B. 2307 Pg. 36 Job No. 0300.02 Division No. 10 Notes Red. Plotted Date 7-14-58 Date No. Profile
Survey of Beach Erosion Study Date No. X-Sec.
Survey by Van Deren Notes R.T. Notes Chkd. Checked Date No.
Indexed A. C. Johnson Date

76L298 S & E #307 9-54

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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.	Inst. at 393+69	Sight on 393+19
T.P.	10 63	18 48		7 85	T.P. 43 FT RT. STAT. 398+19	
393+19			44	14 1		Inshore
			26	15 9	45 FT LEFT TOE OF SLOPE	393+19
			48	13 7	7 " RIGHT, BRK	
T.P.	0 4	8 9	10 01	8 47	41 " "	
			6 1	2 8	19° 28' 88'	
			0 2	-1 3	25 15 118'	
			9 0	-0 1	30 23 147'	
			9 1	-0 2	37 22 191'	
			9 8	-0 9	42 00 225'	
			11 2	-2 3	45 39 256'	
			12 8	-3 9	49 56 297'	
			14 7	-5 8	54 49 355'	
			16 8	-7 9	58 46 412'	

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 37
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd ____ Checked ____ Survey by Engineer Date 7-14-58
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ N. C. Johnson

76298 S & E #307—7-55

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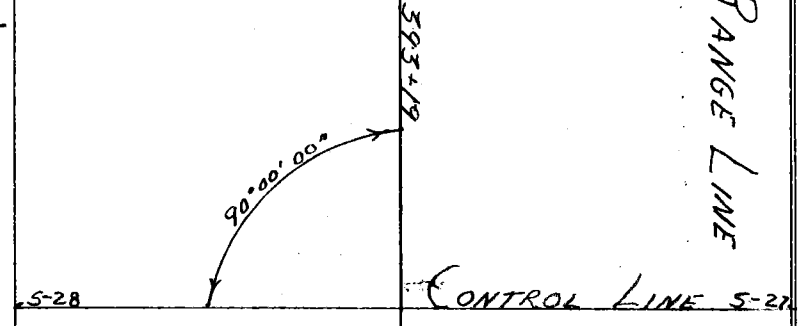
STATION Inst. At	Sight On	S. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor.	Ang.	Remarks
393+19	5-28				9:40	90°	—	
#1						"	"	
2						"	"	
3						"	"	
4						"	"	
5						"	"	
6						"	"	
7						"	"	
8						"	"	
9						"	"	
10						"	"	
11						"	"	
12						"	"	
13						"	"	
14						"	"	
15						"	"	
16					9:44	"	"	



RANGE LINE

Profile Notes Red. ____ Plotted ____ Job No. 0300-03 Division No. 10 F. B. 2307 Pg. 39
No. ____ Date ____ Date ____ Survey of BEACH EROSION
X-Sec. Notes Chkd. ____ Checked ____ Survey by VAN DREEN Notes VL Date 7-14-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. J. Johnson Date ____

F. B. 2307 Pg. 40 | Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION Date 7-14-58 Date _____ No. _____

Survey by VAN DAREN Notes VL Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.

76298 S & E #307—7-55

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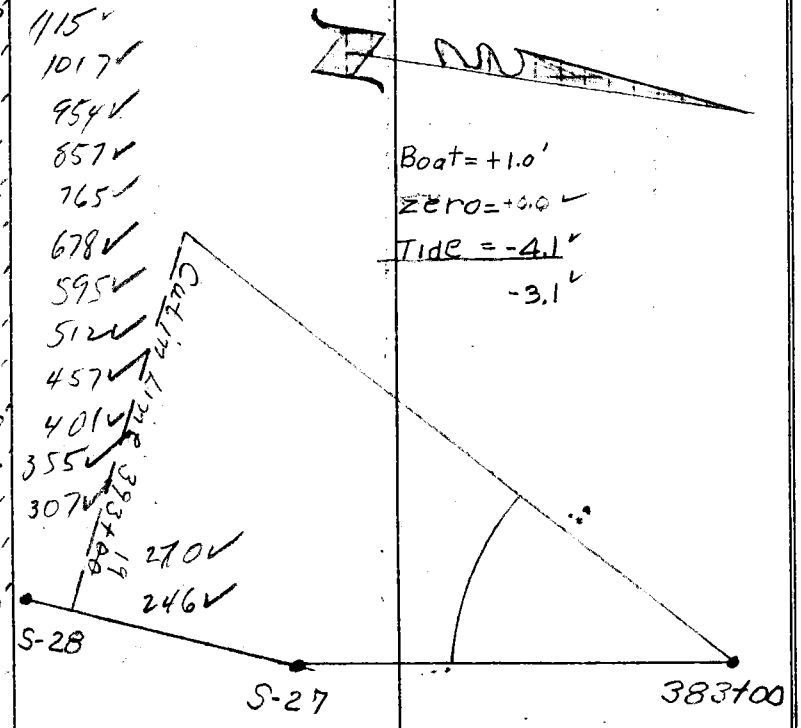
Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Remarks	
		1	30.2	27.1	9:40	55° 10'	1296	
		2	29.3	26.2		53° 36'	1227	Cut in Line 393+19
		3	28.6	25.5		50° 49'	1115	
		4	26.9	23.8		48° 04'	1017	
		5	25.6	22.5		46° 10'	954	
		6	24.2	21.1		43° 00'	857	Boat = +1.0'
383+00	S-27	7	22.5	19.4		39° 43'	765	Zero = +0.0
		8	—			36° 21'	678	Tide = -4.1
		9	—			32° 50'	595	-3.1
		10	—			29° 07'	512	
		11	12.5	9.4		26° 31'	457	
		12	11.3	8.2		23° 48'	401	
		13	9.9	6.8		21° 28'	355	
		14	8.2	5.1		19° 00'	307	
		15	6.5	3.4		17° 00'	270	
		16	5.7	2.6	9:44	15° 50'	246	
		17						
		18						
		19						
		20						



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 41
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Degen Notes R.T. Date 7-14-58
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2307 Pg. 42 | Job No. 0300.02 Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion Study | Date 7-14-58 | Date | No.

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

Indexed K. C. Johnson | Date | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
383+00					
S-27					

Inst. Sight At On # Depth Rec. Adj. Time Hor. Ang.

Cut in line 393+19

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76298 S & E #307—7-55

Profile	Notes Red.	Plotted	Job No. 6300.02	Division No. 10	F. B. 2307	Pg. 43
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J. B	Date 7-16-58	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	

7-16-58

3.00 on Datum Line

Time Check Gage 9.58 P.D.S.T. 11.00

Station	Standard Time / Gage Time	Reading	P.D.S.T.	
Remarks	5-00 AM	- 0.35	6.00	
	5-30 "	+ 0.20	6.30	
	6-00 "	0.30	7.00	
	6-30 "	1.15	7.30	
	7-00 "	1.8	8.00	
	7-30 "	2.55	8.30	
	8-00 "	3.0	9.00	
	8-30 "	3.6	9.30	
	9-00 "	3.9	10.00	
	9-30 "	4.1	10.30	
	10-00 "	4.4	11.00	
ELEV. Hor. Ang.	10-30 "	4.5	11.30	
	11-00 "	4.4	12.00	
	11-30 "	4.3	12.30	
F. S. Time	12-00 "	3.9	1.00	
	12-30 PM	3.5	1.30	
H. I. Depth	1-00 "	3.2	2.00	
	High 9.58		Low 11.00	
B. S. # Rec. Adj.	4.9		4.0	
STATION Inst. Sight At On				

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
700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

76298 S & E #307—7-55

F. B. 2307 Pg. 44 Job No. 0300 00 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

Survey by Van Dorn Notes J. Blanchard Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.	

Do not extend notes this side of this line.

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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76298 S & E #307—7-55

76F309S CE #247—3-57

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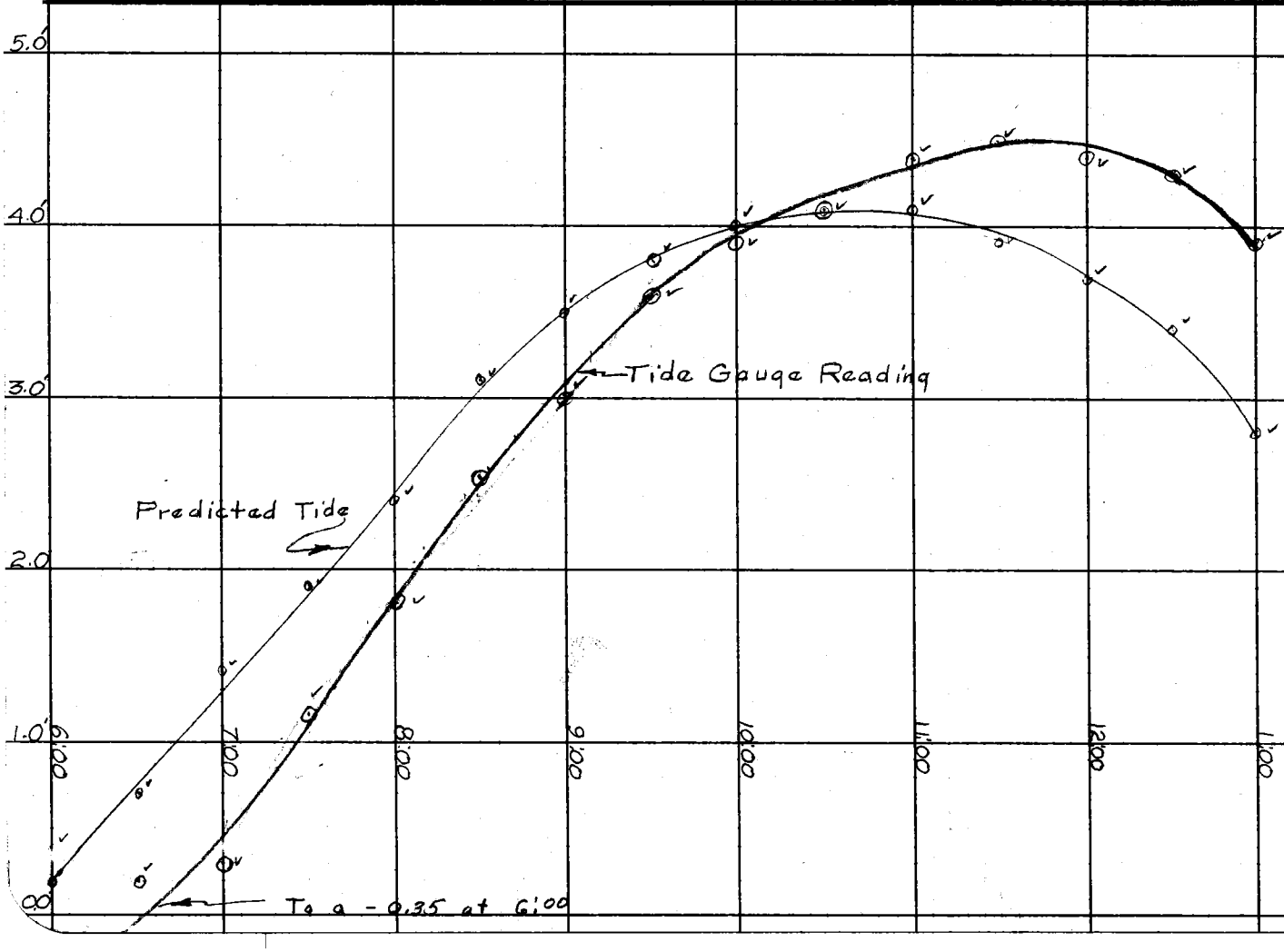

Notes Ck'd by
Map No.
Office Work L. Manley
Checked J.S.H.
Date 9-4-58

Survey of 0300.02
JN Tape Std °F
Surveyed by Van Duran
Notes
Indexed Date 7-16-58

F.B. 2307 PG. 43A

76L298 S & E #307 9-54

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.

STATION	B. S.	H. I.	F. S.	ELEV.	Sight on 388+00	Inst. at 385+50
T.P.	9 74	18 21		8 47	41 FT RT, STAT. 393+19	
B.M. S-27	4 79	14 54	8 46	9 75		Inshore
388+00			1 9	12 6	Control Line	388+00
			0 0	14 5	30' L T.S.	
			3 9	10 6	30 R. Brk.	
T.P.	1 30	6 10	9 74	4 80	15° 26' 69'	
			4 8	+1 3	26° 01' 122'	
			8 5	-2 4	34° 17' 171'	
			7 1	-1 0	38° 36' 200'	
			8 1	-2 0	43° 58' 241'	
			11 4	-5 3	53° 48' 342'	
			12 0	-5 9	56° 39' 38[illegible]	
			12 6	-6 5	58° 48' 413'	
T.P.			2 [illegible]	3 35		

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 45
No. ____ Date ____ Date ____ Survey of Beach Erosion Sur.
X-Sec. Notes Chkd. ____ Checked ____ Survey by Dreier & English Date 7-16-58
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76298 S & E #307—7-55

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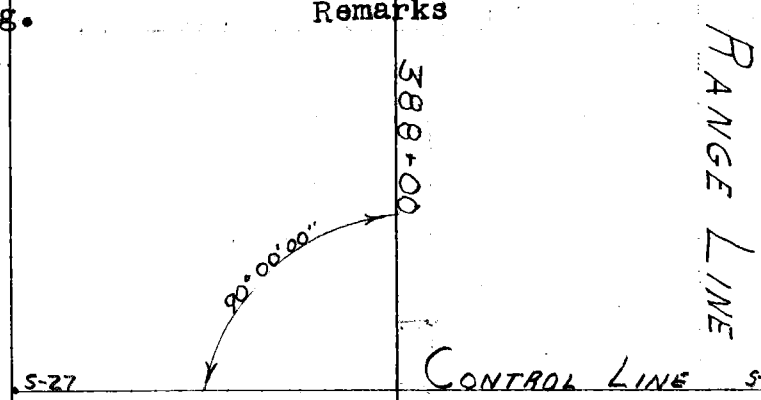
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
388+00	S-27			7:02	90°- —	
#1					" "	
2					" "	
3					" "	
4					" "	
5					" "	
6					" "	
7					" "	S-27 CONTROL LINE S-26
8					" "	
9					" "	
10					" "	
11					" "	
12					" "	
13					" "	
14					" "	
15					" "	
16					" "	
17					" "	
18					" "	
19				7:06	" "	



Profile Notes Red. ____ Plotted ____ Job No. 0300-02 Division No. 10 F. B. 2307 Pg. 47
No. ____ Date ____ Date ____ Survey of BEACH EROSION
X-Sec. Notes Chkd. ____ Checked ____ Survey by VAN DAREN Notes VL Date 7-16-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

F. B. 2307 Pg. 48 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION Date 7-16 58 Date No.

Survey by M.A. VAN DAREN Notes V.L. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On		Depth # Rec. Adj.	Time	Hor. Ang.		Remarks

76298 S & E #307—7-55

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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 Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
378+00	S-27	1	27.8	28.8	7:02	50° 43'	1223'
		2	[illegible]	27.3		48° 16'	1121' Cut in Line 388+00
		3	[illegible]	26.0		45° 58'	1034'
		4	23.1	24.7		43° 32'	950'
		5	22.4	23.4		41° 50'	897'
		6	21.8	22.3		40° 06'	842'
		7	20.3	21.3		38° 23'	792'
		8	19.[illegible]	20.0		36° 43'	746'
		9	18.3	19.3		35° 41'	718'
		10	17.4	18.4		34° 32'	688'
		11	15.8	16.8		33° 00'	649'
		12	15.0	15.7		31° 29'	612'
		13	14.2	14.9		30° 33'	590'
		14	13.2	13.9		29° 30'	566'
		15	12.6	13.3		28° 07'	534'
		16	11.5	12.2		26° 58'	509'
		17	10.7	11.7		25° 43'	482'
		18	10.[illegible]	11.0		24° 30'	456'
		19	9.3	10.3	7:06	23° 09'	428' S-27
		20					

Shots 1 to 11
Boat = +1.0
Zero = +0.5
Tide = -0.5
+1.0

Shots 12 to 16
Boat = +1.0
Zero = +0.2
Tide = -0.5
+0.7

Shots 17 to 19
Boat = +1.0
Zero = +0.5
Tide = -0.5
+1.0

Cut in Line 388+00

378+00

Profile Notes Red. ____ Plotted ____ Job No. 030002 Division No. 10 F. B. 2307 Pg. 49
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by VanDeren Notes R.T. Date 7-16-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

F. B. 2307 Pg. 50 | Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 7-16-58 Date No.

Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.

Indexed Date Date Date Date No.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.		Remarks

76298 S & E #307—7-55

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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.	Sight on 383+00	Inst. at 385+50
T.P.	2 55	5 90		3 35		
383+00		+	7 0	12 9	Control line	Inshore 383+00
		+	11 4	17 3	53' L. T.S.	
			0 0	5 9	12° 40' 56'	
T.P.	0 0	7 00	+1 1	7 0		
			4 4	2 6	21° 54' 101'	
			6 7	+0 3	28° 05' 134'	
			7 9	-0 9	35° 42' 180'	
			9	-2 1	43° 00' 233'	
			11 0	-4 0	45° 21' 253'	
			14 4	-7 4	52° 33' 351'	
T.P.			3 10	3 90		

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 51
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Sur
Notes Chkd. ____ Checked ____ Survey by Dreier Notes Landed Date 7-16-58
Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

76298 S & E #307—7-55

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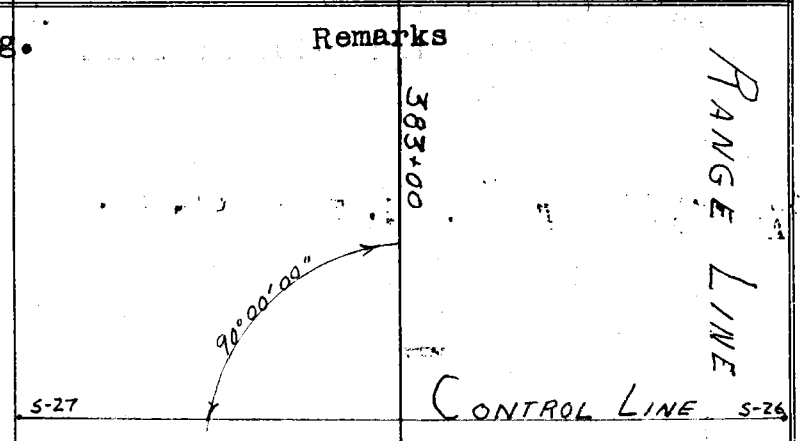
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
383+00	S-27			7:20	90°- -	
#1					" "	
2					" "	
3					" "	
4					" "	
5					" "	
6					" "	
7					" "	S-27
8					" "	
9					" "	
10					" "	
11					" "	
12					" "	
13					" "	
14					" "	
15					" "	
16					" "	
17					" "	
18					" "	
19					" "	



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 53
No. ____ Date ____ Date ____ Survey of BEACH EROSION
X-Sec. Notes Chkd. ____ Checked ____ Survey by W.A. VanDarc Notes VL. Date 7-16-58
No. ____ Date ____ Date ____ Map No. ____ Indexed [illegible]

76298 S & E #307—7-55

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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		S. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
383+00	5-27				90° 00		
20					" "		
21				7:23	" "		

F. B. 2307 Pg. 54 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of BEACH EROSION Date 7-16-58 Date No.
Survey by M.A. VAN DAREN Notes V.L. Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

76298 S & E #307—7-55

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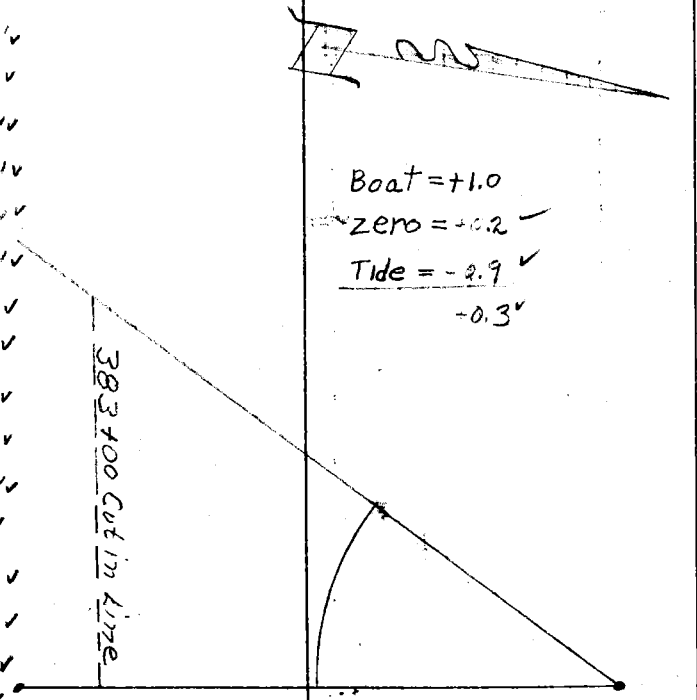
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
378+00	S-27	1	28.0	28.3	7:20	66° 16'	1138' Cut in Line 383+00
		2	26.7	27.0		64° 49'	1064'
		3	26.5	26.9		64° 00'	1025'
		4	25.3	25.8		62° 39'	967'
		5	24.3	24.6		61° 20'	915'
		6	23.6	23.9		59° 39'	854'
		7	22.2	22.5		57° 54'	797'
		8	21.3	21.6		56° 08'	745'
		9	19.8	20.1		54° 34'	703'
		10	18.7	19.0		52° 53'	661'
		11	17.9	18.2		52° 00'	640'
		12	16.6	16.9		50° 30'	607'
		13	16.0	16.3		49° 28'	585'
		14	14.5	14.8		47° 46'	551'
		15	13.6	13.9		46° 25'	526'
		16	12.5	12.8		44° 47'	496'
		17	11.9	12.2		43° 16'	471'
		18	11.4	11.7		41° 39'	445' S-27
		19	10.4	10.7		39° 45'	416'
		20	9.0	9.3		38° 04'	392'



Boat = +1.0
zero = +0.2
Tide = -2.9
-0.3

Profile Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 10 F. B. 2307 Pg. 55
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes RT Date 7-16-58
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76298 S & E #307—7-55

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STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		21	8.6	8.9	7:23	36° 25	369'	Cut in Line 383+00
378+00	S-27							

Boat = +1.0'
Zero = +0.2
Tide = -0.9
+0.3

F. B. 2307 Pg. 56 Job No. 0300.02 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Study Date 7-16-58 Date No.
Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

76298 S & E #307—7-55

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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.		
T.P.	2 80	6 70		3 90	(Sight on 378+00	Instr. @ 375+50)
			6 6	13 30	Control Line	Inshore 378+00
			9 6	16 3	51' Left T.S.	
			0 0	6 7	11° 05' 49'	
			5 7	1 0	22° 22' 103'	
			7 2	-0 5	28° 51' 133'	
			8 8	-2 1	41° 45' 223'	
			9 9	-3 2	47° 33' 273'	
			11 6	-4 9	51° 32' 315'	
			14 1	-7 4	54° 20' 348'	
			15 4	-8.7	57° 44' 396'	

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 57
No. ____ Date ____ Date ____ Survey of Beach Erosion Sur
X-Sec. Notes Chkd. ____ Checked ____ Survey by Drum Notes English Date 7-16-58
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____
C. Job Decr.

76298 S & E #307—7-55

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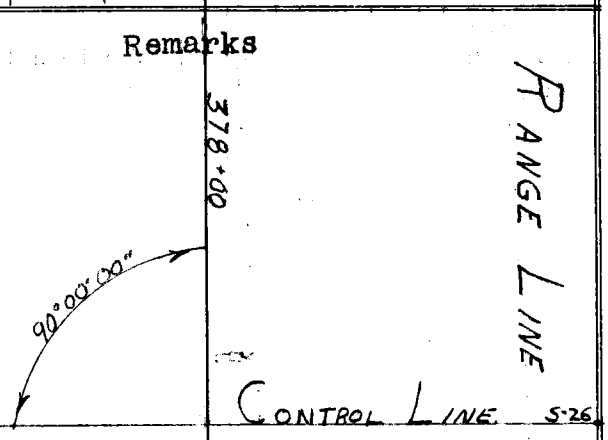
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
378+00	S-27			7:37	90°— —		
#1					" "		
2					" "		
3					" "		
4					" "		
5					" "		
6					" "		
7					" "	S-27	S-26
8					" "		
9					" "		
10					" "		
11					" "		
12					" "		
13					" "		
14					" "		
15					" "		
16					" "		
17					" "		
18					" "		
19					" "		



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 59
No. ____ Date ____ Date ____ Survey of BENCH ELEVATION
X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Notes KL Date 7-16-58
No. ____ Date ____ Date ____ Map No. ____ Index [illegible] C. Johnson

F. B. 2307 Pg. 60 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION Date 7-16 58 Date No.

Survey by MA VAN DAREN Notes V.L. Notes Chkd Checked X-Sec.

Indexed C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. Sight At On	# Depth Rec. Adj.		Time	Hor. Ang.		
378+00 S-27				90° 00		
20				" "		
21			7:41	" "		

76298 S & E #307—7-55

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76298 S & E #307—7-55

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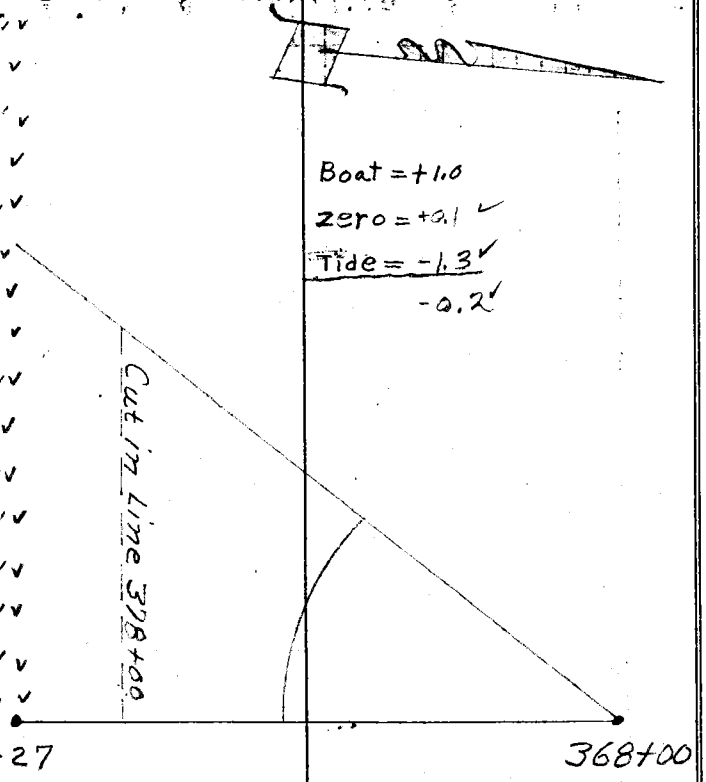
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
368+00	S-27	1	29.4	29.2	7:37	49°45'	1181' Cut in Line 378+00
		2	28.8	28.6		48° 52'	1145'
		3	28.1	27.9		48° 00'	1111'
		4	27.8	27.6		47° 00	1072'
		5	26.7	26.5		44° 48'	993'
		6	25.8	25.6		43° 40'	955'
		7	24.4	24.2		41° 47'	894'
		8	23.6	22.8		39° 47'	833'
		9	22.2	22.0		37° 57'	780'
		10	20.8	20.6		36° 06	729'
		11	19.1	18.9		34° 15'	681'
		12	17.8	17.6		32° 35'	639'
		13	16.7	16.5		30° 49'	597'
		14	15.2	15.0		29° 09'	558'
		15	14.1	13.9		28° 08'	535'
		16	13.1	12.9		26° 47'	505'
		17	13.2	13.0		25° 46'	483'
		18	11.9	11.7		24° 28'	455'
		19	11.0	10.8		23° 05'	426'
		20	10.0	9.8		21° 51'	401'

Boat = +1.0
zero = +0.1
Tide = -1.3
-0.2



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 61
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 7-16-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

F. B. 2307 Pg. 62 | Job No. 2300.02 Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion Study | Date 2-16-58 | Date | No.

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

Indexed C. C. Johnson | Date | Date | Date | No.

STATION	S. S.	H. I.	F. S.	ELEV.	Remarks
368+00					
S-27					
Inst. Sign At On	#	Depth Rec. Adj.	Time	Hor. Ang.	
	21	9.39 9.17	7:41	20°42'	378' Cut in line 378+00
					Boat = +1.0
					zero = +0.1
					Tide = -1.3
					-0.2

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76298 S & E #307—7-55

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.	Sight on 373+00 Re 375+50	
T. T.	2.80	6.70		3.90	FROM	Inshore 373+00
T. P.	13.88	18.55	2.03	4.67		
373+00			5.2	13.3		
			2.5	16.0	50 FT LEFT	
			1.1	17.4	75 " " TOE OF	
T. P.	0.86	7.82	11.59	6.96	57 FT RIGHT	
			5.7	+2.1	21° 58' 101'	
			8.7	-0.9	28° 48' 138'	
			8.9	-1.1	38° 23' 198'	
			10.3	-2.5	44° 16' 244'	
			11.0	-3.2	49° 49' 296'	
			15.5	-7.7	54° 25' 350'	
			17.0	-9.2	57° 04' 336'	

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 63
X-Sec. No. ____ Date ____ Date ____ Survey of Brown Erosion Sur.
Notes Chkd. ____ Checked ____ Survey by Drmer Notes Land Date 7-16-58
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76298 S & E #307—7-55

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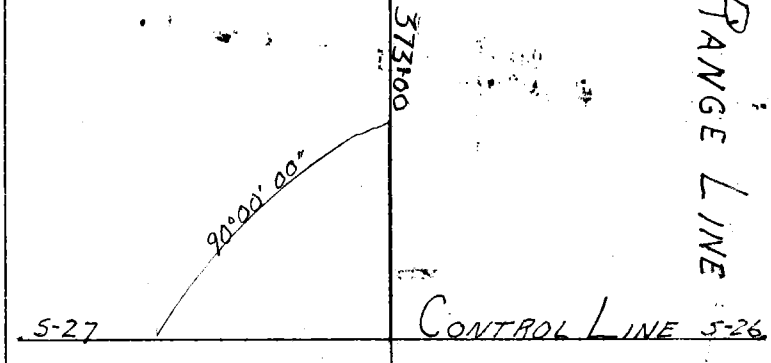
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
373+00	S-27				7:51	90° 00	
#1						" "	
2						" "	
3						" "	
4						" "	
5						" "	
6						" "	
7						" "	
8						" "	
9						" "	
10						" "	
11						" "	
12						" "	
13						" "	
14						" "	
15						" "	
16						" "	
17						" "	
18						" "	
19						" "	



Profile Notes Red. ____ Plotted ____ Job No. 2300.03 Division No. 10 F. B. 2307 Pg. 65
No. ____ Date ____ Date ____ Survey of BEACH EROSION
X-Sec. Notes Chkd. ____ Checked ____ Survey by M.A. VAN DAGEN Notes VL Date 7-16-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION		S. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
373+00	7-27				90° 00		
20					" "		
21				7:54	" "		

F. B. 2307 Pg. 66 Job No. 0300.02 Division No. 10 Notes Red. Plotted Date 7-16-58 Date No. Profile
Survey of BEACH EROSION Notes Chkd. Checked Date No. X-Sec.
Survey by MA VAN DAREN Notes VL Date
Indexed C. Johnson Date

76298 S & E #307—7-55

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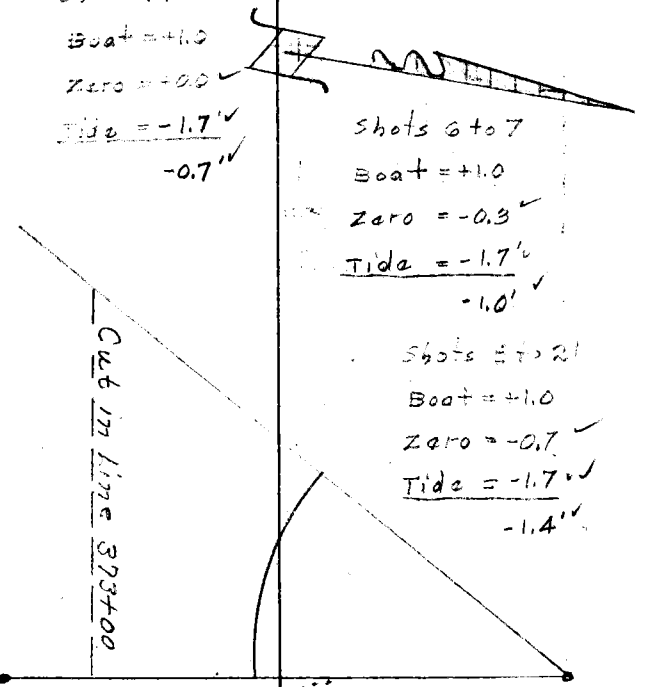
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
368+00	S-27	1	23.5	27.8	7:51	65° 16'	1086' Cut in Line 373+00
		2	27.4	26.7		63° 44'	1013'
		3	26.0	25.3		63° 12'	990'
		4	25.6	24.9		61° 42'	929'
		5	24.6	23.9		60° 52'	897'
		6	25.5	24.5		59° 56'	864'
		7	23.4	22.4		58° 31'	817'
		8	22.7	21.3		56° 57'	769'
		9	22.0	20.6		55° 25'	726'
		10	20.7	19.3		53° 46'	683'
		11	19.0	17.6		51° 42'	633'
		12	17.7	16.3		49° 40'	589'
		13	16.6	15.2		48° 12'	559'
		14	15.2	13.8		45° 23'	507'
		15	14.6	13.2		44° 09'	486'
		16	13.5	12.1		42° 32'	459'
		17	12.7	11.3		41° 25'	441'
		18	11.7	10.3		39° 45'	416' S-27
		19	10.7	9.3		37° 58'	390'
		20	—			37° 08'	

Shots 1 to 5
Boat = +1.0
Zero = +0.0
Tide = -1.7'
-0.7'

Shots 6 to 7
Boat = +1.0
Zero = -0.3
Tide = -1.7'
-1.0'

Shots 8 to 21
Boat = +1.0
Zero = -0.7
Tide = -1.7'
-1.4'



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 67
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes RT Date 2-16-58
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2307 Pg. 68 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 7-16-58 Date _____ No. _____

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

Indexed O. Johnson Date _____ Date _____ Date _____ No. _____

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	# Depth Rec. Adj.		Time	Hor. Ang.	
368+00					Cut in line 373+00
S-27	21 —		7.54	35°36	

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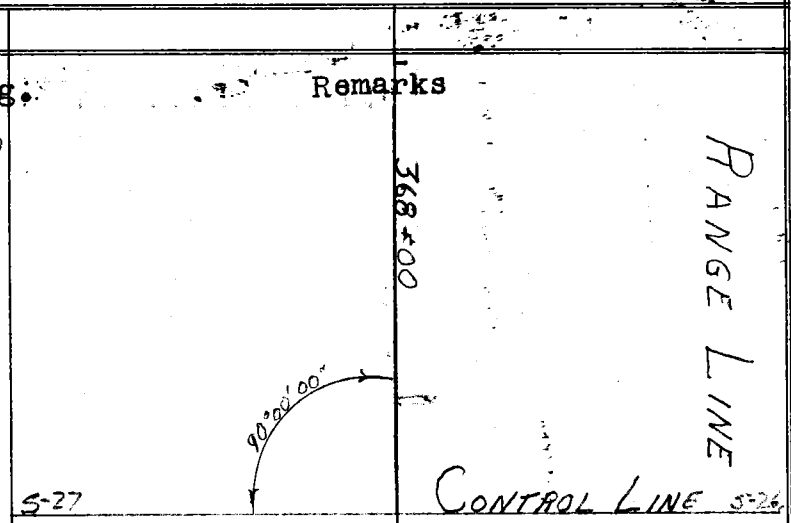
STATION	B. S.	H. I.	F. S.	ELEV.	Sight on 368+00, Inst. @ 365+50
T. P 368+00	11 75	18 71		696	T.P. FROM STAT. 373+00
			26	161	
			13	174	30 FT LEFT TOE OF SLOPE
			47	140	41 " RIGHT
T. P.	0 15	9 09	9 77	8 94	80 " RIGHT
			42	69	24° 25' 108'
			86	+05	35° 43' 166'
			113	-22	45° 12' 224'
			118	-27	55° 38' 310'
			145	-54	61° 06' 371'
			180	-89	66° 31' 448'

Inshore 368+00

Profile Notes Red. ____ Plotted ____ Job No. 03000 Division No. 10 F. B. 2307 Pg. 69
No. ____ Date ____ Date ____ Survey of Beach Erosion Stn.
X-Sec. Notes Chkd. ____ Checked ____ Survey by Dreier Notes Lands Date 7-16-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson



Profile	Notes Red.	Plotted	Job No. 2300.02	Division No. 10	F. B. 2307	Pg. 71
No.	Date	Date	Survey of BEACH EROSION			
X-Sec.	Notes Chkd.	Checked	Survey by M.A. VAN DAREN	Notes V.L.	Date 7-16-58	
No.	Date	Date	Map No.	Indexed C. Johnson		

RANGE LINE

CONTROL LINE

368+00

90°00'00"

5-27

5-26

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At 368+00	Sight On 5-27	Depth # Rec. Adj.	Time 8:07	Hor. Ang. 90°00	
#1				" "	
2				" "	
3				" "	
4				" "	
5				" "	
6				" "	
7				" "	
8				" "	
9				" "	
10				" "	
11				" "	
12				" "	
13				" "	
14				" "	
15				" "	
16				" "	
17				" "	
18				" "	
19				" "	

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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76298 S & E #307—7-55

F. B. 2307 Pg. 72 | Job No. 2300-02 Division No. 10 | Notes Red. | Plotted | Profile

Survey of BEACH EROSION | Date 7-16-58 | Date | No.

Survey by M.A. VAN DAREN Notes V.L. | Notes Chkd. | Checked | X-Sec.

Indexed K. C. Johnson | Date | Date | Date | No.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On		Depth # Rec. Adj.	Time	Hor. Ang.		Remarks
368+00 S-27				90° 00		
20				" "		
21				" "		
22			8:10	" "		

76298 S & E #307—7-55

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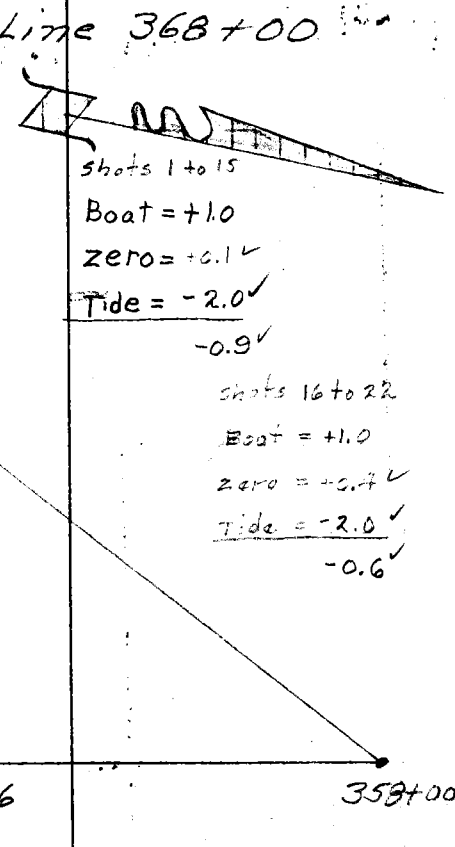
STATION Inst At	Sight On	B. S. #	H. I. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
358+00	S-26	1	32.5	31.6	8:07	59° 19'	1332	Cut in Line 368+00
		2	31.1	30.2		57° 30'	1272	
		3	30.2	29.3		56° 22'	1215	
		4	29.1	28.2		54° 39'	1155	
		5	28.4	27.5		53° 51'	1126	
		6	27.7	26.8		52° 46'	1087	
		7	27.2	26.3		51° 26'	1046	
		8	26.4	25.5		49° 56'	1000	
		9	25.7	24.8		48° 32'	955	
		10	24.8	23.9		47° 00'	916	
		11	23.5	22.6		44° 49'	860	
		12	22.7	21.8		42° 52'	809	
		13	21.6	20.7		40° 23'	748	
		14	20.6	19.7		38° 32'	706	
		15	18.5	17.6		36° 29'	660	
		16	16.6	16.0		34° 01'	607	
		17	15.6	15.0		32° 40'	S-27 581	
		18	14.3	13.7		30° 52'	543	
		19	13.1	12.8		29° 13'	511	
		20	12.2	11.6		27° 40'	481	



Profile Notes Red ____ Plotted ____ Job No. 6202.2 Division No. 10 F. B. 2302 Pg. 73
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 7-16-58
No. ____ Date ____ Date ____ Map No. ____ Index No. [illegible]

76298 S & E #307—7-55

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STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		21	11.0	10.4		25° 45'	444	Cut in Line 368+00
		22	9.8	9.2	8:10	23° 43'	407	
								Boat = +1.0
								Zero = +0.4
								Tide = -2.0
								-0.6
358+00	S-26							

F. B. 2307 Pg. 74 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 7-16-58 Date No.
Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.
Indexed K. C. Johnson Date Date No.

76L298 S & E #307 9-54

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STATION	S. B.	H. I.	F. B.	ELEV.	Sight on 363+00	Instr. @ 365+50
T.P.	1380	2274		894		INSHORE
T.B.M. #2	018	2149	143	2131	T.B.M. #2 ELEV. 21.317 PER F.B 2100-155	363+00
T.P.	379	1826	702	1447	T.P. STAT. 365+50	
363+00			57	126		
"			48	135	21 FT LEFT TOE OF SLOPE	
"			65	118	40 FT RIGHT BREAK	
"	116	1010	932	894	61 FT " T.P.	
			71	30	23° 12' 107'	
			96	+05	29° 00' 139'	
			116	-15	35° 17' 177'	
			123	-22	42° 30' 229'	
			132	-31	48° 35' 284'	
			141	-40	52° 26' 325'	
			175	-74	55° 57' 370'	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 PG 75
No. ____ Date ____ Date ____ Survey of Beach Erosion Survey Date 7-16-56
X-Sec. Notes Chkd ____ Checked ____ Survey by ____ Notes ____
No. ____ Date ____ Date ____ Map No. ____ Indexed by ____

76298 S & E #307—7-55

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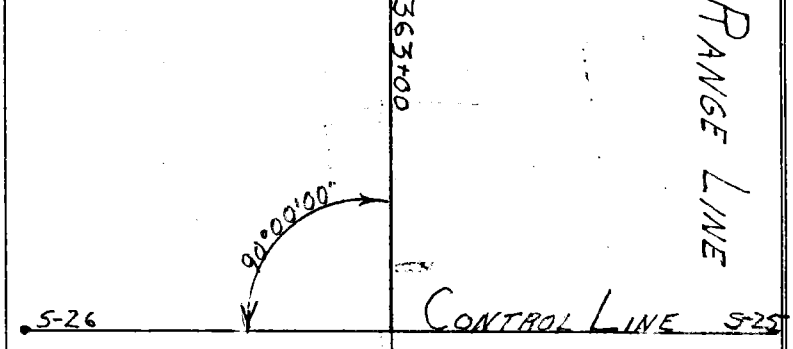
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
363+00	S-26				8:25	90° 00	
#1						" "	
2						" "	
3						" "	
4						" "	
5						" "	
6						" "	
7						" "	
8						" "	
9						" "	
10						" "	
11						" "	
12						" "	
13						" "	
14						" "	
15						" "	
16						" "	
17						" "	
18						" "	
19						" "	



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 77
No. ____ Date ____ Date ____ Survey of BEACH EROSION
X-Sec. Notes Chkd. ____ Checked ____ Survey by M.A. VAN DAREN Notes VL Date 7-16-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

F. B. 2307 Pg. 78 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION Date 7-16-58 Date No.

Survey by [illegible] Notes V.L. Notes Chkd. Checked X-Sec.

Indexed L. C. Johnson Date Date Date No.

76298 S & E #307—7-58

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STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.		
36300 S-26				90° 00		
20				" "		
21				" "		
22				" "		
23			8:29	" "		

76298 S & E #307—7-55

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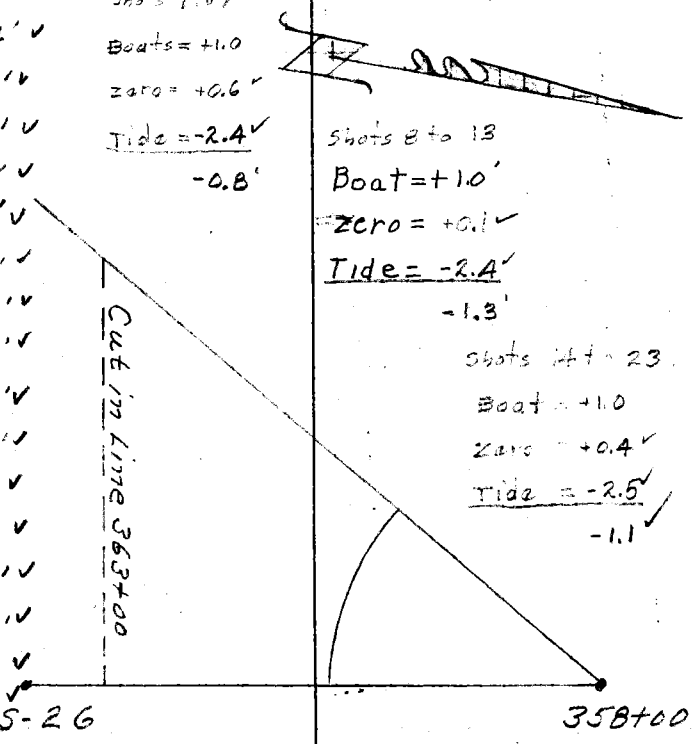
Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		1	30.8	30.0	8:25	67° 16'	1194'	Cut in Line 363+00
		2	29.7	28.9		66° 46'	1165'	
		3	28.9	28.1		66° 01'	1124'	
		4	28.0	27.2		65° 01'	1073'	
		5	26.8	26.0		64° 16'	1038'	
		6	26.3	25.5		63° 30'	1003'	
		7	25.8	25.0	—	62° 32'	962'	
358+00	S-26	8	24.8	23.5		61° 00'	902'	
		9	24.0	22.7		59° 44'	857'	
		10	22.8	21.5		58° 02'	801'	
		11	22.1	20.8		56° 28'	755'	
		12	20.5	19.2		54° 47'	709'	
		13	19.4	18.1	—	53° 14'	669'	
		14	17.7	16.6		51° 56'	639'	
		15	16.1	15.0		49° 49'	592'	
		16	14.8	13.7		47° 18'	542'	
		17	13.4	12.3		45° 02'	501'	
		18	12.4	11.3		43° 50'	480'	S-26
		19	11.3	10.2		41° 23'	441'	
		20	9.9	8.8		38° 56'	404'	

shots 1 to 7
Boats = +1.0
zero = +0.6
Tide = -2.4
-0.8'

Shots 8 to 13
Boat = +1.0'
Zero = +0.1
Tide = -2.4
-1.3'

Shots 14 to 23
Boat = +1.0
Zero = +0.4
Tide = -2.5
-1.1



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 79
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 7-16-58
No. Date Date Map No. Indexed C. Johnson

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		21	8.7	7.6		36° 52	375'	
		22	7.7	6.6		35° 04	351'	
		23	6.7	5.6	8:29	33° 41	334'	
								Boat = +1.0
								zero = +0.4
								Tide = -2.5
								-1.1

F. B. 2307 Pg. 80 Job No. 0300.02 Division No. 10 Notes Red. Plotted No. Profile
Survey of Beach Erosion Study Date 9-16-58 Date X-Sec.
Survey by Van Deren Notes R.T. Notes Chkd. Checked No.
Indexed A. C. Johnson Date Date Date

76L298 S & E #307 9-54

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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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STATION	B. S.	H. I.	F. S.	ELEV.	Sight on 358+00 Instr. @ 355+50
T.P.	10 26	19 20		8 94	T.P. FROM 7th LINE STAT 363+00 INSHORE
358+00			5 7	13 5	358+00
			2 5	16 7	32 FT RIGHT TOE OF SLOPE
T.P.	1.00	9.24	10 96	8 24	43 FT LEFT
			5 4	+3 8	17° 17' 78'
			10 3	-1 1	25° 37' 120'
			11 5	-2 3	35° 21' 177'
			12 2	-3 0	45° 56' 258'
			13 3	-4 1	50° 08 299
			15 5	-6 3	54° 40' 353'
			17 5	-8 3	56° 50' 383'

Profile Notes Red. Plotted Job No. 030A02 Division No. 10 F. B. 2703 Pg. 81
No. Date Date Survey of BEACH EROSION Sur.
X-Sec. Notes Chkd. Checked Survey by Dreier Notes Land Date 7-16-58
No. Date Date Map No. Index [illegible] C. Johnson

76298 S & E #307—7-55

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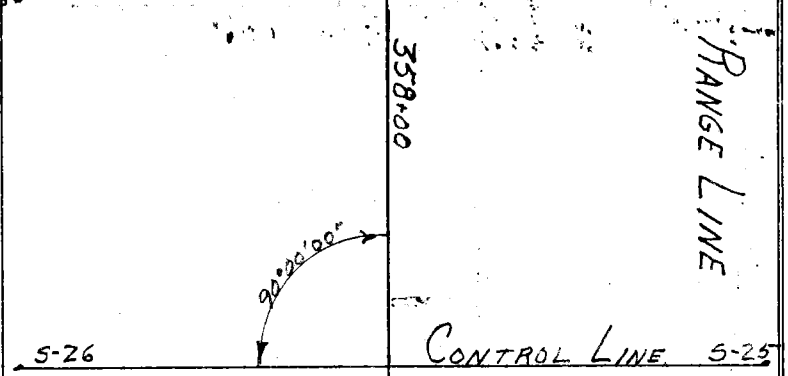
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
358+00	S-26				8:41	90° 00	
#1						" "	
2						" "	
3						" "	
4						" "	
5						" "	
6.						" "	
7						" "	S-26
8						" "	
9						" "	
10						" "	
11						" "	
12						" "	
13						" "	
14						" "	
15						" "	
16						" "	
17						" "	
18					8:44	" "	



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 83
No. ____ Date ____ Date ____ Survey of BEACH EROSION
X-Sec. Notes Chkd. ____ Checked ____ Survey by M.A. VAN DAREN Notes Vi Date 7-16-59
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

F. B. Z307 Pg. 84 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION Date 7-16-58 Date _____ No. _____

Survey by M.A. VAN DEREN Notes VL. Notes Chkd. _____ Checked _____ X-Sec.

Indexed [illegible] C. Johnson Date _____ Date _____ Date _____ No. _____

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On		Depth # Rec. Adj.	Time	Hor. Ang.		Remarks

76298 S & E #307—7-55

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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 Inst. At	Sight On	S. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
348+00	S-26	1	32.8	31.6	8:41	51° 28'	1256' Cut in Line 358+00
		2	30.1	28.9		48° 33'	1132'
		3	27.8	26.6		45° 27'	1016'
		4	—	—		43° 50'	
		5	—	—		41° 15'	
		6	22.3	21.1		37° 35'	770'
		7	20.5	19.3		35° 24'	711'
		8	19.5	18.3		32° 43'	642'
		9	18.7	17.5		31° 20'	609'
		10	17.4	16.2		29° 50'	573'
		11	16.1	14.9		28° 13'	537'
		12	14.4	13.2		26° 45'	504'
		13	13.1	11.9		25° 06'	468'
		14	11.7	10.5		23° 27'	434'
		15	11.1	9.9		22° 11'	408'
		16	10.2	9.0		20° 52'	381'
		17	9.5	8.3		19° 40'	357'
		18	7.8	6.6	8:44	18° 21'	332' S-26
		19					
		20					

Boat = +1.0'
zero = +0.6
Tide = -2.8
-1.2

Cut in Line 358+00

348+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 85
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 7-16-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

F. B. 2307 Pg. 86 | Job No. 0300.02 Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion Study | Date 9-16-58 | Date | No.

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

Indexed | Date | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. Sign At On	#	Depth Rec. Adj.	Time	Hor. Ang.		

Do not extend notes this side of this line.

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76298 S & E #307—7-55

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.	Sighton-353+00 Inst @ 350+50	
T.P.	9 95	18 19		8 24	T.P. 43' RIGHT STAT. 358+00	INSHORE
353+00			46	13 6		353+00
"			20	16 2	17 FT LEFT	
"			63	11 9	15 FT. RIGHT [illegible]	
T.P.	1 60	9 93	9 86	8 33	39 FT RIGHT T.P.	
			66	3 3	17° 22' 78'	
			98	+0 1	25° 30' 119'	
			114	-1.5	34° 32' 172'	
			133	-3.4	42° 02' 225'	
			140	-4 1	48° 56' 237'	
			161	-6 2	52° 19' 324'	
			180	-8 1	56° 25' 377'	

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 87
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Sur.
Notes Chkd. ____ Checked ____ Survey by Dreier Notes Landa Date 7-16-58
Date ____ Date ____ Map No. ____ Inspected C. Johnson Date ____

76298 S & E #307—7-55

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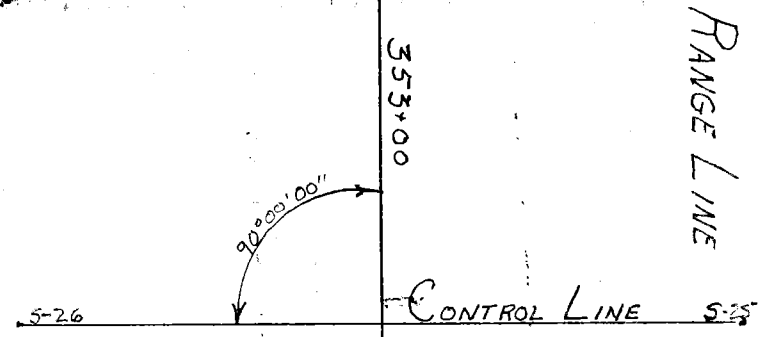
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
353+00	S-26			8:53	90° 00	
#1					" "	
2					" "	
3					" "	
4					" "	
5					" "	
6					" "	
7					" "	
8					" "	
9					" "	
10					" "	
11					" "	
12					" "	
13					" "	
14					" "	
15					" "	
16					" "	
17					" "	
18					" "	
19					" "	



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 89
No. ____ Date ____ Date ____ Survey of BEACH LAGOON
X-Sec. Notes Chkd. ____ Checked ____ Survey by M.A. VAN DAREN Notes VL Date 7-16-58
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____
C. Johnson

F. B. 2307 Pg. 90 | Job No. 030002 Division No. 10 | Notes Red. | Plotted | Profile

Survey of BEACH EROSION | Date 7-16-58 | Date | No.

Survey by M. VANDAREN Notes VL | Notes Chkd. | Checked | X-Sec.

Indexed L. C. Johnson Date | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On 333+00 S-26 20		Depth # Rec. Adj.	Time 8:57	Hor. Ang. 90° 00 " "	

Do not extend notes this side of this line.

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76298 S & E #307—7-55

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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 Inst. At	Sight On	S. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks Boat	Zero	Tide	Total
		1	—		8:53	66° 50'	Cut in Line 353+00				
		2	30.0	28.7		66° 13'	1135'	+1.0	+0.7	-3.0	-1.3
		3	28.0	26.7		64° 45'	1060'	+1.0	+0.7	"	-1.3
		4	27.4	25.9		63° 10'	989'	+1.0	+0.5	"	-1.5
		5	26.4	24.9		61° 31'	922'	"	"	"	-1.5
		6	25.3	23.8		60° 30'	878'	"	"	"	"
		7	23.8	22.3		58° 27'	815'	"	"	"	"
348+00	S-26	8	21.5	20.0		56° 46'	763'	"	"	"	"
		9	20.9	19.4		55° 36'	731'	"	+0.8	"	-1.5
		10	19.8	18.2		53° 43'	681'	"	+0.4	"	-1.6
		11	19.2	17.4		52° 11'	644'	"	+0.2	"	-1.8
		12	18.1	16.3		50° 40'	610'	"	+0.2	"	"
		13	16.7	14.9		48° 40'	569'	"	+0.2	"	"
		14	15.6	13.6		46° 38'	530'	"	-0.0	"	-2.0
		15	14.3	12.2		44° 45'	496'	"	-0.1	"	-2.1
		16	13.3	11.2		42° 18'	455'	"	-0.1	"	-2.1
		17	12.1	10.1		39° 15'	409'	"	+0.0	"	-2.0
		18	11.0	9.3		37° 44'	387' S-26	"	+0.3	"	-1.7 348+00
		19	10.1	8.4		36° 27'	370'	"	"	"	"
		20	9.1	7.4	8:57	34° 31'	344'	+1.0	+0.3	"	"

Cut in Line 353+00

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 91
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Study
Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 7-16-58
Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

F. B. 2307 Pg. 92 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 2-16-58 Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	# Depth Rec. Adj.	Time	Hor. Ang.		

76298 S & E #307—7-55

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76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Sight on 348+00 Inst. @ 350+50	
T.P	10 70	19 [illegible]		8 33	T.P STAT. 353+00 39 FT RIGHT	INSHORE
348+00			49	14 1		348+00
			34	15 6	17 FT. LEFT TOE OF SLOPE	
			62	12 8	17 FT RIGHT BREAK	
	0.1	10 09	904	9 99	34 FT " T.P.	
			52	4 9	14° 50' 66'	
			107	-0.6	28° 53' 138'	
			111	-1 0	34° 15' 170'	
			125	-2 1	40° 55' 217'	
~~X~~			~~170~~	~~6 9~~	~~43° 56'~~	
			140	-3 9	48° 29' 283'	
			151	~~[illegible]~~ -5.0	52° 17' 323'	
			180	7 9	56° 49' 332'	

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 93
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Sur
Notes Chkd. ____ Checked ____ Survey by Dreier Notes Landa Date 7-16-58
Date ____ Date ____ Map No. ____ Inked C. Johnson

76298 S & E #307—7-55

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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.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
348+00	S-26			9:09	90° 00		
#1					" "		
2					" "		
3					" "		
4					" "		
5					" "		
6					" "		
7					" "	S-26	CONTROL LINE S-25
8					" "		
9					" "		
10					" "		
11					" "		
12					" "		
13					" "		
14					" "		
15					" "		
16					" "		
17					" "		
18					" "		
19					" "		

348+00

90°00'00"

RANGE LINE

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 95

No. ____ Date ____ Date ____ Survey of BEACH EROSION

X-Sec. Notes Chkd. ____ Checked ____ Survey by M.A. VAN DAREN Notes VI. Date 7-16-58

No. ____ Date ____ Date ____ Map No. ____ [illegible] Johnson [illegible]

F. B. 2307 Pg. 96 | Job No. 0300.02 Division No. 10 | Notes Red. | Plotted | Profile

Survey of BEACH EROSION | Date 7-16-58 | Date | No.

Survey by M.A. VAN DUREN | Notes VL. | Notes Chkd. | Checked | X-Sec.

Indexed C. Jo[illegible] | Date | Date | Date | No.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	Depth # Rec. Adj.	Time	Hor. Ang.		Remarks
348+00	5-26			90° "		
20				" "		
21			9:14	" "		

76298 S & E #307—7-55

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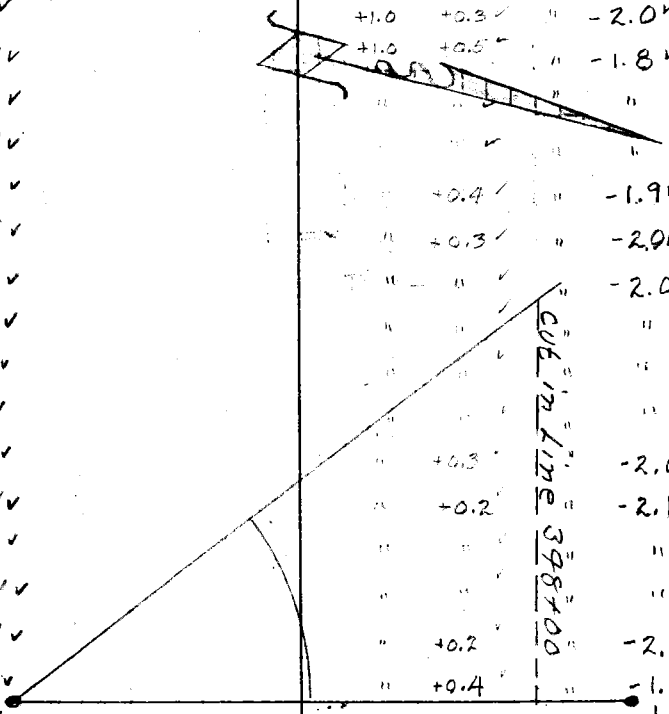
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S.	H. I.	F. S.	ELEV.		Remarks	Boat +1.0	Zero +0.5	Tide -3.3	Total
		#	Depth Rec. Adj.	Time	Hor. Ang.						
		1	32.2 30.4	9:09	68° 22'	1261'	Cut in Line 348+00				-1.8
		2	30.4 28.4		66° 57'	1175'		+1.0	+0.3	"	-2.0
		3	28.5 26.7		65° 06'	1077'		+1.0	+0.5	"	-1.8
		4	27.4 25.6		64° 06'	1030'		"	"	"	"
		5	26.3 24.5		62° 50'	975'		"	"	"	"
		6	24.7 22.8		61° 03'	904'		"	+0.4	"	-1.9
		7	23.6 21.6		58° 57'	831'		"	+0.3	"	-2.0
353+00	S-25	8	22.7 20.7		57° 08'	774'		"	"	"	-2.0
		9	21.8 19.8		55° 45'	735'		"	"	"	"
		10	20.9 18.9		54° 03'	690'		"	"	"	"
		11	18.9 16.9		52° 28'	651'		"	"	"	"
		12	17.8 15.8		50° 58'	617'		"	+0.3	"	-2.0
		13	16.8 14.7		49° 11'	579'		"	+0.2	"	-2.1
		14	15.7 13.6		47° 33'	547'		"	"	"	"
		15	14.3 12.2		46° 00'	518'		"	"	"	"
		16	13.6 11.5		43° 54'	481'		"	+0.2	"	-2.1
		17	12.8 10.9		41° 42'	446'		"	+0.4	"	-1.9
		18	11.1 9.2		38° 58'	405'	353+00	"	"	"	-1.9 S-25
		19	9.9 8.0		36° 41'	373'		"	"	"	"
		20	8.5 6.6		34° 17'	341'		"	0.4	"	-1.9



Profile Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 10 F. B. 2307 Pg. 97
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Doren Notes R.L. Date 7-16-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

76298 S & E #307—7-55

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STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Remarks	
		21	7.2	5.3	9:14	32° 18'	316' Cut in Line	348+00
							Boat = +1.0	
							Zero = +0.4	
							Tide = -3.3	
							-1.9	
353+00	S-25							

F. B. 2307 Pg. 98 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 7-16-58 Date No.
Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.
Indexed Date Date Date No.

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Sight on 343+00 Instr. @ 345+50	
T.P.	9.82	19.81		9.99	T.P. 30 FT. RT. STA 348+00	INSHORE
343+50			4.3	15.5		343+00
			2.3	17.5	30 FT LEFT BRK.	
			1.4	18.4	47 " " TOE OF SLOPE	
			5.1	14.7	25 FT RIGHT BRK	
T.P.	0.50	11.25	9.06	10.75	50 FT T.P.	
			8.9	2.4	25° 48' 118'	
			11.6	-0.3	33° 50' 161'	
			13.5	-2.2	45° 39' 241'	
			15.4	-4.1	51° 34' 294'	
			16.0	-4.7	54° 02' 320'	
			17.5	-6.2	56° 46' 351'	
			19.0	-7.7	59° 21' 385'	

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F.B. 2307 Pg. 99
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Sur.
Notes Chkd. ____ Checked ____ Survey by Drier Notes Lamb Date 7-16-58
Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

Profile No.	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2307 Pg. 101
	Date	Date	Survey of BEACH EROSION		
X-Sec. No.	Notes Chkd.	Checked	Survey by MA VAN DAREN	Notes YL	Date 7-16-58
	Date	Date	Map No.	Indexed K. C. Johnson	Date

RANGE LINE

CONTROL LINE

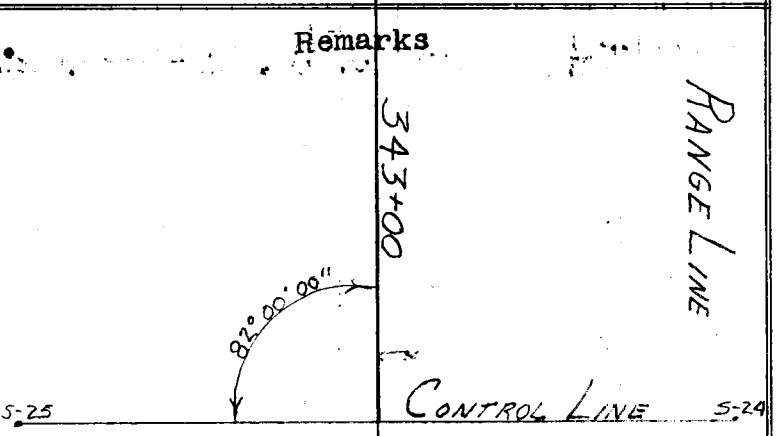
S-24

343+00

82° 00' 00"

S-25

STATION	B. B.	H. I.	F. B.	ELEV.	Remarks
Inst. At 343+00	Sight On S-25	Depth # Rec. Adj.	Time 9:29	Hor. Ang. 82° 00	
#1				" "	
2				" "	
3				" "	
4				" "	
5				" "	
6				" "	
7				" "	
8				" "	
9				" "	
10				" "	
11				" "	
12				" "	
13				" "	
14				" "	
15				" "	
16				" "	
17				" "	
18				" "	
19				" "	



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76298 S & E #307—7-55

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
343+00	S-25				82° 00		
20					" "		
21					" "		
22					" "		
23				9:33	" "		

F. B. 2307 Pg. 102 Job No. 0300-02 Division No. 10 Notes Red. Plotted No. Profile
Survey of BEACH EROSION Date 7-16-58 Date No. X-Sec.
Survey by M.A. VAN DOREN Notes V.L. Notes Chkd. Checked No.
Indexed C. Johnson Date Date Date

76298 S & E #307—7-55

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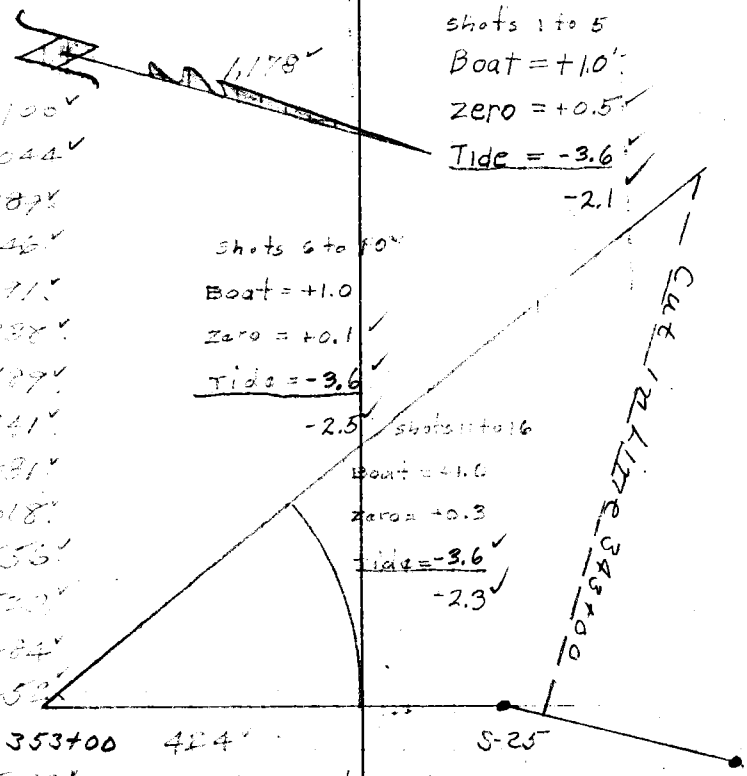
STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	
353+00	S-25	1	34.5	32.4	9:29	52° 16'	1357
		2	—			50° 00'	
		3	30.8	28.7		48° 21'	
		4	29.2	27.1		46° 25'	1100
		5	27.8	25.7		44° 56'	1044
		6	27.1	24.6		43° 25'	989
		7	26.4	23.9		42° 07'	946
		8	25.6	23.1		40° 28'	891
		9	24.8	22.3		38° 46'	888
		10	23.7	21.2		37° 05'	789
		11	22.2	19.9		35° 20'	741
		12	19.4	17.1		33° 03'	681
		13	17.9	15.6		30° 35'	618
		14	15.9	13.6		27° 54'	556
		15	15.1	12.8		26° 19'	52[illegible]
		16	13.7	11.4		24° 41'	484
		17	12.7	10.9		23° 10'	452
		18	11.6	9.8		21° 48'	353+00 424
		19	10.3	8.5		20° 36'	399
		20	9.2	7.4		19° 30'	376

Remarks

Cut in Line 343+00



shots 1 to 5
Boat = +1.0
zero = +0.5
Tide = -3.6
-2.1

shots 6 to 10
Boat = +1.0
Zero = +0.1
Tide = -3.6
-2.5

shots 11 to 16
Boat = +1.0
Zero = +0.3
Tide = -3.6
-2.3

for shots 17 to 23 see page 104 for Depth Adj.

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 030002 Division No. 10 F. B. 2307 Pg. 103
X-Sec. No. ____ Date ____ Date ____ Date ____ Survey of Beach Erosion Study
Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 7-16-58
Date ____ Date ____ Map No. ____ Inst. C. Johnson Date ____

76298 S & E #307—7-55

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STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		21	8.4	6.6		17° 55'	345	Cut in Line 343+00
		22	6.9	5.1		16° 34'	319	Shots 17 to 23
		23	5.8	4.0	9:33	15° 15'	294	Boat = +1.0
								zero = +0.8
								tide = -3.6
								-1.8
353+00	S-25							

F. B. 2307 Pg. 164 Job No. 0300.02 Division No. 10 Notes Red. Plotted Date 7-16-58 Date Profile No. X-Sec. No.
Survey of Beach Erosion Study Notes Chkd. Checked Date
Survey by Van Deren Notes R.T. Date
Indexed C. Johnson Date

76F3099 CE #247—3-57

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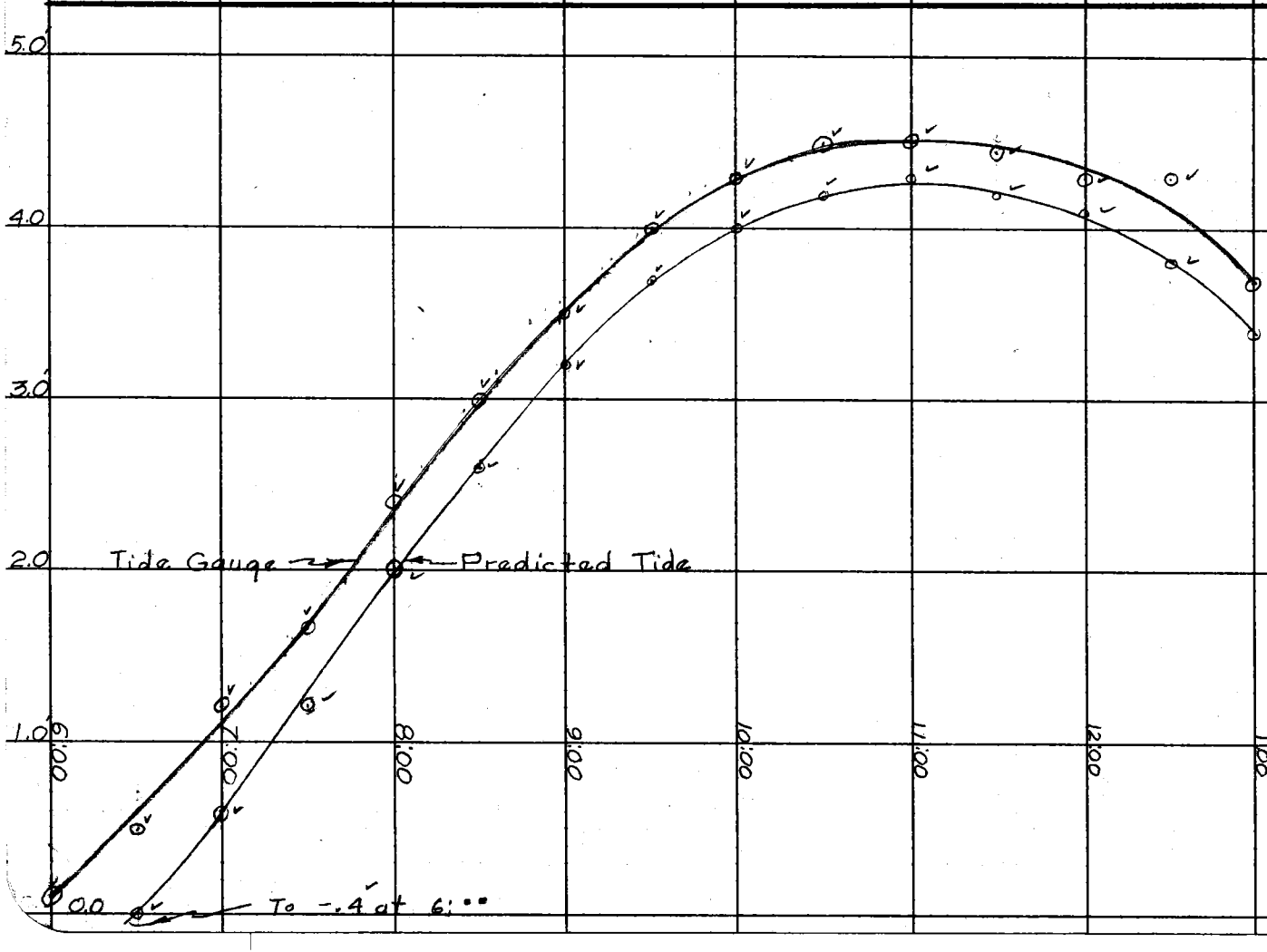

Notes Ck'd by
Map No.
Office Work J. Manley
Checked J. S. H.
Date 9-4-58

Survey of 0300.02
JN Tape Std °F
Surveyed by Van Daran
Notes
Indexed Date 7-17-58

F. B. 2307 Pg. 105-A

Profile No.	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2307	Pg. 105
	Date	Date	Survey of Beach Erosion			
X-Sec. No.	Notes Chkd.	Checked	Survey by Van Dercq	Notes J.B	Date 7-17 58	
	Date	Date	Map No.	Indexed C. Johnson		

7-17-58

3.0 on Datum Line

Time Check Gage Time = 9.42 P.D.S.T. = 10-40

High 4.9 Low - 3.9

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks	Standard time	Reading	P.D.S.T.
						5-00 AM	+ 0.1	6.00
						5-30 "	.5	6.30
						6-00 "	1.2	7.00
						6-30 "	1.65	7.30
						7-00 "	2.4	8.00
						7-30 "	3.0	8.30
						8-00 "	3.5	9.00
						8-30 "	4.0	9.30
						9-00 "	4.3	10.00
						9-30 "	4.5	10.30
						10-00 "	4.5	11.00
						10-30 "	4.45	11.30
						11-00 "	4.3	12.00
						11-30 "	4.3	12.30
						12-00 "	3.7	1.00
						12-30 P.M.	3.3	1.30
						1-00 "		2.00

Inst. Sight At On

Depth # Rec. Adj. Time Hor. Ang.

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76298 S & E #307—7-55

F. B. 2307 Pg. 104 Job No. 6300.08 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date 7-17-58 Date No.

Survey by Van Deren Notes J. Blanchard Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.		

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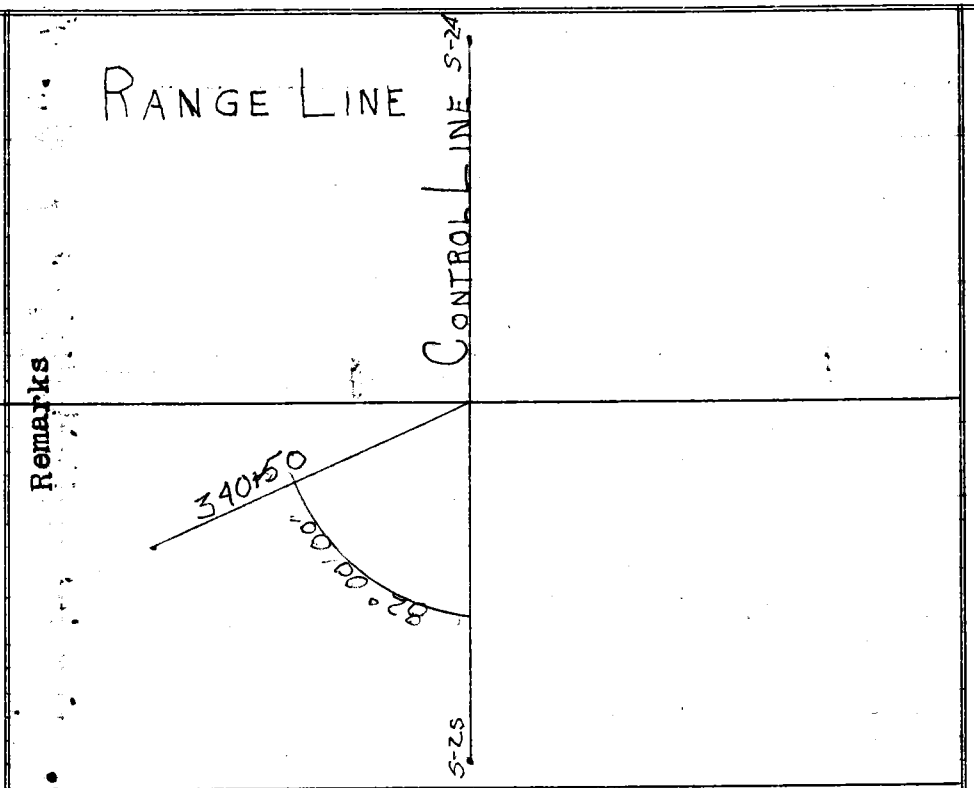
STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 338+00	Sight on 340+50
T.P.	906	1981		1075	T.P. 50 FT RT. 343+50	INSHORE 340+50
B.M. S-25			881	1100	B.M. S-25 ELEV 10.875 PER F.B. 2100-156	
B.M. S-24	218	2409		2191	B.M. S-24 ELEV. 21.910	F.B. 2100-156
340+50			374	2035		
			37	204	20 FT RT TOP BRK	
			103	138	47 FT. RT.	
			125	116	71 " "	
T.P.	03	71	1727	682	105 FT RT T.P	
			47	24	29° 15' 154'	
			75	-04	34° 40' 194'	
			80	-09	36° 53' 212'	
			94	-23	40° 17' 242'	
			97	-26	45° 16' 297'	
			106	-35	49° 30' 354'	
			116	-45	50° 39' 364'	
			132	-6.1 ~~-5~~ 1	53° 06' 413'	
			163	-92	55° 12' 454'	
			182	-11 1	56° 32' 485'	

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F.B. 2307 Pg. 107
No. ____ Date ____ Date ____ Survey of Beach Erosion Sur.
X-Sec. Notes Chkd. ____ Checked ____ Survey by English & Dreier Date 7-17-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2307 Pg. 109
No.	Date	Date	Survey of BEACH EROSION		
X-Sec.	Notes Chkd.	Checked	Survey by M.A. VANDAREN	Notes V.L.	Date 7-17-58
No.	Date	Date	Map No.	Index C. Johnson	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At 340+50	Sight On S-25	Depth # Rec. Adj.	Time 7:06	Hor. Ang. 82° 00	
#1				" "	
2				" "	
3				" "	
4				" "	
5				" "	
6				" "	
7				" "	
8				" "	
9				" "	
10				" "	
11				" "	
12				" "	
13				" "	
14				" "	
15				" "	
16				" "	
17				" "	
18				" "	
19				" "	

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76298 S & E #307—7-55

F. B. 2307 Pg. 110 Job No. 6300.02 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION Date 7-17-58 Date No.

Survey by M. A. VAN DAREN Notes V.L. Notes Chkd. Checked X-Sec.

Indexed L. C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight At On # Depth Rec. Adj. Time Hor. Ang. Remarks
					340-50 5-25
					20
					21
					22
					7:10
					82° 00
					" "
					" "
					" "

76298 S & E #307—7-55

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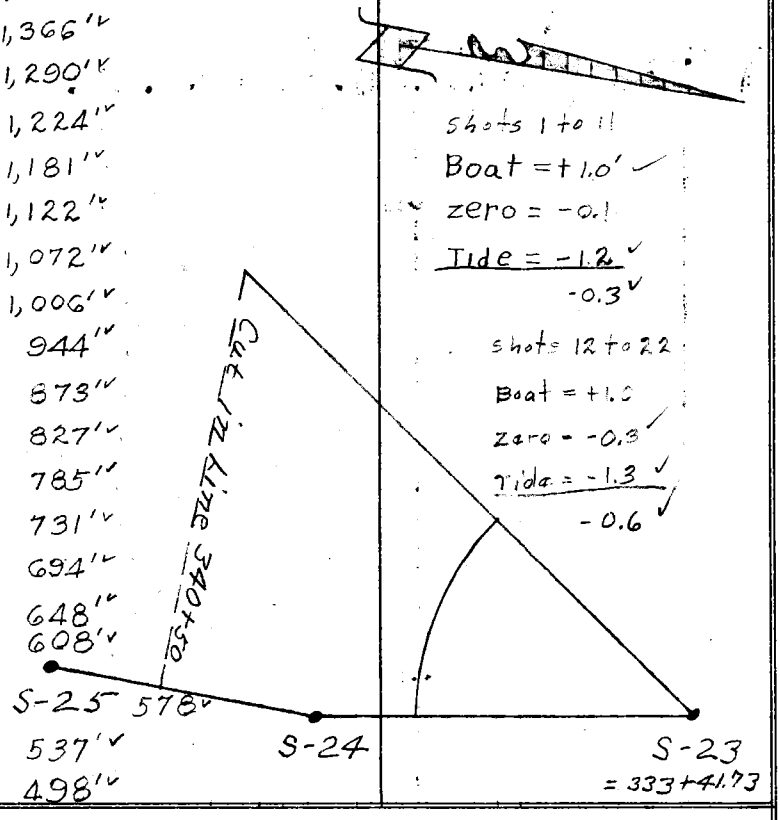
STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
S-23 = 333+41.73	S-24	1	34.4	34.1	7:06	63° 32'	1,508' Cut in Line 340+50
		2	33.2	32.9		62° 20'	1,426'
		3	32.4	32.1		61° 26'	1,366'
		4	30.7	30.4		60° 09'	1,290'
		5	29.6	29.3		58° 57'	1,224'
		6	28.2	27.9		58° 08'	1,181'
		7	26.9	26.6		56° 56'	1,122'
		8	25.8	25.5		55° 49'	1,072'
		9	25.0	24.7		54° 16'	1,006'
		10	23.8	23.5		52° 40'	944'
		11	23.0	22.7		50° 43'	873'
		12	22.7	22.1		49° 18'	827'
		13	21.3	20.7		47° 54'	785'
		14	19.2	18.6		46° 01'	731'
		15	18.2	17.6		44° 40'	694'
		16	16.6	16.0		42° 52'	648'
		17	15.4	14.8		41° 15'	608'
		18	14.0	13.4		39° 53'	S-25 578'
		19	12.8	12.2		38° 05'	537'
		20	11.1	10.5		36° 07'	498'



Shots 1 to 11
Boat = +1.0'
zero = -0.1
Tide = -1.2
-0.3

Shots 12 to 22
Boat = +1.0
zero = -0.3
Tide = -1.3
-0.6

Profile Notes Red. ____ Plotted ____ Job No. 300.02 Division No. 10 F. B. 2307 Pg. 111
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Vanderen Notes R.T. Date 7-17-58
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____
C. Johnson

F. B. 2307 Pg. 112 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 7-17-58 Date No.

Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
S-23	21	10.2 9.6		34°46'	471'	Cut in Line 340+50
S-24	22	9.4 8.8	7:10	34°04'	457'	

Boat = +1.0
Zero = -0.3
Tide = -1.3
-0.6

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 335+00	Sight on 338+00
T.P.	17 27	24 09		6 82	T.P. 105 FT RT	STAT. 340+50
			176	22 33		INSHORE
			16	22 5	11 FT RT TOP BRK	338+00
			~~16~~	~~22 5~~	~~11 FT RT TOP BRK~~	
			71	17 0	25 " RT BOT CLOVE	
			110	~~13~~ 13.1	65 " "	
			129	11 2	100 " "	
			135	10 6	110 " " TOP BRK	
T.P.	0 5	6 9	17 73	6 36	140 " "	
			5 0	~~+2.0~~ +1.9	33° 39' 210'	
			8 1	-1 2	37° 32' 244'	
			8 5	-1 6	41° 32 284'	
			9 6	-2 7	45° 16 326'	
			11 4	-4 5	50° 12' 393'	
			12 8	-5 9	55° 05 478'	
			17 3	-10 4	58° 35 554'	

Profile Notes Red. _____ Plotted _____ Job No. 03000 02 Division No. 10 F. B. 2307 Pg. 113
No. _____ Date _____ Date _____ Survey of Beach Erosion Surv.
X-Sec. Notes Chkd. _____ Checked _____ Survey by Dinger & Foley Date 7-17-58
No. _____ Date _____ Date _____ Map No. _____ Indexed C. Johnson

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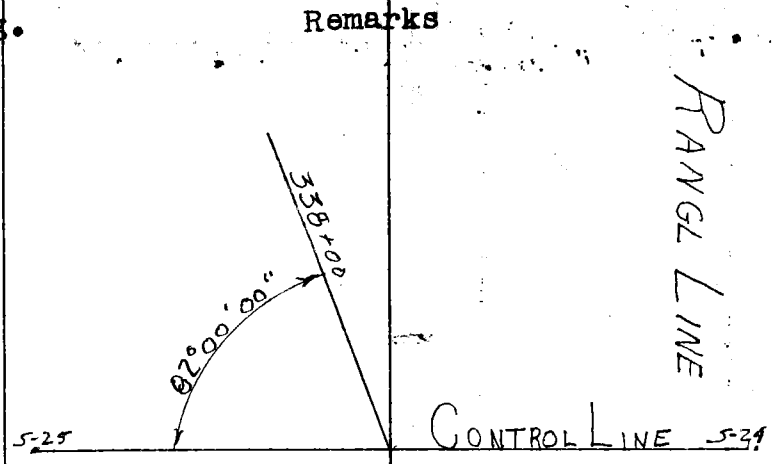
STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Remarks	
338+00	S-25				7:18	82° 00		
#1						" "		
2						" "		
3						" "		
4						" "		
5						" "		
6						" "		
7						" "		
8						" "		
9						" "		
10						" "		
11						" "		
12						" "		
13						" "		
14						" "		
15						" "		
16						" "		
17						" "		
18						" "		
19						" "		



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 115
No. ____ Date ____ Date ____ Survey of BEACH EROSION
X-Sec. Notes Chkd. ____ Checked ____ Survey by M.A. VAN DAREN Notes V.L. Date 7-17-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date

76298 S & E #307—7-55

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F. B. 2307 Pg. 116 Job No. 0300.02 Division No. 10 Notes Red. Plotted
Profile No.
Survey of BEACH EROSION Date 7-17-58 Date
X-Sec. No.
Survey by M. VAN DAKEN Notes VL Notes Chkd. Checked
Indexed C. Jones Date Date Date

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.		Remarks
338+00	5-25			82° 00		
20				" "		
21				" "		
22				" "		
23				" "		
24			7:22	" "		

76298 S & E #307—7-55

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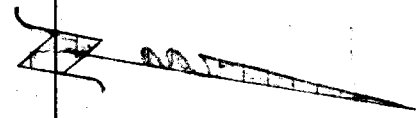
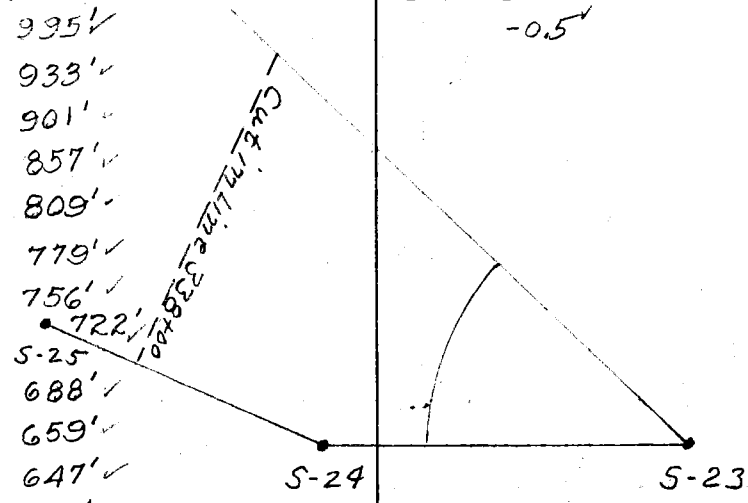
STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		1	33.9	33.4	7:18	70° 53'	1480'	Cut in Line 338+00
		2	32.7	32.2		70° 20'	1,428'	
		3	31.4	30.9		69° 32'	1,361'	
		4	30.3	29.8		68° 27'	1,278'	
		5	29.8	29.3		67° 46'	1,230'	
		6	28.7	28.2		66° 51'	1,169'	
		7	27.6	27.1		65° 40'	1,104'	
S-23	S-24	8	26.1	25.6		64° 19'	1,028'	
		9	24.8	24.3		63° 37'	995'	
		10	23.9	23.4		62° 17'	933'	
		11	22.9	22.4		61° 32'	901'	
		12	21.9	21.4		60° 24'	857'	
		13	20.9	20.4		59° 05'	809'	
		14	20.4	19.9		58° 13'	779'	
		15	19.9	19.4		57° 30'	756'	
		16	19.1	18.6		56° 20'	722'	
		17	17.5	17.0		55° 09'	688'	
		18	16.6	16.1		54° 04'	659'	
		19	15.9	15.4		53° 32'	647'	
		20	14.8	14.3		52° 03'	609'	



Boat = +1.0'
Zero = +0.0'
Tide = -1.5
-0.5



Profile Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 10 F. B. 2307 Pg. 117
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes ____ Date 7-17-58
No. ____ Date ____ Date ____ Map No. ____ Inspected C. Johnson

76298 S & E #307—7-55

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F. B. 2307 Pg. 118 Job No. 0300.02 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Study Date 2-17-58 Date
Survey by Van Deren Notes P. 7 Notes Chkd. Checked
Indexed L. A. Engineer Date Date
Profile No. X-Sec. No.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Rec.	Depth Adj.	Time	Hor. Ang.		Remarks
		21	13.5	12.0		50° 58'	583'	
		22	12.3	10.8		49° 05'	543'	Cut in Line 338+00
		23	10.7	9.2		47° 47'	519'	
		24	9.9	8.4	7:22	46° 20'	490'	
S-23	S-24							Boat = +1.0
								zero = +0.0
								Tide = -1.5
								-.05

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 333+00	Sight on 335+00
T.P	17 27	24 09		6 82	FROM T.P. TOP PAGE 338+00	
B.M. S-24	1 00	22 91	2 18	21 91		INSHORE
335+00			1 95	20 96		335+00
			17	21 2	10 FT RT. TOP BRK	
			10 1	12 8	52 " " BOT BRK	
			11 3	11 6	100 " "	
			11 8	11 1	110 " " TOP BRK	
T.P	1 2	6 5	17 62	5 29	155 " " T.P	
			5 1	+1 4	15° 55' 206'	
			7 2	-0.7	50° 21' 239'	
			9 2	-2 7	58° 31 322'	
			11 7	-5 2	65° 20' 430'	
			15 2	-8 7	66° 50 461'	
			18 2	-11 7	69° 00 513'	

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F.B. 2307 PG. 119
No. ____ Date ____ Date ____ Survey of Beach Erosion Snr.
X-Sec. Notes Chkd. ____ Checked ____ Survey by English & Dreier Notes Date 7-17-58
No. ____ Date ____ Date ____ Map No. ____ Index No. C. [illegible]

76298 S & E #307—7-55

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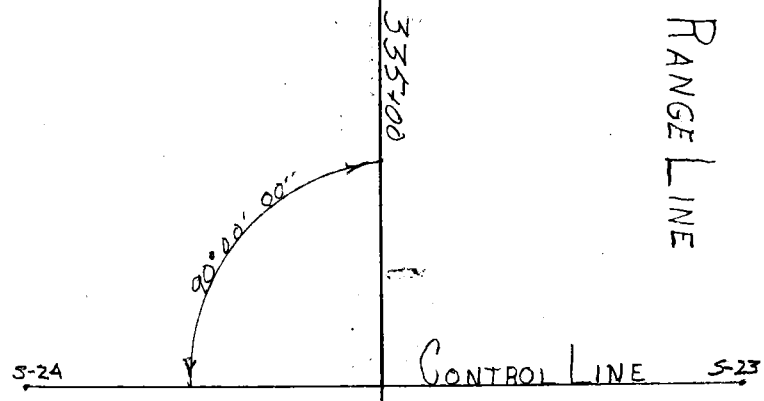
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	
335+00	S-24			7:34	90° 00	
1					" "	
2					" "	
3					" "	
4					" "	
5					" "	
6					" "	
7					" "	
8.					" "	
9					" "	
10					" "	
11					" "	
12					" "	
13					" "	
14					" "	
15					" "	
16					" "	
17					" "	
18					" "	
19				7:57	" "	



Profile Notes Red. ____ Plotted ____ Job No. 0300-02 Division No. 10 F. B. 2307 Pg. 121
No. ____ Date ____ Date ____ Survey of BEACH EROSION
X-Sec. Notes Chkd. ____ Checked ____ Survey by N.A. VAN DAREN Notes VL Date 7-17-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

76298 S & E #307—7-55

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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.

7:38
7:40

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
335+00	S-24				90° 00		
#20				7:38	" "		
21					" "		
22					" "		
23					" "		
24					" "		
25				7:40	" "		
26				7:41	" "		
27					" "		
28					" "		
29					" "		
30					" "		
31					" "		
32					" "		
33					" "		
34					" "		
35					" "		
36				7:44	" "		

F. B. 2307 Pg. 122
Job No. 0300.02 Division No. 10 Notes Red. Plotted
Survey of BEACH EROSION Date 7-17-58 Date
Survey by M.A. VAN DAREN Notes V.L. Notes Chkd. Checked
Indexed ~~L. C. Jones~~ Date Date Date
Profile No. X-Sec. No.

76298 S & E #307—7-55

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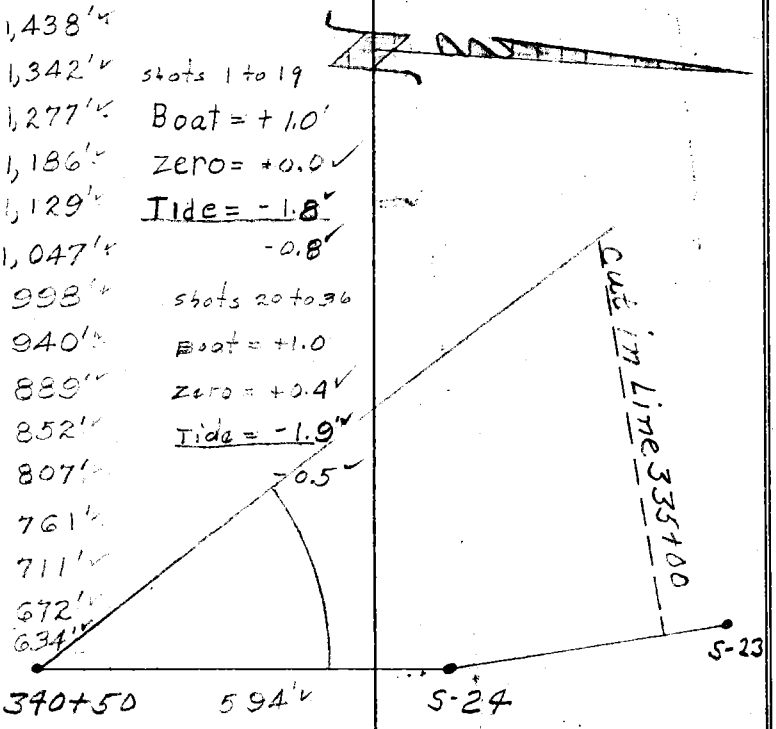
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
340+50	S-24	1	35.3	34.5	7:34	76° 31'	1,602' Cut in Line 335+00
		2	34.3	33.5		75° 09'	1,488'
		3	33.2	32.4		74° 28'	1,438'
		4	32.2	31.4		73° 03'	1,342' shots 1 to 19
		5	29.8	29.0		71° 58'	1,277' Boat = +1.0'
		6	28.7	27.9		70° 18'	1,186' Zero = +0.0
		7	27.1	26.3		69° 09'	1,129' Tide = -1.8
		8	26.1	25.3		67° 20'	1,047' -0.8
		9	24.8	24.0		66° 08'	998' shots 20 to 36
		10	23.2	22.4		64° 34'	940' Boat = +1.0
		11	22.4	21.6		63° 08'	889' Zero = +0.4
		12	21.6	20.8		62° 00'	852' Tide = -1.9
		13	20.9	20.1		60° 26'	807' -0.5
		14	19.9	19.1		58° 46'	761'
		15	18.2	17.4		56° 48'	711'
		16	17.2	16.4		55° 06'	672'
		17	16.2	15.4		53° 20'	634'
		18	14.7	13.9		51° 23'	340+50 594' S-24
		19	—	—	7:38	48° 41'	
		20	21.1	20.6	7:39	61° 25'	836'



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 123
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 3-17-58
No. Date Date Map No. Indexed C. Johnson

76298 S & E #307—7-55

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F. B. 2307 Pg. 124 | Job No. 2300.02 Division No. 10 Notes Red. Plotted. Profile
Survey of Beach Erosion Study Date 2-12-58 Date No. X-Sec.
Survey by Van Deren Notes P.T. Notes Chkd. Checked.
Indexed A. C. Johnson Date Date Date No.

STATION Inst. At	Sight On	B. S. #	H. I. Rec.	Depth Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
340+00	S-29	21	20.3	19.8		59° 24'	778'	
		22	18.4	17.9		59° 55'	738'	Cut in Line 335+00
		23	17.4	16.9		56° 10'	696'	
		24	16.6	16.1		59° 36'	662'	Boat = +1.0
		25	15.9	15.4	7:41	52° 56'	625'	zero = +0.4
		26	21.2	20.7	7:42	60° 45'	816'	Tide = -1.9
		27	19.8	19.3		59° 09'	772'	-.5
		28	18.3	17.8		59° 03'	717'	
		29	17.2	16.7		56° 31'	706'	
		30	16.1	15.6		53° 42'	643'	
		31	15.5	15.0		52° 26'	615'	
		32	14.4	13.9		50° 57'	584'	
		33	13.2	12.7		49° 34'	560'	
		34	11.9	11.4		48° 00'	531'	
		35	9.4	8.9		44° 18'	471'	
		36	7.9	7.4	7:44	41° 56'	434'	

76298 S & E #3[illegible]

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 335+00	Sight on 333+00
B.M. S-24	100	2291		2191		INSHORE 333+00
333+00			284	2007		
			27	202	17' RT. TOP BRK	
			88	141	35' RT.	
			113	116	55' RT BOT BRK	
			123	106	100 RT TOP BRK	
T.P.	16	~~7~~ 7.1 ~~4~~	1738	5 ~~8~~ 53	140' RT. T.P.	
			57	+1.4 ~~1.7~~	44° 57' 194'	
			82	-1.1 ~~-0.8~~	50° 52' 236'	
			105	-3.4	55° 45' 281'	
			114	-4.3 ~~-5~~	61° 07 342'	
			124	-5.3 ~~-8~~	66° 43' 433'	
			180	-10.9 ~~-10.6~~	67° 24 446'	

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2703 PG. 125
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Sur.
Notes Chkd. ____ Checked ____ Survey by English & Preich Date 7-17-58
Date ____ Date ____ Map No. ____ Indexed ~~X~~ C. Johnson Date ____

76298 S & E #307—7-55

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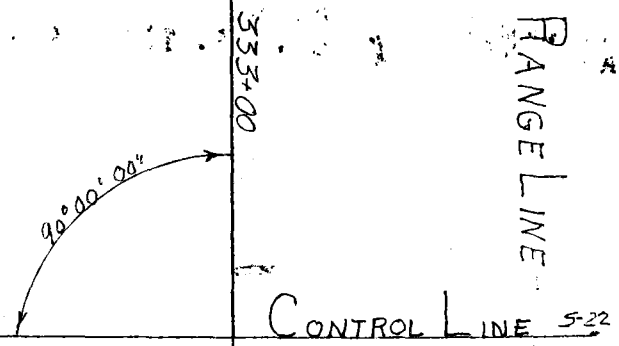
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
333+00	5-23			8:01	90° 00		
#1					" "		
2					" "		
3					" "		
4					" "		
5					" "		
6					" "		
7					" "	5-23	CONTROL LINE 5-22
8					" "		
9					" "		
10					" "		
11					" "		
12					" "		
13					" "		
14					" "		
15					" "		
16					" "		
17					" "		
18					" "		
19					" "		



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 127
No. ____ Date ____ Date ____ Survey of BEACH EROSION
X-Sec. Notes Chkd. ____ Checked ____ Survey by M.A. VAN DAREN Notes VL Date 7-17-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

76298 S & E #307—7-55

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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.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
333+00	S-23					90°	00	
# 20						"	"	
21						"	"	
22						"	"	
23						"	"	
24						"	"	
25						"	"	
26						"	"	
27						"	"	
28						"	"	
29						"	"	
30						"	"	
31						"	"	
32						"	"	
33						"	"	
34						"	"	
35						"	"	
36						"	"	
37						"	"	
38						"	"	

F. B. 2307 Pg. 128 Job No. 0300.02 Division No. 10 Notes Red. Plotted No. Profile
Survey of BEACH EROSION Date 7-17-58 Date X-Sec.
Survey by M.A. VAN DAREN Notes VL. Notes Chkd. Checked No.
Indexed [illegible] Date Date Date

76298 S & E #307—7-55

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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.

8-10

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Remarks	
333+00	5-23					90° 00		
#39						" "		
40						" "		
41						" "		
42						" "		
43						" "		
44					8:11	" "		

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 129
No. ____ Date ____ Date ____ Survey of BEACH EROSION
X-Sec. Notes Chkd. ____ Checked ____ Survey by M.A. VanDaren Notes K. Date 7-17-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

F. B. 2307 Pg. 130 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION Date 7-17-58 Date No.

Survey by M.A. VAN DAREN Notes V.L. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On		Depth # Rec. Adj.	Time	Hor. Ang.		Remarks

76298 S & E #307—7-55

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
S-22	S-23	1	49.1	48.1	8:01	69° 21'	2581'	
		2	47.7	46.7		68° 26'	2462'	Cut in Line 333+00
		3	46.7	45.7		67° 46'	2380'	
		4	45.9	44.9		67° 25'	2339'	
		5	45.2	44.2		66° 55'	2283'	
		6	44.2	43.2		66° 10'	2203'	Boat = +1.0'
		7	43.5	42.5		65° 36'	2145'	Zero = +0.4
		8	43.2	42.2		65° 05'	2095'	Tide = -2.4
		9	42.5	41.5		64° 39'	2054'	-1.0
		10	41.2	40.2		63° 58'	1992	
		11	—			63° 18'		
		12	—			62° 26'		
		13	—			61° 46'		
		14	—			60° 41'		
		15	37.1	36.1		59° 34'	1656'	
		16	35.8	34.8		58° 11'	1568'	
		17	34.9	33.9		57° 09'	1507'	
		18	33.8	32.8		55° 50'	S-23	1433' S-22
		19	32.5	31.5		54° 15'		1351'
		20	30.2	29.2		52° 16'		1257'

Cut 176 in Line 333+00

Profile Notes Red. Plotted Job No. 300002 Division No. 10 F. B. 2307 Pg. 131
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Dereen & Co. Date 2-17-58
No. Date Date Map No. Indexed Noted C. Johnson

76298 S & E #307—7-55

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F. B. 2302 Pg. 132 Job No. 0300.02 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Study Date 5-12-58 Date No. Profile
Survey by Van Dexen Notes R.T. Notes Chkd. Checked X-Sec.
Indexed C. Schneider Date Date Date No.

STATION Inst. At	Sight On	B. S. #	H. I. Rec.	Depth Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
		21	28.7	27.6		50° 16'	1167'	
		22	27.9	26.8		48° 20'	1094'	Cut in Line 333+00
		23	26.5	25.4		46° 58'	1042'	
		24	25.5	24.4		45° 19'	981'	Boat = +1.0'
		25	24.6	23.5		43° 46'	932'	zero = +0.4'
		26	23.6	22.5		42° 20'	886'	Tide = -2.5'
		27	22.8	21.7		41° 36'	861'	-1.1'
		28	22.0	20.9		40° 47'	840'	
5-22	5-23	29	21.6	20.5		39° 53'	813'	
		30	20.8	19.7		38° 56'	786'	
		31	20.1	19.0		37° 40'	751'	
		32	19.5	18.4		36° 39'	723'	
		33	19.0	17.9		35° 45'	701'	
		34	18.2	17.1		33° 48'	651'	
		35	17.3	16.2		33° 00'	631'	
		36	16.3	15.2		31° 42'	601'	
		37	15.3	14.2		30° 41'	577'	
		38	14.7	13.6		29° 39'	554'	
		39	13.8	12.7		28° 18'	523'	
		40	12.8	11.7		27° 02'	496'	

76298 S & E #307—7-55

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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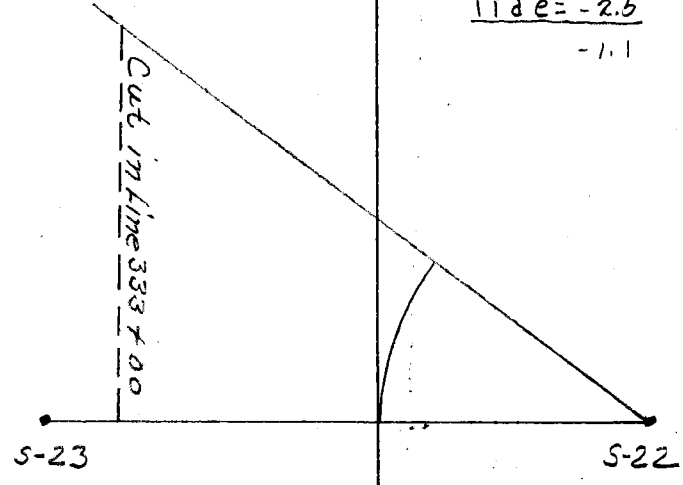
Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		41	11.8	10.7		25° 56'	473'	
		42	—		8:10	24° 43'		Cut in Line 333+00.
		43	13'	12.0	8:11	27° 15'	501'	
		44	—		8:11	25° 41'		
		45						
S-22	S-23							

Boat = +1.0'
zero = +0.4'
Tide = -2.5
-1.1



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 PG. 133
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 7-17-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

F. B. 2307 Pg. 134 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 7-17-58 Date No.

Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

76298 S & E #307—7-55

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On		Depth # Rec. Adj.	Time	Hor. Ang.		Remarks

76L298 S & E #307 9-54

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

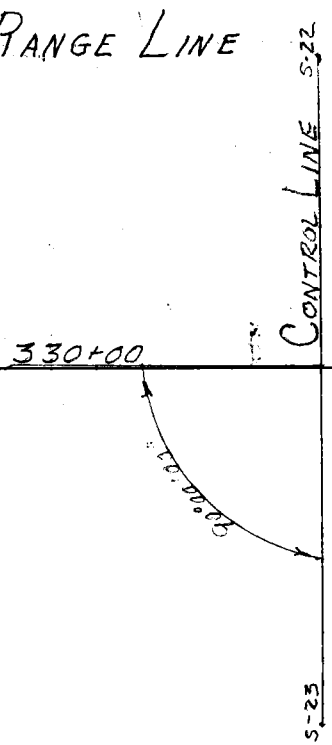
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 328+30	Sight on 330+00
B.M. S-24	1 00	22 91		2191	CONT. FROM T.P. 333+00	
B.M. S-23	4 92	24 99	2 84	2007		INSHORE 330+00
330+00	1 36	21 85	4 50	20 49	T.P. ON STAT 330+00	
			10	208	15 FT. RT TOP BRK	
			52	166	20 " "	
			105	113	44 " " BOT. BRK	
			11 5	103	75 " " TOP BRK	
			150	6 8	100 " "	
T.P.	1 6	7 9	1560	6 25	105 " " T.P.	
			4 3	3 6	39°09' 138'	
			97	-1 8	52°53' 225'	
			11 4	-3 5	64°08' 351'	
			170	-9 1	67°05' 402'	

Profile Notes Red. ____ Plotted ____ Job No. 030002 Division No. 10 F. B. 2307 Pg. 135
No. ____ Date ____ Date ____ Survey of Beach Erosion Sur.
X-Sec. Notes Chkd. ____ Checked ____ Survey by English & Driver Date 7-17-58
No. ____ Date ____ Date ____ Map No. 1 Indexed C. Johnson Date ____

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2307	Pg. 137
No.	Date	Date	Survey of BEACH EROSION			
X-Sec.	Notes Chkd.	Checked	Survey by M.A. VAN DAREN	Notes VL	Date 7-17-58	
No.	Date	Date	Map No.	Ind. [illegible] C. Johnson		



Inst. At	Sight On	B. B. #	H. I. Depth Rec. Adj.	F. B. Time	ELEV. Hor. Ang.	Remarks
330+00	S-23			8:25	90° 00'	
#1					" "	
2					" "	
3					" "	
4					" "	
5					" "	
6					" "	
7					" "	
8					" "	
9					" "	
10					" "	
11					" "	
12					" "	
13					" "	
14					" "	
15					" "	
16					" "	
17					" "	
18					" "	
19					" "	

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76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
330+00	S-23				90° 00		
20					" "		
21					" "		
22					" "		
23					" "		
24					" "		
25					" "		
26					" "		
27					" "		
28					" "		
29					" "		
30					" "		
31					" "		
32					" "		
33					" "		
34					" "		
35					" "		
36					" "		
37					" "		
38				8:36	" "		

F. B. 2307 Pg. 138
Job No. 0300.02 Division No. 10 Notes Red. Plotted
Survey of BEACH EROSION Date 7-17-58 Date
Survey by M.A. VANDANEY Notes Chkd. Checked
Indexed C. Johnson Date Date
Profile No. X-Sec. No.

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks				
		1	—		8:25	77° 50'					
		2	—			77° 00'	Cut in Line 330+00				
		3	—			76° 00					
		4	—			75° 04'					
		5	—			73° 13'					
		6	—			71° 28'					
		7	—			70° 17'					
S-22	S-23	8	—			68° 27'					
		9	—			66° 20'		Boat	Zero	Tide	Total
		10	36.9	35.2		65° 26'	1473'	+1.0	+0.2	-2.9	-1.7
		11	—			64° 21'					
		12	34.7	33.2		63° 00	1321'	+1.0	+0.4	-2.9	-1.5
		13	33.0	31.5		61° 15'	1227'	"	"	"	"
		14	32.0	30.6		60° 12'	1175'	"	+0.5	"	-1.4
		15	31.4	30.0		59° 13'	1130'	"	+0.5	"	"
		16	30.7	29.3		58° 27'	1096'	"	+0.5	"	"
		17	29.9	28.0		57° 04'	1039'	"	+0.0	"	-1.9
		18	28.6	26.7		55° 16'	S-23 970'	"	"	"	S-22
		19	27.4	25.5		54° 06'	929'	"	"	"	"
		20	26.2	24.3		52° 42'	884'	"	"	"	"

Cut in Line 330+00

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. 10 F. B. 2307 Pg. 139
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Vanderen Notes R.T. Date 7-17-58
No. ____ Date ____ Date ____ Map No. ____ Ind. Ed. C. Johnson

76298 S & E #307—7-55

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STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks Boat	Zero	Tide	Total
		21	25.0	23.1		51° 17'	840'	+1.0	+0.1	-3.0	-1.9
		22	24.0	22.3		49° 44'	795'	+1.0	+0.3	"	-1.7
		23	22.6	20.4		47° 47'	742'	+1.0	+0.3	"	"
		24	21.2	19.5		46° 07'	700'	"	"	"	"
		25	20.3	18.6		44° 26'	660'	"	"	"	"
		26	19.0	17.3		43° 28'	638'	"	"	"	"
		27	18.8	17.1		42° 31'	617'	"	"	"	"
S-22	S-23	28	18.3	16.6		41° 12'	589'	"	"	"	"
		29	17.8	16.0		40° 13'	569'	"	"	3.1	-1.8
		30	16.1	14.3		39° 04'	546'	"	"	"	"
		31	15.2	13.4		37° 50'	523'	"	"	"	"
		32	14.2	12.4		36° 34'	499'	"	"	"	"
		33	13.2	11.4		34° 49'	468'	"	"	"	"
		34	12.5	10.7		33° 47'	450'	"	"	"	"
		35	11.7	9.9		32° 27'	428'	"	"	"	"
		36	11.2	9.4		30° 53'	402'	"	"	"	"
		37	9.9	8.1		29° 01'	374'	"	"	"	"
		38	8.7	6.9	8:36	27° 09'	345'	"	"	"	"

Cut in Line 330+00

F. B. 2307 Pg. 146 Job No. 0300.02 Division No. 10 Notes Red. Plotted Date 7-17-58 Date Profile No. X-Sec. No.
Survey of Beach Erosion Study Notes Chkd. Checked Date
Survey by Van Deren Notes R.T. Date
Indexed C. Johnson Date

76L298 S & E #307 9-54

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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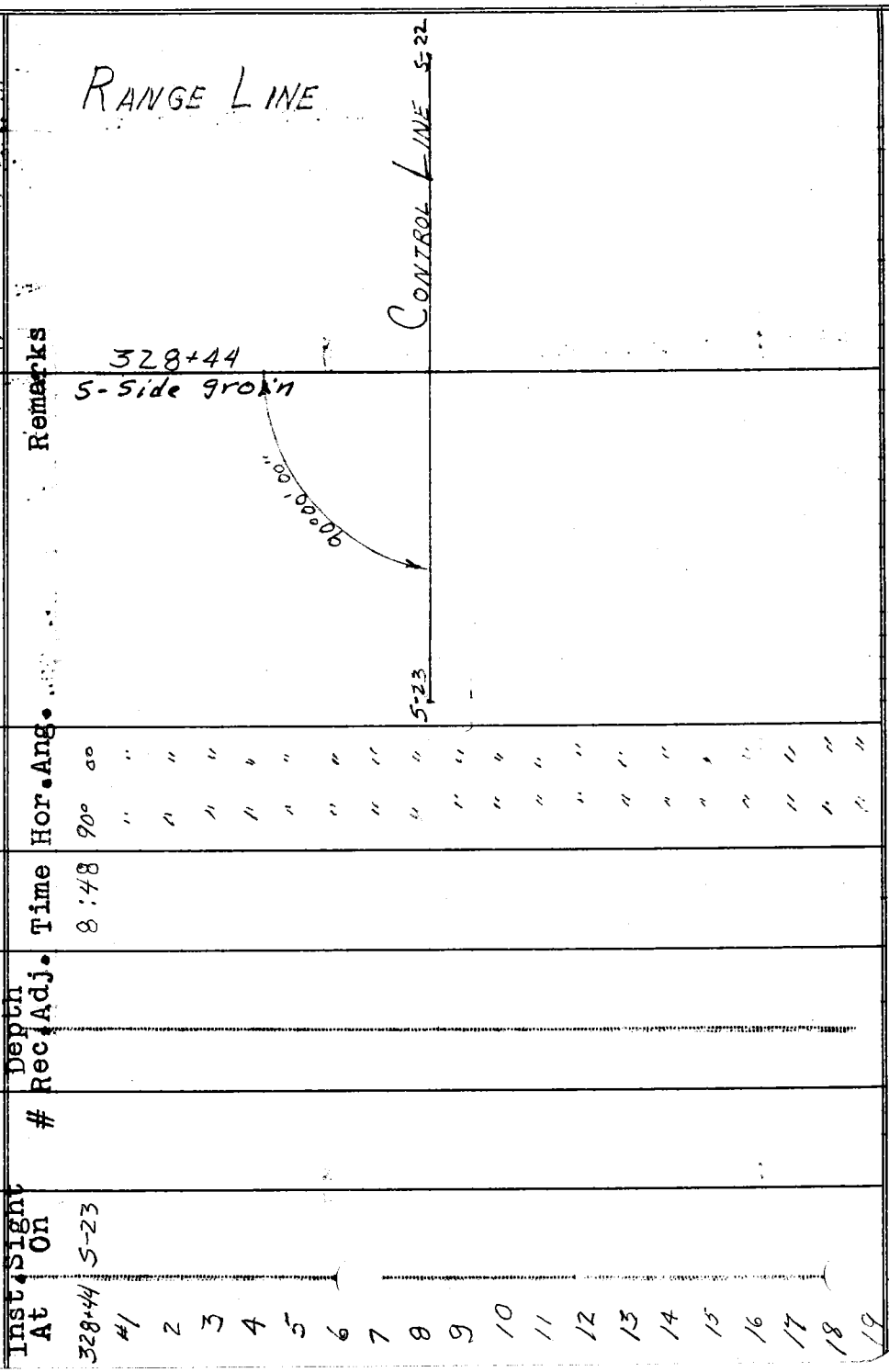
STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 327+00	Sight on 328+44
STAT. 330	136	21 85		20 49	CONT. FROM 330+00	INSHORE
T. P.	10 49	22 74	9 60	12 25		328+44
328+44			1 46	21 28		
			10	21 7	15 FT RT TOP BRK.	
			45	18 2	21 " " BOT "	
			57	17 0	30 " " TOP "	
			80	14 7	36 " " BOT "	
			119	10 8	74 " " TOP "	
			136	9 1	75 " " BOT "	
T. P.	2 1	7 8	17 02	5 72	106 FT RT T. P.	
			54	2 4	42° 14' 131'	
			98	-2 0	53° 37' 196'	
			124	-4 6	65° 47' 320'	
			169	-9 1	71° 18' 425'	
			185	-10 7	72° 42' 462'	

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 141
No. ____ Date ____ Date ____ Survey of BEACH EROSION
X-Sec. Notes Chkd. ____ Checked ____ Survey by English & Parker Date 7-17-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2307	Pg. 143
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by N. C. Van Doren	Notes VL	Date 7-17-58	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	



STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.	
328+44 5-23			8:48	90° 00	
#1				" "	
2				" "	
3				" "	
4				" "	
5				" "	
6				" "	
7				" "	
8				" "	
9				" "	
10				" "	
11				" "	
12				" "	
13				" "	
14				" "	
15				" "	
16				" "	
17				" "	
18				" "	
19				" "	

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700 Los Angeles County Engineering Bldg.

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76298 S & E #307—7-55

F. B. 2307 Pg. 144 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION Date 7-17-58 Date _____ No. _____

Survey by M.A. Van DAREN Notes V2 Notes Chkd. _____ Checked _____ X-Sec.

Indexed A. C. Johnson Date _____ Date _____ Date _____ No. _____

76298 S & E #307—7-55

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On 328+44 5.23	# Depth Rec. Adj.		Time	Hor. Ang. 90° 00	
#20				"	
21				"	
22				"	
23				"	
24				"	
25				"	
26				"	
27				"	
28				"	
29				"	
30				"	
31				"	
32				"	
33				"	
34				"	
35				"	
36				"	
37			8:58	"	

76298 S & E #307—7-55

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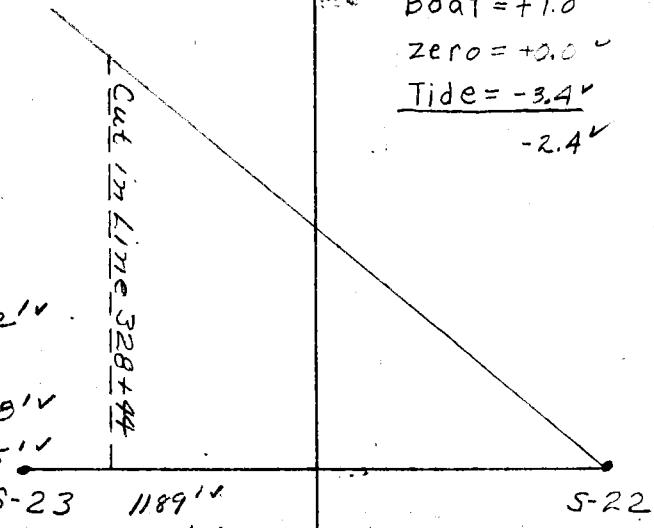
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
S-22	S-23	1			8:48	79° 24'	
		2	—			78° 50'	Cut in Line 328+44
		3	—			78° 05'	
		4	—			77° 37'	
		5	—			77° 11'	
		6	—			76° 48'	
		7	—			76° 16'	Boat = +1.0
		8	—			75° 25'	zero = +0.0
		9	—			74° 26'	Tide = -3.4
		10	—			73° 57'	-2.4
		11	—			73° 04'	
		12	—			72° 14'	
		13	—			71° 12'	
		14	39.[illegible]	37.2		70° 01'	1422'
		15	—			69° 26'	
		16	38.[illegible]	35.7		69° 01'	1348'
		17	35.9	33.5		67° 27'	1245'
		18	35.2	32.8		66° 30'	S-23 1189'
		19	33.6	31.2		65° 34'	1138'
		20	31.6	29.2		64° 33'	1086'



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 145
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 7-17-58
No. ____ Date ____ Date ____ Map No. ____ Indexed by [illegible]

76298 S & E #307—7-55

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F. B. 2307 Pg. 146 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile No.
Survey of Beach Erosion Study Date 7-17-58 Date X-Sec. No.
Survey by Van Deren Notes P.T. Notes Chkd. Checked
Indexed L. C. Johnson Date Date Date

STATION Inst. At	Sight On	B. S. #	H. I. Rec.	Depth Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks	
		21	29.9	27.4		62° 49'	1007'		
		22	28.8	26.3		61° 31'	953'	Cut in Line	328+44
		23	27.8	25.3		60° 35'	917'		
		24	26.4	23.9		59° 29'	877'	Boat = +1.0'	
		25	25.4	22.9		58° 04'	830'	zero = +0.0	
		26	24.8	22.3		56° 28'	780'	Tide = -3.5	
		27	23.5	21.0		54° 41'	730'	-2.5	
		28	21.6	19.1		52° 51'	682'		
S-22	S-23	29	19.0	16.5		50° 21'	624'		
		30	17.6	15.1		48° 06'	576'		
		31	15.7	13.2		45° 49'	531'		
		32	14.5	12.0		43° 20'	488'		
		33	13.2	10.7		41° 05'	451'		
		34	12.0	9.5		39° 38'	428'		
		35	10.9	8.4		37° 46'	401'		
		36	9.9	7.4		35° 40'	371'		
		37	8.9	6.4	8:58	33° 21'	340'		

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.		
T.P	10 49	22 74		12 25	CONT. FROM LINE 2 328+44	INSHORE
328			14	21 3		328+30
			09	21 8	15 FT RT. TOP BRK	℄ GROIN
			46	18 1	22 " " BOT	
			53	17 4	31 " " TOP	
			82	14 5	40 " " BOT	
			106	12 1	60 " " SAND JOINS TOP ROCKS	
			114	11 3	90 " " TOP ROCKS	
			152	7 5	122 " " " "	
			170	5 7	140 " " " "	

Profile Notes Rd. _____ Plotted _____ Job No. 0300.02 Division No. 10 F. B. 2307 PG. 197
No. _____ Date _____ Date _____ Survey of BEACH EROSION
X-Sec. Notes Chkd. _____ Checked _____ Survey by DREIER & Notes DREIER Date 7-17-58
No. _____ Date _____ Date _____ Map No. _____ Indexed _____ Date _____

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 327+00	Sight on 328+16
T.P.	10 49	22 74		12 25	CONT. FROM 328+44	(LINE 2)
328+16			1 31	21 43		INSHORE 328+16
			1 2	21 5	16 FT RT TOP BRK	
			45	18.2	22 " " BOT "	
			52	17 5	30 " " TOP "	
			83	14 4	38 " " BOT "	
			98	12 9	46 " " TOP "	
			154	7 3	70 " " BOT "	
T.P.	1 9	7 2	1748	5 26	87 0 " " T.P.	
			5 8	1 4	56°03' 173'	
			81	-0 9	64°30' 243'	
			108	-3 6	72°42' 372'	
			129	-5 7	77°55' 542'	
			151	-7 9	80°50' 719'	
			160	-8 8	83°10 968	

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2307 PG. 149
No. Date Date Survey of Beach Erosion Sur.
X-Sec. Notes Chkd. Checked Survey by English & Dreier Date 7-17-58
No. Date Date Map No. Indexed Date

76L298 S & E #307 9-54

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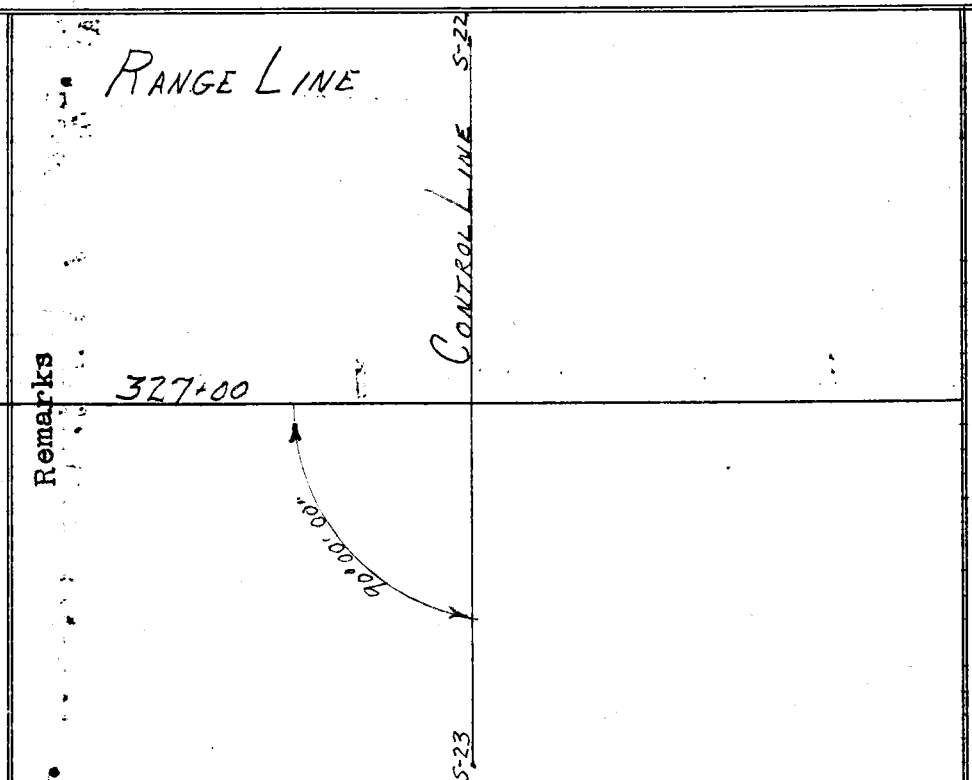
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 325+50 Sight on 327+00	
T.P.	10 49	22 74		12 25	CONT. FROM 328+44 (LINE 2)	
327+00			0 76	21 98		INSHORE 327+00
			0 7	220	17 FT. RT. TOP BRK	
			9 5	132	32 " " BOT. "	
			11 9	108	42 " " " "	
T.P.	1 8	7 9	16 66	6 08	70 " " T.P.	
			4 7	3 2	32° 39' 104'	
			6 9	+1 0	45° 36' 158'	
			8 6	-0 7	52° 05' 193'	
			9 8	-1 9	58° 15' 242'	
			11 5	-3 6	63° 39' 303'	
			12 4	-4 5	68° 22' 366'	
			14 9	-7 0	68° 13' 375'	
			16 4	-8 5	70° 12' 417'	
			18 0	-10 1	71° 36' 460'	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 157
No. ____ Date ____ Date ____ Survey of BEACH EROSION
X-Sec. Notes Chkd ____ Checked ____ Survey by English Crew Date 7-17-58
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Job Page ____

Profile	Notes Red.	Plotted	Job No 0300.02	Division No. 10	F. B. 2307	Pg. 153
No.	Date	Date	Survey of BEACH EROSION			
X-Sec.	Notes Chkd.	Checked	Survey by MA. VAN DAREN	Notes VL	Date 7-17-58	
No.	Date	Date	Map No.	Indexed A. C. Johnson	Date	



STATION		B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	
327+00	5-23			9:09	90° 00'	
#1					" "	
2					" "	
3					" "	
4					" "	
5					" "	
6					" "	
7					" "	
8					" "	
9					" "	
10					" "	
11					" "	
12					" "	
13					" "	
14					" "	
15					" "	
16					" "	
17					" "	
18					" "	
19					" "	

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76298 S & E #307—7-55

F. B. 2307 Pg. 154 | Job No. 0300.02 Division No. 10 | Notes Red. | Plotted | Profile

Survey of BEACH EROSION | Date 7-17-58 | Date | No.

Survey by M.A. VAN DOREN [redacted] Notes VL | Notes Chkd. | Checked | X-Sec.

Indexed | Date | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On		Depth Rec. Adj.	Time	Hor. Ang.		Remarks
32+00 S-23				90° 00		
20				"		
21				"		
22				"		
23				"		
24				"		
25			9:17	"		

Do not extend notes this side of this line.

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76298 S & E #307—7-55

76298 S & E #307—7-55

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

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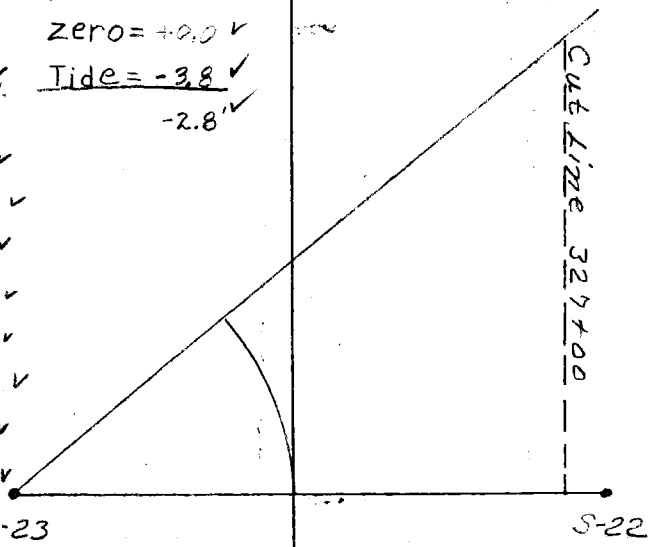
STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		1	—		9:09	71° 43	
		2	—			69° 30'	Cut in Line 327+00
		3	—			67° 31'	
		4	—			65° 26'	
		5	—			62° 42'	
		6	—			59° 34'	Boat = +1.0'
		7	—			57° 40'	zero = +0.0 ✓
S-23	S-22	8	29.2	26.4 ✓	9:13	54° 51'	912' ✓ Tide = -3.8 ✓
		9	—		9:14	58° 07'	-2.8' ✓
		10	30.3	27.5 ✓		55° 38'	939' ✓
		11	28.4	25.6		53° 55'	881' ✓
		12	26.0	23.2 ✓		50° 56'	791' ✓
		13	24.3	21.5 ✓		49° 03'	740' ✓
		14	22.7	19.9 ✓		47° 13'	694' ✓
		15	20.1	17.3 ✓		45° 13'	647' ✓
		16	18.6	15.8 ✓		43° 40'	613' ✓
		17	17.5	14.7 ✓		41° 54'	576' ✓
		18	16.5	13.7 ✓		40° 07'	541' ✓
		19	15.6	12.8 ✓		38° 42'	514' ✓
		20	14.5	11.7 ✓		36° 43	479' ✓



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 155
Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 7-17-58
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76298 S & E #307—7-55

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

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

Do not extend notes this side of this line.

F. B. 2307 Pg. 156 Job No. 300.02 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Study Date 2-12-58 Date No. X-Sec.
Survey by Van Deren Notes R.T. Notes Chkd. Checked
Indexed C. Johnson Date Date Date No. Profile

STATION Inst. At	STATION Sight On	B. S. #	H. I. Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
		21	13.2	10.4		34° 40	444'	
		22	12.0	9.2		33° 24	423'	Cut in Line 327+00
		23	11.4	8.6		31° 49	398'	
		24	10.4	7.6		30° 22	376'	Boat = +1.0'
		25	8.9	4.1	9:17	28° 17	345'	zero = ~~+0.0'~~
		26						Tide = -3.8
								-2.8
S-23	S-22							

76L298 S & E #307 9-54

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.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 324+00	Sight on 325+50
T. P.	1049	22 74		12 25	CONT. FROM 328+44 LINE 2	
T. P.	051	22 52	073	22 01	T.P. (NEAR 327+00)	INSHORE 325+50
325+00			110	21 42	℄	
			18	20 7	12 FT RT TOP OF BRK	
			90	13 5	25 " " BOT.	"
T. P.	17	8 0	1624	6 28	67 " " T.P.	
			5 4	2 6	37°28' 115'	
			8 2	-0 2	50°55' 185'	
			9 5	-1 5	56°44' 229'	
			10 1	-2 1	56°57' 231'	
			11 6	-3 6	64°30' 315'	
			14 7	-6 7	68°32' 372'	
			17 8	-9 8	71°26' 447'	

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 157
No. Date Date Survey of Beach Erosion Sur.
X-Sec. Notes Chkd. Checked Survey by English & Dreier Date 7-17-58
No. Date Date Map No. Inspector Date

76298 S & E #307—7-55

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

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Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Rec.	Depth Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
325+50	5-23				9:26	90°	00'	RANGE LINE
#1						"	"	
2						"	"	325+50
3						"	"	
4						"	"	
5						"	"	
6						"	"	
7						"	"	90°00'00"
8						"	"	
9						"	"	5-23 CONTROL LINE 5-22
10						"	"	
11						"	"	
12						"	"	
13						"	"	
14						"	"	
15						"	"	
16						"	"	
17						"	"	
18						"	"	
19						"	"	

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 T. B. 2307 Pg. 159
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION
Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by MA VanDoren Notes K. Date 7-17-58
Map No. ____ Indexed C. Johnson

F. B. 2307 Pg. 160 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION Date 7-17-58 Date No.

Survey by M.A. VAN DAREN Notes VL Notes Chkd. Checked X-Sec.

Indexed C. Johnson Date Date Date No.

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. B.	ELEV.		
Inst. At	Sight On	Depth # Rec. Adj.	Time	Hor. Ang.		Remarks
325+50	5-23			90° 00		
#20				" "		
21				" "		
22				" "		
23				" "		
24				" "		
25				" "		
26			9:34	" "		

76298 S & E #307—7-55

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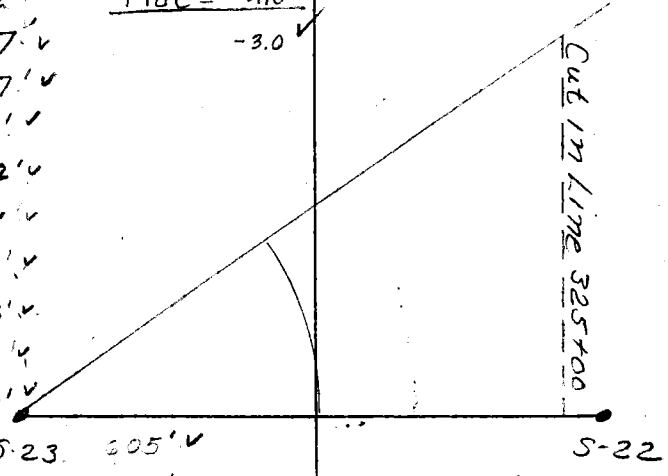
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		1	—		9:26	65° 48'	
		2	—			64° 16'	Cut in Line 325+50
		3	—			63° 36'	
		4	—			59° 57'	
		5	—			57° 57'	
		6	—			54° 33'	Boat = +1.0'
		7	—			48° 54'	zero = +0.0
S-23	S-22	8	27.9	24.9	9:30	46° 39'	892' Tide = -4.0
		9	32.3	29.3	9:31	50° 06'	1007' -3.0
		10	30.7	27.7		48° 56'	967'
		11	28.6	25.6		47° 15'	911'
		12	26.9	23.9		45° 21'	852'
		13	25.8	22.8		43° 24'	797'
		14	24.8	21.8		42° 18'	766'
		15	23.7	20.7		41° 15'	738'
		16	22.2	19.2		39° 22'	690'
		17	20.9	17.9		37° 48'	653'
		18	19.5	16.5		35° 43'	605'
		19	17.7	14.7		34° 00'	568'
		20	16.2	13.2		32° 25'	535'



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 161
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes RT Date 7-17-58
No. Date Date Map No. Indexed C. Johnson

76298 S & E #307—7-55

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		21	14.9	11.9		30° 21'	493'
		22	14.1	11.1		29° 05'	468' Cut in Line 325+50
		23	12.6	9.6		27° 14'	434'
		24	11.1	8.1		25° 30'	402' Boat=+1.0'
		25	9.2	6.2		24° 50'	390' zero=-0.0
		26	8.1	5.1	9:34	22° 45'	353' Tide=-4.0
		27					-3.0
		28					
S-23	S-22	29					
		30					

F. B. 2307 Pg. 162 Job No. 0300.02 Division No. 10 Notes Red. Plotted Date 7-17-58 Date Profile No. X-Sec. No.
Survey of Beach Erosion Study Notes Chkd. Checked Date
Survey by Van Deren Notes P.T. Date
Indexed C. Johnson Date

76L298 S & E #307 9-54

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LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

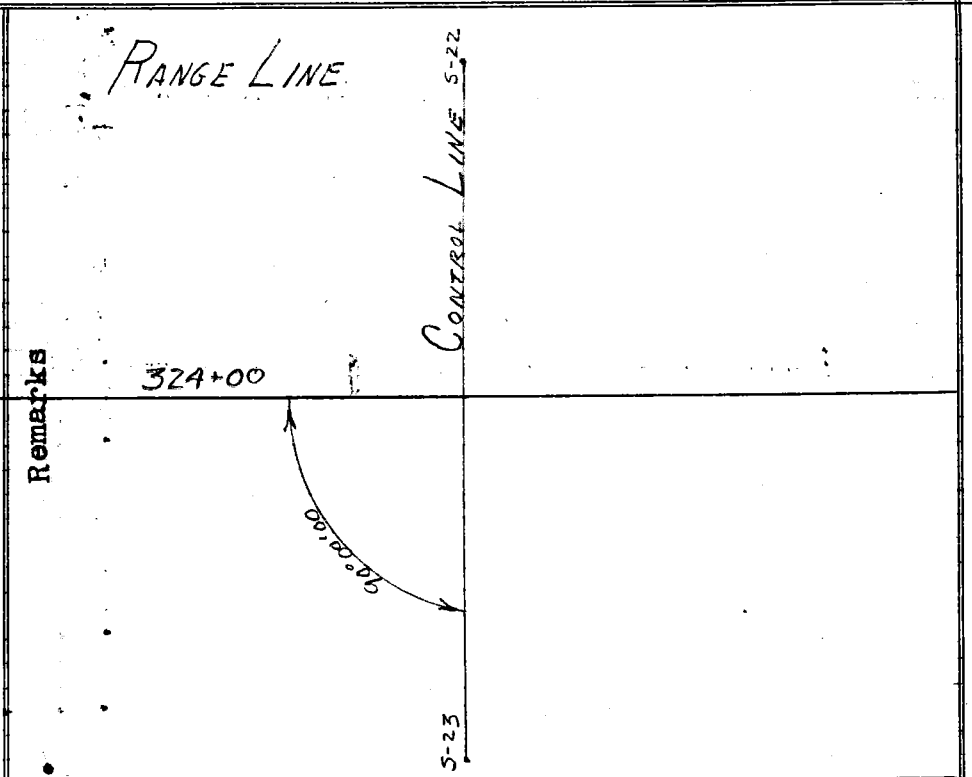
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 325+50	Sight on 324+00
T.P	0 51	22 52		22 01	CONT. FROM LINE 2 325+50	INSHORE 324+00
324+00			1 61	20 91	±	
			1 6	20 9	6 FT RT. TOP BREAK	
			10 0	12 5	22 " " BOT "	
T.P.	0 2	6 3	16 39	6 13	60 " " T.P.	
			3 6	2 7	31° 57' 94'	
			6 0	+0 3	44° 35' 148'	
			8 4	-2 1	51° 37 189'	
			10 2	-3 9	57° 47' 238'	
			11 1	-4 8	58° 59' 249'	
			12 8	-6 5	62° 57 294'	
			16 2	-9 9	66° 51' 351'	

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2302 PG. 163
No. ____ Date ____ Date ____ Survey of BEACH EROSION
X-Sec. Notes Chkd. ____ Checked ____ Survey by English & Preier Date 7-17-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Job

Profile No.	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2307 Pg. 165
	Date	Date	Survey of BEACH EROSION		
X-Sec. No.	Notes Chkd.	Checked	Survey by MA VAN DAREN	Notes VL	Date 2-17-58
	Date	Date	Map No.	Indexed C. Johnson	Date



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.	
324+00 5-23			9:44	90° 00	
#1				" "	
2				" "	
3				" "	
4				" "	
5				" "	
6				" "	
7				" "	
8				" "	
9				" "	
10				" "	
11				" "	
12				" "	
13				" "	
14				" "	
15				" "	
16				" "	
17				" "	
18				" "	
19				" "	

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LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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76298 S & E #307—7-55

F. B. 2307 Pg. 166 | Job No. 0300.02 Division No. 10 | Notes Red. | Plotted | Profile

Survey of BEACH EROSION | Date 7-17-58 | Date | No.

Survey by M. VAN DAREN [redacted] | Notes VL | Notes Chkd. | Checked | X-Sec.

Indexed [redacted] | Date | Date | Date | No.

76298 S & E #307—7-55

PLEASE RETURN TO

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.	
324+00	5.23			90° 00	
*20				" "	
21				" "	
22				" "	
23			9:49	" "	

76298 S & E #307—7-55

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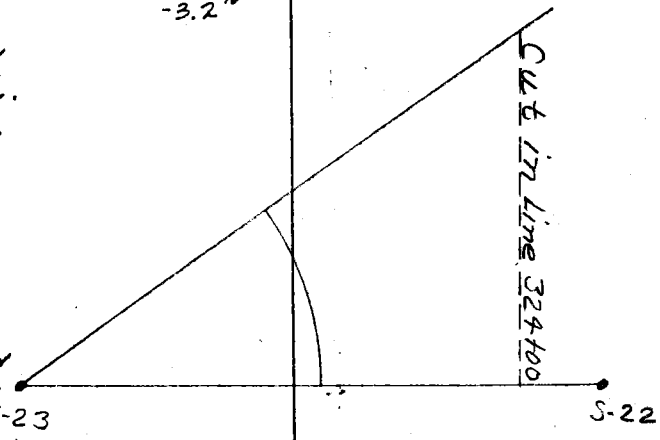
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
S-23	S-22	1	—		9:44	62° 16	
		2	—			59° 52'	Cut in Line 324+00
		3	—			57° 34'	
		4	—			55° 00'	
		5	—			51° 42'	
		6	—			49° 04'	Boat = +1.0
		7	—			45° 53'	Zero = +0.0
		8				43° 03'	Tide = -4.2
		9	—			41° 03'	-3.2
		10	26.8	23.1		39° 36'	779'
		11	24.4	21.2		37° 51'	732'
		12	22.[illegible]	19.9		36° 17'	691'
		13	20.8	17.6		33° 52'	632'
		14	18.7	15.5		31° 15'	572'
		15	16.5	13.3		28° 24'	510'
		16	15.4	12.2		26° 51'	477'
		17	13.4	10.2		24° 17'	425'
		18	12.6	9.4		22° 54'	398'
		19	11.5	8.3		21° 50'	378'
		20	10.4	7.2		20° 30'	352'



Profile Notes Red. ____ Plotted ____ Job No. 030002 Division No. 16 F. B. 2307 Pg. 167
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 7-17-58
No. ____ Date ____ Date ____ Map No. ____ Ind. Ed C. Johnston

76298 S & E #307—7-55

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
		21	9.3	6.1 ✓		19° 18'	330' ✓	
		22				17° 38'		Cut in Line 324+00
		23			9:49	16° 28'		
		24						Boat=+1.0
		25						zero=+0.0 ✓
		26						Tide= -4.2'
		27						-3.2 ✓
S-23	S-22							

F. B. 2307 Pg. 168 Job No. 2300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 7-17-58 Date No.
Survey by Van Dorn Notes R.T. Notes Chkd. Checked X-Sec.
Indexed Date Date Date No.

76298 S & E #307—7-55

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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.	Inst. at 324+00	Sight on 323+00
	0 51	22 52		22 01	CONT. FROM LINE 2 325+50	
B.M. S-22	0 79	21 42	1 89	20 63	B.M. S-22 ELEV. 20.610 F.B. 2100-157	
323+00			0 87	20 55	℄	INSHORE
			11	20 3	7 FT. RT. TOP BRK	323+00
			73	14 1	18 FT RT TOP PLANK WALL	
			95	11 9	18.5 " " BOT " "	
T. P.	3 0	8 4	16 01	5 41	67 " " T. P.	
			6 2	2 2	49° 13' 113'	
			8 0	+0 4	56° 01' 144'	
			9 3	-0 9	61° 12' 176'	
			10 6	-2 2	66° 38' 221'	
			12 1	-3 7	69° 51' 259'	
			14 2	-5 8	73° 53' 326'	
			17 0	-8 6	76° 30' 338'	
			19 0	-10 6	75° 49' 367'	

Profile No. ____ Date ____ Notes Red. ____ Plotted ____ Date ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 169

X-Sec. No. ____ Date ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of BEACH EROSION Survey by Dreier & English Notes Date 7-17-58 Map No. ____ Indexed C. Johnson

76298 S & E #307—7-55

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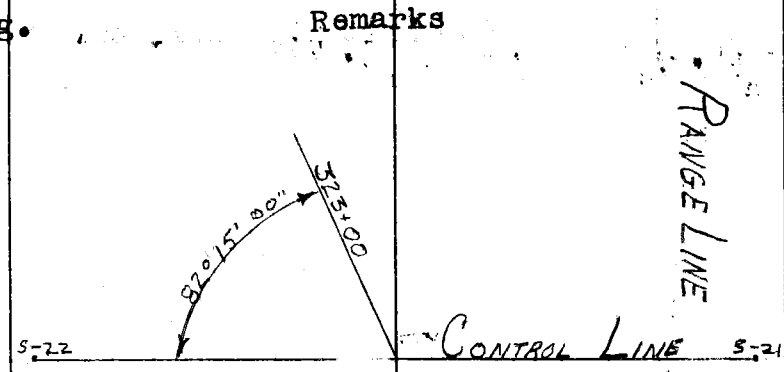
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
323+00	S-22			9:58	82° 15'		
#1					" "		
2					" "		
3					" "		
4					" "		
5					" "		
6					" "		
7					" "		
8					" "		
9					" "		
10					" "		
11					" "		
12					" "		
13					" "		
14					" "		
15					" "		
16					" "		
17					" "		
18					" "		
19					" "		



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 171
No. ____ Date ____ Date ____ Survey of BEACH EROSION
X-Sec. Notes Chkd. ____ Checked ____ Survey by M.A. VAN DAREN Notes K.L. Date 7-17-58
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ C. Johnson

F. B. 2307 Pg. 172 Job No 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION Date 7-17-58 Date No.

Survey by MR VAN DEEN Notes V.L. Notes Chkd. Checked X-Sec.

Indexed C. Johnson Date Date Date No.

76298 S & E #307—7-55

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.		
323+00	5-22			82° 15		
# 20				" "		
21			10:03	" "		

76298 S & E #307—7-55

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

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

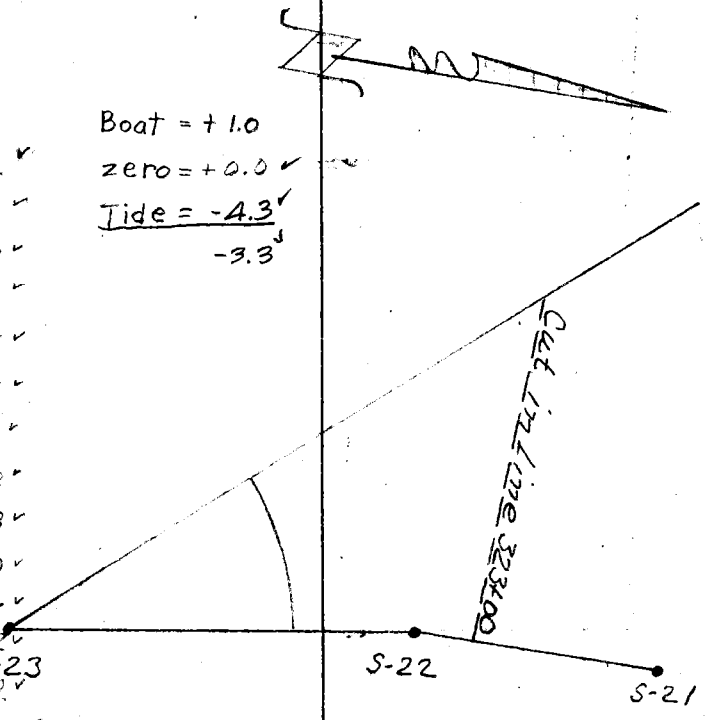
Do not extend notes this side of this line.

STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	
		1	—		9:58	55° 12	
		2				52° 10'	
		3				48° 27'	
		4				43° 45'	
		5				40° 10'	
		6				36° 30'	
		7	26.0	22.7		34° 25'	732
S-23	S-22	8	23.9	20.6		32° 40'	686
		9	22.[illegible]	19.4		30° 58'	640
		10	20.[illegible]	17.4		29° 09'	596
		11	[illegible]	16.3		27° 56'	565
		12	[illegible]	14.7		26° 48'	538
		13	[illegible]	13.9		25° 36'	511
		14	[illegible]	12.7		24° 10'	478
		15	14.[illegible]	11.5		23° 41'	468
		16	14.[illegible]	10.7		21° 30'	420
		17	12.[illegible]	9.6		20° 15'	393
		18	11.[illegible]	8.2		18° 49'	362
		19	10.[illegible]	7.5		17° 20'	332
		20				15° 43'	300

Remarks

Cut in Line 323+00

Boat = + 1.0
zero = + 0.0
Tide = -4.3
-3.3



Profile Notes Red. Plotted Job No. 2300.02 Division No. 10 F. B. 2307 Pg. 173
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Heyen Notes H.T. Date 12-17-58
No. Date Date Map No. Indexed C. Johnson

76298 S & E #307—7-55

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Do not extend notes this side of this line.

F. B. 2307 Pg. 174 Job No. 270.02 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Study Date 2-17-58 Date No.
Survey by Van Deren Notes K.T. Notes Chkd. Checked X-Sec.
Indexed A. C. Johnson Date Date Date No.
Profile

STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks	
S-23	S-22	21	—	10:03	14° 31	Cut in Line 323+00 Boat = +1.0' zero = Tide =	

76298 S & E #307—7-55

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 324+00	Sight on 322+00
T.P	0 79	21 42		20 63	CONT. LINE Z, 323+00	
T.P.	0 66	21 21	0 87	20 55	T.P. 323+00	INSHORE
322+00			1 06	20 15		322+00
			1 1	20 1	14 FT RT TOP	BRK
			8 4	12 8	24 " " BOT	BRK
			1 0	10 2	41 " " TOP	SLIGHT HUMP
T.P.	2 2	8 4	15 45	6 16	70 " " T.P.	
			5 4	3 0	29° 20' 106'	
			8 7	-0 3	40° 42' 157'	
			10 0	-1 6	49° 14' 205'	
			11 0	-2 6	54° 22' 241'	
			14 0	-5 6	62° 09' 311'	
			18 0	-9 6	68° 00' 386'	

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F.B. 2307 Pg. 175
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION
Notes Chkd. ____ Checked ____ Survey by PREIER & Notes G.E.D. Date 7-17-58
Date ____ Date ____ Map No. ____ Indexed ____ C. Johnson

76298 S & E #307—7-55

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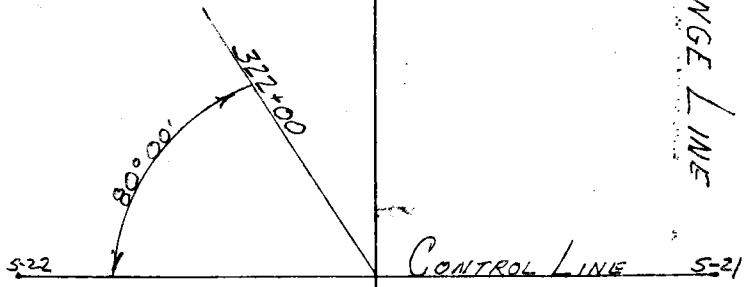
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
322+00	S-22			10:14	80° 00		
#1					" "		
2					" "		
3					" "		
4					" "		
5					" "		
6					" "		
7					" "		
8					" "		
9					" "		
10					" "		
11					" "		
12					" "		
13					" "		
14					" "		
15					" "		
16					" "		
17					" "		
18					" "		
19					" "		



Profile No. ____ Notes Red ____ Plotted ____ Job No. C300.02 Division No. 10 F. B. 2307 Pg. 177
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION
Notes Chkd. ____ Checked ____ Survey by M.A. VanDAREN Notes V.L. Date 7-17-58
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76298 S & E #307—7-55

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

Do not extend notes this side of this line.

STATION		S. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
322+00	S-22				80° 00		
#20					" "		
21					" "		
22					" "		
23					" "		
24					" "		
25					" "		
26					" "		
27				10:24	" "		

F. B. 2307 Pg. 178 Job No. 0300.02 Division No. 10 Notes Red Plotted Profile
Survey of BEACH EROSION Date 7-17-58 Date No. X-Sec.
Survey by M.A. VAN [illegible] Notes 12 Notes Chkd Checked
Indexed K. C. Johnson Date Date Date No.

76298 S & E #307—7-55

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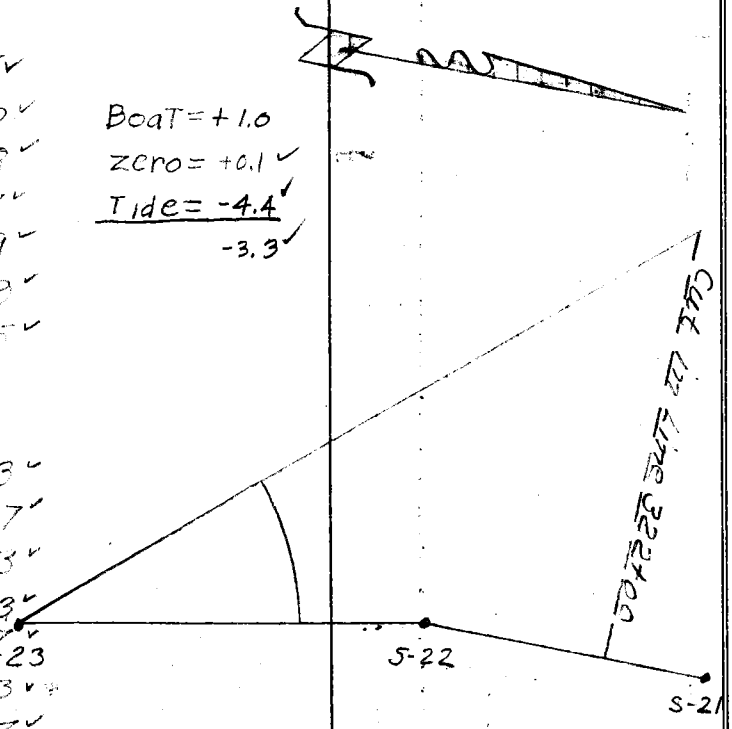
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION Inst. At	STATION Sight On	S. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		1	—		10:14	46° 56'	
		2	—			44° 55'	Cut in Line 322+00
		3	—			38° 45'	
		4	—			34° 05'	
		5	26.8	23.5		31° 32'	715
		6	24.9	21.6		29° 48'	670
		7	22.6	19.3		27° 48'	618
S-23	S-22	8	20.8	17.5		26° 31'	581
		9	19.6	16.3		25° 27'	559
		10	18.8	15.5		24° 35'	539
		11	17.4	14.1		23° 32'	515
		12	—			22° 12'	
		13	—		10:18	20° 49'	
		14	20.8	17.5	10:18	26° 00'	573
		15	19.2	15.9		25° 20'	557
		16	17.9	14.6		23° 52'	523
		17	16.8	13.5		22° 38'	493
		18	15.6	12.3	10:20	21° 03'	457
		19	18.4	15.1	10:22	23° 51'	523
		20	16.9	13.6		22° 09'	485

BoaT = +1.0
zero = +0.1
Tide = -4.4
-3.3



Profile Notes Red. ____ Plotted ____ Job No. 230402 Division No. 10 F. B. 2309 Pg. 179
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Date 6-17-58
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76298 S & E #307—7-55

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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 Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
		21	15.0	11.7		20° 41	450	
		22	13.4	10.1		19° 16	417	Cut in Line 322+00
		23	12.4	9.1		17° 58	389	
		24	11.2	7.9		16° 23	355	Boat = +1.0
		25	9.6	6.3		15° 16	331	zero = +0.1
		26	8.3	5.0		14° 00	304	Tide = -4.4
		27	7.1	3.8	10:24	12° 53	281	-3.3
S-23	S-22							

F. B. 2307 Pg. 180 Job No. 030002 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 2-17-58 Date No. X-Sec.
Survey by Van Deren Notes R.T. Notes Chkd. Checked
Indexed E. C. Johnson Date Date Date No.

76F309S CE #247—3-57

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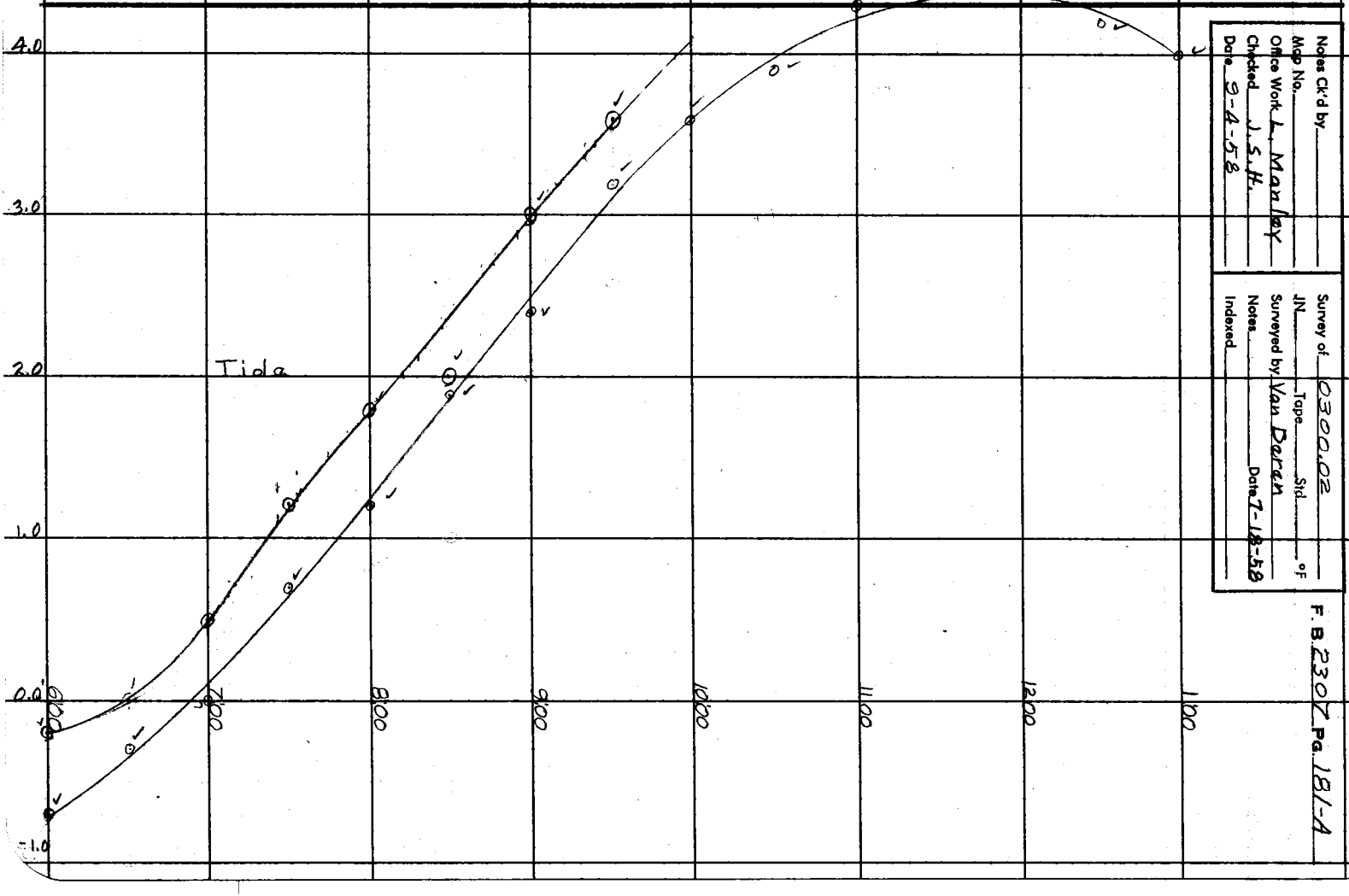
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.



Notes Ck'd by
Map No.
Office Work L. Manley
Checked J.S.H.
Date 9-4-58

Survey of 0300.02
JN Tape Std °F
Surveyed by Van Doren
Notes Date 7-18-58
Indexed

F.B. 2307 Pg. 181-A

Profile No.	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2307	Pg. 181
	Date	Date	Survey of Beach Erosion			
X-Sec. No.	Notes Chkd.	Checked	Survey by Van Deren	Notes Van	Date 7-18-58	
	Date	Date	Map No.	[redacted]		

7-18-58

3.0 on Datum Line

Time Check Gage Time = 7.57 High 4.2

P. D. S. T = 8-55 Low 3.1

STATION Inst. Sight At On	B. S. #	H. I. Depth Rec. Adj.	F. S. Time Hor. Ang.	ELEV. Remarks	Standard time	Reading	P. D. S. T.	
					5-00 AM	-.2	6.00	AM
					5-30 "	0.0	6-30	"
					6-00 "	+0.5	7-00	"
					6-30 "	1.2	7-30	"
					7-00 "	1.8	8-00	"
					7-30 "	2.0	8-30	"
					8-00 "	3.0	9-00	"
					8-30 "	3.6	9-30	"
					9-00 "		10-00	"
					9-30 "		10-30	"
					10-00 "		11-00	"
					10-30 "		11-30	"
					11-00 "		12-00	"
					11-30 "		12-30	PM
					12-00 "		1-00	"

"Note" Marking pencil removed from graph at 8:57 P.D.S.T.

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

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76298 S & E #307—7-55

F. B. 2307 Pg. 182 | Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date 7-18-58 Date No.

Survey by Van Deren Notes Van Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

76298 S & E #307—7-55

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LOS ANGELES COUNTY ENGINEER

700 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.	

76298 S & E #307—7-55

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

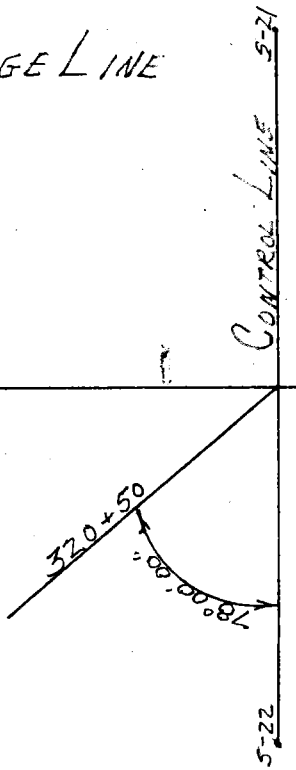
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 322+00	Sight on 320+50
T.P.	0 66	21 21		20 55	From LINE 2 322+00	
320+50	3 97	23 52	1 66	19 55	STAT. 320+50 T.P.	INSHORE
T.P.	0 2	7 8	15 89	07 63	70' R. Brk.	320+50
			+ 6 4	14 2	19' " "	
			+ 1 6	19 4	12 " "	
			5 5	2 3	46°17' 131' ✓	
			8 1	-0 3	56°39' 176' ✓	
			9 6	-1 8	64°33 222' ✓	
			11 0	-3 2	70°16' 268' ✓	
			13 2	-5 4	77°34 352' ✓	
			17 0	-9 2	81°34 422' ✓	

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 183
No. ____ Date ____ Date ____ Survey of Beach Erosion Sur.
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes Ed Date 7-18-58
No. ____ Date ____ Date ____ Map No. ____ Indexed ____

Profile No.	Notes Red.	Plotted	Job No. 2300.02 Division No. 10	F. B. 2307 Pg. 185
	Date	Date	Survey of BEACH EROSION	
X-Sec. No.	Notes Chkd.	Checked	Survey by MAVANDAREN Notes VI Date 7-18-58	
	Date	Date	Map No. Indexed C. Johnson	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On		Depth # Rec. Adj.	Time	Hor. Ang.	
320+50 5-22			7:26	78° 00	
.1				" "	
.2				" "	
.3				" "	
.4				" "	
.5				" "	
.6				" "	
.7				" "	
.8				" "	
.9				" "	
.10				" "	
.11				" "	
.12				" "	
.13				" "	
.14				" "	
.15				" "	
.16				" "	
.17				" "	
.18				" "	
.19				" "	

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
700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

76298 S & E #307—7-55

76298 S & E #307—7-55

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

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
320+50	S-22				78° 00		
#20					" "		
.21					" "		
.22					" "		
.23					" "		
.24					" "		
.25					" "		
.26					" "		
.27					" "		
.28					" "		
.29					" "		
.30					" "		
.31					" "		
.32					" "		
				7 33	" "		

F. B. 2307 PG. 186 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile No.
Survey of BEACH EROSION Date 7-18-58 Date X-Sec. No.
Survey by M. A. VAN DAREN Notes Chkd. Checked
Indexed R. G. J. Date Date Date No.

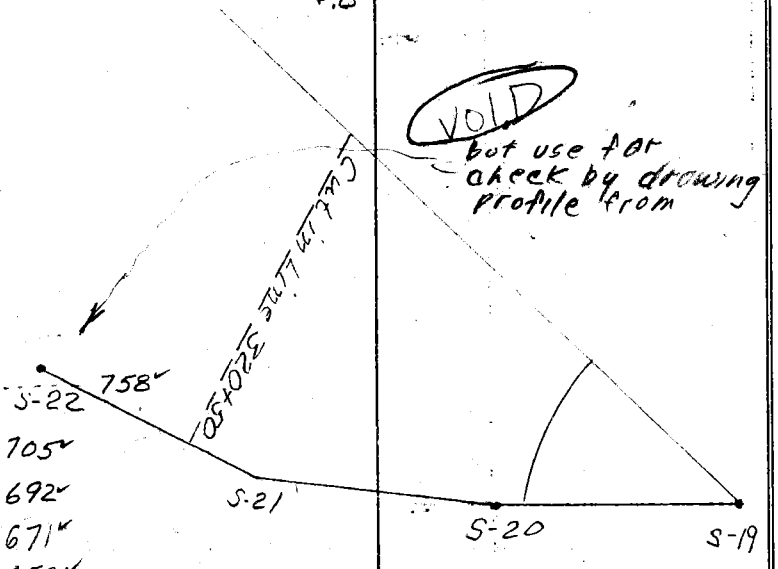
76298 S & E #307—7-55

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

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

Do not extend notes this side of this line.

STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		1			7:08	55 50'	One Shot was missed by Sounder
		2				53° 56'	Cut in Line 320+50
		3				52° 21	Boat = +1.0
		4				50° 04	Zero = +0.5
		5				48° 41	Tide = -0.7
		6				[illegible]	+.8
		7				45° 03	
		8				43° 17'	
		9				41° 00'	
		10				39° 13'	
		11				36° [illegible]	
		12				34° 17'	
		13				3[illegible]° 41	
		14				30° 17'	
		15	32.5	33.3		[illegible]	
		16	29.8	30.6		28° 21	705
		17	27.5	28.3		28° 00'	692
		18	25.6	26.4		27° 17'	671
		19	24.1	24.9		26° 43'	652
		20	22.4	23.2		26° 09	633



S-19 S-20

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 187
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 7-18-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

76298 S & E #307—7-55

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

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

Do not extend notes this side of this line.

F. B. 2307 Pg. 168 Job No. 2360.02 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Study Date 2-18-58 Date
Survey by Van Deren Notes R.T. Notes Chkd. Checked
Indexed L. C. Johnson Date Date
Profile No. X-Sec. No.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		21	21.3	22.0			614	
		22	20.2	20.9			590	Cut in Line 320+50
		23	18.8	19.5			562	
		24	17.2	17.9			535	
		25	15.8	16.5			511	Boat = +1.0
		26	14.6	15.3			487	Zero = +0.5
		27	13.5	14.2			471	Tide = -0.8
		28	12.5	13.2			446	+.7
5-19	5-20	29	11.6	12.3			415	
		30	10.3	11.0			394	
		31	8.7	9.4			371	
		32	7.6	8.3			340	
		33	6.6	7.3	7.16		325	
		34						

76298 S & E #307—7-55

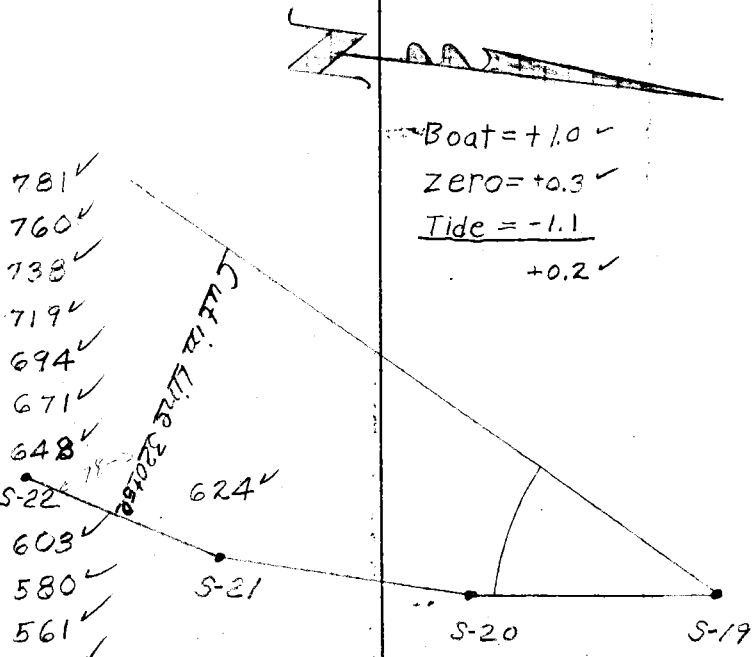
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		1	—		7:26	46° 50	
		2	—			44° 10'	Cut in Line 320+50
		3	—			42° 55	
		4	—			40° 00'	
		5	—			37° 20	
		6	—			33° 48'	
		7	—			31° 51	
S-19	S-20	8	34.6	34.8		30° 39'	781
		9	32.2	32.4		30° 00'	760
		10	29.9	30.1		29° 21'	738
		11	28.0	28.2		28° 45'	719
		12	25.8	26.0		28° 03'	694
		13	24.2	24.4		27° 20'	671
		14	22.6	22.8		26° 35'	648
		15	20.9	21.1		25° 55'	S-22 624
		16	19.9	20.1		25° 14'	603
		17	18.3	18.5		24° 30'	580
		18	17.1	17.3		23° 49	561
		19	16.1	16.3		23° 07	536
		20	15.2	15.4		22° 30	519

Boat = +1.0
Zero = +0.3
Tide = -1.1
+0.2



Profile Notes Red. Plotted Job No. 2309 Division No. 10 F.B. 2309 Pg. 189
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by VanDeren Notes R.T. Date 7-18-58
No. Date Date Map No. Indexed C. Johnson Date

76298 S & E #307—7-55

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

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

Do not extend notes this side of this line.

F. B. 2307 Pg. 190 Job No. 2300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 7-18-58 Date No.
Survey by Van Deren Notes N.T. Notes Chkd. Checked X-Sec.
Indexed R. C. Date Date Date No.

STATION Inst. At	STATION Sight On	B. S. #	H. I. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
		21	14.2	14.3		21° 48	500	
		22	13.2	13.3		21° 03	476	Cut in Line 320+50
		23	12.2	12.3		20° 20	455	
		24	11.2	11.3		19° 34	434	Boat = +1.0'
		25	10.1	10.2		18° 43	406	zero = -0.3
		26	9.1	9.2		18° 01	389	Tide = -1.2
		27	8.3	8.4		17° 30	371	+0.1
		28	7.6	7.7		17° 09	359	
5-19	5-20	29	6.4	6.5		16° 14	335	
		30	5.4	5.5		15° 36	317	
		31	4.5	4.6		14° 45	295	
		32	3.6	3.7	2:33	13° 52	271	
		33						

76L298 S & E #307 9-54

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

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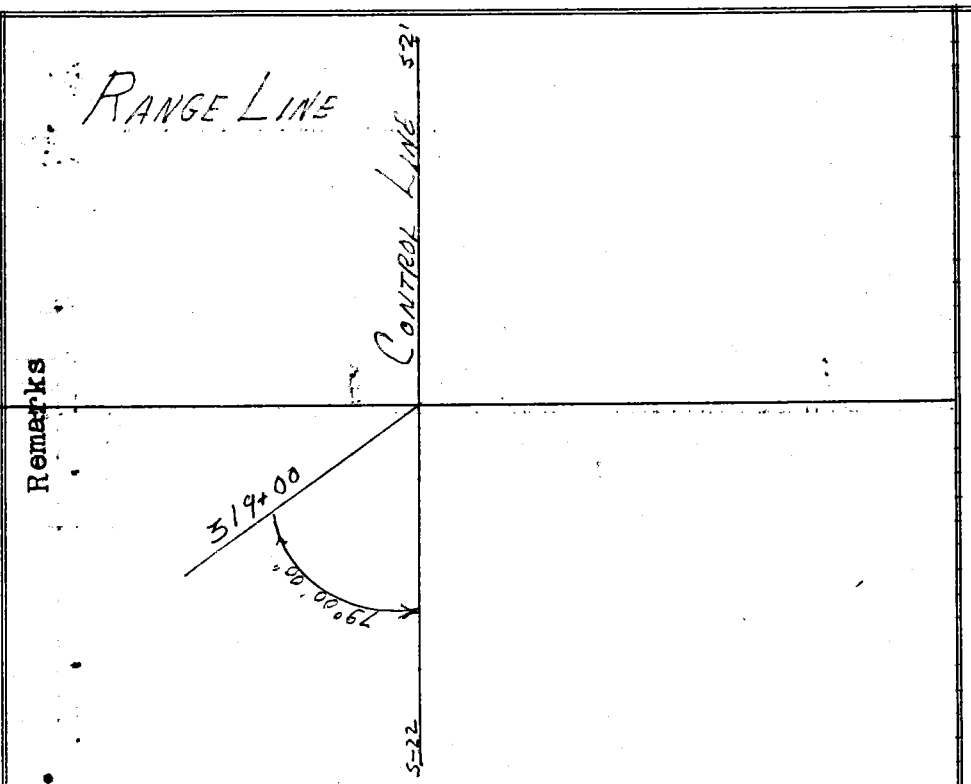
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 322+00	Sight on 319+00
T.P. 319+00	0 20	7 83		7.63		Inshore 319+00
					Control Line	
		+	1 5	19 3	18' R Brk.	
		+	4 5	12 3	32' R "	
		+	2 5	10 3	56' R "	
			1 0	6 8	81' R "	
			7 9	-0 1	32° 43' 175'	
			9 6	-1 8	40° 32' 224'	
			11 1	-3 3	47° 28' 274'	
			13 8	-6 0	54° 02' 332'	
			16 6	-8 8	59° 05' 384'	
			17 8	-10 0	61° 07' 409'	
			18 5	-10 7	? ~~60~~° 46' 418' 61° 46'	
T.P.			5 00	2 83		

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 191
No. Date Date Survey of Beach Erosion Sur.
X-Sec. Notes Chkd. Checked Survey by English Notes Ed. Date 7-18-58
No. Date Date Map No. Date

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2307	Pg. 193
No.	Date	Date	Survey of BEACH EROSION			
X-Sec.	Notes Chkd.	Checked	Survey by M.A. VAN DAPEN	Notes VL	Date 7-18-58	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.	
319+00 5-22			7:45	79°00	
#1				"	
2				"	
3				"	
4				"	
5				"	
6				"	
7				"	
8				"	
9				"	
10				"	
11				"	
12				"	
13				"	
14				"	
15				"	
16				"	
17				"	
18				"	
19				"	

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76298 S & E #307—7-55

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
319+00	5-22				79° 00		
#20					" "		
21					" "		
22					" "		
23					" "		
24					" "		
25					" "		
26					" "		
27					" "		
28					" "		
29					" "		
30					" "		
31					" "		
32					" "		
33				7 [illegible]	"		

F. B. 2307 Pg. 194 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of BEACH EROSION Date 7-18-58 Date No.
Survey by NAVAN DAREN Notes VL Notes Chkd. Checked X-Sec.
Index C. Johnson Date Date Date No.

76298 S & E #307—7-55

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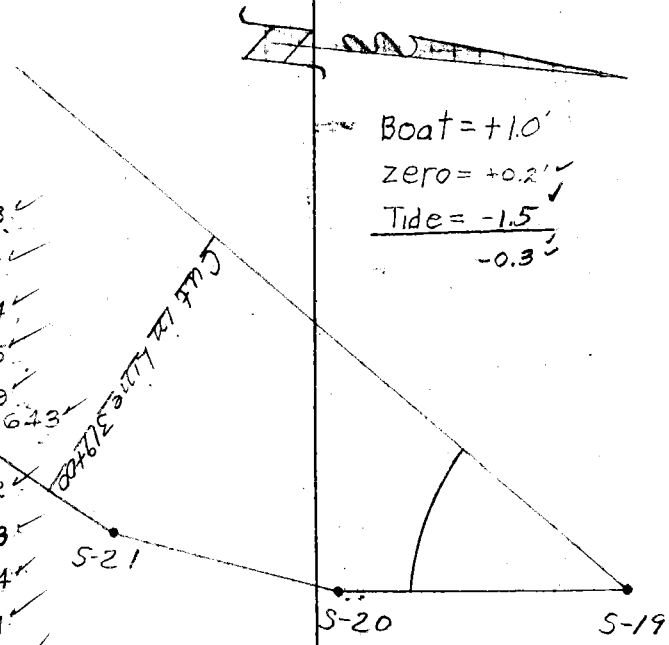
STATION Inst. At	Sight On	B. S. #	H. I. Rec.	Depth Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
		1	—		9:45	43° 30'		
		2	—			42° 22'		Cut in Line 319+00
		3	—			40° 52'		
		4	—			39° 15'		
		5	—			38° 32'		
		6	—			36° 33'		
		7	—			34° 59'		Boat = +1.0'
		8	—			32° 36'		zero = +0.2'
S-19	S-20	9	45.0	44.7		31° 08'	733	Tide = -1.5
		10	43.6	43.3		30° 39'	717	-0.3
		11	40.8	40.5		29° 53'	684	
		12	35.5	35.2		29° 14'	675	
		13	30.7	30.4		28° 41'	659	
		14	28.0	27.7		28° 09'	643	
		15	25.8	25.5		27° 26'	S-22 622	
		16	23.5	23.2		26° 30'	603	
		17	22.8	21.7		26° 25'	594	
		18	20.6	20.3		25° 38'	571	
		19	19.8	19.5		25° 12'	558	
		20	18.6	18.3		24° 40'	544	



Profile No. ____ Date ____ Notes Red. ____ Date ____ Notes Chkd. ____ Date ____ Map No. ____ Date ____ Index ____ Date ____

X-Sec. No. ____ Date ____ Plotted ____ Date ____ Checked ____ Date ____

Job No. ____ Survey of ____ Survey by ____ Notes ____ Date ____

Division No. ____ F. B. ____ Pg. 195

76298 S & E #307—7-55

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STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks.
		21	17.4	17.2		29° 08	528
		22	16.4	16.0		23° 26	510 Cut in Line 319+00
		23	15.3	14.9		22° 57	496
		24	14.5	14.1		22° 15	476 Boat = +1.0
		25	13.9	13.5		21° 51	467 Zero = +0.2
		26	13.2	12.8		21° 24	455 Tide = -1.6
		27	12.3	11.9		20° 49	437 -0.4
		28	11.5	11.1		20° 16	424
S-19	S-20	29	—			19° 38	
		30	9.9	9.5		19° 04	393
		31	8.9	8.5		18° 33	380
		32	8.2	7.8		17° 26	353
		33	8.2	7.8	9:52	16° 42	333

F. B. 2307 Pg. 196 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 2-18-58 Date No.
Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date No.

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	Instr. @ 319+00 Sight on 317+00	
T.P.	4 00	6 83		2 83		Inshore
T.P.	2 20	7 47	1 56	5 27		317+00
317+00					Control Line	
			+ 11 1	18 6	15' R Brk.	
			+ 5 4	12 9	27' " "	
			+ 2 6	10 1	53' " "	
		7.5	2 2	5 3	23° 51' 84'	
			6 6	0 9	35° 35 131'	
			8 1	-0 6	47° 37 191'	
			11 2	-3 7	54° 34 236'	
			16 1	-8 6	64° 54' 331'	
			18 0	-10 5	67° 27' 363'	

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 197
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Stir.
Notes Chkd. ____ Checked ____ Survey by English Notes Ed. Date 9-18-58
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76298 S & E #307—7-55

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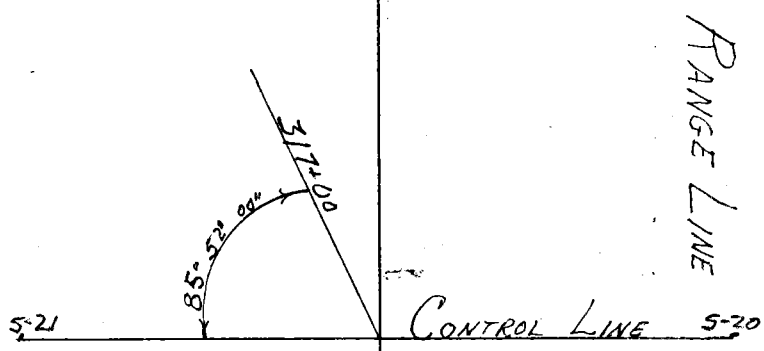
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.		
317+00	5-21			8:01	95° 52'		
#1					" "		
2					" "		
3					" "		
4					" "		
5					" "		
6					" "		
7					" "		
8					" "		
9					" "		
10							
11							
12							
13					" "		
14					" "		
15							
16							
17							
18							
19					" "		



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 199
No. ____ Date ____ Date ____ Survey of BEACH EROSION
X-Sec. Notes Chkd. ____ Checked ____ Survey by M.A. VAN DIREN Notes VL Date 7-18-58
No. ____ Date ____ Date ____ Map No. ____ Index [illegible] C. Johnson

76298 S & E #307—7-55

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F. B. 2307 Pg. 200 Job No. 0300.02 Division No. 10 Notes Red. Plotted
Survey of BEACH EROSION Date 7-18-58 Date
Survey by M.A. VANDAREN Notes VL Notes Chkd. Checked
Index C. Johnson Date Date
Profile No. X-Sec. No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.		Remarks
31+00	S-21				85°	52'	
#20					"	"	
21					"	"	
22					"	"	
23					"	"	
24					"	"	
25					"	"	
26					"	"	
27					"	"	
28					"	"	
29					"	"	
30					"	"	
31					"	"	
32				8:06	"	"	

76298 S & E #307—7-55

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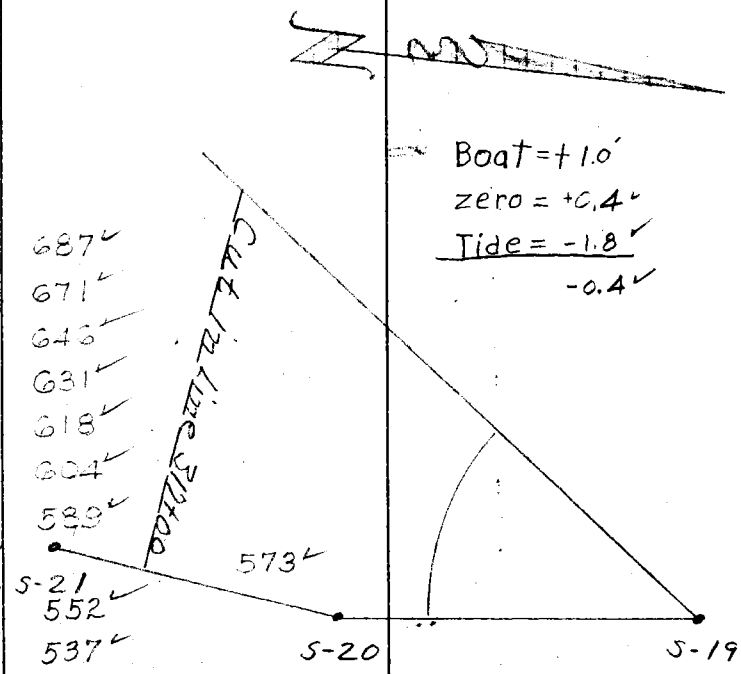
STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		1	—		8:01	42° 16'		
		2	—			40° 41'		Cut in Line 317+00
		3	—			39° 44'		
		4	—			37° 57'		
		5	—			35° 38'		
		6	—			34° 17'		
S-19	S-20	7	—			33° 52'		
		8	—			33° 11'		
		9	33.2	32.8		32° 37'	687	
		10	31.5	31.1		32° 04'	671	
		11	28.4	28.0		31° 09'	646	
		12	27.2	26.8		30° 37'	631	
		13	25.9	25.5		30° 07'	618	
		14	24.7	24.3		29° 35'	604	
		15	23.5	23.1		29° 00'	589	
		16	22.4	22.0		28° 21'		
		17	20.9	20.5		27° 33'	552	
		18	19.8	19.4		26° 58'	537	
		19	18.6	18.2		26° 11'	518	
		20	17.4	17.0		25° 21'	499	



Boat = +1.0'
zero = +0.4
Tide = -1.8
-0.4

Profile Notes Red. ____ Plotted ____ Job No. [illegible] Division No. 10 F. B. 2307 Pg. 201
No. ____ Date ____ Date ____ Survey of [illegible] Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deven Notes R.T. Date 7-18-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. [illegible]

76298 S & E #307—7-55

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STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		21	16.2	15.7		24° 22	474
		22	15.0	14.5		23° 32	455 Cut in Line 317+00
		23	14.2	13.7		22° 38	434
		24	13.2	12.7		21° 47	414 Boat = +1.0
		25	12.2	11.7		21° 03	397 Zero = +0.4
		26	11.4	10.9		20° 06	376 Tide = -1.9
		27	10.6	10.1		19° 21	359 -0.5
		28	9.6	9.1		18° 33	342
		29	8.7	8.2		17° 40	323
5-19	5-20	30	7.7	7.2		16° 52	306
		31	7.2	6.7		16° 16	292
		32	—		8:06	15° 34	278

F. B. 2307 Pg. 202 Job No. 0300.02 Division No. 10 Notes Red. Plotted Date 7-18-58 Date Profile No. X-Sec. No.
Survey of Beach Erosion Study Date 7-18-58 Checked Date
Survey by Van Deren Notes R.T. Notes Chkd. Date
Indexed K. C. Johnson Date

76L298 S & E #307 9-54

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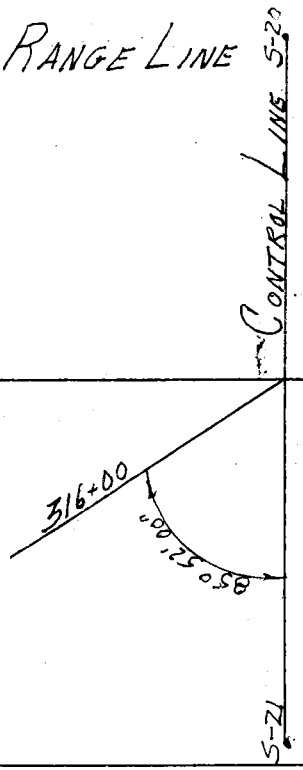
STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 319+00	Sight at 316+00
T.P. 316+00	2 20	7 47		5 27		Inshore 316+00
					Control line	
		+	11 8	19 3	17 R Brk.	
		+	5 0	12 5	31' R "	
		+	3 0	10 5	48' " "	
			0 0	7 5	11° 41 60	
			5 6	0 9	22° 12' 117'	
		7 5	8 3	-0 8	29° 46' 162'	
			8 0	-0 5	30° 56' 169'	
			11 0	-3 5	39° 04' 223	
			13 0	-5 5	46° 18 281'	
			17 0	-9 5	51° 46' 333	
			18 5	-11 0	55° 00 369'	
T.P.			2 76	4 71		

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 203
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Sur.
Notes Chkd. ____ Checked ____ Survey by English Notes Ed Date 7-18-58
Date ____ Date ____ Map No. ____ Indexed C. Johnson

Profile No.	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2307 Pg. 205
	Date	Date	Survey of BEACH EROSION		
X-Sec. No.	Notes Chkd.	Checked	Survey by M.A. VAN DAREN	Notes VL.	Date 7-18-58
	Date	Date	Map No.	Index [illegible] C. Johnson	



STATION	B. S.	H. I.	F. B.	ELEV.	Remarks
Inst. Sight At On 316+00 5-21	#	Depth Rec. Adj.	Time 8:13	Hor. Ang. 85° 52'	
1				"	
2				"	
3				"	
4				"	
5				"	
6				"	
7				"	
8				"	
9				"	
10				"	
11				"	
12				"	
13				"	
14				"	
15				"	
16				"	
17				"	
18				"	
19				"	

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76298 S & E #307—7-55

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
316+00	5-21				85° 52'		
" 20					" "		
21					" "		
22					" "		
23					" "		
24					" "		
25					" "		
26					" "		
27					" "		
28					" "		
29					" "		
30					" "		
31					" "		
32					" "		
33					" "		
34					" "		
35				8:19	" "		

F. B. 2307 Pg. 266 Job No. 0300-02 Division No. 10 Notes Red. Plotted Profile No.
Survey of BEACH EROSION Date 7-18-58 Date X-Sec.
Survey by M.H. VAN DAMSON Notes VL Notes Chkd. Checked
Indexed K. C. Johnson Date Date Date No.

76298 S & E #307—7-55

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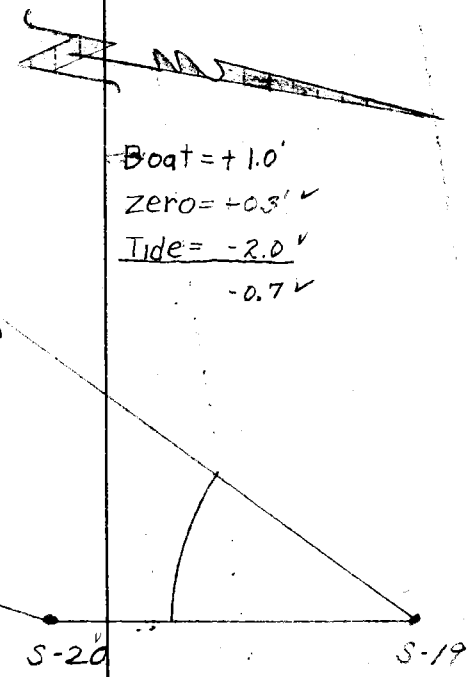
STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
S-19	S-20	1	—		8:13	46° 50'	
		2	—			45° 20'	Cut in Line 316+00
		3	—			44° 31'	
		4	—			43° 23'	
		5	—			41° 38'	
		6	—			39° 46'	
		7	—			38° 09'	
		8	45.9	45.2		37° 35'	763
		9	44.2	43.5		37° 07'	748
		10	42.3	41.6		36° 33'	731
		11	39.9	39.2		35° 51'	714
		12	37.9	37.2		35° 14'	695
		13	36.6	35.9		34° 50'	683
		14	34.6	33.9		34° 20'	672
		15	33.2	32.5		33° 50'	662
		16	32.0	31.3		33° 23'	S-21
		17	29.9	29.2		32° 50'	634
		18	28.4	27.7		32° 08'	616
		19	27.1	26.4		31° 32'	601
		20	25.4	24.7		30° 53'	586



Boat = +1.0'
Zero = +0.3'
Tide = -2.0
-0.7

Profile Notes Red. ____ Plotted ____ Job No. 2307 Division No. 10 F. B. 2307 Pg. 207
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes N.T. Date 7-18-58
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

C. Johnson

76298 S & E #307—7-55

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STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
		21	23.9	23.1		30° 09'	568	
		22	22.7	21.9		29° 39'	555	Cut in Line 316+00
		23	21.2	20.4		28° 49'	538	
		24	20.3	19.5		28° 06'	514	Boat = +1.0'
		25	19.1	18.3		27° 21'	503	Zero = +0.3'
		26	18.1	17.3		26° 39'	487	Tide = -2.1
		27	17.3	16.5		25° 56'	470	-0.8
S-19	S-20	28	16.8	16.0		25° 17'	457	
		29	15.5	14.7		24° 29'	439	
		30	14.6	13.8		23° 42'	422	
		31	13.9	13.1		23° 04'	409	
		32	13.1	12.3		22° 12'	390	
		33	11.7	10.9		21° 15'	370	
		34	10.8	10.0		20° 14'	349	
		35	9.8	9.0	8:19	19° 21'	332	

F. B. 2307 Pg. 208 Job No. 2300.02 Division No. 10 Notes Red. Plotted Date 2-18-58 Date No. Profile
Survey of Beach Erosion Study Date No. X-Sec.
Survey by Van Deren Notes R.T. Notes Chkd. Checked Date No.
Indexed C. Johnson Date

76L298 S & E #307 9-54

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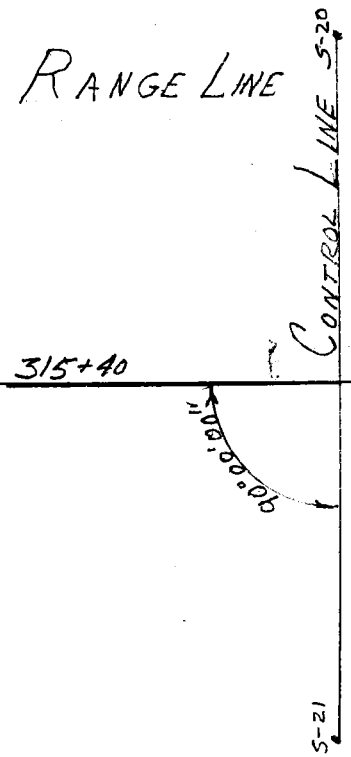
STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 316+00	Sight on 315+40
T.P.	1446	19 27 (17)		4 71		
S-20	100	18 40	1 87	17 40 (17.90)	S-20, el.= 17.400'	F.B. 2100-158
T.P.	290	7 61	13 69	4 71		Inshore
			+ 10 0	17 6	16' R Brk.	315+40
			+ 6 7	14 3	25 " "	
			+ 4 0	11 6	57 " "	
			0 0	7 6	18° 03' 67'	
		7 6	2 7	4 9	56° 57' 92'	
			5 9	+1 7	64° 29' 126'	
			9 3	-1 7	71° 57' 184'	
			10 6	-3 0	72° 50' 221'	
			12 2	-4 6	76° 46' 255'	
			14 8	-7 2	79° 32' 325'	
			16 8	-9 2	79° 43' 331'	
			18 0	-10 4	81° 19' 393'	

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 209
No. Date Date Survey of Beach Erosion Surv.
X-Sec. Notes Chkd. Checked Survey by English Notes Ed Date 7-18-57
No. Date Date Map No. Indexed C. Johnson

Profile No.	Notes Red.	Plotted	Job No. 030002 Division No. 10	F. B. 2307 Pg. 211
	Date	Date	Survey of BEACH EROSION	
X-Sec. No.	Notes Chkd.	Checked	Survey by M.A. VAN DAREN Notes [illegible] Date 7-18-58	
	Date	Date	Map No. Indexed	Date



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.	
315+40 S-21			8:27	90° 00'	
#1				"	
2				"	
3				"	
4				"	
5				"	
6				"	
7				"	
8				"	
9				"	
10				"	
11				"	
12				"	
13				"	
14				"	
15				"	
16				"	
17				"	
18				"	
19				"	

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76298 S & E #307—7-55

F. B. 2307 Pg. 2/2 Job No. 0301.02 Division No. 10 Notes Red ____ Plotted ____ Profile

Survey of BEACH EROSION Date 7-18-58 Date ____ No. ____

Survey by MA VAN DAREN Notes VL Notes Chkd ____ Checked ____ X-Sec.

Index C. Johnson Date ____ Date ____ Date ____ No. ____

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At	Sight On	Depth Rec. Adj.	Time	Hor. Ang.	
315+40	S-21			90° 00	
20					
21					
22					
23					
24					
25					
26					

76298 S & E #307—7-55

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STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
S-19	S-20	1	—		8:27	47° 04'	
		2	—			45° 45'	Cut in Line 315+40
		3	—			44° 15'	
		4	—			42° 37'	
		5	—			40° 53'	
		6	—			39° 02'	
		7	—			37° 15'	
		8	47.5	46.3		35° 43'	639
		9	44.0	42.8		35° 00'	623
		10	—			34° 22'	
		11	—			33° 33'	
		12	29.2	28.0		32° 41'	570
		13	26.7	25.5		31° 55'	556
		14	24.9	23.7		31° 01'	535
		15	22.9	21.6		30° 18'	522
		16	21.1	19.9		29° 22'	S-21 503
		17	19.5	18.3		28° 21'	480
		18	17.7	16.5		27° 12'	450
		19	16.2	15.0		26° 00'	432
		20	14.4	13.2		24° 46'	411

Boat = +1.0'
zero = +0.2'
Tide = -2.4'
-1.2

Cut in Line 315+40

S-20 S-19

Profile Notes Red. Plotted Job No. 2300.02 Division No. 10 F. B. 2307 Pg. 213
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 7-18-58
No. Date Date Map No. Indexed C. Johnson

76298 S & E #307—7-55

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F. B. 2302 Pg. 214 Job No. 300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 2-18-58 Date No. X-Sec.
Survey by Van Dexen Notes R.T. Notes Chkd. Checked
Indexed [redacted] Date Date Date No.

STATION Inst. At	STATION Sight On	B. S. #	H. I. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
		21	13.1	12.2		23° 33'	383	
		22	12.0	10.8		22° 27'	365	Cut in Line 315+40
		23	10.7	9.5		21° 18'	345	
		24	9.9	8.7		20° 11'	322	BoaT = +1.0'
		25	10.1	8.9		18° 29'	299	Zero = +0.2'
		26			8:32	17° 51'		Tide = -2.4
								-1.2
5-19	5-20							

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 316+00	Sight on 315+10
T.P.		7 61				
T.P.	8 32	14 83	1 10	6 51		Inshore 315+10
		+	3 2	18 0	17 R Brk.	
			2 0	12 8	21 " "	
			1 7	13 1	33 " "	
			6 7	8 1	44 "	
			9 4	5 4	36° 16' 66'	
	H.I. is O.K.	→ 7 6	7 4	+0 2	58° 01' 144'	
			8 4	-0 8	62° 08' 170'	
			10 6	-3 0	68° 66 232'	
			11 5	-3 9	70° 34 255'	
			14 6	-7 0	76° 06' 316'	
			15 4	-7 8	76° 06' 316'	
			18 0	-10 4	76° 31 375'	

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 211
No. Date Date Date Survey of Beach Erosion Sur.
X-Sec. Notes Chkd. Checked Survey by English Notes Ed. Date 7-18-58
No. Date Date Map No. Index K. C. Johnson

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 316+00	Sight on 314+65
		14 83				Inshore 314+65
		+	1 8	16 6	13' R. Brk.	
			8 4	6 4	19°38' 47'	
T.P.	2 70	8 23	9 30	5 53		
			4 0	4 2	30°01 75'	
			6 5	+1 7	44°22' 124'	
			8 3	-0 1	51°48' 157'	
			10 0	-1 8	59°04' 201'	
			12 2	-4 0	65°20 253'	
			14 1	-5 9	69°54 307'	
			17 6	-9 4	72°09 341'	

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 217
No. ____ Date ____ Date ____ Survey of Beach Erosion Sur.
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes Ed. Date 7-18-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

76298 S & E #307—7-55

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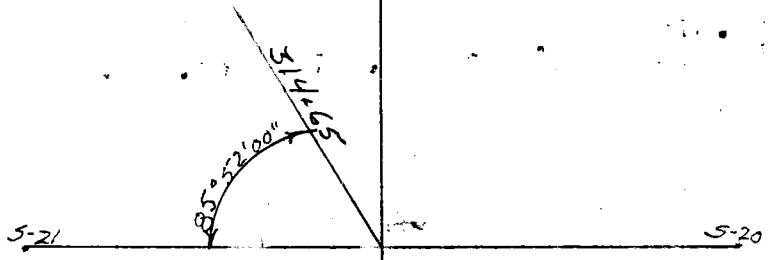
Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		Remarks
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor.	Ang.	
314+65	5-21				8:41	85°	52'	
#1						"	"	
2						"	"	
3						"	"	
4						"	"	
5						"	"	
6						"	"	
7						"	"	
8						"	"	
9						"	"	
10						"	"	
11						"	"	
12						"	"	
13								
14						"		
15						"	"	
16						"	"	
17						"	"	
18						"	"	
19						"	"	



Profile Notes Red. ____ Plotted ____ Job No. C300.02 Division No. 10 F. B. 2307 Pg. 219
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chkd. ____ Checked ____ Survey by M.R. VanDaren Notes [illegible] Date 7-18-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

76298 S & E #307—7-55

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
314+65	5-21				85° 52		
#20					" "		
21					" "		
22					" "		
23					" "		
24					" "		
25					" "		
26				8'47	" "		

F. B. PG. 220 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of BEACH EROSION Date 7-18-58 Date No.
Survey by M.A. VAN DAVEN Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date No.

76298 S & E #307—7-55

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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 Inst At	Sight On	#	B. S.	H. I. Rec	Depth Adj.	F. S.	Time	ELEV. Hor. Ang.		Remarks
		1		—			8:41	48° 42'		
		2		—				46° 12'		Cut in Line 314+65
		3		—				43° 37'		
		4		—				40° 07'		
		5		—				36° 57'		
		6		—				34° 24'		
		7		—				32° 37'		
S-19	S-20	8		24.5	23.1			31° 23'	525	BoaT = +1.0
		9		23.0	21.6			30° 42'	511	Zero = -0.3
		10		20.8	19.4			29° 36'	487	Tide = -2.7
		11		19.2	17.8			28° 43'	470	-1.4
		12		17.8	16.4			27° 41'	449	
		13		16.5	14.9			26° 43'	430	
		14		14.8	13.4			25° 35'	408	
		15		12.9	11.5			24° 27'	387	
		16		12.0	10.6			23° 24'	S-21	367
		17		10.6	9.2			22° 10'	344	
		18		9.6	8.2			21° 09'	326	S-20 S-19
		19		—				20° 07'	—	
		20		15.0	13.6			26° 00'	415	

Cut in Line 314+65

Profile Notes Red. Plotted Job No. 2303.32 Division No. 10 F.B. 2307 Pg. 221
No. Date Date Date Survey of Page & Eyesin Survey
X-Sec. Notes Chkd. Checked Survey by Ken Dixon Notes K.T. Date 2-18-58
No. Date Date Map No. Indexed C. Johnson

76298 S & E #307—7-55

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STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		21	12.9	~~12~~ 11.5		24° 27'	387
		22	11.6	~~11~~ 10.2		23° 09'	363 Cut in Line 314+65
		23	—			21° 45'	
		24	—			20° 6'	Boat = +1.0'
		25	—			18° 56'	Zero = +0.3'
		26	—		8:47	17° 31'	Tide = -2.7
		27					-1.4
S-19	S-20						

F. S. 2307 Pg. 222 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 2-18-58 Date No.
Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.
Indexed O. Johnson Date Date Date No.

76L298 S & E #307 9-54

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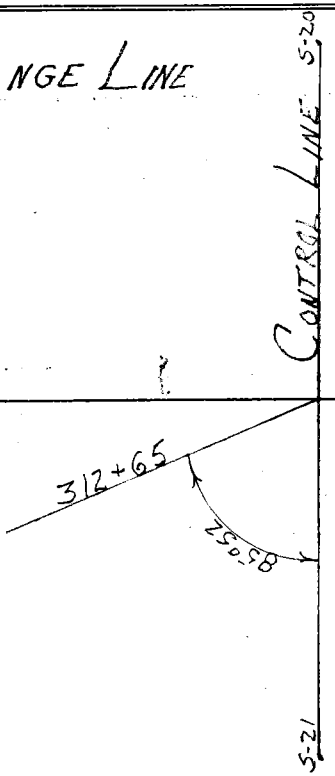
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 316+00	Sight on 312+65
		8 23				Inshore 312+65
		+	8 4	16 6	14' R. Brk.	
		+	4 5	12.7	16' " "	
			0 0	8 2	06° 52' 40'	
			3 3	+4 9	12° 00' 70'	
			5 9	+2 3	18° 40' 111'	
			8 5	-0 3	25° 46' 157'	
			11 0	-2 8	34° 21' 218'	
			12 6	-4 4	40° 17' 263'	
			16 2	-8 0	45° 05' 314'	
			19 0	-10 8	49° 15' 359'	
T.P.			0 00	8.23		

Profile Notes Red_____ Plotted_____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 223
No._____ Date_____ Date_____ Survey of BEACH EROSION
X-Sec. Notes Chkd_____ Checked_____ Survey by ENGLISH Notes 50 Date 7-13-58
No._____ Date_____ Date_____ Map No._____ Indexed C. Johnson Date

Profile	Notes Red.	Plotted	Job No 0300.02	Division No 10	F. B. 2307	Pg. 225
No.	Date	Date	Survey of BEACH EROSION			
X-Sec.	Notes Chkd.	Checked	Survey by M.A. VAN DAREN	Notes V.L.	Date 7-1858	
No.	Date	Date	Map No.	Indexed K.C. Johnson		



STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.	
312+65 5-21			8:55	85° 52'	
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					

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76298 S & E #307—7-55

F. B. 2307 Pg. 226 Job No. 5300.02 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION Date 7-18-58 Date No.

Survey by MA VAN DAREN Notes VL Notes Chkd. Checked X-Sec.

Indexed C. Johnson Date Date Date No.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	Depth # Rec. Adj.	Time	Hor. Ang.			Remarks
312+65 5-21			85° 52'			
#20		8:59	" "			

76298 S & E #307—7-55

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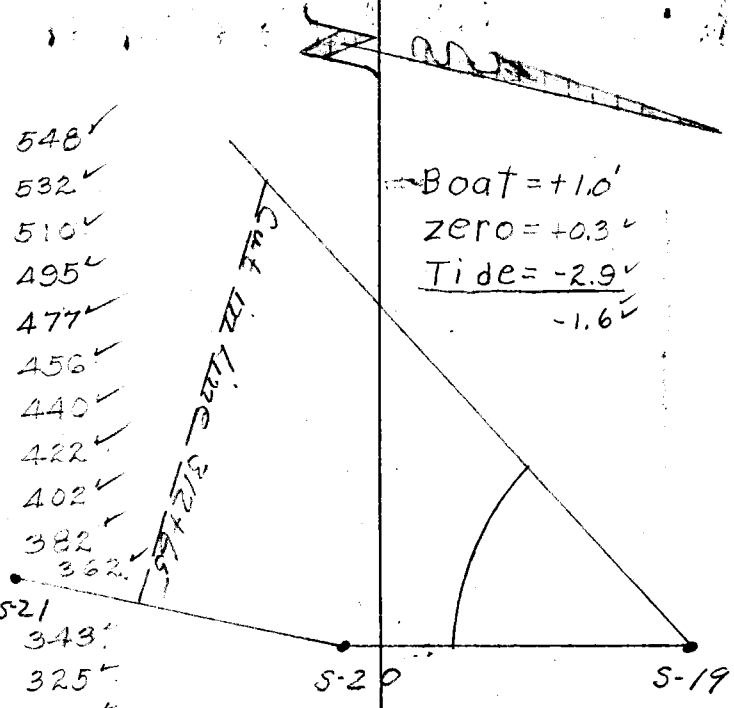
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
S-19	S-20	1	—		8:55	51° 57'	
		2	—			47° 03'	Cut in Line 312+65
		3	—			43° 00'	
		4	—			40° 37'	
		5	—			39° 22'	
		6	29.4	27.8		38° 37'	548
		7	27.6	26.0		37° 47'	532
		8	25.1	23.5		36° 53'	510
		9	22.4	20.8		35° 47'	495
		10	20.7	19.1		34° 48'	477
		11	18.9	17.3		33° 39'	456
		12	17.7	16.1		32° 40'	440
		13	17.0	15.4		31° 38'	422
		14	15.4	13.8		30° 26'	402
		15	13.9	12.3		29° 11'	382
		16	12.6	11.0		27° 57'	362
		17	11.6	10.0		26° 42'	343
		18	10.5	8.9		25° 26'	325
		19	9.1	7.5		24° 00'	304
		20	8.1	6.5	8:59	22° 45'	286



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 227
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes H.T. Date 2-18-58
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth ~~Rec.~~ Adj.	Time	Hor. Ang.	Remarks	
		21					
		22				Cut in Line 312+65	
		23					
		24					
		25					
		26					
		27					
		28					
S-19	S-20	29					
		30					

F. B. 2307 Pg. 228 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 1-18-58 Date No.
Survey by Van Deren Notes P.T. Notes Chkd. Checked X-Sec.
Indexed Date Date Date No.

76L298 S & E #307 9-54

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 312+65	Sight on 310+65
T.P.	0 0	8 2		8 23		Inshore 310+65
		+	10 2	18 4	14' R Brk.	
		+	4 0	12 2	30 " "	
			0 0	8 2	12° 02' 43'	
			3 6	4 6	20° 41' 75'	
			6 1	+2 1	30° 47' 118'	
			7 9	+0 3	38° 04' 154'	
			11 0	-2 8	44° 02' 199'	
			11 1	-2 9	49° 32' 228'	
			12 7	-4 5	53° 20' 260'	
			14 9	-6 7	56° 00' 261'	
			18 0	-9 8	60° 50' 343'	

Profile Notes Red. Plotted Job No. 030002 Division No. 10 F. B. 2307 Pg. 22
No. Date Date Survey of Beach Erosion Survey
X-Sec. Notes Chkd. Checked Survey by English Notes Ed. Date 7-18-58
No. Date Date Map No. Indexed C. Johnson Date

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2307	Pg. 231
No.	Date	Date	Survey of BEACH EROSION			
X-Sec.	Notes Chkd.	Checked	Survey by MAVANDORAN	Notes VL	Date 7-18-5	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	

RANGE LINE

CONTROL LINE

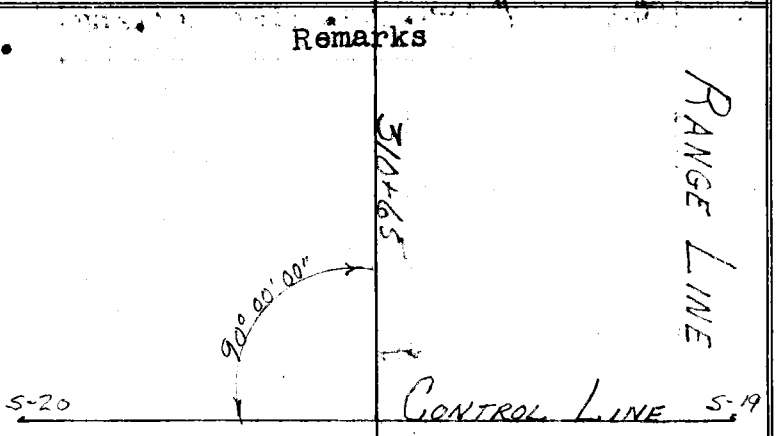
5-19

310+65

90°00'00"

5-20

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At 310+65	Sight On 5-20	Depth # Rec. Adj.	Time 9:07	Hor. Ang. 90°00	
1				"	
2				"	
3				"	
4				"	
5				"	
6				"	
7				"	
8				"	
9				"	
10				"	
11				"	
12				"	
13				"	
14				"	
15				"	
16				"	
17			9:10	"	



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
700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

76298 S & E #307—7-55

F. B. 2307 PG. 232 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION Date 7-18-58 Date No.

Survey by M.A. VAN DAREN Notes V.L. Notes Chkd. Checked X-Sec.

Indexed [redacted] C. Johns[redacted] Date Date Date No.

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On 310+65 5-20		Depth # Rec. Adj.	Time	Hor. Ang. 90° 00		Remarks

76298 S & E #307—7-55

PLEASE RETURN TO
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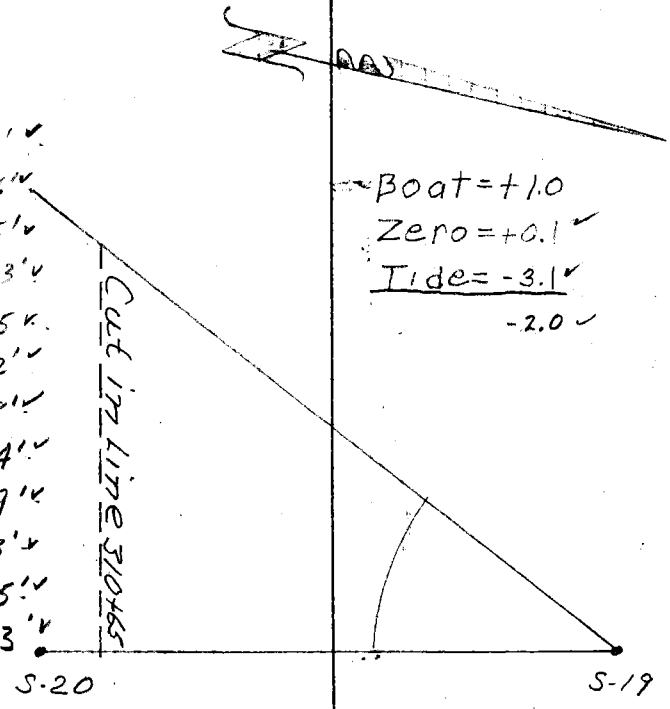
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION Inst. At	Sight On	S. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
S-19	S-20	1	—		9:07	59° 30'	
		2	—			54° 57'	Cut in Line 310+65
		3	—			52° 56'	
		4	—			49° 31'	
		5	—			47° 09'	
		6	27.1	25.1		46° 30'	519'
		7	24.0	22.0		45° 16'	496'
		8	21.4	19.4		44° 00'	475'
		9	19.5	17.5		42° 38'	453'
		10	17.8	15.8		40° 49'	425'
		11	15.7	13.7		39° 15'	402'
		12	14.4	12.4		37° 32'	378'
		13	13.1	11.1		35° 44'	354'
		14	11.4	9.4		33° 48'	329'
		15	9.8	7.8		32° 29'	313'
		16	8.9	6.9		30° 56'	295'
		17	8.5	6.5	9:10	29° 03'	273'
		18					
		19					
		20					



Boat = +1.0
Zero = +0.1
Tide = -3.1
-2.0

Profile Notes Red. ____ Plotted ____ Job No. 030042 Division No. 10 F. B. 2307 Pg. 133
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes KT Date 7-18-58
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2307 Pg. 234 | Job No. 6300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 7-18-58 Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.		

Do not extend notes this side of this line.

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76298 S & E #307—7-55

76L298 S & E #307 9-54

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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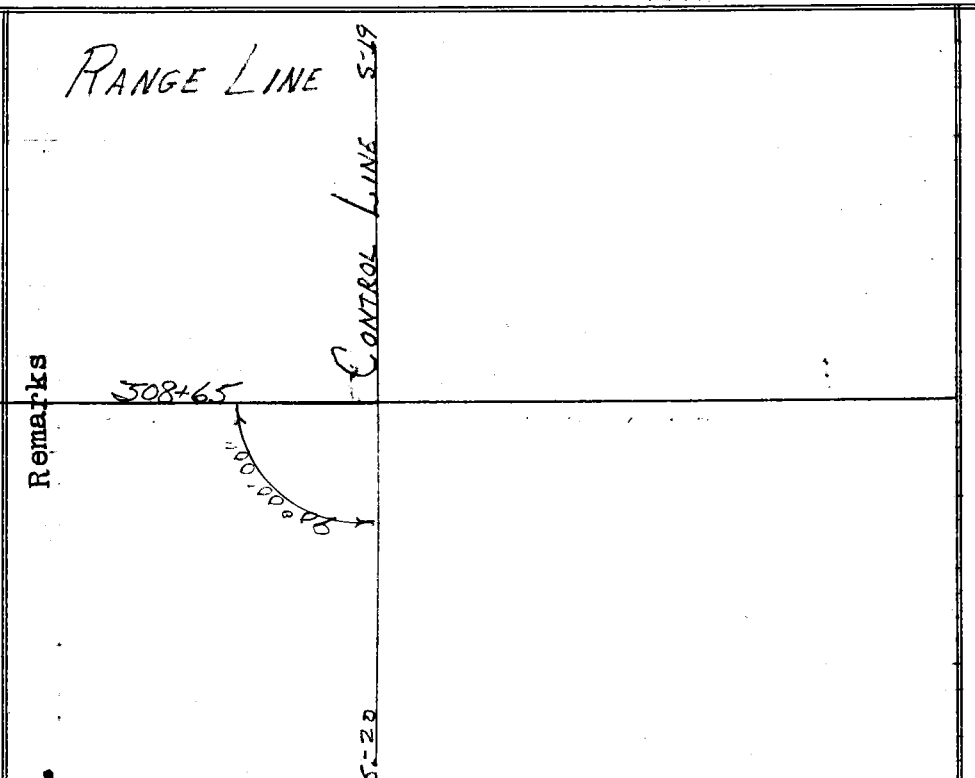
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 312+65	Sight on 308+65
		8 2				Inshore 308+65
		+	10 5	18 7	13' Brk.	
		+	9 7	12 9	27' " "	
		+	3 3	11 5	43' " "	
			1 8	6 4	11° 08' 78'	
			5 2	3 0	16° 33 118'	
			7 3	+0 9	21° 40' 158'	
			8 9	-0 7	26' 17 196'	
			10 2	-2 0	29° 25 224'	
			11 9	-3 7	32° 46' 255'	
			14 7	-6 5	39° 00' 320'	
			19 5	-11 3	44° 33' 389'	
T.P.			1 90	6 3		

Profile Notes Red ____ Plotted ____ Job No. 030002 Division No. 10 F. B. 2307 Pg. 235
No. ____ Date ____ Date ____ Survey of BEACH EROSION
X-Sec. Notes Chkd ____ Checked ____ Survey by ENGLISH Notes ED Date 7-18-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. John Date

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2307	Pg. 237
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by M.R. VanDaren	Notes VL	Date 7-18-58	
No.	Date	Date	Map No.	Indexed by [redacted]		



STATION	S. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At 308+65	Sight On 5-20	Depth # Rec. Adj.	Time 9:21	Hor. Ang. 90° 00	
#1				" "	
2				" "	
3				" "	
4				" "	
5				" "	
6				" "	
7				" "	
8				" "	
9				" "	
10				" "	
11				" "	
12				" "	
13				" "	
14				" "	
15				" "	
16				" "	
17				" "	
18			9:24	" "	

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700 Los Angeles County Engineering Bldg.

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76298 S & E #307—7-55

F. B. 2307 Pg. 235 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSIO Date 7-18-58 Date No.

Survey by K.A. VAN LOREN Notes VL Notes Chkd. Checked X-Sec.

Indexed [redacted] C. Johnson Date Date Date No.

76298 S & E #307—7-55

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LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On 308+65 S-20	#	Depth Rec. Adj.	Time	Hor. Ang. 90 00		Remarks

76298 S & E #307—7-55

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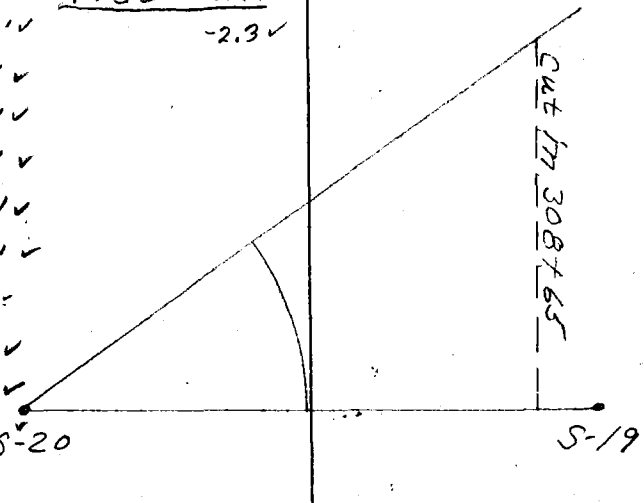
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		1	—		9:21	68° 41'	
		2	—			66° 07'	Cut in Line 308+65
		3	—			63° 23'	
		4	—			61° 10'	
		5	—			59° 25'	
		6	29.8	26.5		58° 17'	545' Boat = +1.0'
		7	27.6	25.3		57° 22'	526' Zero = +0.1'
S-20	S-19	8	24.9	22.6		56° 34'	511' Tide = -3.4'
		9	22.5	20.2		55° 42'	494' -2.3
		10	20.4	18.1		54° 22'	470'
		11	17.8	15.5		52° 25'	438'
		12	16.1	13.8		50° 55'	415'
		13	13.9	11.6		48° 48'	385'
		14	12.7	10.4		46° 41'	358'
		15	10.6	8.3		44° 32'	332'
		16	8.8	6.5		42° 00'	303'
		17	7.4	5.1		39° 38'	279'
		18	5.7	3.4	9:24	37° 43'	261' S-20
		19					
		20					



Profile Notes Red. ____ Plotted ____ Job No. 2300 Division No. 10 F. B. 2307 Pg. 239
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Doren Notes R.T. Date 9-18-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

F. B. 2307 Pg. 240 | Job No. 0300.02 Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion Survey | Date 7-15-70 | Date | No.

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

Indexed | Date | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.		Remarks

76298 S & E #307—7-55

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700 Los Angeles County Engineering Bldg.

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76L298 S & E #307 9-54

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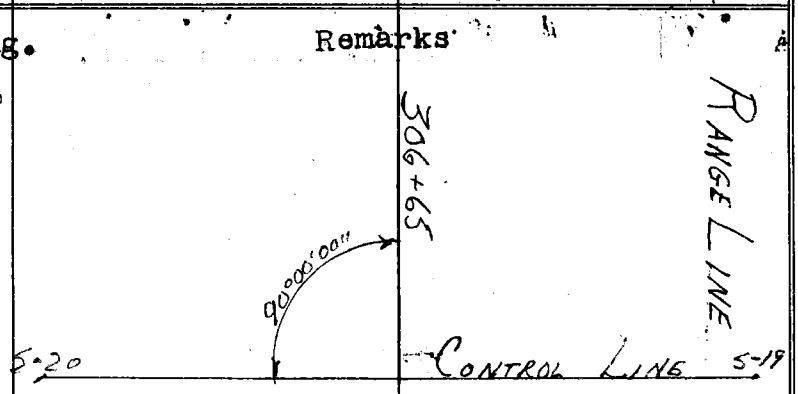
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 308+65	Sight on 306+65
T.P.	2 42	8 75		6 33		Inshore 306+65
		+	12 5	21 2	14' R Brk.	
		+	10 0	18 7	26' " "	
		+	4 5	13 2	47' " "	
		+	2 8	11 5	64' " "	
			0 0	8 7	19° 00' [illegible] ✓	
			4 2	4 5	27° 03' [illegible] ✓	
			7 4	+1 3	36° 48' 15[illegible] ✓	
			9 9	-1 2	42° 58' 186' ✓	
			11 1	-2 4	48° 20' 224' ✓	
			12 4	-3 7	52° 34' 261' ✓	
			15 6	-6 9	56° 05' 29[illegible] ✓	
			19 3	-10 6	60° 29' 354' ✓	
T.P.			2 22	6 53		

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 241
No. ____ Date ____ Date ____ Survey of BEACH EROSION SUR.
X-Sec. Notes Chkd. ____ Checked ____ Survey by ENGLISH Notes ED Date 7-18-5
No. ____ Date ____ Date ____ Map No. ____ Indexed G. Johnson Date ____



Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2307	Pg. 243
No.	Date	Date	Survey of BEACH EROSION			
X-Sec.	Notes Chkd.	Checked	Survey by M.R. VanDoren	Notes [illegible]	Date 7-18-58	
No.	Date	Date	Map No.	Indexed	Date	

A. G. Johnson

RANGE LINE

CONTROL LINE

5-19

306+65

90°00'00"

5-20

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At 306+65 Sight On 5-20	#	Depth Rec. Adj.	Time 9:31	Hor. Ang. 90° 00	
#1				" "	
2				" "	
3				" "	
4				" "	
5				" "	
6				" "	
7				" "	
8				" "	
9				" "	
10				" "	
11				" "	
12				" "	
13				" "	
14				" "	
15				" "	
16				" "	
17				" "	
18				" "	
19				" "	

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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76298 S & E #307—7-55

76298 S & E #307—7-55

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
306+65	S-20				90' 00		
#20					" "		
21					" "		
22					" "		
23				9:34	" "		

F. B. 2307 Pg. 244 Job No. 23002 Division No. 10 Notes Red. Plotted No. Profile
Survey of BEACH EROSION Date 7-18-58 Date X-Sec.
Survey by M.A. VAN DAREN Notes VL Notes Chkd. Checked No.
Indexed [illegible] Date Date Date

76298 S & E #307—7-55

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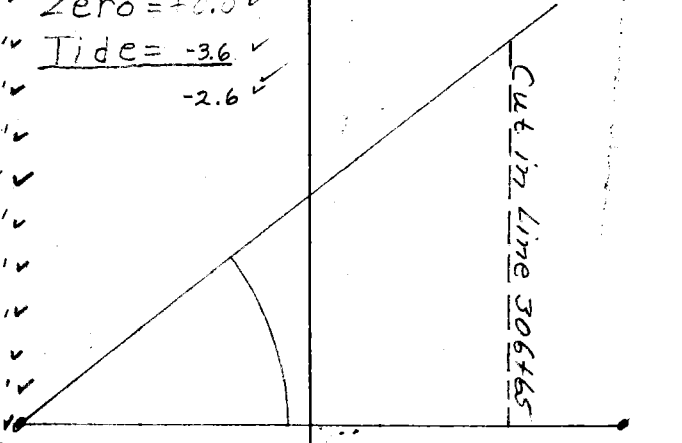
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		1	—		9:31	59° 30'	
		2	43.8	41.2		53° 07'	716' Cut in Line 306+65
		3	41.3	38.7		52° 15'	694'
		4	36.5	33.9		51° 00'	663'
		5	34.0	31.4		50° 20'	648'
		6	31.5	28.9		49° 27'	628'
		7	29.5	26.9		48° 49'	613' Boat = +1.0'
		8	27.6	25.0		47° 43'	591' Zero = +0.0
	S-19	9	26.0	23.4		46° 98'	572' Tide = -3.6
S-20		10	24.2	21.6		45° 41'	550' -2.6
		11	22.0	19.4		44° 18'	524'
		12	20.5	17.9		43° 09'	503'
		13	18.6	16.0		41° 28'	475'
		14	17.5	14.9		39° 53'	449'
		15	16.3	13.7		38° 15'	424'
		16	15.0	12.4		36° 93'	401'
		17	13.4	10.8		34° 50'	374'
		18	12.0	9.4		32° 54'	347' ~~S-19~~
		19	10.5	7.9		31° 34'	330' S-20
		20	9.5	6.9		30° 18'	314'



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 2000-03 Division No. 10 F. B. 2307 PL 295
X-Sec. No. ____ Date ____ Date ____ Date ____ Survey of Beach Erosion Study
Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by Kan Levy Notes K.T. Date 9-18-56
Map No. ____ Indexed ____ Date ____ C. J. [illegible]

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		21	8.3	5.7		28° 40	294'
		22	7.2	4.6		29° 18	277' Cut in Line 306 + 65
		23	6.2	3.6	9:34	25° 07'	252'
							Boat = +1.0'
							Zero = +0.0'
							Tide = -3.6'
							-2.6'
S-20	S-19						

F. B. 2307 Pg. 246 Job No. 0300.02 Division No. 10 Notes Red. Plotted Date 9-18-58 Date
Survey of Beach Erosion Study Notes Chkd. Checked Date
Survey by Van Deven Notes R.T. Date
Indexed C. Jo[illegible] Date
Profile No. X-Sec. No.

76L298 S & E #307 9-54

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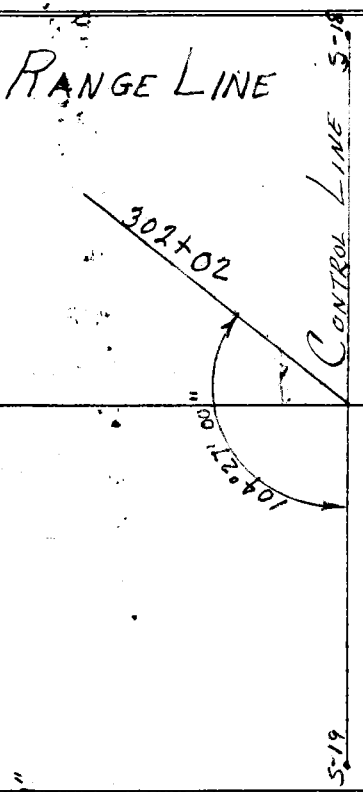
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 306+65	Sight on 302+12
T.P.	2 21	8 7~~1~~ 4		6 5~~0~~ 3		Inshore 302+12
		+	3 7	12 4	85' L	
		+	0 2	8 9	6' " Brk.	
			6 1	2 ~~4~~ 6	06° 13' 50' ✓	
			8 1	+0 6	09°55' 81' ✓	
			9 6	-0 9	14°41' 124' ✓	
			11 5	-2 8	18°54' 163' ✓	
			12 6	-3 9	22°35 202' ✓	
			16 5	-7 8	26°39 247' ✓	
			19 0	-10 3	29°20 280' ✓	

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 247
No. Date Date Survey of Beach Erosion Sur
X-Sec. Notes Chkd. Checked Survey by English Notes E.E Date 7-18-58
No. Date Date Map No. Indexed G. Johnson Date

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2307	Pg. 249
No.	Date	Date	Survey of BEACH EROSION			
X-Sec.	Notes Chkd.	Checked	Survey by M.A. VANDAREN	Notes V.L.	Date 7-18-58	
No.	Date	Date	Map No.	[redacted]		



302+02

(in shore shows 302+12)

(302+02 is on top of Groin on beach, but hits the South side of groin on this angle at 50' out to sea)

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.	
302+02 5-19			9:54	104° 27'00"	
#1				" "	
2				" "	
3				" "	
4				" "	
5				" "	
6				" "	
7				" "	
8				" "	
9				" "	
10				" "	
11				" "	
12				" "	
13				" "	
14				" "	
15				" "	
16				" "	
17				" "	
18				" "	
19				" "	

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76298 S & E #307—7-55

F. B. 2307 Pg. 250 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION Date 7-18-58 Date No.

Survey by M.A. VAN DAREN Notes V L Notes Chkd. Checked X-Sec.

Indexed [illegible] C. Johnson Date Date Date No.

76298 S & E #307—7-55

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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.		
Inst. At	Sight On	Depth # Rec.	Adj.	Time	Hor. Ang.	Remarks
302+02	S-19				104° 27' 00"	
+20					" "	
21				7:57	" "	

76298 S & E #307—7-55

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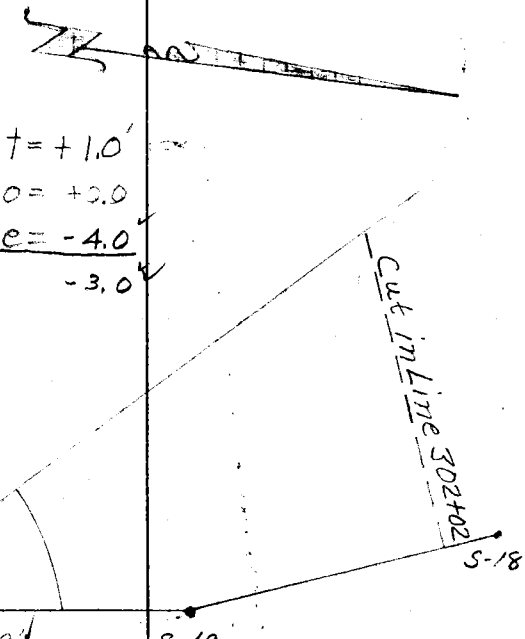
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks	
		1	—		9:54	44° 01'		
		2	—			42° 28'	Cut in Line 302+02	
		3	—			41° 10'		
		4	—			39° 49'		
		5	—			38° 02'		
		6	31.1	28.1		37° 28'	502'	
		7	29.4	26.4		36° 12'	483'	Boat = +1.0'
		8	26.6	23.6		35° 07'	462'	zero = +2.0
		9	24.6	21.6		34° 07'	441'	Tide = -4.0
		10	23.0	20.0		33° 14'	420'	-3.0
		11	20.7	17.7		32° 34'	391'	
		12	19.2	16.2		30° 54'	372'	
		13	17.8	14.8		29° 28'	351'	
		14	16.8	13.8		28° 17'	328'	
		15	—			26° 51'		
		16	—			25° 28'		
		17	12.0	9.0		24° 22'	257'	
		18	10.6	7.6		23° 21'	S-20 238'	S-19
		19	9.5	6.5		22° 20'	221'	
		20	8.3	5.3		21 13	200'	



S-20 S-19

Profile Notes Red ____ Plotted ____ Job No. 3706-02 Division No. 10 F. B. 2307 Pg. 251
No. ____ Date ____ Date ____ Survey of Tonner Creek Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Kurtz Notes ____ Date 7-18-55
No. ____ Date ____ Date ____ Map No. ____ Index J. G. Jo[illegible]

76298 S & E #307—7-55

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

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

Do not extend notes this side of this line.

F. B. 2307 Pg. 252 Job No. 2300.02 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Study Date 7-18-58 Date No.
Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.
Indexed L. C. Johnson Date Date Date No.
Profile

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
		21	—	9:59	20 34		
						Cut in Line 302+02	
						Boat=+1.0	
						Zero=	
						Tide=	
S-20	S-19						

76L298 S & E #307 9-54

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.

STATION	B. S.	H. I.	F. S.	ELEV.	last at 306+65	Sight on 301+92
T.P.	2 21	8 74		6 50		Inshore
		+	3 7	12 4	85' L.	~~302+12~~
		+	1 6	10 3	13' L Brk.	301+92
			4 1	4 6	20' R	
			7 7	+1 0	09°09' 78'	
			10 0	-1 3	14°23 126'	
			10 9	-2 2	17°17' 155'	
			11 8	-3 1	21°26 198'	
			15 5	-6 8	23°08' 217'	
			17 0	-8 3	26°56' 262'	
T.P.	16 51	24 82	1 15	7 56		
S-20			6 67	17 40	S-20, el = 17.400, F.B. 2100-158	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2307 Pg. 253
No. ____ Date ____ Date ____ Survey of Beach Erosion Sur.
X-Sec. Notes Chkd ____ Checked ____ Survey by English Notes Eng. Date 7-18-58
No. ____ Date ____ Date ____ Map No. ____ Indexed G. Johnson