d by CWH
CWH
JSH
2-59

Survey of Beach Erosion Studies
~~IN 0300.02 Top Sul of~~
Surveyed by Uharriet, Lind, English
Notes Uharriet, Lind, English
Indexed ~~C. Jo~~ 2-28-59

F. B. 2803 Pg. 5

EACH EROSION STUDIES

J.N. 0300.02

Station 27+46.44S to 99+87.17N

AUG. 1959

BEACH EROSION (Cont)
FROM SOUTH F.B. 2802
& CONT NORTH F.B. 2803

RRIET, J.M.	LIND, C.K.	ENGLISH, E.F.
KS, D.	GOODWIN, J.C.	LANDA, E.
E, W.J.	HILL, C.H.	FOULGER, D.S.
ADER, R.L.	WALLACE, D.L.	TUXFORD, K.
EN, D.	MASUDA, G.	HINZMAN, C.W.
LER, R.M.		DUPUIS, E.N.
AMMEN, K.R.		
DEMAKER, C.E.		

[redacted] microfilmed.
March 85.

RETURN TO
LOS ANGELES COUNTY ENGINEER
900 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F. B. 2802 PG. 6

Notes Ck'd by		Survey of	
Map No.		JN Tape Std °F	
Office Work	CWH	Surveyed by	
Checked	JSH	Notes Date	
Date	9-2-59	Indexed	

F. B. Pg.

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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700 LOS ANGELES COUNTY ENGINEERING BLDG.

783098 CE #247—7-53

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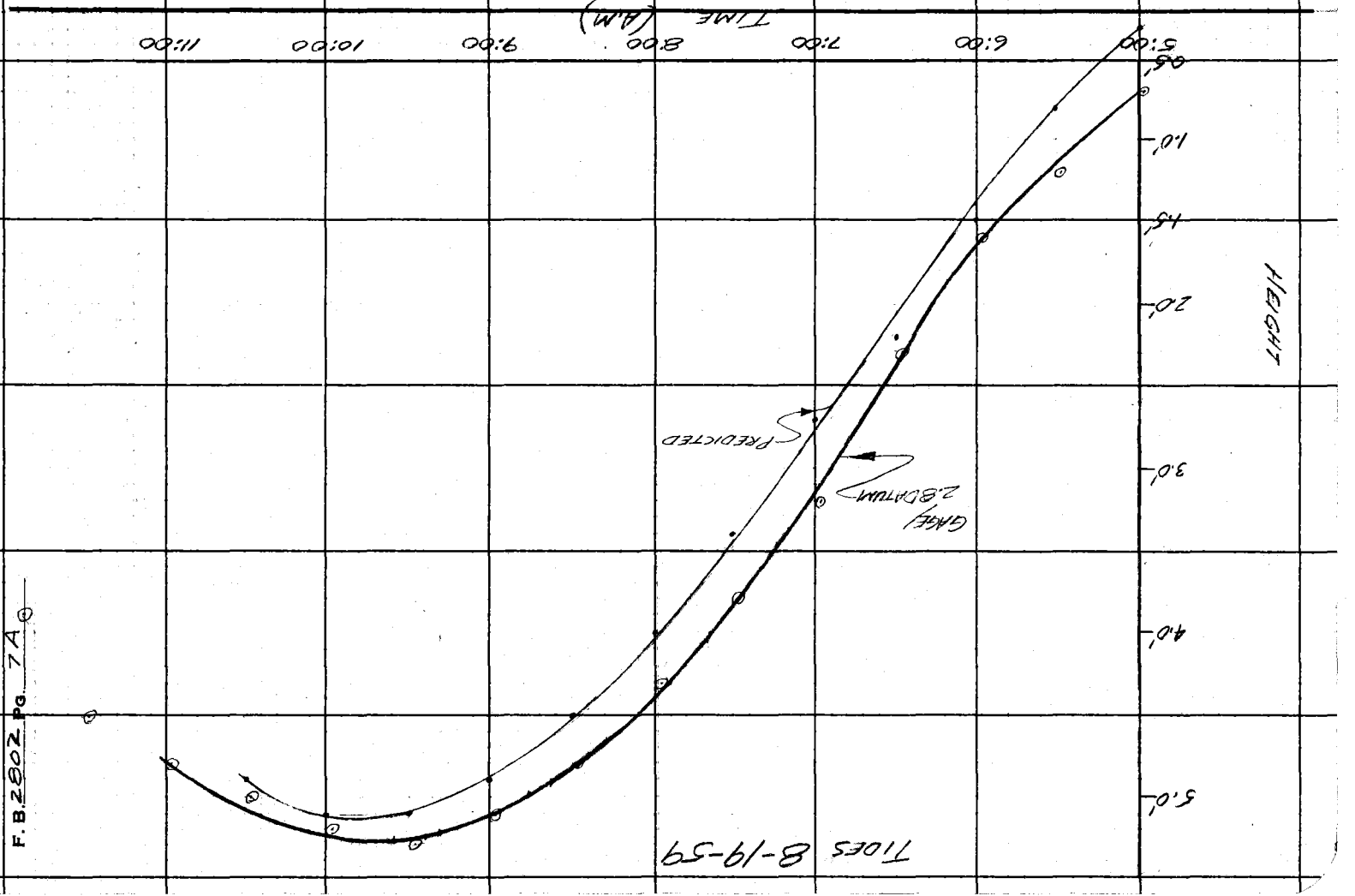
Do not extend notes this side of this line.



F.B. 2802 PG. 7A

Notes Ck'd by CWH	Survey of Beach Erosion Study
Map No.	IN 0300.02 Tape Sid 8E
Office Work	Surveyed by UHarriet
Checked	Notes Eller Date 8-19-59
Date 9-2-59	Indexed J. C. Johnson 8-28-59

F. B. 2802 PG. 7

8-19-59

~~3.0~~ 2.8 on Datum Line of tide Gauge SANTA MONICA

Gauge time (P.S.T) — 1:15

Watch time (P.S.T) — 1:17

Standard time	Gauge Reading	
5:00 AM	~~+0.9~~	+0.7
5:30	~~+1.4~~	+1.2
6:00	~~+1.8~~	+1.6
6:30	~~+2.5~~	+2.3
7:00	~~+3.4~~	+3.2
7:30	~~+4.0~~	+3.8
8:00	~~+4.5~~	+4.3
8:30	~~+5.0~~	+4.8
9:00	~~+5.3~~	+5.1
9:30	~~+5.5~~	+5.3
10:00	~~+5.4~~	+5.2
10:30	~~+5.2~~	+5.0
11:00	~~+5.0~~	+4.8
11:30	~~+4.7~~	+4.5
12:00	~~+4.1~~	+3.9

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763095 CE #247—7-55

F. B. 2802 PG. 8

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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 S-1'	Sight on 27+46.44	
S+1'	4.32	21.42		17.20	S-1' El = 17.20 PER F.B. 28002	INSHORE 27+46.44 S	
[illegible]			[illegible]	17.[illegible]	215.[illegible] offset line		ADJ OFFSET
			1.[illegible]	12.5	285 L.		184 R
			5.0	13.[illegible]	DATUM MEAN LOWER LOW WATER	100° [illegible]	316 R
			7.0	[illegible]		154° [illegible]	370 R
			[illegible]	12			395 R
			[illegible]	[illegible]		200° [illegible]	416 R
			[illegible]	[illegible]		[illegible]	431 R
[illegible]	17	99	[illegible]	8		[illegible]	472 R
			52	47	63° 40'	272	488
			79	20	66 07	304	520
			102	-03	69 12	355	571
			112	-13	71 24	401	617
			125	-26	72 20	423	639
			136	-37	74 40 ?	492 ?	708
			154	-55	73 50	465 ?	681
			176	-77	75 39	527	743

Profile Notes Red. CWH Plotted CWH Job No. [illegible] Division No. [illegible]
No. Date 8-29-59 Date 10-2-59 Survey of [illegible] Notes [illegible]
X-Sec. Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Date [illegible]
No. Date 8-28-59 Date 10-5-59 Map No. [illegible] [illegible]

F.B. 28002 Pg. 9

F. B. 2802 Pg. 10 | Job No. 030002 | Division No. 10 | Notes Red. | Plotted | Profile

Survey of BEACH EROSION STUDIES | Date | Date | No.

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

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

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

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

76298 S & E #307—7-55

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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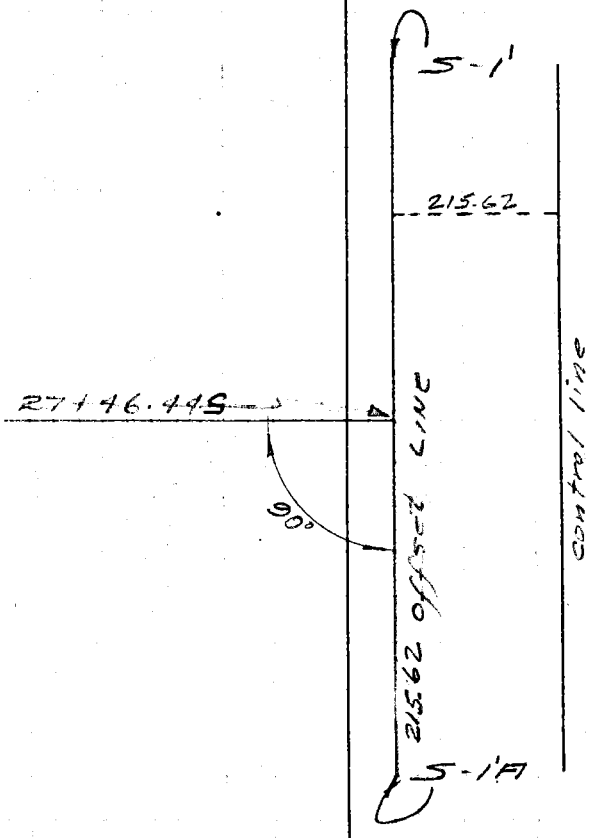
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
S-1A	1		6:07	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	27+46.445
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	

27+46.445



Profile
Notes Red. CWM Plotted CWM Job No. 63002 Division No. 12 F. B. 3002 Pg. 11
No. Date 9-24-59 Date 10-2-59 Survey of Bench Erosion Study
X-Sec. Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes [illegible] Date 10-19-59
No. Date 9-29-59 Date 10-5-59 Map No. Inked C. John [illegible] Date

F. B. 2802 Pg. 12

Job No. 03000 Division No. 10 Notes Red. CWH Plotted CWH

Survey of Bench Erosion Study Date 9-24-59 Date 10-2-59 No.

Survey by UHARNCY Notes ENGD Notes Chkd. JSH Checked JSH

Indexed A. C. Johnson Date Date 9-29-59 Date 10-5-59 No.

Profile

X-Sec.

761.298 307 8-53

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27+46.445

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OH 5-17	#	Color	Time	Hor. Ang.	
	21			90° 00'	
	22			"	
	23			"	
	24			"	
	25			"	
	26			"	
	27			"	
	28			"	
	29			"	
	30		6.12	"	

76298 S & E #307—7-55

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STATION Inst. At	Sight On	#	B. S. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.			Remarks
		1	28.3	26.9	6 06	63° 16'	1902	2118 (ADD OFFSET)	ADJUSTMENTS
		2	28.2	26.8		60° 21'	1757	1973	BOAT = +1.0
		3	27.8	26.4		59° 10'	1675	1891	ZERO = -0.6
		4	27.5	26.1		57° 48'	1588	1804	TIDE = 1.8
		5	27.2	25.8		56° 05'	1487	1703	TOTAL = -1.4
		6	26.7	25.3		54° 41'	1412	1628	
		7	26.3	24.9		53° 12'	1337	1553	
		8	26.0	24.6		51° 57'	1278 S-1' B	1494	
		9	25.5	24.1		50° 26'	1210	1426	
		10	25.2	23.8		48° [illegible]	1118	1334	
		11	24.6	23.2		[illegible]	1064	1280	
		12	24.3	22.9		45° [illegible]	1013	(215.62 OFF. LINE) 1229	
		13	23.7	22.3		44° 02'	967	1183	
		14	23.0	21.6		43° 01'	933	1149	
		15	22.0	20.6		41° 56'	898	1114 (37+46.44 S)	
		16	21.0	19.6		41° 04'	871	1087 (CONTROL LINE)	
		17	20.0	18.6		39° 47'	833	1049	
		18	19.4	18.0		38° 56'	809	1025	
		19	18.8	17.4		37° 56'	(S-2) 779	995	
		20	17.7	16.3		36° 34'	742	958	

37+46.44 S.

S-1'

CUT IN LINE

RANGE LINE

S-1'

27+46.44 S

S-1

Profile No. ____ Notes Red. [illegible] Date 9-21-59 Plotted CMH Date 10-2-59 Job No. 0201-06 Division No. 10
X-Sec. No. ____ Notes Chkd. [illegible] Date 9-28-59 Checked JSH Date 10-5-59 Survey of BEACH EROSION STUDIES Survey by [illegible] Notes [illegible] Date 8-19-59 Map No. ____ Index [illegible] C. Jo[illegible]

F. B. 2802 Pg. 13

76298 S & E #307—7-58

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

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F. B. 2802 Pg. 14 | Job No. 0300.08 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile No.

Survey of BEACH EROSION STUDIES | Date 9-24-59 | Date 10-2-59 | X-Sec. No.

Survey by CHARRIET | Notes STRADER | Notes Chkd. JSH | Checked JSH

Indexed H. C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION Inst. At	Sight On	B. S. #	H. I. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		ADD OFFSET	Remarks
37+46.44 S.	S-1	21	16.7	15.3		35° 26'	712	928	
		22	15.5	14.1		34° 12'	680	896	
		23	14.3	12.9		33° 12'	654	870	
		24	13.2	11.8		32° 06'	627	843	
		25	11.9	10.5		31° 40'	617	833	
		26	11.4	10.0		30° 07'	580	796	
		27	10.5	9.1		29° 30'	566	782	
		28	8.8	7.4		28° 45'	549	765	
		29	7.6	6.2		26° 59'	509	725	
		30	7.2	5.8	6 11	25° 00'	466	682	

ADJUSTMENTS

BOAT = +1.0

ZERO = -0.6

TIDE = -1.8

TOTAL = -1.4

76L-298 CE 307 11-58

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Profile No. ____ Notes Red. CWH Plotted CWH Job No. 8700-12 Division No. 10
X-Sec. No. ____ Date 8-24-57 Date 10-2-57 Survey of Beach Erosion Study
Notes Chkd. JSH Checked JSH Survey by ____ Notes ____ Date 8-12-57
Date 8-24-57 Date 10-5-57 Map No. ____ Index ____ Date ____

F.B. 2802 Pg. 15

STATION	B.S.	H.I.	F.S.	ELEV.	Inst. at 5-1'	Sight on 22+50
		21 42			DATUM MEAN LOWER LOW WATER	INSHORE
T.P.	6 44	25 59	2 27	19 15		22+50 S.
22+50			51	20 5	215.62 OFFSET LINE	ADD OFFSET
			40	21 6	25° L. FENCE LINE	191 R
			96	16 0		100 R. 316 R
			116	14 0		200 R. 416 R
			126	13 0		247 R. 463 R T.P.
			139	11 7		253 R. 469 R
TP	0 6	9 9	163	9 3		282 R. 498 R
			5 2	4 7	40° 18'	307 523
			8 5	1 4	44 07	351 567
			9 9	0 0	46 37	383 599
			11 7	-1 8	49 36	425 641
			13 0	-3 1	52 25	470 686
			14 0	-4 1	54 01	498 714
			15 8	-5 9	55 35	528 744

F.B. 2802 PG. 16

Job No. 0300.02 Division No. 10 Notes Red _____ Plotted _____ Profile

Survey of BEACH EROSION STUDIES Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L-208 CE 307 11-58

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76L298 307 8-53

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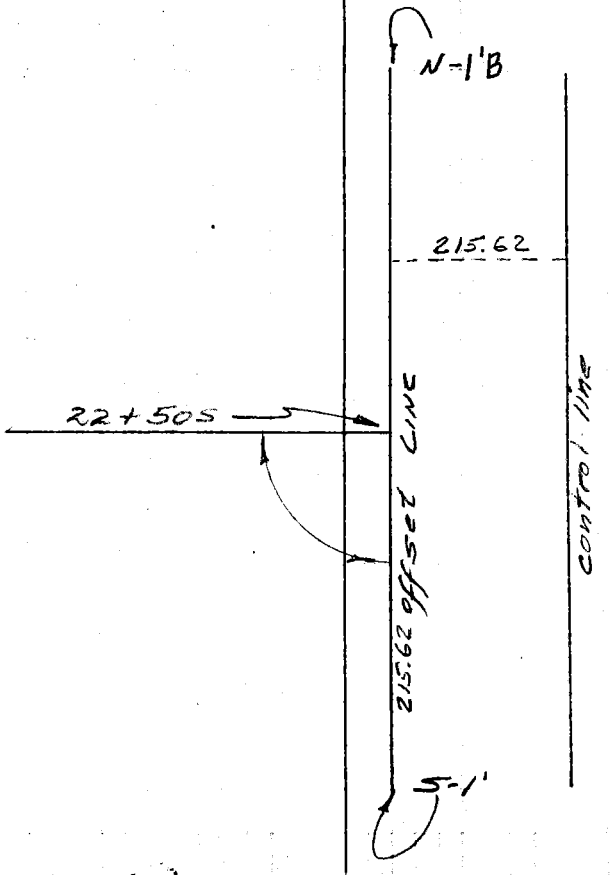
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
	1		6:23	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



22+505 S-1'

Profile
Notes Red. CWH Plotted CWH Job No. 03002 Division No.
No. Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Notes Date
No. Date 9-29-59 Date 10-5-59 Map No. Index C. Date

F. B. 2802 Pg. 17

F. B. 2802 Pg. 18 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of BEACH EROSION STUDY | Date 9-24-59 | Date 10-2-59 | No.

Survey by WHARHLET | Notes Eller | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed [redacted] | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At	#	Color	Time	Hor. Ang.	
22+505					
S-1'					
	21			90° 00	
	22		6:27	"	

761298 307 8-53

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76298 S & E #307—7-55

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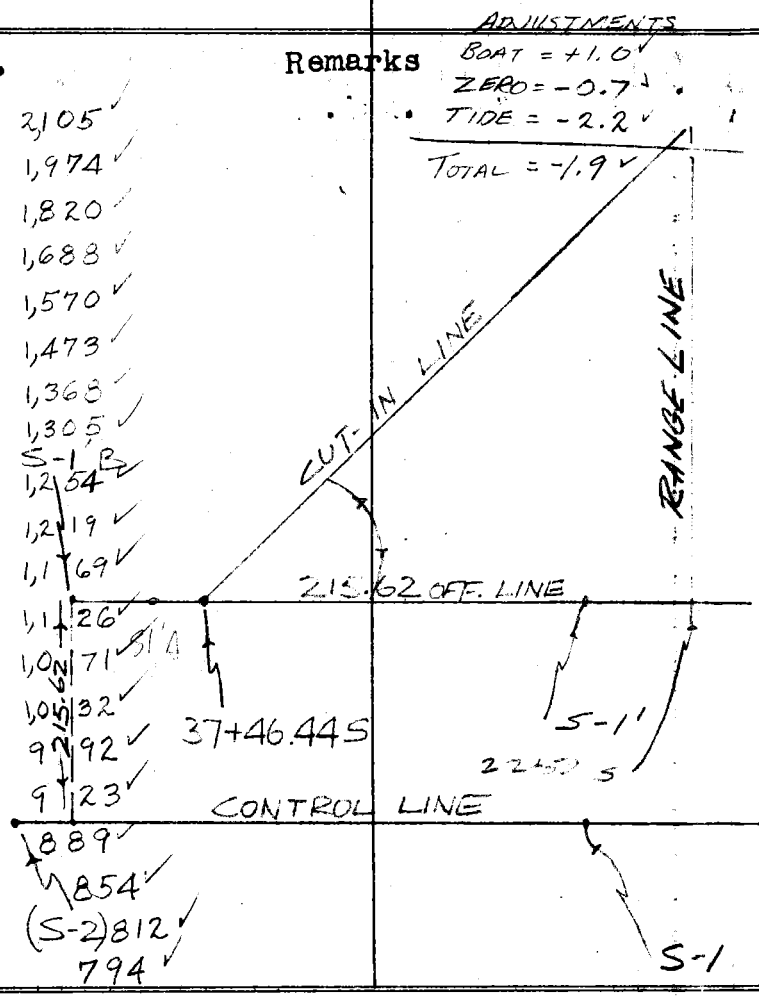
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Rec	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
37+46.44 S.	S-1'	1	29.5	27.6	6 22	52° 18'	2,105	ADJUSTMENTS BOAT = +1.0 ZERO = -0.7 TIDE = -2.2 TOTAL = -1.9
		2	28.5	26.6		50° 16'	1,974	
		3	27.8	25.9		47° 38'	1,820	
		4	27.3	25.4		45° 08'	1,688	
		5	26.6	24.7		42° 44'	1,570	
		6	25.8	23.9		40° 34'	1,473	
		7	25.1	23.2		38° 07'	1,368	
		8	24.5	22.6		36° 22'	1,305	
		9	24.1	22.2		35° 16'	S-1 1,254	
		10	23.4	21.5		34° 18'	1,219	
		11	22.7	20.8		32° 58'	1,169	
		12	21.7	19.8		31° 45'	1,126	
		13	20.3	18.4		30° 11'	1,071	
		14	18.9	17.0		29° 00'	1,032	
		15	17.4	15.5		27° 48'	992	
		16	16.1	14.2		26° 42'	923	
		17	14.8	12.9		24° 36'	889	
		18	13.4	11.5		23° 28'	854	
		19	12.1	10.2		22° 03'	(S-2) 812	
		20	10.4	8.5		21 28	794	



Profile No. ____ Notes Red. CMH Plotted CMH Job No. 0200.05 Division No. 10 F. B. 2562 Pg. 19
Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date ____
Date 9-29-59 Date 10-5-59 Map No. ____ Indexed ____

76298 S & E #307—7-55

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F. B. 2802 Pg. 20 | Job No 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile
Survey of BEACH EROSION STUDIES | Date 9-29-59 | Date 10-2-59 | No. | X-Sec.
Survey by LIBRIET | Notes STRUDER | Notes Chkd. JSH | Checked JSH
Indexed | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.	Remarks	
	21	—		20° 11'	Adjustment	
	22	—	6 26	20° 03	Boat = +1.0 ✓	
37+46.44 S.					Zero = -0.7 ✓	
S-1'					Tide = -2.2 ✓	
					Total = -1.9 ✓	

76L-296 CE 307 11-58

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 22+50	Sight on 17+50	
		25 59			DATUM MEAN LOWER LOW WATER	INSHORE	
	4 04	23 55	6 07	19 52		17+50 S.	
			50	18	215.62 OFFSET LINE		ADD OFFSET
			60	15		100 R.	316 R
			87	14 9		193 R.	409 R
			89	14 7		200 R.	416 R
			103	13 8		242 R.	458 R
			103	13 8		297 R.	492 R
			116	12 6		289 R.	505 R
			127	12 7		300 R.	516 R
[illegible]	0 6	9 8	144	9 2		310 R.	528 R
			51	4 7	34° 01'	337	553
			80	1 8	36 48	374	590
			106	-0 8	40 47	431	647
			121	-2 3	43 23	473	689
			132	-3 4	45 37	511	727
			150	-5 2	47 35	547	763
			170	-7 2	49 02	576	792

Profile Notes Red CWH Plotted CWH Job No. [illegible] Division No. 10
No. Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDY
X-Sec. Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes [illegible]
No. Date 9-29-59 Date 10-5-59 Map No. Indexer [redacted] Date [illegible]

F. B. 2802 Pg. 21

F. B. 2802 PG. 22

Job No. 0300.02 Division No. 10 Notes Red _____ Plotted _____ Profile

Survey of BEACH EROSION STUDIES Date _____ Date _____ No. _____

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

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

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

Do not extend notes this side of this line.

PLEASE RETURN TO

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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.

76L-296 CE 307 11-58

76L298 307 8-53

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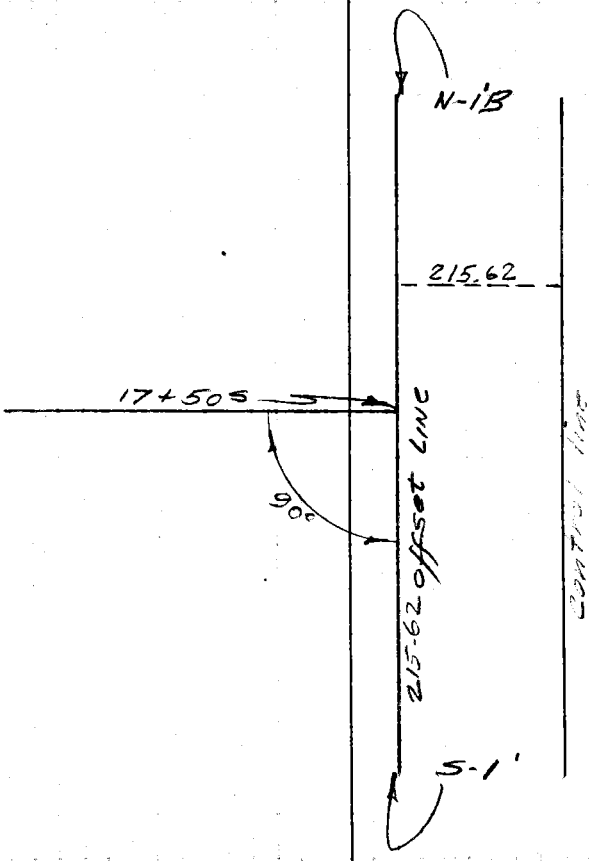
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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 / Sight On	#	Color	Time	Hor. Ang.	Remarks
	1		6:56	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	
17+50S / S-1'					



Profile Notes Red CWH Plotted CWH Job No. 63C102 Division No. 10 F. B. 2802 Pg. 23
No. Date 9-14-59 Date 10-2-59 Survey of Beach Erosion Study
X-Sec. Notes Chkd. JSH Checked JSH Survey by Whitnell Notes Elgin Date 8-19-59
No. Date 9-29-59 Date 10-5-59 Map No. Index C. Johnson

F. B. 2802 PG. 24

Job No. 0300P2 Division No. 10 Notes Red. CWH Plotted CWH

Survey of BEACH EROSION Study Date 9-24-59 Date 10-2-59

Survey by UHANNET Notes Ellen Notes Chkd. JSH Checked JSH

Indexed C. Johnson Date Date 9-29-59 Date 10-5-59

Profile No. X-Sec. No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight On	#	Color	Time	Hor. Ang.	
17+50.5					
5-1'					
	21			90° 00	
	22			"	
	23			"	
	24			"	
	25			"	
	26			"	
	27			"	
	28			"	
	29			"	
	30		6.40	"	

Do not extend notes this side of this line.

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 8-53

76298 S & E #307—7-55

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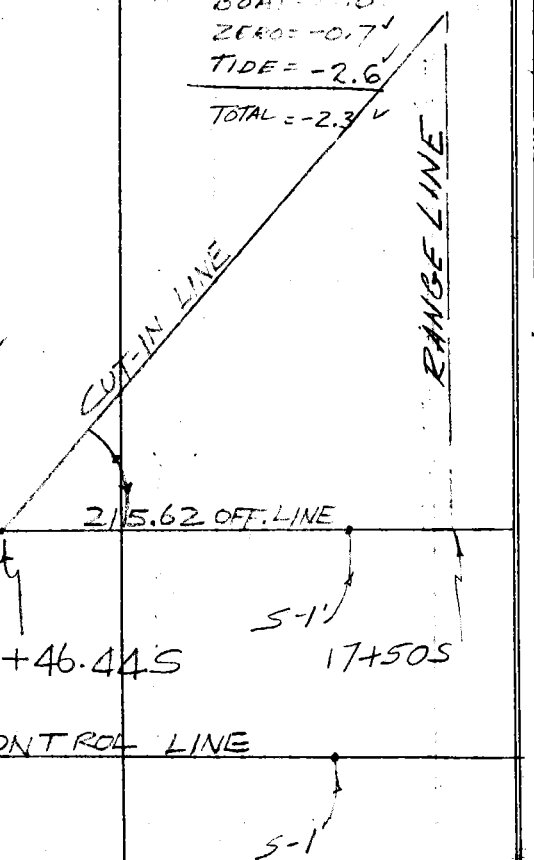
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
37+46.44 S.	S-1'	1	28.4	26.1	6 36	43° 47'	2083	ADJUSTMENTS / BOATFLOAT = 0 / ZERO = -0.7 / TIDE = -2.6 / TOTAL = -2.3
		2	27.9	25.6		41° 35'	1945	
		3	27.4	25.1		39° 40'	1835	
		4	26.4	24.1		37° 32'	1715	
		5	25.9	23.6		36° 05'	1635	
		6	25.3	23.0		34° 24'	1551	
		7	24.4	22.1		32° 36'	1460	
		8	24.0	21.7		30° 55'	(S-1 B) 1386	
		9	23.4	21.1		29° 20'	1313	
		10	22.8	20.5		27° 56'	1250	
		11	22.1	19.8		27° 18'	1222	
		12	21.5	19.2		26° 20'	1180	
		13	21.2	18.9		25° 53'	1161	
		14	21.0	18.7		25° 17'	1137	
		15	20.0	17.7		24° 38'	1108	
		16	19.0	16.7		23° 54'	1082	
		17	18.7	16.4		23° 20'	1056	
		18	18.2	15.9		22° 51'	1037	
		19	17.4	15.1		22° 22'	1005	
		20	16.6	14.3		21° 29'	(S-2) 982	



Profile Notes Red. CWH Plotted CWH Job No. 0300.06 Division No. 10 F. B. 2802 Pg. 25
No. Date 9-24-59 Date 11-5-59 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by Notes Chkd. Date
No. Date 9-28-59 Date 10-5-59 Map No. Indexed C. JOHNSON Date

F. B. 2802 Pg. 26 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of BEACH EROSION STUDIES | Date 9-29-59 | Date 10-2-59 | No.

Survey by HARRIET STRADER | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

37+46.44 S.

S-1'

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On					
# Rec. Adj.	Depth		Time	Hor. Ang.	
21	15.9	13.6		20° 52'	958
22	15.5	13.2		20 19	936
23	14.7	12.4		17 32	925
24	14.1	11.8		19 05	889
25	13.4	11.1		18 42	874
26	12.2	9.9		17 59	845
27	11.4	9.1		17 48	826
28	10.2	7.9		17 22	810
29	9.2	6.9		16 22	785
30	7.6	5.3		15 33	764

Adjustments
Boat = +1.0'
Zero = -0.7'
Tide = -2.6'
Total = -2.3'

76298 S & E #307—7-55

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L-298 CE 307 11-56

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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 8+00	Sight on 12+50	
					DATUM MEAN LOWER LOW WATER	INSHORE	
	3 14	21 73	4 11	18 [illegible]		12+50 S	
	4 03	17 77	8 04	13 [illegible]			ADJ. OFFSET
12+50			40	15 8	53° L		163 R
			51	12 7	215.62	OFFSET LINE	
			54	12 4		100° R.	316 R
			45	13 [illegible]		200° R.	416 R
			50	12 9		292 R.	508 R
			59	11 9		300 R.	516 R
TP1 FOR SWIM CONTROL	2 4	11 1	[illegible]	[illegible]		332 R.	548 R
			6 4	4 7	38° 29'	358	574
			9 4	1 [illegible]	41 17	395	611
			10 6	0 5	43 22	425	641
			11 6	-0 5	44 57	449	665
			12 8	-1 7	47 10	486	702
			13 6	-2 5	48 25	507	723
			151	-4 0	50 48	552	768
			170	-5 9	52 35	588	804

Profile No. X-8 Notes Red. CMH Plotted CMH Job No. 6700.20 Division No. 10
Date 9-19-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
Notes Chkd. JSH Checked JSH Survey by [illegible] Notes CMH Date 8-19-59
No. Date Date 10-2-59 Map No. Index C. John Date

F.B. 28802 PG. 27

F.B. 2802 PG. 28

Job No. 0300.02 Division No. 10 Notes Red _____ Plotted _____ Profile

Survey of BEACH EROSION STUDIES Date _____ Date _____ No. _____

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

Indexed G. Johnson Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L-206 CE 307 11-58

76L298 307 8-53

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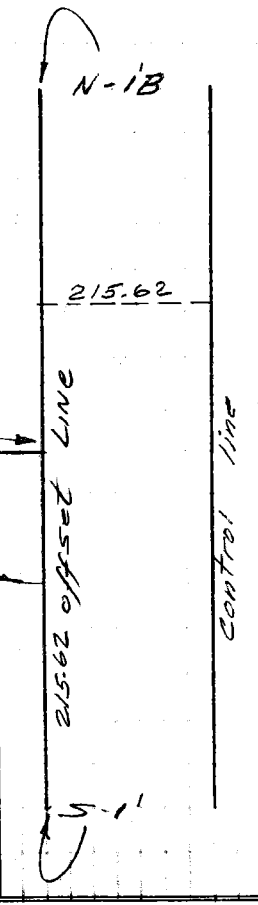
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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 / Sight On	#	Color	Time	Hor. Ang.	Remarks	
	1		7:11	90°00		
	2			" "		
	3			" "		
	4			" "		
	5			" "		
	6			" "		
	7			" "		
	8			" "		
	9			" "		
12+505 / S-1'	10			" "	12+505	
	11			" "		
	12			" "		
	13			" "		
	14			" "		
	15			" "		
	16			" "		
	17			" "		
	18			" "		
	19			" "		
	20			" "		



Profile No. ____ Date 9-24-59 Notes Red CWH Plotted CWH Job No. 03000 Division No. 10 F. B. 2802 Pg. 29
X-Sec. No. ____ Date 9-17-59 Notes Grid JSH Checked JSH Survey of BEACH EROSION STUDY
Date 9-17-59 Map No. ____ Indexed ____ Date ____ Survey by ~~WHITNEY~~ ~~Note Clerk~~ ~~Date~~ 8-17-59

F. B. 2802 Pg. 30 | Job No. 8300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Study | Date 9-29-59 | Date 10-2-59 | No.

Survey by [redacted] | Notes Ellen | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OH	#	Color	Time	Hor. Ang.	
12+50 S	21			90° 00	
S-1'	22			"	
	23			"	
	24			"	
	25			"	
	26			"	
	27			"	
	28		7:16	"	

761.298 307 8-53

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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.		ADD OFFSET	Remarks
2+00 S.	S-1		1	30.8	27.8	7 10	62° 03'	1979	2195	
			2	29.6	26.6		60° 28'	1853	2069	
			3	28.8	25.8		58° 57'	1744	1960	
			4	28.6	25.6		57° 54'	1674	1890	
			5	28.3	25.3		56° 19'	1575	1791	
			6	27.7	24.7		54° 55'	1495	1711	
			7	27.3	24.3		53° 04'	1397	1613	
			8	26.9	23.9		51° 39'	1327	1543	
			9	26.1	23.1		49° 15'	1219	1435	
			10	25.4	22.4		47° 15'	1136	1352	
			11	24.6	21.6		45° 45'	1078	1294	
			12	23.8	20.8		44° 30'	1032	1248	
			13	22.9	19.9		42° 10'	985	1201	
			14	21.9	18.9		42° 15'	953	1169	
			15	21.0	18.0		40° 52'	908	1124	
			16	20.3	17.3		39° 57'	880	1096	
			17	19.8	16.8		39° 12'	857	1073	
			18	18.8	15.8		38° 16'	828	1044	
			19	18.2	15.2		37° 42'	812	1028	
			20	17.4	14.4		36° 48'	(S-1) 785	1001	

RANGE LINE S-1

CUT-IN LINE

215.62 OFF. LINE

215.62

(12+50 S.)

CONTROL LINE

0+00

2+00 S.

0+00

ADJUSTMENTS
BOAT = +1.0
ZERO = -0.6
TIDE = -3.4
TOTAL = -3.0

Profile No. ____ Notes Red. CWH Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2802 Pg. 31
Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. JSH Checked JSH Survey by ____ Notes ____ Date ____
Date ____ Date 12-5-59 Map No. ____ Inked C. Johnson Date ____

76298 S & E #307—7-55

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F. B. 2802 Pg. 32 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH
Survey of BEACH EROSION STUDIES | Date 9-24-59 | Date 10-2-59 | No. | Profile
Survey [redacted] UNIMPRIT | Notes Chkd. JSH | Checked JSH | X-Sec.
Indexed [redacted] | Date 9-29-59 | Date 10-5-59 | No.

STATION Inst. At	Sight On	B. S. #	H. I. Rec.	Depth Adj.	F. S. Time	ELEV. Hor. Ang.	ADD OFFSET		Remarks
2+00 S.	S-1'	21	16.6	13.6		36° 02'	763	979	Adjustments
		22	15.9	12.9		35° 01'	736	952	Boat = +1.0
		23	14.9	11.9		33° 58'	708	924	Zero = -0.6
		24	13.9	10.9		33° 14'	688	904	Tide = -3.4
		25	12.8	9.8		32° 16'	663	879	Total = -3.0
		26	11.8	8.8					
		27	10.4	7.4					
		28	9.0	6.0	7 15				

76L-298 CE 307 11-56

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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 6+00	Sight on 8+00	
		17 77			DATUM MEAN LOWER LOW WATER	INSHORE	
	7 84	20 94	4 67	13 10		8+00	5.
			5 1	18 8	215.22	OFFSET LINE	ADD OFFSET
			5 2	15 7	570 L.		165 R
			5 1	16 2		100 L.	316 R
			6 0	14 7		200 L.	416 R
			6 4	12 5		252 R.	498 R
			10 0	10 9		300 R.	516 R
T.P.	2 0	11 8	1 1	1 5		309 R.	524 R
			7 1	4 7	60° 09'	349	565
			11 1	0 7	64 29	419	635
			12 5	-0 7	65 16	434	650
			13 6	-1 8	67 07	474	690
			14 5	-2 7	68 07	498	714
			16 5	-4 7	69 12	527	743
			17 8	-6 0	70 35	567	783

Profile No. X-Sec. Notes Red CWH Plotted CWH Job No. 0300.02 Division No. 10
Notes Chkd JSH Checked JSH Date 10-2-59 Survey of Beach Erosion Study
No. Date 9-24-59 Survey by Crew Notes Red Date Checked Date
No. Date 10-5-59 Map No. Index C. Tom Date

F.B. 28802 PG. 33

F.B. 2802 PG. 34

Job No. C300 02 Division No. 10 Notes Red _____ Plotted _____ Profile

Survey of BEACH EROSION STUDIES Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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76L-206 CE 307 11-58

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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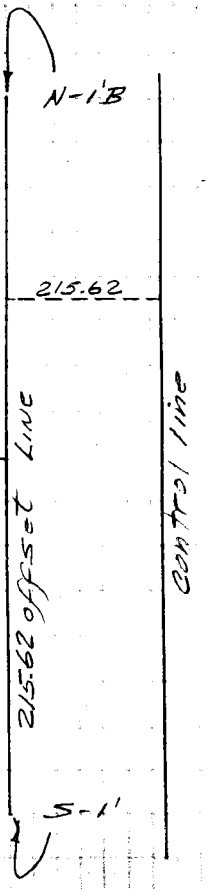
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At Ch	#	Color	Time	Hor. Ang.	Remarks
	1		7 40	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
8+00 S	10			" "	8+00 S
S-1'	11			" "	
	12			"	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



Profile
Notes Red CWH Plotted CWH Job No. 03200 Division No. 10 F. B. 2808
No. Date 9-21-59 Date 10-1-59 Survey of Beach Erosion Study Pg. 35
X-Sec. Notes Chkd. JSH Checked JSH Survey by Wilbert Notelidep Park 8-19-59
No. Date Date Map No. Index C. Johnson

F. B. 2802 Pg. 36

Job No. 1300.03 Division No. 10 Notes Red. CWH Plotted CWH Profile

Survey of BEACH EROSION Study Date 9-24-59 Date 10-2-59 No.

Survey by Whitnet Notes Liden Notes Chkd. JSH Checked JSH X-Sec.

Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
8+00S					
S-1'					
Inst. Sight At OH					
	#	Color	Time	Hor. Ang.	
	21			90° 00	
	22			" "	
	23			" "	
	24		7 44	" "	

76L298 307 8-53

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76298 S & E #307—7-55

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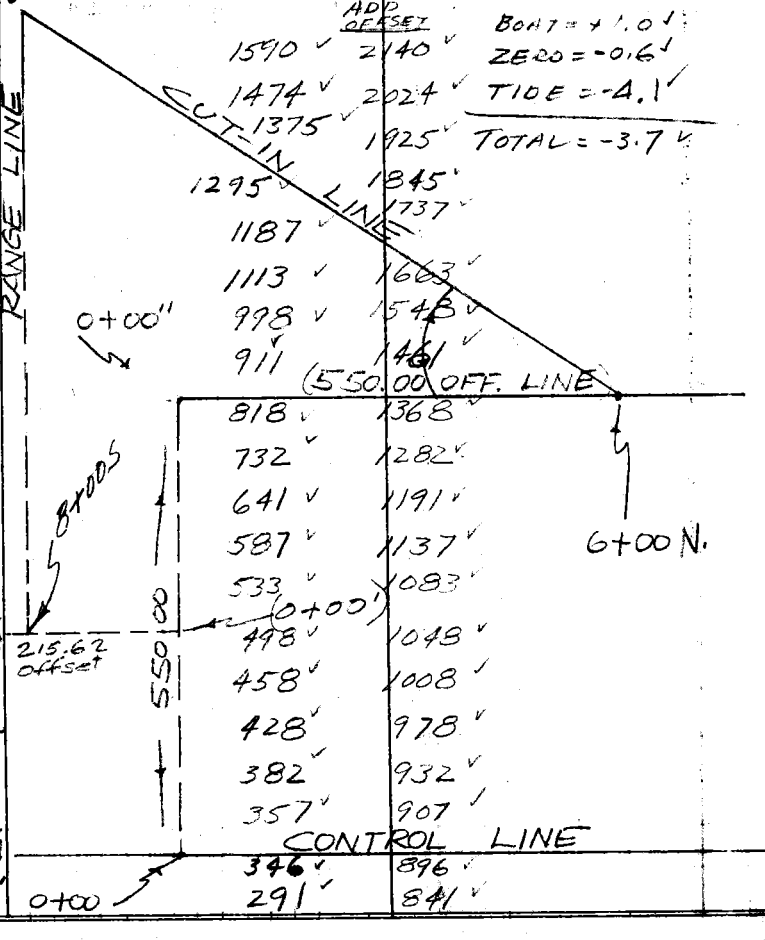
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	#	B. S. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks	ADD OFFSET
		1	30.0	26.3	7 39	48° 38'	1590	2140
		2	29.4	25.7		46° 28'	1474	2024
		3	29.1	25.4		44° 28'	1375	1925
		4	28.7	25.0		42° 47'	1295	1845
		5	28.4	24.7		40° 18'	1187	1737
		6	28.0	24.3		38° 29'	1113	1663
		7	27.2	23.5		35° 30'	998	1548
		8	27.0	23.3		33° 02'	911	1461
		9	26.3	22.6		30° 17'	818	1368
		10	25.7	22.0		27° 36'	732	1282
		11	25.2	21.5		24° 37'	641	1191
		12	24.4	20.7		22° 44'	587	1137
		13	23.2	19.5		20° 50'	533	1083
		14	21.4	17.7		19° 35'	498	1048
		15	19.8	16.1		18° 07'	458	1008
		16	18.7	15.0		17° 02'	428	978
		17	17.4	13.7		15° 17'	382	932
		18	16.3	12.6		14° 17'	357	907
		19	15.2	11.5		12° 54'		
		20	14.0	10.3		11° 46'	346	896
							291	841



ADJUSTMENTS
BORT = +1.0'
ZERO = -0.6'
TIDE = -4.1'
TOTAL = -3.7'

6+00 N.
0+00"

Profile Notes Red. CWH Plotted CWH Job No. 0300.02 Division No. 10 F. B. 2302
No. Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES Pg. 37
X-Sec. Notes Chkd. JSH Checked JSH Survey by Notes
No. Date 9-28-59 Date 10-5-59 Map No. Index C. Jones Date

F. B. 2802 Pg. 38 | Job No. 0300.02 | Division No. 10 | Notes Red CWH | Plotted CWH | Profile

Survey of BEACH EROSION STUDIES | Date 9-24-59 | Date 10-2-59 | No.

Survey by HARRIET STRADER | Notes | Notes Chkd JSH | Checked JSH | X-Sec.

Indexed C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

76298 S & E #307—7-55

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 Los Angeles County Engineering Bldg.

Do not extend notes this side of this line.

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

STATION	B. S.	H. I.	F. S.	ELEV.		
6+00 N.						
0+00"						
Inst. Sight At On						
# Rec.	Depth Adj.	Time	Hor. Ang.		ADD OFFSET	Remarks
21	12.6'	8.9'	10° 07'		249'	799'	Adjustments
22	10.8	7.1	9° 23'		235'	785'	Boat = +1.0'
23	9.0'	5.3'	8° 32'		210'	760'	Zero = -0.6'
24	8.3'	4.6'	7° 28'		183'	733'	Tide = -4.1'
							Total = -3.7'

76L-298 CE 307 11-58

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 2+00	Sight on 6+00	
		20 9			DATUM MEAN LOWER LOW WATER	INSHORE 6+00 S.	
			60	12 4			ADD OFFSET
			62	14 4	13° L.		203 R
			71	13 5		100° R.	316
			81	14 2		200° R.	416
			89	12 2		267° R.	483 R
			96	11 3		277° R.	493 R
			[illegible]	9 5		300° R.	516 R
	1 0	10 8	61	4 7	40° 10'	338	554
			91	1 7	43 01	373	589
			112	-0 4	46 27	421	637
			132	-2 4	49 20	466	682
			140	-3 2	51 14	498	714
			164	-5 6	53 06	533	749
			190	-8 2	54 48	567	783

Profile Notes Red C.W.H. Plotted C.W.H. Job No. 0300.02 Division No. 60
No. Date 9-24-59 Date 10-2-59 Survey of [illegible]
X-Sec. Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes [illegible] Date [illegible]
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. Johnson

F.B. 2802 Pg. 39

F.B. 2802 PG. 40

Job No. 030-02 Division No. 16 Notes Red _____ Plotted _____ Profile

Survey of BEACH EROSION STUDIES Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L-206 CE 307 11-58

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.

76L298 307 8-53

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

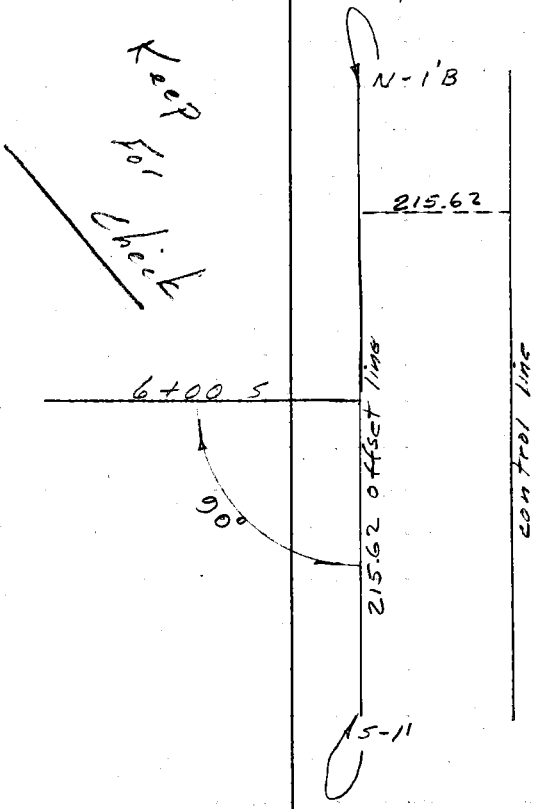
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile No. ____ X-Sec. No. ____ Notes Red. CWH Date 9-24-59 Notes Chkd. JSH Date 9-29-59 Plotted CWH Date 10-2-59 Checked JSH Date 10-5-59 Job No. 0300.02 Survey of Beach Erosion Study Survey by Hewitt Map No. ____ Division No. 10 Notes Lidar Date 5-18-58 Indexed C. Jeb[illegible] F. B. 28802 Pg. 41

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		7 55	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18		7 58	" "	
	19	Void		" "	
	20			" "	

Keep For Check



6+00 S

S-1'

F. B. 2807 Pg. 42 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Study | Date 9-24-59 | Date 10-2-59 | No.

Survey by Uhariet | Notes Liden | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

76L298 307 8-53

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OR	# Color	Time	Hor. Ang.		
6+00.5	21		90° 00		
S-1'	22		"		
	23		"		
	24		"		

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. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
6+00 N.	0+00"	1	30.4	26.5	7 54	52° 36'	
		2	30.1	26.2		50° 40'	
		3	29.8	25.9		47° 53'	
		4	29.2	25.3		45° 29'	
		5	28.7	24.8		42° 53'	
		6	28.3	24.4		40° 40'	
		7	28.0	24.1		38° 37'	
		8	27.2	23.3		36° 03'	
		9	26.5	22.6		32° 52'	
		10	26.0	22.1		29° 53'	
		11	25.4	21.5		27° 46'	
		12	24.8	20.9		26° 01'	
		13	23.2	19.3		23° 58'	
		14	21.4	17.5		22° 10'	
		15	20.0	16.1		20° 11'	
		16	19.5	15.1		18° 48'	
		17	18.1	14.2		17° 39'	
		18	16.9	13.0		16° 08'	
		19	15.3	11.4		14° 42'	
		20				PLANE	

RANGE LINE

CUT-IN LINE

6+00 S

215.62 offset

550.00

1570 (ADD OFFSET) 2120 (VOID)
1464 2014
1327 1877
1220 1770
1115 1665
(0+00") 1031 1581
959 1509
874 1424
(550.00 OFF. LINE)
775 1325
690 1240
632 1182
586 0+00 1136
534 1094
488 1038 992
442 (CONTROL LINE)
408 958
382 932
347 897
(0+00) 314 864

6+00 N.

Adjustments
Boat = +1.0
Zero = -0.6
KEEP Tide = -4.3
Total = -3.9

Profile
Notes Red. Date 7-24-59 Plotted Date 12-2-59 Job No. 0300.02 Division No. 10 F. B. 7602 Pg. 43
X-Sec. Notes Chkd. Date 7-29-59 Checked Date 8-3-59 Survey of BENCH EROSION STUDIES Survey by A. MARBIET Notes R.L.S. Date 8-19-59
No. Map No. Job 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. At / Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.		Remarks
	21		PLANES			Adjustments
	22					Boat = +1.0
	23		7 58	(VOID)		Zero = -0.6
				KEEP		Tide = -4.3
						Total = -3.9
6+00 N.						
0+00"						

F. B. 2302 Pg. 44 Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH No. Profile
Survey of BEACH EROSION STUDIES Date 3-24-59 Date 10-3-59 X-Sec.
Survey by CHARRIET Notes STRADER Notes Chkd. JSH Checked JSH
Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

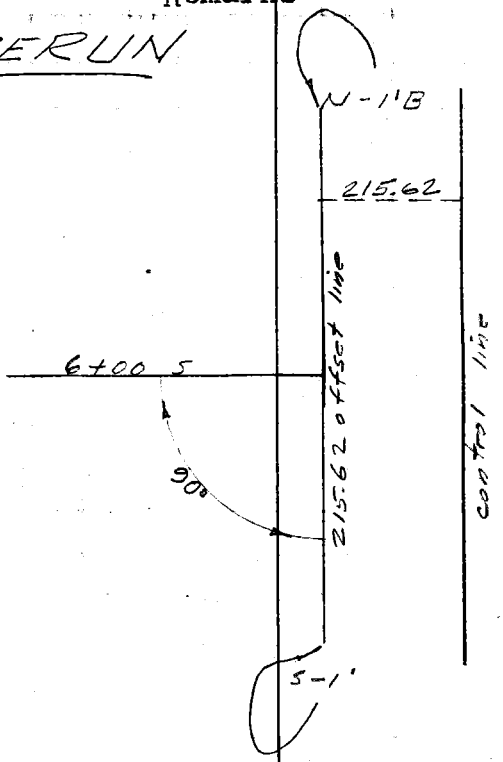
76L298 307 8-53

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.		Remarks
Inst. At / Sight On	#	Color	Time	Hor. Ang.		
	1		8 07	90 00		RERUN
	2			" "		
	3			" "		
	4			" "		
	5			" "		
	6			" "		
	7			" "		
	8			" "		
	9			" "		
	10			" "		
	11			" "		
	12			" "		
	13			" "		
	14			" "		
	15			" "		
6+00 5	16	5-1'		" "		
	17			" "		
	18			" "		
	19			" "		
	20			" "		



Profile
No. ____ Notes Red. CMH Plotted CMH Job No. 0300a Division No. 10 F. B. 28802 Pg. 45
X-Sec. ____ Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Study
No. ____ Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date ____
Date 9-29-59 Date 10-5-59 Map No. ____ Indexed G. Johnson Date ____

F. B. 2802 Pg. 46 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Study | Date 9-24-59 | Date 10-2-59 | No.

Survey by Uharriet | Notes Liden | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed K. C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OR	#	Color	Time	Hor. Ang.	
6+00S					
5-1'					
	21			90° 00	
	22			"	
	23			"	
	24			"	

Do not extend notes this side of this line.

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

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

76L298 307 8-53

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. Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks		
6+00 N.	0+00"	1	29.2	25.1	806	45° 43'		1230	1780
		2	28.4	24.3		41° 47'		1073	1623
		3	28.0	23.9		39° 10'		978	1528
		4	27.4	23.3		35° 52'		868	1418
		5	27.2	23.1		34° 04'		811	1361
		6	26.9	22.8		32° 29'		764	1314
		7	26.4	22.3		30° 53'		718	1268
		8	26.2	21.9		29° 27'		678	1228
		9	25.7	21.6		28° 12'		643	1193
		10	25.3	21.2		26° 43'		604	1154
		11	24.6	20.5		25° 39'		576	1126
		12	23.7	19.6		24° 16'		541	1091
		13	22.7	18.6		23° 00'		509	1059
		14	22.0	17.9		21° 42'		478	1028
		15	20.3	16.2		20° 12'		442	992
		16	19.1	15.0		18° 33'		403	953
		17	18.2	14.1		17° 19'		374	924
		18	17.0	12.9		15° 55'		342	892
		19	15.8	11.7		14° 57'		320	870
		20	14.4	16.3		13° 15'		282	832

RERUN

ADD OFFSET

CUT-IN LINE

RANGE LINE

0+00"

6+00 N.

6+00S

215.62 offset

550.00

(550.00) OFF. LINE

(0+00)

CONTROL LINE

(0+00)

ADJUSTMENTS
BOMT = +1.0
ZERO = -0.6
TIDE = -4.5
TOTAL = -4.1

Profile Notes Red. CWH Plotted CWH Job No. 2300 Division No. 10 F. B. 2802 Pg. 47
No. Date 9-24-59 Date 10-2-59 Survey of PICO LOCKON STREET
X-Sec. Notes Chkd. JSH Checked JSH Survey by ALPHE Notes P.I.S. Date 8-19-59
No. Date 9-29-59 Date 10-5-59 Map No. Inst. C. Johnson

F. B. 2802 Pg. 48 | Job No. 030002 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of BEACH EROSION STUDIES | Date 9-29-59 | Date 10-2-59 | No.

Survey by HARRIET | Notes STRADER | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed K. C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | 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 On / At	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
6+00 N.												
0+00"												
						21	13.3	9.2		12° 07'	258°	808' Adjustment
						22	12.4	8.3		11° 16'	239	789' Boat = +1.0
						23	11.0	6.9		10° 01'	214	764' Zero = -0.6
						24	9.0	4.9	3.01	9° 02'	191	741' Tide = -4.5
												Total = -4.1

76L-298 CE 307 11-58

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.

Profile No. Notes Red. CWH Plotted WH Job No. C300.02 Division No. 10
X-Sec. No. Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible] Date [illegible]
Date 9-29-59 Date 10-5-59 Map No. Ind. [illegible]

STATION	B.S.	H.I.	F.S.	ELEV.	Instat 2+00	Sight on 4+00	
		20 74			DATUM MEAN LOWER LOW WATER	INSHORE 4+00	S. ALO OFFSET
TP	3 52	18 63	5 93	15 11			
			4 4	14 2	215.62 OFF SET LINE		
			3 0	15 6	33° L.		183R
			4 9	13 7		100° R.	316R
			4 2	14 4		200° R.	416R T. ROCK
			2 3	12 3		264° R.	480R
TP FOR NEW POINT	0 5	10 1	9 0	9 6		300° R.	516R
			5 4	4 7	59° 02'	333	549
			8 5	1 6	61 51	374	590
			9 7	0 4	64 00	410	626
			11 7	-1 6	66 01	450	666
			13 0	-2 9	66 52	468	684
			16 1	-6 0	69 44	542	758

F.B. 28802 Pg. 49

F.B. 2802 Pg. 50

Job No. 0300.02 Division No. 10 Notes Red _____ Plotted _____ Profile

Survey of BEACH EROSION STUDIES Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

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.

76L-286 CE 307 11-58

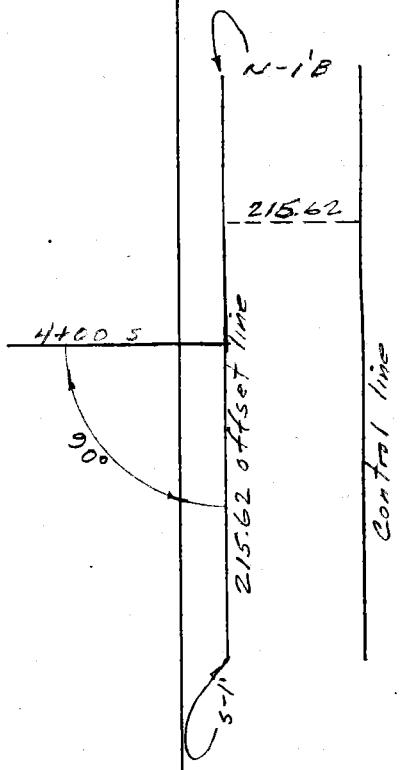
76L298 307.8-53

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. Sight At Ch	#	Color	Time	Hor. Ang.	Remarks
	1		8 19	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



4+00 S

S-1'

Profile Notes Red CWT Plotted CWT Job No. 2300.00 Division No. 10 F. B. 2802 Pg. 57
No. Date 8-24-59 Date 12-2-59 Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked " Survey by " Notes Date
No. Date 9-20-59 Date 12-3-59 Map No. Index C. Jones Date

76L298 307 8-53

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

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

Do not extend notes this side of this line.

F.B. 2802 Pg. 52 | Job No. 0320-02 | Division No. 18 | Notes Red. CWH | Plotted CWH | Profile No.
Survey of Beach Erosion Study | Date 9-24-59 | Date 10-2-59 | X-Sec. No.
Survey by Wheeler | Notes Lidar | Notes Chkd. JSH | Checked JSH
Index C. Johnson | Date | Date 9-29-59 | Date 10-5-59

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.		Remarks
	21			90° 00		
	22			" "		
	23			" "		
	24			" "		
	25			" "		
	26			" "		
	27			" "		
	28		B 23	" "		
4260.5						
S-1'						

76298 S & E #307—7-55

PLEASE RETURN TO
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700 LOS ANGELES COUNTY ENGINEERING BLDG.

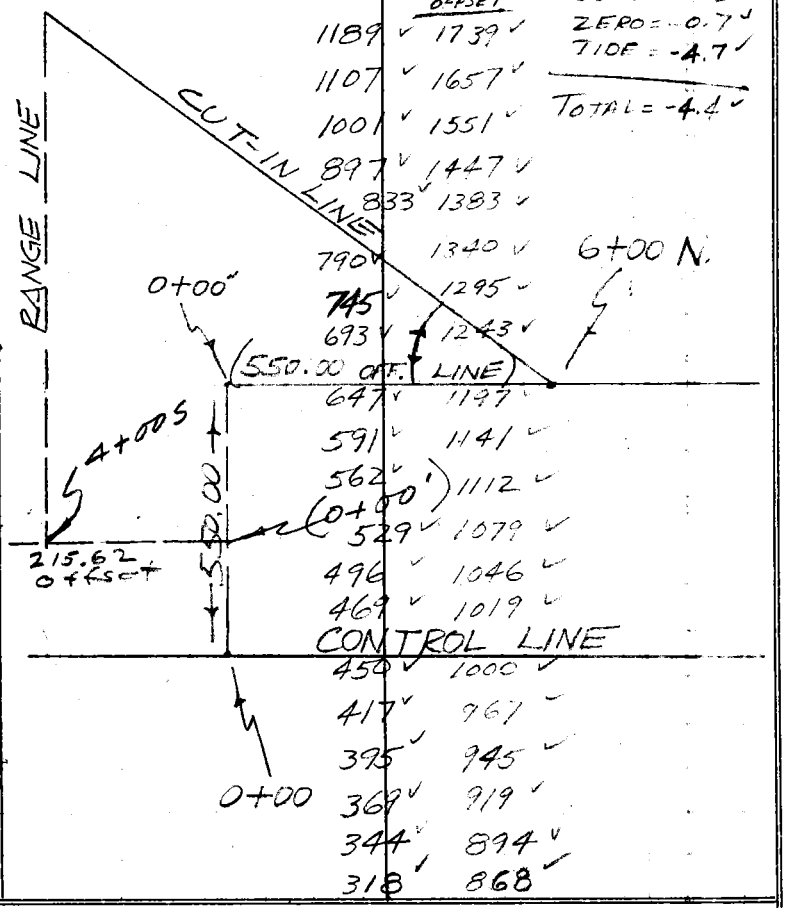
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
~~Inst.~~ At	~~Sight~~ On	#	Rec.	~~Depth~~ Adj.	Time	Hor. Ang.		Remarks
6+00 N.	0+00"	1	29.1	24.7	8 18	49°56'	1189	1739
		2	28.8	24.4		47°55'	1107	1657
		3	28.3	23.9		45°02'	1001	1551
		4	27.9	23.5		41°54'	897	1447
		5	27.5	23.1		39°48'	833	1383
		6	27.3	22.9		38°18'	790	1340
		7	26.8	22.4		36°41'	745	1295
		8	26.4	22.0		34°44'	693	1243
		9	26.1	21.7		32°55'	647	1197
		10	25.6	21.2		30°35'	591	1141
		11	25.1	20.7		29°19'	562	1112
		12	24.2	19.8		27°54'	529	1079
		13	23.2	18.8		26°24'	496	1046
		14	22.2	17.8		25°07'	469	1019
		15	21.2	16.8		24°15'	450	1000
		16	20.2	15.8		22°37'	417	967
		17	19.3	14.9		21°32'	395	945
		18	18.2	13.3		20°15'	369	919
		19	17.3	12.9		19°00'	344	894
		20	16.2	11.8		17°39'	318	868

ADD OFFSET

ADJUSTMENTS
BOATS = +1.0
ZERO = -0.7
710F = -4.7
TOTAL = -4.4



Profile No. ____ Notes Red. CMH Plotted CMH Date 9-24-59 Date 10-2-59 Job No. 0300.03 Division No. 10 F. B. 2802 Pg. 53
X-Sec. No. ____ Notes Chkd. CMH Checked CMH Date 9-29-59 Date 10-5-59 Survey of BEACH EROSION STUDIES
Survey by MARPLE Notes Date
Map No. ____ Inspected

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. 2802 Pg. 54 | Job No. 82002 Division No. 10 Notes Red. CWH Plotted CWH No.
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 X-Sec.
Survey by OLIVERIET Notes STRADER Notes Chkd. JSH Checked JSH
Index C. Johnson Date Date 9-28-59 Date 10-5-59 No.
Profile

STATION Inst. At	Sight On	B. S. #	H. I. Rec.	Depth Adj.	F. S. Time	ELEV. Hor. Ang.		ADD OFFSET	Remarks
		21	15.7	11.3		16° 44	301	851	Adjustments
		22	14.9	10.5		16° 02	287	837	Boat = +1.0
		23	14.2	9.8		15° 12	272	822	Zero = -0.7
		24	12.8	8.4		14° 14	254	804	Tide = -4.7
		25	11.1	6.7		12° 36	224	774	Total = -4.4
		26	9.8	5.4		11° 21	201	751	
		27	8.2	3.8		9° 31	169	719	
6+00 N.	0+00"	28	—		8 22	8° 38	152	702	

76L-296 CE 307 11-58

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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 0+00	Sight on 2+00	
		18.63			DATUM MEAN LOWER LOW WATER	INSHORE	
						2+00 S.	ADD OFFSET
			48	13 8	215.63 OFFSET LINE		
			47	13 9	50° L.		166 R
			54	12 2		100° L.	316 R
			52	12 8		200° L.	416 R
			66	12 0		240 L.	476 R
			77	10 4		274 L.	490 R
TH. FOR DATUM PLANE ONLY	0 5	10 5	86	10 6		295 L.	511 R
			58	4 7	59° 16'	336	552
			88	1 7	62 00	376	592
			107	-0 2	64 39	422	638
			123	-1 8	66 03	450	666
			137	-3 2	68 34	509 ?	725
			160	-5 5	70 00 ?	550 ?	766
		7	180	-7 5	69 56	548 ?	764

Profile Notes Red CWH Plotted CWH Job No. 5300.02 Division No. 1
No. Date 9-24-57 Date 10-2-57 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible] Date 8 [illegible]
No. Date 9-26-57 Date 10-5-57 Map No. Indexed C. 55 Date

F.B. 2802 Pg. 55

F. B. 2802 PG. 56

Job No. 0300.02 Division No. 10 Notes Red _____ Plotted _____ Profile

Survey of BEACH EROSION STUDIES Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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76L-298 CE 307 11-58

76L298 207.8-53

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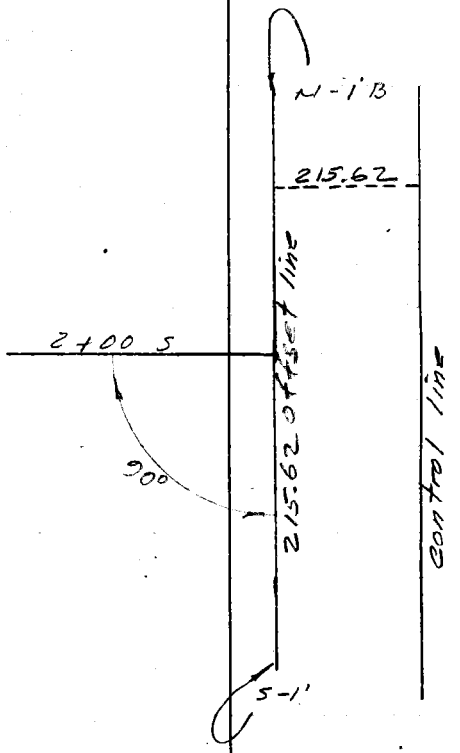
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.	Remarks
Inst. Sight At Ch	#	Color	Time	Hor. Ang.	
	1		8 38	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



Profile Notes Red. CWH Plotted CWH Job No. 0360.02 Division No. 10 F. B. 2802 Pg. 57
No. Date Date 11-2-59 Survey of Beach Crossing Stacks
X-Sec. Notes Chkd. Checked Survey by Notes Date
No. Date 12-9-59 Date 12-5-59 Map No. Inspector C. Johnson

F.B. 2802 Pg. 58 | Job No. 03002 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Study | Date 9-24-59 | Date 10-2-59 | No. | X-Sec.

Survey by Harriet | Notes Listen | Notes Chkd. JSH | Checked JSH

Indexed C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

76L298 307 8-53

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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. Sight At On	#	Color	Time	Hor. Ang.		Remarks
	21		8 46	90	00°	
	22			"	"	
	23			"	"	
	24			"	"	
	25			"	"	
	26			"	"	
	27			"	"	
2+00 S						
S-1'						

76298 S & E #307—7-55

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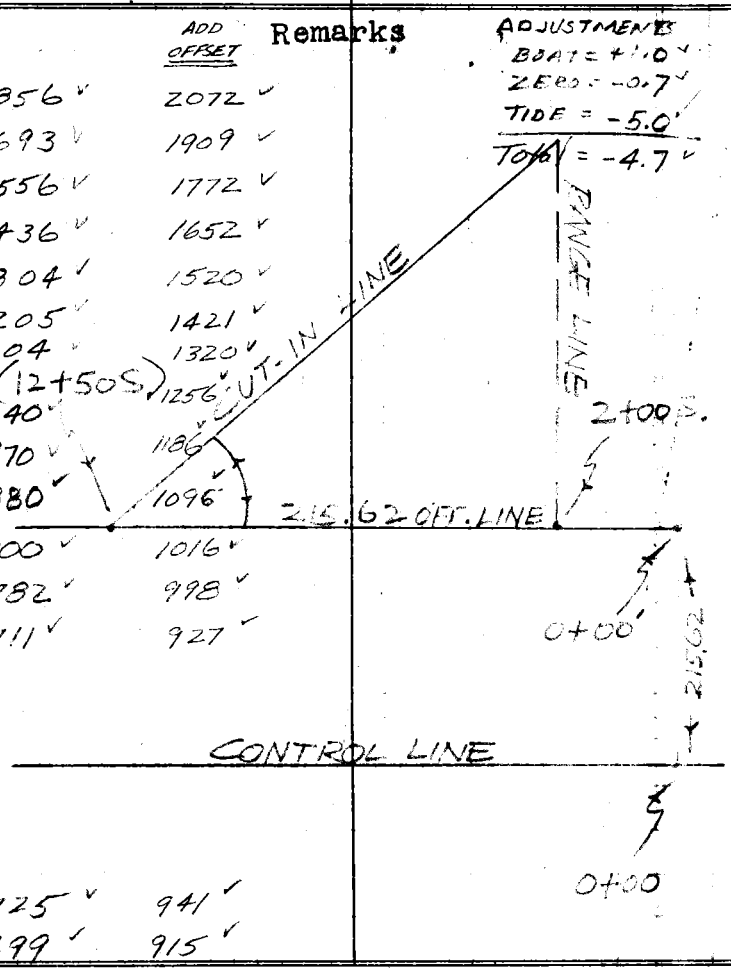
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		ADD OFFSET	Remarks
12+50 S.	0+00	1	30.2	25.5	8 38	60° 30'	1856	2072	
		2	29.4	24.7		58° 11'	1693	1909	
		3	29.1	24.4		55° 59'	1556	1772	
		4	28.5	23.8		53° 50'	1436	1652	
		5	28.2	23.5		51° 09'	1304	1520	
		6	28.0	23.3		48° 57'	1205	1421	
		7	27.3	22.6		46° 26'	1104	1320	
		8	26.8	22.1		44° 42'	1040	1256	
		9	26.0	21.3		42° 45'	970	1186	
		10	24.6	19.9		39° 58'	880	1096	
		11	22.6	17.9		37° 19'	800	1016	
		12	20.8	16.1		36° 41'	782	998	
		13	19.1	14.4		34° 07'	711	927	
		14							
		15							
		16							
		17							
		18							
		19	19.5	14.8		34° 36'	725	941	
		20	18.1	13.4		33° 40'	699	915	

ADJUSTMENTS
BOAT = +1.0
ZERO = -0.7
TIDE = -5.0
TOTAL = -4.7



Profile No. ____ Notes Red. CMH Date 8-24-59 Plotted CMH Date 10-2-59 Job No. [illegible] Division No. 10 F. B. 2802 Pg. 59
X-Sec. No. ____ Notes Chkd. [illegible] Date 8-29-59 Checked [illegible] Date 10-5-59 Survey of BEACH EROSION STUDIES Survey by UNIFIRET Notes P.T.S. Date [illegible] Map No. ____ Noted C. [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.

F. B. 2802 Pg. 60 | Job No. 030002 Division No. 10 Notes Red. CWH Plotted CWH
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No. Profile
Survey by HARRIET Notes STRADER Notes Chkd. JSH Checked JSH X-Sec.
Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

STATION Inst. At	Sight On	#	B. S. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		ADR OFFSET	Remarks
		21	17.0	12.3		32° 10	660	876	Adjustments
		22	16.0	11.3		31° 05	633	849	Boat = +1.0
		23	14.4	9.7		29° 45	601	817	Zero = -0.7
		24	12.5	7.8		28 34	571	787	Tide = -5.0
		25	11.2	6.5		27° 44	552	768	Total = -4.7
		26	9.6	4.9		26° 08	516	732	
12+50 S.	0+00	27	7.5	2.8	8 46	25° 05	491	707	

76L-296 CE 307 11-58

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

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	last at 4+00 N.	Sight on 0+00 N
		13 63			DATUM MEAN LOWER LOW WATER	INSHORE
	598	18 71	505	12 75		0+00
			51	13 9	400' OFFSET LINE	ADD OFFSET
			54	13 6	100' R.	300L
			40	15 0	200' R.	200L
			68	12 2	300' R. T. [illegible]	400L
T.P.	1 1	10 9	92	9 8	100' R.	500L
			62	4 7	21° 17'	556
			90	1 9	26 00	595
			114	-0 5	31 31	645
			132	-2 3	36 12	693
			138	-2 9	37 51	711
			155	-4 6	40 37	743
			176	-6 7	42 45	770

Profile Notes Red C.W.H. Plotted C.W.H. Job No. C30002 Division No. 16
No. Date 9-28-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. J.S.H. Checked J.S.H. Survey by [illegible] Notes [illegible] Date [illegible]
No. Date 9-28-59 Date 10-5-59 Map No. Indexed C. John[redacted]

F.B. 2802 Pg. 61

F.B. 2802 Pg. 62

Job No. 0300.02 Division No. 10 Notes Red _____ Plotted _____ Profile

Survey of BEACH EROSION STUDIES Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L-288 CE 307 11-58

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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.

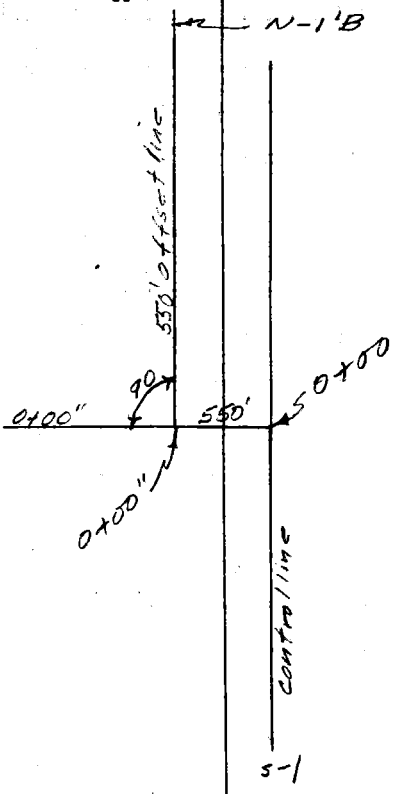
76L298 307 8-53

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. Sight At On	#	Color	Time	Hor. Ang.	Remarks
	1		9 19	90 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
0+00" N-1'B	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



Profile Notes Red CWH Plotted CWH Job No. 0030-02 Division No. 18 F. B. 2802 Pg. 63
No. Date 8-25-58 Date 12-2-58 Survey of Beach Erosion Study
X-Sec. Notes Chkd. JSC Checked JSH Survey by Wharrad Notes Lidey Date 8-18-58
No. Date 2-10-59 Date 10-5-59 Map No. Inspector C. Johnson Date

F.B. 2802 Pg. 64 | Job No. 0300.00 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Study | Date 9-24-59 | Date 10-2-59 | No.

Survey by Uberriet | Notes Lidar | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed [redacted] C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight On	#	Color	Time	Hor. Ang.	
0+00"	21			90° 00	
N-1'B	22			" "	
	23			" "	
	24			" "	
	25		9 23	" "	

76L298 3C7 8-53

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76298 S & E #307—7-55

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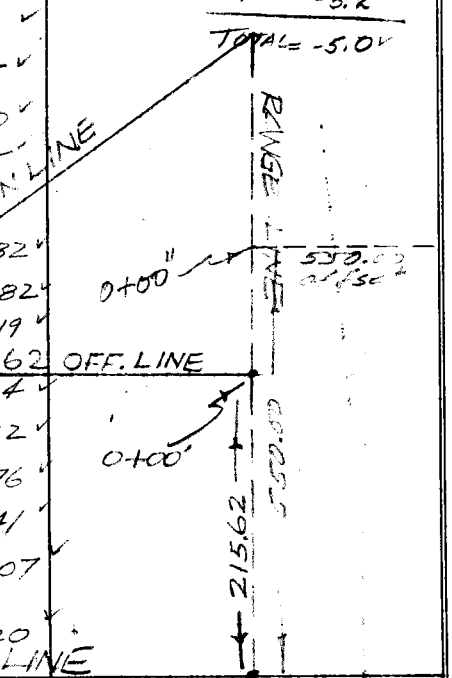
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks ADD. OFFSET	
12+50 S.	0+00	1	29.5	24.5	9 19	51°31	1573	1789	
		2	29.0	24.0		47°31	1465	1681	
		3	29.0	24.0		42°00	1389	1605	
		4	29.0	24.0		40°25	1314	1530	
		5	28.5	23.5		44°45	1239	1455	
		6	28.0	23.0		42°13	1175	1391	
		7	27.6	22.6		41°46	1116	1332	
		8	27.4	22.4		40°28	1066 (12+50 S.)	1282	
		9	26.3	21.3		38°42	1003	1219	
		10	25.8	20.8		37°28	958	1174	
		11	25.5	20.5		36°15	916	1132	
		12	24.7	19.7		34°32	860	1076	
		13	23.6	18.6		33°26	825	1041	
		14	22.7	17.7		32°21	791	1007	
		15	21.0	16.0				920	
		16	19.9	14.9		29°22	704		
		17	18.7	13.7					
		18	17.6	12.6					
		19	16.0	11.0		26°21	619	835	
		20	14.5	9.5		25°29	596	812	

ADJUSTMENTS
BSAT = +1.0
ZERO = -0.8
TIDE = -5.2
TOTAL = -5.0



Profile Notes Red. CWH Plotted CWH Job No. Division No. 10
No. Date 9-24-59 Date 10-2-59 Surveyor REACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Surveyed by Notes Date
No. Date Date 10-5-59 Map No. Indexed Date
F. B. 2802 Pg. 65

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.

F. B. 2802 Pg. 66 | Job No. 0300.02 | Division No. 10 | Notes Red CWH | Plotted CWH | Profile No.
Survey of BEACH EROSION STUDIES | Date 9-24-59 | Date 10-2-59 | X-Sec. No.
Survey by HARRIET STRADER | Notes Chkd. JSH | Checked JSH
Indexed L. C. Johnson | Date | Date 9-23-59 | Date 10-5-59 | No.

STATION Inst. At	Sight On	B. S. #	H. I. Rec.	Depth Adj.	F. S. Time	ELEV. Hor. Ang.		ADD OFFSET	Remarks
		21	13.1	8.1		21°37	573	789	Adjustments
		22	11.5	6.5		22°43	551	767	Boat = +1.0
		23	10.0	5.0		23°47	524	740	Zero = -0.8
		24	8.5	3.5		25°05	508	724	Tide = -5.2
12+50 S.	0+00	25	7.9	2.9	9 23	21°03	481	697	Total = -5.0

76L-298 CE 307 11-58

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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 4+00	Sight on 2+00	
		18 96			DATUM MEAN LOWER LOW WATER	/HSHORE	
	4 14	17 19	5 9	13 0		2+00 N.	
			4 4	12 8	400' OFFSET LINE		ADD OFFSET
			4 2	13 0		100° R.	300L
			1 8	16 4		200° R	200L
			5 4	11 8	94° L.		494L
			5 9	11 3	100 L.		500L
TIE FOR CWIB	0 7	10 7	7 2	10 0	117 L.		517L
			6 0	4 7	39° 02'	162	562
			9 8	0 9	47 25	218	618
			123	- 1 6	53 29	270	670
			135	- 2 8	56 40	304	704
			141	- 3 4	57 22	312	712
			153	- 4 6	60 25	352	752
			170	- 6 3	61 96	372	772

Profile Notes Red CWH Plotted CWH Job No. 0300-02 Division No. 16
No. Date 9-24-59 Date 10-2-59 Survey of FRONTAGE ROAD STUDIES
X-Sec. Notes Ckd. KCH Checked KCH Survey by [illegible] Notes [illegible] Date 8-14-59
No. Date 2-25-59 Date 10-5-59 Map No. Indexed C. Johnson
F.B. 2802 Pg. 67

F.B. 2802 PG. 68 | Job No. 0300.02 | Division No. 10 | Notes Red | Plotted | Profile

Survey of BEACH EROSION STUDIES | Date | Date | No.

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

Indexed | Date | Date | Date | No.

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

Do not extend notes this side of this line.

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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.

76L-298 CE 307 11-58

76L298 307 8-53

PLEASE RETURN TO
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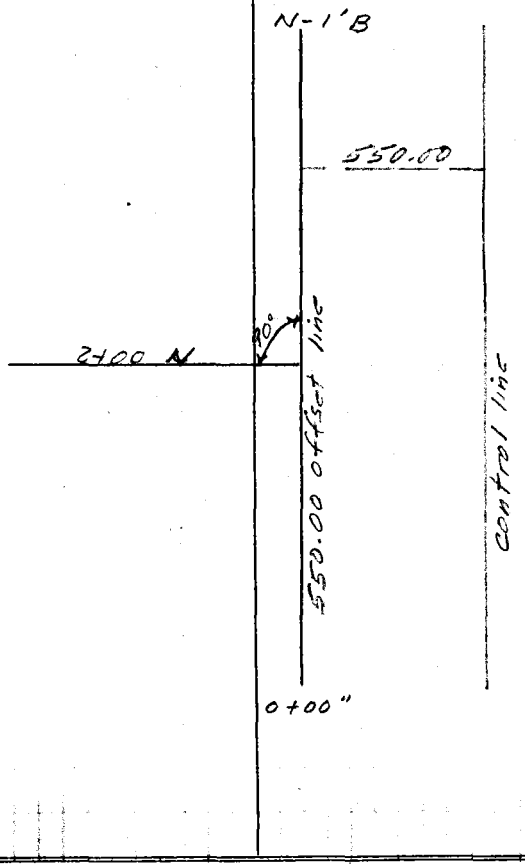
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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. Sight At On	#	Color	Time	Hor. Ang.	Remarks
	1		9 34	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
2400 N	14			" "	
N-1'B	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20		9 37	" "	



Profile Notes Red CWH Plotted CWH Job No. 0300.02 Division No. 10 F. B. 2802 Pg. 69
No. Date 9-23-58 Date 10-2-58 Survey of Beach Erosion Study
X-Sec. Notes Checked JSH Checked JSH Survey by Wheeler Notes Luden Date 6-12-58
No. Date 9-23-58 Date 6-5-58 Map No. Indexed C. Jordan Date

F.B. 2802 PG. 70 | Job No. 0300.00 | Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion Study | Date | Date | No.

Survey by Wharriet | Notes Lidch | Notes Chkd. | Checked | X-Sec.

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

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
2+00 N					
N-1' B					

Inst. Sight At On # Color Time Hor. Ang.

Do not extend notes this side of this line.

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 8-53

76298 S & E #307—7-55

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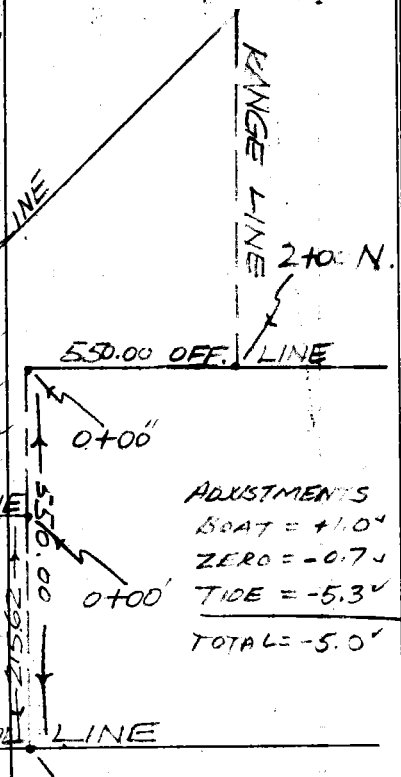
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks ADD OFFSET
12+50 S.	0+00'	1	31.0	26.0	9 34	51°25'	1817	2033
		2	30.2	25.2		49°15'	1683	1899
		3	29.5	24.5		46°31'	1528	1744
		4	28.6	23.6		43°17'	1366	1582
		5	28.0	23.0		40°23'	1234	1450
		6	27.2	22.2		37°31'	1114	1330
		7	26.2	21.2		34°0[illegible]	1011	1227
		8	25.6	20.6		32°35'	927	1143
		9	24.8	19.8		31°21'	883	1099
		10	23.2	18.2		29°30'	821	1037
		11	22.1	17.1		27°57'	770	986
		12	21.9	16.9		26°45'	731	947
		13	19.2	14.2		25°24'	689	905
		14	17.6	12.6		24°22'	657	873
		15	16.3	11.3		23°19'	625	841
		16	13.8	8.8		22°17'	595	811
		17	11.8	6.8		21°26'	570	786
		18	10.3	5.3		20°27'	541	757
		19	8.8	3.8		19°25'	510	726
		20	8.1	3.1	9 37	19°10'	505	721



ADJUSTMENTS
BOAT = +1.0
ZERO = -0.7
TIDE = -5.3
TOTAL = -5.0

Profile
Notes Red. CWH Plotted CWH Job No. 63300 Division No. 10
Date 1-29-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
No. X-Sec. Notes Chkd. Checked Survey by Notes Typed Date
Date 9-28-59 Date 10-5-59 Map No. Indexed Date
F. B. 2802 Pg. 71

F. B. 2802 Pg. 72 Job No. 03002 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of RANCHO EROSION STUDIES Date _____ Date _____ No. _____

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

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

STATION	S. S.	H. I.	F. S.	ELEV.	Remarks
12+50 S.	Inst. Sight At #	Depth Rec. Adj.	Time Hor. Ang.		Adjustments Boat = +1.0 ✓ Zero = -0.7 ✓ Tide = -5.3 ✓ Total = -5.0 ✓
0+00	On				

76298 S & E #307—7-55

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76L-298 CE 307 11-58

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 6+00	Sight on 4+00
		17 14			DATUM MEAN LOWER LOW WATER	INSHORE 4+00 N.
			50	12 4	400' OFFSET LINE	ADD OFFSET
			48	12 4	100' R	300 L
			14	15 5	200 R	200 L
			50	12 2	100 L T. POL	500 L
T.P. FOR SWITCH ONLY	10	11 2	70	10 2	129 L	529 L
			65	47	40 59	174' 574
			100	1 2	47 45	220 620
			136	-2 4	54 55	285 685
			147	-3 5	59 55	345 745
			163	-5 1	61 56	375 775
			177	-6 5	63 49	407 807

Profile No. X-Sec. No. ____
Notes Red CWH Plotted CWH Job No. 6300.02 Division No. 16
Date 8-11-59 Date 11-2-59 Survey of Beach Erosion Study
Notes Chkd KH Checked KH Survey by CWH Notes CWH Date 8-14-59
Date 8-11-59 Date 10-5-59 Map No. ____ Index C. J. Date
F. B. 2502 PG. 73

F.B. 2802 PG. 74 | Job No. 0300.02 | Division No. 10 | Notes Red | Plotted | Profile

Survey of BEACH EROSION STUDIES | Date | Date | No.

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

Indexed | Date | Date | Date | No.

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

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76L-298 CE 307 11-58

76L298 307 8-53

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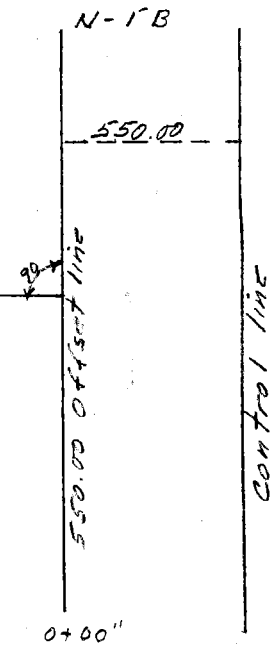
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
	1		9.46	90 00		
	2			" "		
	3			" "		
	4			" "		
	5			" "		
	6			" "		
	7			" "		
	8			" "		4+00 N
	9			" "		
	10			" "		
	11			" "		
	12			" "		
	13			" "		
	14			" "		
4+00 N	15			" "		
N-1'B	16			" "		
	17			" "		
	18			" "		
	19			" "		
	20			" "		



Profile No. ____ Date ____
X-Sec. No. ____ Date ____
Notes Rod. CWH Plotted CWH Job No. 0100-02 Division No. 10
Notes Chkd. JSH Checked JSH Date 10-2-59 Survey of Brash Erosion Study
Date 10-5-59 Map No. ____ Indexed C. Tabor Date 8-19-59
Survey by Alternate Notes Lidon Date 8-19-59

F. B. 2802 Pg. 75

F.B. 2802 PG. 76 | Job No. 0300.00 Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Study | Date 9-24-59 | Date 10-2-59 | No.

Survey by Uharriet | Notes Liden | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
4+00 N					Inst. Sight At OH
N-1'B					
	#	Color	Time	Hor. Ang.	
	21		9 49	90 00	

Do not extend notes this side of this line.

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761.298 307 8-53

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. Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.		ADD OFFSET	Remarks
8+00 S.	0+00	1	29.3	24.3	946	53° 17'	1609	1825	RANGE LINE 4+00 N.
		2	28.8	23.8		51° 22'	1501	1717	
		3	28.2	23.2		48° 45'	1368	1584	
		4	27.9	22.9		46° 30'	1265	1481	
		5	27.3	22.3		44° 30'	1180	1396	
		6	27.0	22.0		43° 43'	1147	1363	
		7	26.3	21.3		41° 40'	1068	1284	5.50.00 OFF. LINE
		8	25.7	20.7		38° 38'	959	1175	CUT-IN LINE
		9	25.3	20.3		37° 17'	913 (8+00 S.)	1129	
		10	24.4	19.4		35° 55'	869	1085	0+00
		11	23.1	18.1		34° 29'	824	1040	
								215.62	OFF. LINE
		12	21.5	16.5		32° 59'	779	995	
		13	20.0	15.0		31° 32'	737	953	
		14	18.4	13.4		30° 07'	696	912	0+00
		15	16.7	11.7		29° 20'	674	890	
		16	14.9	9.9		27° 48'	632	848	
							CONTROL LINE		
		17	12.8	7.8		26° 27'	596	812	
		18	11.3	6.3		25° 48'	580	796	
		19	10.0	5.0		24° 02'	535	751	0+00
		20	8.7	3.7		23° 46'	528	744	

ADJUSTMENTS
BOAT = +1.0
ZERO = -0.
TIDE = -5.3
TOTAL = -5.0

215.62

Profile No. ____ Notes Red. CWH Plotted CWH Job No. [illegible] Division No. 10 F. B. 2802 Pg. 77
Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes [illegible] Date
Date 9-29-59 Date 10-5-59 Map No. ____ Indexed C. [illegible]

F. B. 2802 Pg. 78 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of BEACH EROSION STUDIES | Date 9-29-59 | Date 10-2-59 | No.

Survey by HARRIET | Notes STRADER | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed J. C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight At On	# Rec. Depth Adj.	Time Hor. Ang.	ADD. OFFSET	Remarks
8+00 S.									
0+00'						217.4	2.4 9 68	22° 20' 463 ✓	709 ✓

Adjustments
Boat = +1.0 ✓
Zero = -0.7 ✓
Tide = -5.3 ✓
TOTAL = -5.0 ✓

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70298 S & E #307—7-55

Notes Ck'd by		Survey of	
Map No.		IN	Tape Std °F
Office Work	CWH	Surveyed by	
Checked	JSH	Notes	Date
Date	9-2-59	Indexed	

F. B. _____ PG. _____

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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765098 CE #247—7-59

F. B. 2802 PG. 79 A

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Notes Ck'd by CWH	Survey of Beach Erosion Study	F. B. 2802 Pg. 79
Map No.	IN 0300.02 Tape Stl °F	
Office Work	Surveyed by UHarriet	
Checked	Notes E/C Date 8-20-59	
Date 9-2-59	Indexed 8-28-59	

8-20-59

2.8 ~~3.0~~ on Datum Line of Tide Gauge SANTA MONICA

Gauge Time (P.S.T) — 11:25

WATCH Time (P.S.T) — 11:26

Standard time	Gauge Reading
5:00 A.M.	~~+0.7~~ +0.5
5:30	~~+1.1~~ +0.9
6:00	~~+1.7~~ +1.5
6:30	~~+1.9~~ +1.7
7:00	~~+2.7~~ +2.5
7:30	~~+3.5~~ +3.3
8:00	~~+4.0~~ +3.8
8:30	~~+4.8~~ +4.6
9:00	~~+5.0~~ +4.8
9:30	~~+5.3~~ +5.1
10:00	~~+5.4~~ +5.2
10:30	~~+5.4~~ +5.2
11:00	~~+5.4~~ +5.2
11:30	~~+5.1~~ +4.9

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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700 LOS ANGELES COUNTY ENGINEERING BLDG.

763095 CE #247—7-59

F. B. 2802 PG. 80

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76L-298 CE 307 11-58

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	Inst. at 8+00	Sight on 6+00
		17 13			DATUM MEAN LOWER LOW WATER	INSHORE 6+00 N.
T.P.	378	16 82	411	13 63		
T.B.M.	442	16 77	451	12 35	6+01.03 FD LGTAB ON 550 OFFSET LINE	
6+00 N			44	12 4	ON TYPE OF GRAIN 550' OFFSET LINE	ADD OFFSET
			41	12 7		100' R. 450L
			32	13 2		200' R. 350L
T.P. FOR SWING PARTY	13	13 7	44	12 4	CROSSED USE BLUE GROIN ON BACK FOR TP STA 6+00 N.	
			13	12 4	13° 57' 50 Top	rock groin 600
			36	10 1	24 00 89 "	" " 639
			56	8 1	32 40 128 "	" " 678
			65	7 2	39 38 166 "	" " 716

Profile Notes Red CWH Plotted CWH Job No. 6300 Division No. 16
No. Date 9-24-57 Date 10-2-57 Survey of Beach Erosion Study
X-Sec. Notes Chkd. JSH Checked JSH Survey by [illegible] Notes Date 8-19-57
No. Date 8-28-58 Date 10-3-57 Map No. Notes Chkd. C. Johnson

F.B. 28802 Pg. 81

F.B. 2802 Pg. 82

Job No. 700.02 Division No. 10 Notes Red _____ Plotted _____ Profile

Survey of BEACH EROSION STUDIES Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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

76L-298 CE 307 11-58

76L298 307 8-53

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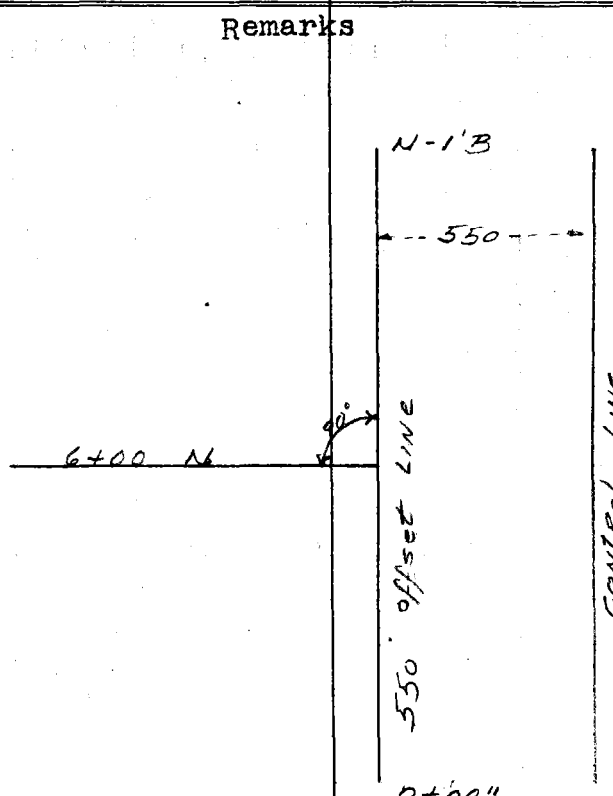
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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. Sight At On	#	Color	Time	Hor. Ang.	Remarks
	1		5:43	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



Profile No. ____ Notes Red. CMH Plotted CMH Job No. 03000 Division No. 10 F. B. 2802 Pg. 83
Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Study
X-Sec. No. ____ Notes Chkd. JSC Checked ____ Survey by Unknown Notes Lieu Date 5-20-59
Date 9-29-59 Date 10-5-59 Map No. ____ Index C. J. [illegible] Date ____

F.B. 2802 PG. 84 | Job No. 030002 Division No. 10 Notes Red. CWH Plotted CWH Profile

Survey of Bench Erosion Study Date 9-24-59 Date 10-2-59 No.

Survey by ~~R. C. Johnson~~ Notes E Hdr Notes Chkd. JSH Checked JSH X-Sec.

Indexed Date Date 9-29-59 Date 10-5-59 No.

6+00 N

N-1'B

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OR	#	Color	Time	Hor. Ang.	
	21			90° 00	
	22				
	23				
	24		5:46		

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

76L296 307 8-53

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76298 S & E #307—7-55

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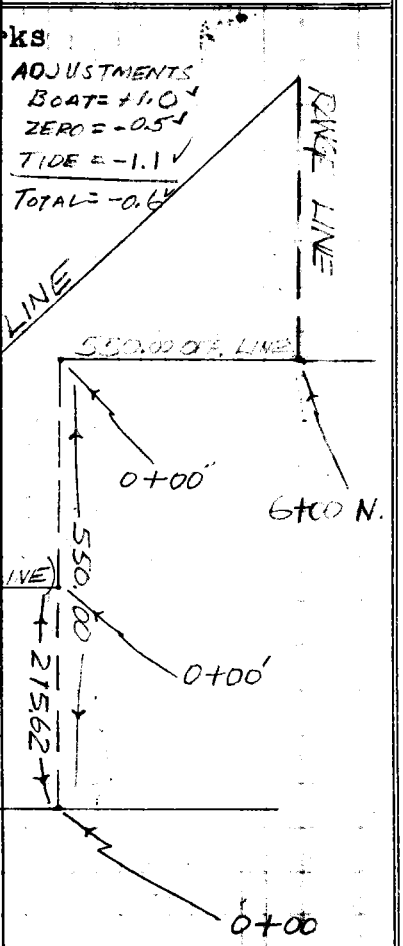
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	#	B. S. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		ADD OFFSET	Remarks
4+00 S.	0+00'	1	26.2	25.6	S 42	62° 33'	1925	2141	ADJUSTMENTS BOAT = +1.0 ZERO = -0.5 TIDE = -1.1 TOTAL = -0.6
		2	26.4	25.8		61° 37'	1851	2067	
		3	25.8	25.2		60° 24'	1760	1976	
		4	25.5	24.9		59° 04'	1669	1885	
		5	25.1	24.5		57° 51'	1591	1807	
		6	24.4	23.8		56° 26'	1507	1723	
		7	24.2	23.6		55° 12'	1439	1655	
		8	24.0	23.4		53° 43'	1362 (4+00 S.)	1578	CUT-IN LINE
		9	23.2	22.6		52° 29'	1302	1518	
		10	22.9	22.3		50° 40'	1220	1436	
		11	22.8	22.2		49° 07'	1155	1371	
		12	22.3	21.7		47° 44'	1100	1316 (25.62 OFF. LINE)	
		13	21.5	20.9		46° 19'	1047	1263	
		14	21.5	20.9		44° 52'	995	1211	
		15	20.5	19.9		42° 30'	916	1132	
		16	19.9	19.3		41° 21'	880	1096	
		17	19.2	18.6		40° 22'	850	1066	CONTROL LINE
		18	18.3	17.7		39° 24'	821	1037	
		19	17.0	16.4		38° 29'	795	1011	
		20	16.0	15.4		37° 51'	777	993	



Profile No. ____ Notes Red. CWH Plotted CWH Job No. 3002 Division No. 10 F. B. 2 Page 85
Date 8-24-59 Date 10-2-59 Survey of BEACH ESTATES TUBES
X-Sec. No. ____ Notes Chkd. ____ Checked JCH Survey by ____ Notes ____ Date ____
Date 9-29-59 Date 10-5-59 Map No. ____ Index C. Jones

76298 S & E #307—7-55

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Do not extend notes this side of this line.

F. B. 2802 Pg. 86 Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No. Profile
Survey by HARRIET Notes STRADER Notes Chkd. JSH Checked JSH No. X-Sec.
Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

STATION Inst. At	Sight On	S. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.		ADD OFFSET	Remarks
4+00 S.	0+00	21	14.5	13.9		30 32	741	957	Adjustments
		22	13.1	12.5		35 38	717	933	Boat = +1.0
		23	11.5	10.9		34 20	683	899	Zero = -0.5
		24	10.3	9.7	2:46	33 21	662	878	Tide = -1.1
									Total = -0.6

76L-298 CE 307 11-58

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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 6+00	Sight on 8+00	
		16 77			DATUM MEAN LOWER LOW WATER	INSHORE 8+00 N.	
			39	129	550 OFFSET LINE		ADD OFFSET
			47	121		100 R	450 L
			47	121			400 L
			11	157		150 R	300 L
			34	134		200 R	350 L
			43	125	33° L.		583 L
					39° L.		589 L
T.B. Fox Swim Party only	11	10 9	70	95	69° L.		619 L
			62	47	26° 50'	101	651
			103	0 6	33 45	134	684
			123	-1 4	40 55	173	723
			156	-4 7	48 38	227	777
			176	-6 7	51 41	253	803

Profile No. 1 Notes Red. CWH Plotted CWH Job No. 030002 Division No. 16 F.B. 2802 Pg. 87
X-Sec. Date 9-24-59 Date 10-2-59 Survey of BEACH ELEVATIONS STUDIES
Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible] Date [illegible]
Date 9-29-59 Date 10-5-59 Map No. [illegible]

F.B. 2802 PG. 88

Job No. 0300.02 Division No. 10 Notes Red CWH Plotted CWH Profile

Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No.

Survey by LRD Notes LRD Notes Chkd. JSH Checked JSH X-Sec.

Indexed [redacted] Date Date 9-24-59 Date 10-5-59 No.

STATION	B.S.	H.I.	F.S.	ELEV.	
BM 27-4					
	1220				
		28 87			
			0 11		
				16 87	
			1 02	27 25	
					BM 27 - 1 FCB 27 253 PEL EU 2150-167

PLEASE RETURN TO
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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L-298 CE 307 11-58

76L298 307 8-53

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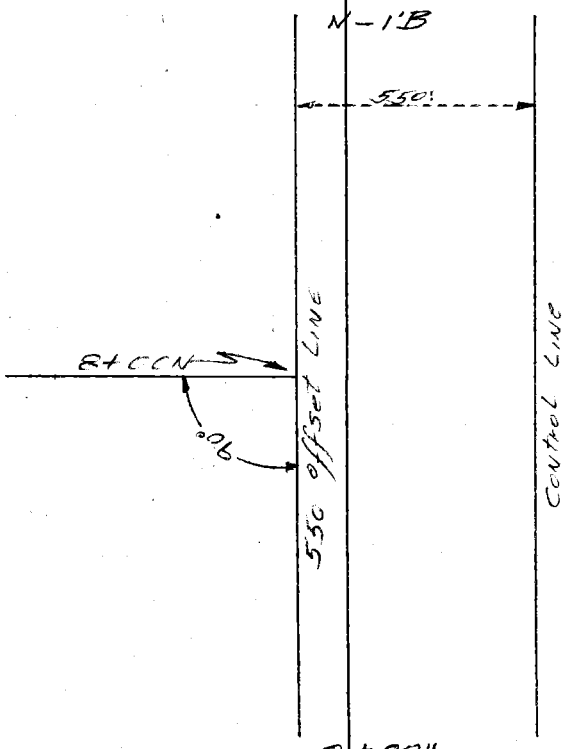
Do not extend notes this side of this line.

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



Profile No. ____ Notes Red CWH Plotted CWH Job No. 03000 Division No. 10 F. B. 2802 Pg. 89
X-Sec. No. ____ Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Study
Notes Chkd. JSH Checked JSH Survey by [illegible] Notes ____ Date ____
Date 9-29-59 Date 10-5-59 Map No. ____ Indexed C. Johnson

F.B. 2802 Pg. 90 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Study | Date 9-24-59 | Date 10-2-59 | No. | X-Sec.

Survey by V. H. Arnict | Notes Ellen | Notes Chkd. JSH | Checked JSH

Indexed | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OR	#	Color	Time	Hor. Ang.	
8+00 N					
N-1'B					
	21			90° 00	
	22			"	
	23		6:03	"	

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76298 S & E #307—7-55

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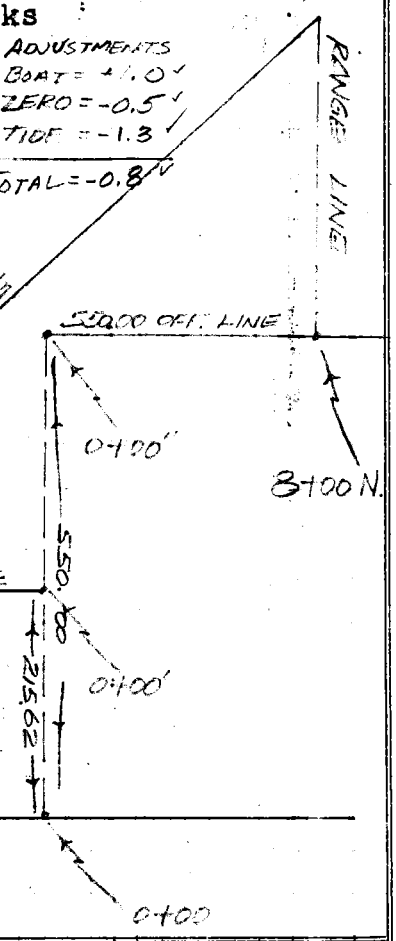
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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. Rec.	Depth Adj.	F. S. Time	ELEV. Hor. Ang.		ADD OFFSET	Remarks
4+00 S.	0+00'	1	26.5	25.7	5 59	56° 20'	1801	2017	ADJUSTMENTS BOAT = +1.0 ZERO = -0.5 TIDE = -1.3 TOTAL = -0.8
		2	25.7	24.9		55° 07'	1721	1937	
		3	25.3	24.5		53° 32'	1624	1840	
		4	24.8	24.0		52° 18'	1548	1764	
		5	24.1	23.3		50° 35'	1460	1676	
		6	24.1	23.3		49° 20'	1397	1613	
		7	23.6	22.8		47° 56'	1330	1546	
		8	23.2	22.4		46° 36'	1270	1486	
		9	22.8	22.0		45° 15'	1211	1427	
		10	22.1	21.3		43° 44'	1148 (4+00 S.)	1364	
		11	22.3	21.5		42° 34'	1102	1318	
		12	21.8	21.0		41° 10'	1049	1265 215.62 OFF. LINE	
		13	21.6	20.8		39° 18'	982	1198	
		14	21.3	20.5		37° 38'	925	1141	
		15	20.0	19.2		36° 23'	889	1105	
		16	19.4	18.6		35° 34'	853	1069	
		17	17.8	17.0		34° 44'	822	1038 CONTROL LINE	
		18	16.9	16.1		33° 32'	796	1012	
		19	15.8	14.5		32° 35'	767	983	
		20	14.1	13.3		31° 48'	744	960	



Profile Notes Red. Plotted Division No. 10 F. B. 1802 Pg. 91
No. Date 9-24-59 Date 10-2-59 Job No. Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by Notes Date
No. Date 9-28-59 Date 10-5-59 Map No. Inst. C. Johnson Date

76298 S & E #307—7-55

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F. B. 2802 Pg. 92 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH
Survey of BEACH EROSION STUDIES | Date 9-29-59 | Date 10-2-59 | No. | Profile
Survey by DERRIET | Notes | Notes Chkd. JSH | Checked JSH | X-Sec.
Indexed E. C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION		B. S.	H. I.		F. S.	ELEV.			
Inst. At	Sight On	#	Rec.	Depth Adj.	Time	Hor. Ang.		ADD OFFSET	Remarks
		21	13.1	12.3		30°49'	716	932	Adjustments
		22	12.4	11.6		29°41'	685	901	Boat = +1.0
		23	11.8	11.0	6 03	28°40'	656	872	Zero = -0.5
400 S	0+00								Tide = -1.3
									Total = -0.8

76L-296 CE 307 11-58

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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 8+00	Sight on 10+00	
BM 27-4	0.00	27.25		27.25	B.M. 27-4 EL = 27.253	1 HSHORE 10+00 N.	
TP	1.86	18.04	11.05	16.20			
TP	6.31	18.63	5.69	12.32			
TP	4.89	17.83	5.68	13.00			ADD OFFSET
10+00 N.			51	12.81	550' OFFSET LINE		
			51	12.81		100° R.	450L
			42	13.71		110° R.	380L
			07	17.2		34° R.	206L
						R.	
			45	13.4	44° L. TO BAR		594L
TP [illegible]	2.5	10.4	100	7.9	78° L.		628L
[illegible]			57	4.7	26° 49'	101	651
			82	2.2	31 54	124	674
			105	-0.1	36 39	149	699
			114	-0.1	39 31	165	715
			130	-2.6	43 49	192	742
			148	-4.4	48 40	227	777
			175	-7.1	52 03	256	806

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red. CWH Plotted CWH Job No. [illegible] Division No. 6
X-Sec. No. ____ Date 9-24-57 Date 10-2-57 Survey of BEACH EROSION STUDIES
Notes Chkd. JSH Checked JSH Survey by [illegible]
Date 9-29-57 Date 10-5-57 Map No. ____ Index No. ____ Notes C. Johnson Date ____ Date ____

F.B. 2802 Pg. 37

F.B. 2802 PG. 94

Job No. 2300.02 Division No. 10 Notes Red _____ Plotted _____ Profile

Survey of BEACH EROSION STUDIES Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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76L-200 CE 307 11-58

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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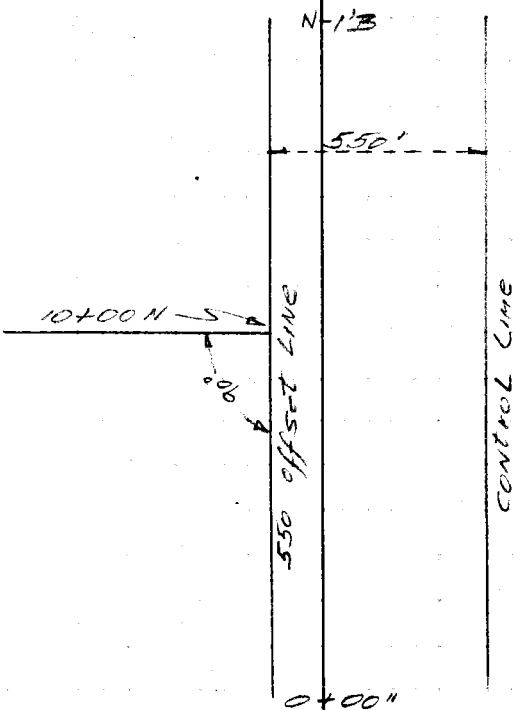
Do not extend notes this side of this line.

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



Profile Notes Red CMH Plotted CMH Job No. 03 Division No. 10 F. B. 2802 Pg. 95
No. Date 9-28-57 Date 10-2-57 Survey of Beach Erosion Study
X-Sec. Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes [illegible] Date [illegible]
No. Date 9-29-57 Date 10-5-57 Map No. [illegible] [redacted]

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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F. B. 2802 Pg. 76 Job No. 03090 Division No. 10 Notes Red. CWH Plotted CWH No.
Survey of BEACH EROSION STUDY Date 9-24-59 Date 10-2-59 X-Sec.
Survey by WHINNET Notes Ellen Notes Chkd. JSH Checked JSH
Indexed J. C. Johnson Date Date 9-29-59 Date 10-5-59 No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks	
	21			90° 00		
	22			" "		
	23			" "		
	24			" "		
	25		6:24	" "		
	26		6:26	" "		
	27			" "		
	28			" "		
	29			" "		
10+00 N / N-1B	30			" "		
	31			" "		
	32		6:28	" "		

76298 S & E #307—7-55

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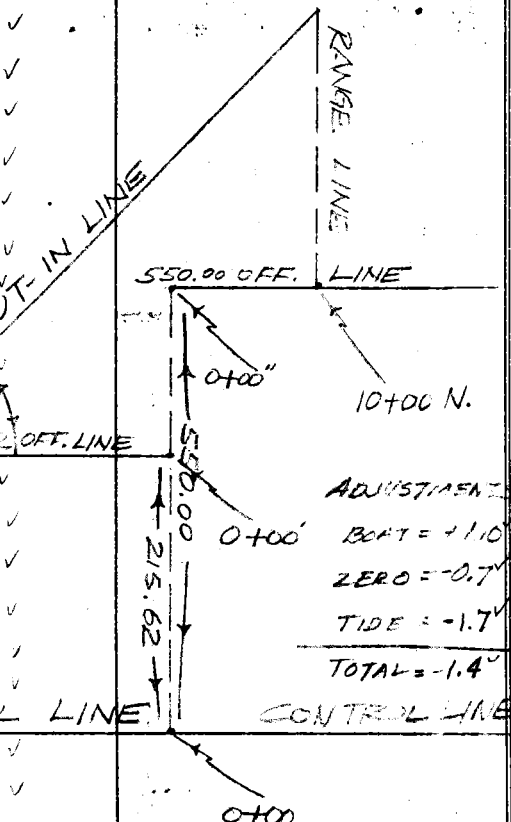
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Rec.	Depth Adj.	F. S. Time	ELEV. Hor. Ang.	ADD OFFSET	Remarks
2+00 S.	0+00'	1	28.1	26.7	6 20	59°28'	2034 W. 2250	
		2	27.2	25.8		57°42'	1898 V 2114 V	
		3	26.5	25.1		56°20'	1801 V 2017 V	
		4	26.5	25.1		54°52'	1705 V 1921 V	
		5	26.4	25.0		53°27'	1619 V 1835 V	
		6	25.3	23.9		51°39'	1517 V 1733 V	
		7	24.5	23.1		49°27'	1403 V 1619 V	
		8	23.7	22.3		47°25'	1306 V 1522 V	
		9	23.6	22.2		45°15'	1211 V 1427 V	
		10	23.1	21.7		43°30'	1139 V 1355 V	
		11	22.1	20.7		41°43'	1069 V 1285 V	
		12	22.3	20.9		40°00'	1007 V 1223 V	
		13	21.3	19.9		39°00'	972 V 1188 V	
		14	20.6	19.2		38°51'	942 V 1158 V	
		15	21.1	19.7		37°11'	911 V 1127 V	
		16	20.4	19.0		36°23'	887 V 1103 V	CONTROL LINE
		17	19.2	17.8		35°07'	844 V 1060 V	
		18	18.0	16.6		34°23'	821 V 1037 V	
		19	16.8	15.4		33°16'	787 V 1003 V	
		20	15.5	14.1		32°15'	757 V 973 V	

(2+00 S.)



ADJUSTMENT
BOAT = +1.0'
ZERO = -0.7'
TIDE = -1.7'
TOTAL = -1.4'

Profile No. ____ Notes Red. CWH Plotted CWH Job No. 03002 Division No. 10 F. B. ____ Pg. 97
Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by KAPPLER & ____ Notes ____ Date ____
Date 9-29-59 Date 10-5-59 Map No. ____ Index C. Jobe

76298 S & E #307—7-55

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F. B. 2802 Pg. 98 | Job No. 030002 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile No.
Survey of BEACH EROSION STUDIES | Date 9-24-59 | Date 10-2-59 | X-Sec. No.
Survey by WHARRIET | Notes STRADER | Notes Chkd. JSH | Checked JSH
Indexed [redacted] | Date | Date 9-29-59 | Date 10-5-59

STATION	B. S.	H. I.	F. S.	ELEV.			
Inst. At / Sight On	#	Rec. / Depth Adj.	Time	Hor. Ang.		ADD OFFSET	Remarks
	21	14.2 / 12.8		31° 00'	721	937	
	22	12.8 / 11.4		30° 00'	692	903	Adjustments
	23	11.7 / 10.3		29° 55'	692	908	Boat = +1.0
	24	10.5 / 9.1					Zero = -0.7
	25	9.1 / 7.7	6 24				Tide = -1.7
	26	17.1 / 15.7	6 26	33° 18'	788	1004	Total = -1.4
	27	15.1 / 13.7		31° 47'	744	960	
2+00 S. / 0+00	28	14.1 / 12.7		30° 52'	718	934	
	29	12.1 / 10.7		29° 12'	671	887	
	30	10.8 / 9.4		28° 39'	655	871	
	31	9.9 / 8.5		27° 21'	623	839	
	32	9.3 / 7.9	6 28	26° 25'	596	812	

76L-298 CE 307 11-58

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STATION	B.S.	H.I.	F.S.	ELEV.	Inst. at 8+00	Sight on 12+00
		11 57			DATUM MEAN ~~LOWER~~ LOW WATER	ASHORE 12 + 00 H.
TP	5 05	17 95	4 99	12 90		
12+00 K			4 4	13 6	550' OFFSET	LINE
					ADD OFFSET	
			4 3	13 4	601L	
TP	1 2	9 2	9 9	8 3	634L	
			4 5	4 7	14° 38'	104 654 ADD OFFSET
			7 8	1 4	18 25	133 683
			10 0	-0 8	23 00	170 720
			11 8	-2 6	26 18	198 748
			12 9	-3 7	28 02	213 763
			14 0	-4 8	30 31	236 786
			17 6	-8 4	34 15	272 822

Profile No. ____ Notes Red CMH Plotted CMH Job No. ____ Division No. ____
X-Sec. No. ____ Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
Notes Chkd. ____ Date 9-29-59 Checked ____ Date 10-5-59 Survey by ____ Map No. ____ Index ____ Notes ____ Date ____

F.B. 2502 Page 9

F.B. 2802 Pg. 100 Job No. 5300-2 Division No. 10 Notes Red _____ Plotted _____ Profile

Survey of BEACH EROSION STUDIES Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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76L-206 CE 307 11-58

76L298 307 8-53

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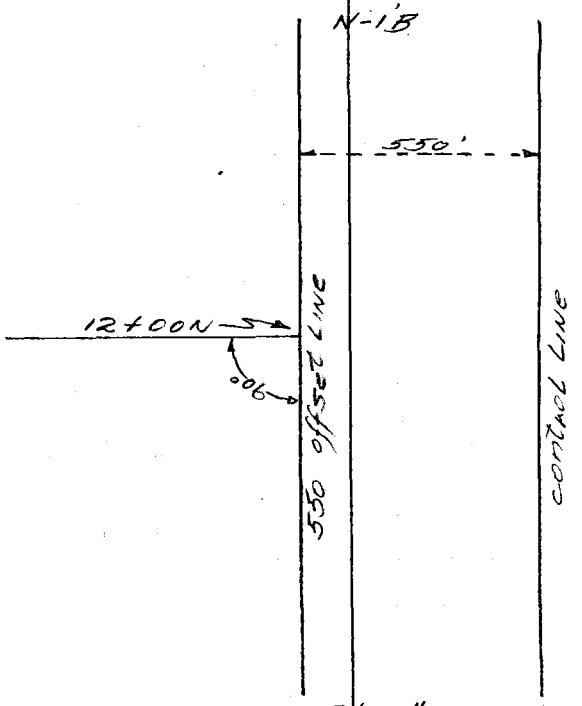
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At Ch	#	Color	Time	Hor. Ang.	Remarks
	1		6:41	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
12+00N N-1B	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



Profile No. ____ Notes Red CWH Plotted CWH Job No. 030002 Division No. 10 F. B. 2802 Pg. 101
X-Sec. No. ____ Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION SEED
Notes Chkd. ____ Checked ____ Survey by HARNIET Notes Ellen Date 10-20-59
Date 9-29-59 Date 10-5-59 Map No. ____ Index [redacted]

F.B. 2802 Pg. 102 Job No. 230002 Division No. 10 Notes Red. CWH Plotted CWH Profile

Survey of Beach Erosion Study Date 9-24-59 Date 10-2-59 No.

Survey by Uhanwet Notes Eller Notes Chkd. JSH Checked JSH X-Sec.

Indexed A. C. Johnson Date Date 9-29-59 Date 10-5-59 No.

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
12+00N					
N-1'B					

Inst. Sight On

At

#	Color	Time	Hor. Ang.
21			90° 00'
22		6:44	

Do not extend notes this side of this line.

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 8-53

76298 S & E #307—7-55

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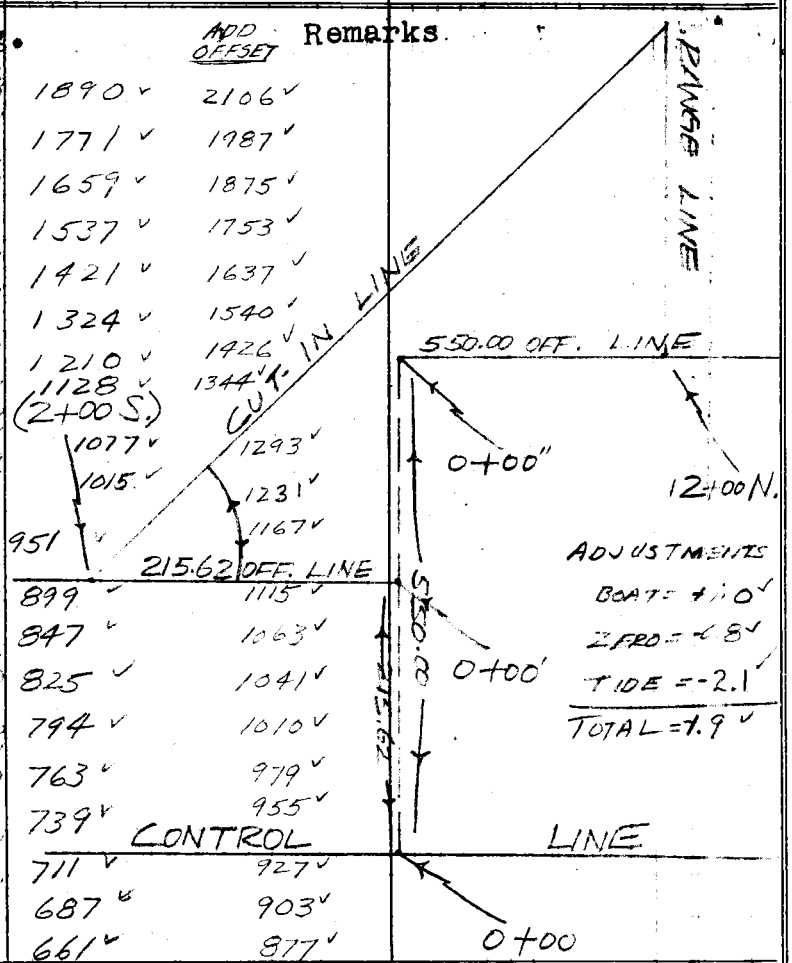
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.		ADD OFFSET	Remarks
2+00 S	0+00	1	27.2	25.3	6 40	53° 25	1890	2106	
		2	26.8	24.9		51° 40	1771	1987	
		3	26.3	24.4		49° 50	1659	1875	
		4	25.5	23.6		47° 41	1537	1753	
		5	24.5	22.6		45° 26	1421	1637	
		6	23.9	22.0		43° 24	1324	1540	
		7	23.3	21.4		40° 50	1210	1426	
		8	23.1	21.2		38° 52	1128 (2+00 S.)	1344	
		9	22.6	20.7		37° 33	1077	1293	
		10	21.7	19.8		35° 51	1015	1231	
		11	21.7	19.8		34° 10	951	1167	
		12	20.8	18.9		32° 43	899	1115	
		13	19.9	18.0		31° 11	847	1063	
		14	19.3	17.4		30° 30	825	1041	
		15	18.0	16.1		29° 33	794	1010	
		16	16.3	14.4		28° 36	763	979	
		17	15.3	13.4		27° 41	739	955	
		18	13.9	12.0		26° 56	711	927	
		19	13.1	11.2		26° 10	687	903	
		20	12.7	10.8		25° 17	661	877	



Profile No. ____ Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. ____
Date ____ Date ____ Survey of ____ Date ____
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by ____ Notes ____
Date ____ Date ____ Map No. ____ Index ____ C. John ____

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.

F. B. 2802 Pg. 104 Job No. 0300.98 Division No. 10 Notes Red. CWH Plotted CWH Profile No.
Survey of BEACH EROSION STUDIES Date 9-4-59 Date 10-2-59 X-Sec. No.
Survey by WHARRIET Notes Chkd. JSH Checked JSH
Indexed C. Johnson Notes STRADER Date 9-29-59 Date 10-5-59

STATION		B. S.	H. I.		F. S.	ELEV.			
Inst. At	Sight On	#	Rec.	Depth Adj.	Time	Hor. Ang.		ADD OFFSET	Remarks
		21	11.1	9.2		21 13	629	845	Adjustments
		22	9.9	8.0	6 44	22 44	616	832	Boat = +1.0
									zero = -0.8
									Tide = -2.1
2+00 S.	0+00'								Total = -1.9

76L-298 CE 307 11-58

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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 12+00	Sight on 16+00
		17 99			DATUM MEAN LOWER LOW WATER	ASHORE 16+00 H.
	5 72	21 82	1 86	13 09		
16+00 H.			90	12 5	550'	OFFSET LINE
			73	[illegible]		100' E. 45 L
			[illegible]	[illegible]		350 L
			[illegible]	[illegible]		200' E. 250 L
			[illegible]	[illegible]		85 L
			[illegible]	[illegible]		415' E. [illegible]
			86	[illegible]	50 E. TO BAR	600 L
TP. Kenowin Company	1 2	9 5	125	[illegible]	[illegible]	635 L
			4 8	4 7	15° 15'	109 659
			9 3	0 2	20 27	149 679
			107	-1 2	23 05	170 720
			125	-3 0	27 33	209 [illegible]
			140	-4 5	30 22	234 724
			165	-7 0	33 44	267 817
			185	-9 0	35 47	288 838

Profile Notes Red CMH Plotted CMH Job No. Division No.
No. X-Sec. Date 9-24-59 Date 10-2-59 Survey of BEACH ERosion STUDIES
Notes Chkd. Checked Survey by
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. Johnson Date Notes Date

F. B. 2802 PG. 105

F.B. 2802 Pg. 106 Job No. 0500 22 Division No. 10 Notes Red _____ Plotted _____ Profile

Survey of BEACH EROSION STUDIES Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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76L-298 CE 307 11-58

76L298 307 8-53

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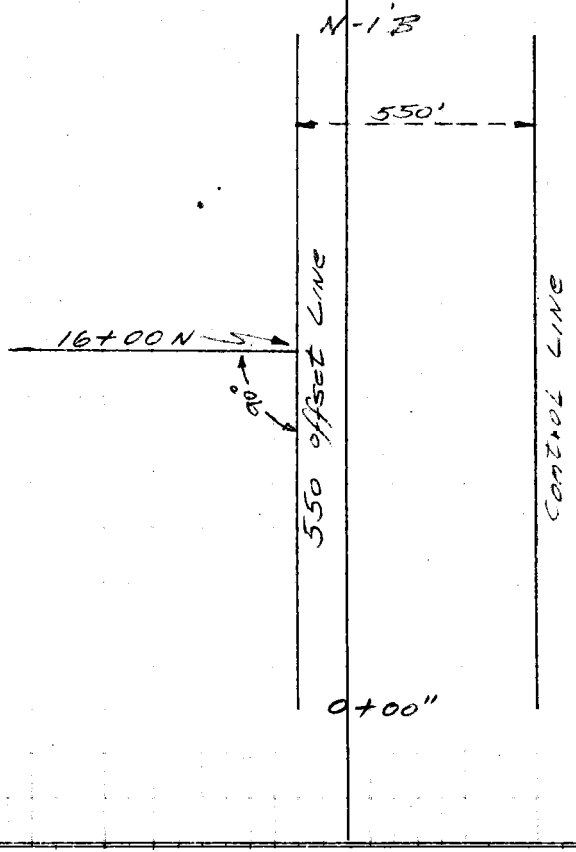
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At CN	#	Color	Time	Hor. Ang.	Remarks
	1		6:56	90°00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



16+00N
N-1'B

Profile No. ____ Notes Red. CWH Plotted CWH Job No. 03002 Division No. 10 F. B. 2802 Pg. 107
Date 9-14-59 Date 10-2-59 Survey of Beach Erosion Study
X-Sec. No. ____ Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes [illegible] Date 8-20-59
Date 9-28-59 Date 10-5-59 Map No. ____ Mapped [illegible] Date ____

F. B. 2802 Pg. 108 | Job No. 030002 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Study | Date 9-24-59 | Date 10-2-59 | No.

Survey by Channel | Notes Ellen | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At	#	Color	Time	Hor. Ang.	
16+00 N					
N-1B					
	21			90°00	
	22			"	
	23			"	
	24			"	
	25			"	
	26			"	
	27			"	
	28		7:00	"	

76L298 307 8-53

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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. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
6+00 N.	N-1'B	1	27.8	25.6	6 55	59°05	1670 / 2220	
		2	27.1	24.9		57°47	1587 / 2137	
		3	26.6	24.4		55°41	1521 / 2071	
		4	26.3	24.1		54°42	1412 / 1962	
		5	25.8	23.6		52°18	1338 / 1888	
		6	25.2	23.0		51°40	(0+00") 1265 / 1815	
		7	24.8	22.6		49°32	1173 / 1723	
		8	24.1	21.9		47°11	1079 / 1629	
		9	23.7	21.5		44°27	981 / 1531	
		10	23.5	21.3		42°20	914 / 1464	
		11	23.2	21.0		40°15	847 / 1397	
		12	22.9	20.7		38°27	795 / 1345 (6+00 N)	
		13	22.2	20.0		36°22	737 / 1287	
		14	22.1	19.9		34°02	701 / 1251	
		15	21.6	19.4		32°27	661 / 1211	
		16	20.9	18.7		32°00	625 / 1175	
		17	20.8	18.6		30°15	583 / 1133	
		18	20.2	18.0		29°00	554 / 1104	
		19	20.3	18.1		28°08	(0+00) 535 / 1085	
		20	19.2	17.0		26°19	495 / 1045	

ADD OFFSET

CUT-IN LINE

RANGE LINE

N-1'B

550.00 OFF LINE

550.00

CONTROL LINE

ADJUSTMENTS
BOAT = +1.0
ZERO = -0.8
TIDE = -2.4
TOTAL = -2.2

16+00 N.

Profile Notes Red. CWH Plotted CWH Job No. 03000 Division No. 10 F. B. 2802 Pg. 109
No. Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. JPH Checked JPH Survey by DAPPERT Notes R.L.S. Date 8-20-59
No. Date 9-29-59 Date 10-5-59 Map No. Inst. C. Jones

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. 2302 Pg. 110 Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH No. Profile
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No. X-Sec.
Survey by CLEVELAND Notes STAKER Notes Chkd. JSH Checked JSH
Indexed R. C. Johnson Date Date 2-29-59 Date 10-5-59 No.

STATION	B. S.	H. I.	F. S.	ELEV.			
Inst. At / Sight On	#	Rec. / Depth Adj.	Time	Hor. Ang.		ADD OFFSET	Remarks
6+00 N. / N-1'B	21	19.1 / 16.9		24° 54'	464	1014	Adjustments
	22	17.1 / 14.9		23° 45'	440	990	Boat = +1.0
	23	16.7 / 14.5		22° 00'	404	954	Zero = -0.8
	24	16.1 / 13.9		20° 40'	377	927	Tide = -2.4
	25	14.0 / 11.8		19° 54'	362	912	Total = -2.2
	26	13.8 / 11.6		19° 08'	347	897	
	27	12.1 / 9.9		17° 00'	306	856	
	28	9.8 / 7.6	7:00	16° 00'	287	837	

76L-298 CE 307 11-58

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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.	last at 16+00	Sight on 20+00	
		21 52			DATUM MEAN LOWER LOW WATER	INSHORE	
TP	7 0 1	20 18	5 0 5	12 17		20+00 R.	
							ADD OFFSET
24+00 R.			7 5	12 7	550' OFFSET LINE		
			4 6	15 6		100' R.	450 L
			4 0	16 2		200' R.	350 L
			3 3	16 9		300' R.	250 L
			3 9	16 3		422' R. Toe Slope	128 L
			5 2	14 0	67° L. T. Brk		617 L
TP	2 1	10 1	12 2	3 0	96° L.		641 L
For datum only			5 4	4 7	15° 40'	112	662
			9 4	0 7	20 32	150	700
			12 6	-2 5	26 50	202	752
			13 8	-3 7	29 05	222	772
			15 5	-5 4	31 26	244	794
			16 5	-6 4	32 46	258	803
			18 5	-8 4	34 42	277	827

Profile No. ____ Notes Red. CWH Date 9-24-57 Plotted CWH Date 10-2-57 Job No. C3001-2 Division No. 5
X-Sec. ____ Notes Chkd. ____ Date 9-29-57 Checked ____ Date 10-5-57 Survey of Beach Survey by Edison Notes Stopper Date 8-30-57
No. ____ Map No. ____ Indexed G. John

F.B. 2802 Pg. 111

F.B. 2802 Pg. 112

Job No. 0300.02 Division No. 10 Notes Red CWH Plotted CWH Profile

Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No.

Survey by LIND Notes LIND Notes Chkd. JSH Checked JSH X-Sec.

Indexed Date Date 9-29-59 Date 10-5-59 No.

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

Do not extend notes this side of this line.

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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.

76L-298 CE 307 11-58

76L298 307 8-53

PLEASE RETURN TO
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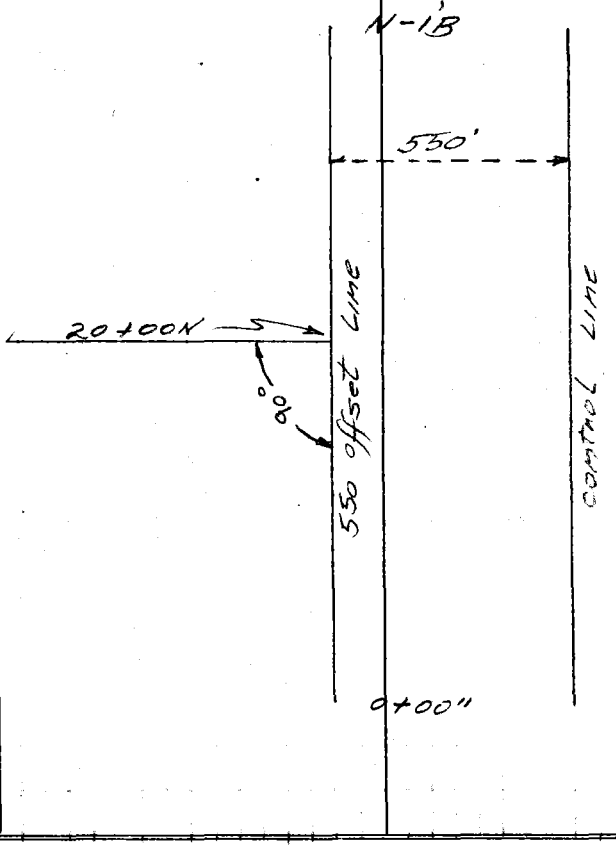
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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. Sight At On	#	Color	Time	Hor. Ang.	Remarks
	1		7:12	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
20+00 N	11			" "	
N-1B	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



Profile No. ____ Notes Red CWH Plotted CWH Job No. 030002 Division No. 10 F. B. 2802 Pg. 1/3
Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Study
X-Sec. No. ____ Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes Elev. Date 8-20-59
Date 9-29-59 Date 10-5-59 Map No. ____ Inst. [illegible] Date ____

F.B. 2802 Pg. 114 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Study | Date 9-24-59 | Date 10-2-59 | No.

Survey by UHARRIET | Notes Eller | Notes Chkd. JSH | Checked JSH | X-Sec.

Index ~~L. C. Johnson~~ | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION	B.S.	H.I.	F.S.	ELEV.	Inst. Sight At OR	Color	Time	Hor. Ang.	Remarks
20+00 N									
N-1'B									
	21							90°00	
	22							"	
	23							"	
	24						7:15	"	

Do not extend notes this side of this line.

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76L298 307 8-53

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 (ADD OFFSET)		
6+00 N.	N-1'B	1	26.9	24.3	7 11	48 16	1569	2119	
		2	26.3	23.7		45 21	1417	1967	
		3	25.3	22.7		42 20	1320	1870	
		4	25.1	22.5		40 51	1215	1765	
		5	24.1	21.5		37 33	1070 (0+00')	1620	CUT IN LINE
		6	24.0	21.4		35 24	995	1545	
		7	23.3	20.7		33 12	916	1465	
		8	22.8	20.2		30 21	820	1370	5+00.00 OFF. LINE
		9	22.5	19.9		28 31	756	1306	
		10	21.9	19.3		25 32	694	1244	ADJUSTMENTS
		11	21.2	18.6		22 05	657 (6+00 N)	1207	BOAT = +1.0
		12	20.9	18.3		20 [illegible]	605	1155	ZERO = -0.8
		13	20.6	18.0		17 16	573	1123	TIDE = -2.8
		14	20.6	18.0		[illegible]	542	1092	TOTAL = -2.6
		15	20.3	17.7		20 15	517	1067	
		16	19.5	16.9		17 16	490	1040	CONTROL LINE
		17	18.7	16.1		15 22	465	1015	
		18	17.5	14.9		11 21	430	980	
		19	17.2	14.6		16 08	405	955	
		20	16.4	13.8		15 07	(0+00) 378	928	

RANGE LINE

N-1B

5+00.00

20+00 N.

Profile No. ____ Date 9-24-59 Notes Red. CWH Plotted CWH Date 10-2-59 Job No. [illegible] Division No. [illegible]

X-Sec. No. ____ Date 9-29-59 Notes Chkd. [illegible] Checked [illegible] Date 10-5-59 Survey of PIRAT EROSION STUDIES Survey by [illegible] Map No. ____ Notes [illegible] Date 6-20-60 Inspd. [illegible]

F. B. ____ Pg. 115

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.

F. B. 2802 Pg. 116 | Job No. 2300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of BEACH & BOSON STUDIES | Date 9-29-59 | Date 10-2-59 | No. | X-Sec.

Survey by LEIBERT | Notes STRAIGHT | Notes Chkd. JSH | Checked JSH | No.

Indexed C. J. [illegible] | Date | Date 9-29-59 | Date 10-5-59

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.	ADD OFFSET	Remarks
Gt. Ow. / N. 1 B.	21	15.1 / 12.5		14° 02'	350 / 900	Adjustments
	22	13.1 / 10.5		13° 13'	329 / 879	Boat = +1.0
	23	12.5 / 9.9		12° 02'	298 / 848	Zero = -0.8
	24	10.5 / 7.9	7 15	1° 02'	273 / 823	Tide = -2.8
						Total = -2.6

76L-298 CE 307 11-58

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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 20+00	Sight on 24+00	
		20 18				INSHORE	
	772	20 75	715	1303		24+00 N.	
24+00 N.			35	123	550' OFFSET LINE		ASB OF 5867
			44	164		100 R.	450L
			40	168		200 R.	350L
			27	181		300 R	250L
			22	186		400 R	150L
			27	181		442 R. TOE [illegible]	108L
			81	12[illegible]	54 L. T.B.C. [illegible]		604
T.K. Edge SW-ro pavt. edge	17	99	126	83	96 L.		645
			52	47	17 14	124	674
			92	07	21 56	161	711
			122	-23	27 12	206	756
			138	-39	30 01	231	781
			165	-66	33 43	267	817
			180	-81	35 56	290	840

Profile No. ____ Notes Red CWH Plotted CWH Job No. [illegible] Division No. ____
X-Sec. ____ Date 9-24-59 Date 10-2-59 Survey of Stack Erosion Studies
Notes Chkd. JSH Checked JSH Survey by ____ Notes ____ Date ____
No. ____ Date 9-29-59 Date 10-5-59 Map No. ____ Index C. Johnson

F.B. 2802 Pg. 117

F.B. 2802 Pg. 118

Job No. 59202 Division No. 10 Notes Red CWH Plotted CWH Profile

Survey of BEACH EROSION STUDIES Date 9-29-59 Date 10-2-59 No.

Survey by LWO Notes LWO Notes Chkd. JSH Checked JSH X-Sec.

Indexed Date Date 9-29-59 Date 10-5-59 No.

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

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

76L-298 CE 307 11-58

76L298 307 8-53

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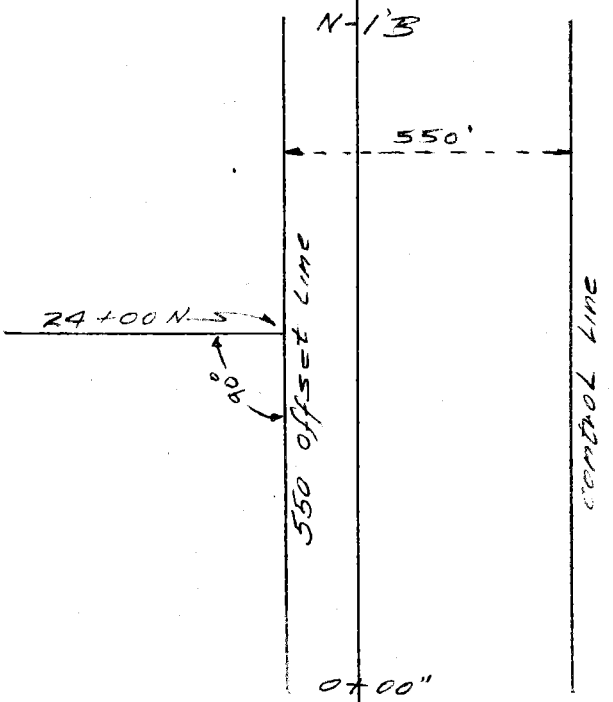
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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 / Sight On	#	Color	Time	Hor. Ang.	Remarks
	1		7:29	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



24+00 N
N-13

Profile No. ____ Notes Red. CHH Plotted CHH Job No. 0300-02 Division No. 16 F. B. 2802 Pg. 1/13
X-Sec. No. ____ Notes Chkd. JSH Date 9-24-59 Date 10-2-59 Checked JSH Date 10-5-59 Survey of Beach Erosion Study Survey by Engineering Map No. ____ Notes CHH Date 8-20-59 Indexed C. Johnson

F. B. 2802 Pg. 120 | Job No. 030202 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Study | Date 9-24-59 | Date 10-2-59 | No.

Survey by VHarriet | Notes Eller | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At	#	Color	Time	Hor. Ang.	
24+00 N					
N-1'B					
	21			90° 00'	
	22			"	
	23			"	
	24			"	
	25			"	
	26			"	
	27		7.33	"	

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

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

76L298 307 8-53

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. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks			
								ADD OFFSET		
		1	28.1	25.0	729	43° 00'	1679	2229		
		2	27.1	24.0		40° 33'	1541	2091		
		3	26.7	23.6		38° 30'	(0+00") 1431	1981		
		4	26.0	22.9		36° 30'	1332	1882		
		5	25.4	22.3		34° 28'	1235	1785 CUT IN LINE		
		6	24.8	21.7		32° 13'	1134	1684		
		7	24.6	21.5		30° 15'		550.00 OFF. LINE		
		8	24.0	20.9		28° 39'	1049	1599		
		9	23.9	20.8		27° 20'	983	1533	ADJUSTMENTS	
		10	23.9	20.8		25° 51'	931 (6+00 N.)	1481	BOAT = +1.0	
		11	23.1	20.0		24° 47'	877	1427	ZERO = -0.9	24+00 N.
		12	23.1	20.0		23° 30'	832	1382	TIDE = -3.2	
		13	22.9	19.8		22° 23'	783	1333	TOTAL = -3.1	
		14	22.4	19.3		21° 26'	742	1292		
		15	22.3	19.2		20° 32'	707	1257		
		16	21.7	18.6		19° 42'	675	1225		
		17	21.8	18.7		18° 49'	644 (CONTROL LINE)	1194		
		18	21.3	18.2		17° 58'	614	1164		
		19	20.9	17.8		16° 56'	583	1133		
		20	20.7	17.6		16° 02'	(0+00) 547	1097		
							517	1067		

550.00

LEVEE LINE

14+00 N.

Profile Notes Red. CWH Plotted CWH Job No. Division No.
No. Date 9-29-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. JSH Checked JSH Survey by CHARPIE Notes P.L.S. Date
No. Date 9-29-59 Date 10-5-59 Map No. Inst. C. Johnson

F. B. 1102 Pg. 121

76298 S & E #307—7-55

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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F. B. 2802 Pg. 122 Job No. 03000.02 Division No. 10 Notes Red. CWH Plotted CWH No.
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 X-Sec.
Survey by CHARRIET Notes STRADER Notes Chkd. JSH Checked JSH
Index C. Tabrego Date Date 9-29-59 Date 10-5-59 No.
Profile

STATION Inst. At	Sight On	B. S. #	H. I. Rec.	Depth Adj.	F. S. Time	ELEV. Hor. Ang.		ADD OFFSET	Remarks
6+00 N.	N-1'B	21	19.3	16.2		15° 15'	491	1041	Adjustments
		22	18.9	15.8		14° 12'	455	1005	Boat = +1.0
		23	17.9	14.8		13° 10'	421	971	Zero = -0.9
		24	16.2	13.1		12° 15'	391	941	Tide = -3.2
		25	16.0	12.9		11° 28'	365	915	Total = -3.1
		26	15.2	12.1		10° 41'	340	890	
		27	13.0	9.9	7 33	09° 46'	310	860	

76L-298 CE 307 11-58

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.	Inst. at 24+00	Sight on 28+00	
					DATUM MEAN LOWER LOW WATER	INSHORE 28+00 N.	
	3 16	20 75 / 21 19	7 71	13 04			
28+00 N.			70	13 0	550' OFFSET LINE		ADJ OFF. T
			47	16 6		100 R.	450 L
			37	17 5		200 R.	350 L
			36	17 4		300 R.	250 L
			43	17 9		410 R.	140 L
			40	17 2			115 L
			100	11 2	100'		650 L
			103	10 9	100' Tie Line		66 L
T.P. 5 Well Point Elev	1 0	9 5	10	9 5	100'		58 L
			4 8	4 7	21° 30'	158	703
			9 3	0 2	26 19	198	793
			11 8	-2 3	31 18	243	793
			14 5	-5 0	34 50	278	828
			16 0	-6 5	37 00	302	852
			17 8	-8 3	38 44	321	871

Profile Notes Red CWH Plotted CWH Job No. [illegible] Division No. 16
No. Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes [illegible] Date
No. Date 9-29-59 Date 10-5-59 Map No. Indexed [illegible]

F.B. 2802 Pg. 123

F.B. 2802 Pg. 124

Job No. 0300.02 Division No. 10 Notes Red CWH Plotted CWH Profile

Survey of BEACH BROADCAST STUDIES Date 9-29-59 Date 10-2-59 No.

Survey by LIND Notes LIND Notes Chkd. JSH Checked JSH X-Sec.

Indexed Date Date 9-29-59 Date 10-5-59 No.

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

Do not extend notes this side of this line.

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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.

76L-296 CE 307 11-58

76L298 307 8-53

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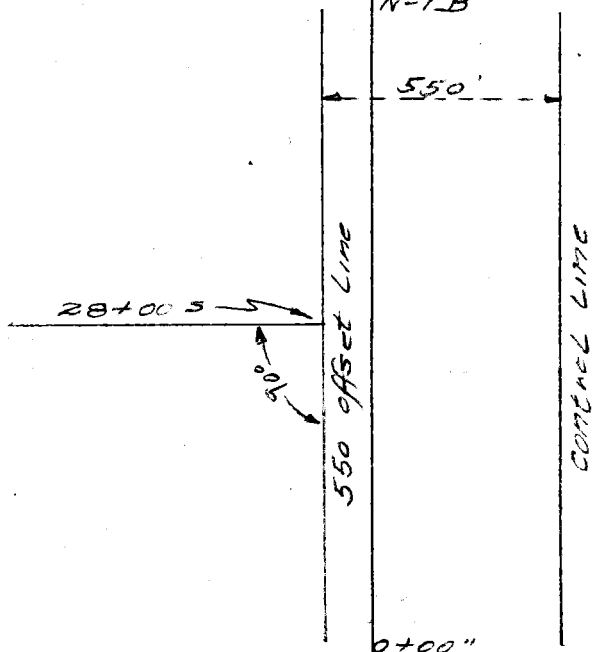
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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. Sight At On	#	Color	Time	Hor. Ang.	Remarks
	1		7:50	90° 00	
	2			" "	N-1'B
	3			" "	
	4			" "	550'
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	28+00 S
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	0+00"
	17			" "	
	18			" "	
	19			" "	
	20			" "	
28+82 N	N-1'B				



Profile No. ____ Notes Red. CWH Plotted CWH Job No. 13082 Division No. 10 F. B. 2802 Pg. 125
Date 9-24-59 Date 10-2-59 Survey of Berth Erosion Study
X-Sec. No. ____ Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible] Date 8 20 59
Date 9-29-59 Date 10-5-59 Map No. ____ Index [illegible]

F. Bk. 2802 Pg. 126 | Job No. 0300.02 Division No. | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Study | Date 9-24-59 | Date 10-2-59 | No.

Survey by UHamlet | Notes Eller | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

28+00.N

N-1'B

Inst. Sight At	#	Color	Time	Hor. Ang.	Remarks
	21			90° 00	
	22			"	
	23			"	
	24			"	
	25			"	
	26			"	
	27			"	
	28		7.53	"	

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

Do not extend notes this side of this line.

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

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

76L298 307 8-53

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.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.			Remarks
16+00 N.	N-1'B	1	29.9	26.3	749	54° 27'	1679	2229	ADD OFFSET
		2	29.4	25.8		52° 43'	1577	2127	
		3	28.3	24.7		51° 25'	1504	2054	
		4	27.9	24.3		49° 54'	(0+00) 1426	1976	16+00 N.
		5	27.2	23.6		48° 03'	1339	1889	CUT-IN LINE
		6	26.8	23.2		46° 10'	1250	1800	
		7	26.4	22.8		44° 35'	1183	1733	550.00 OFF. LINE
		8	26.3	22.7		42° 42'	1108	1658	
		9	25.9	22.3		41° 00'	1043	1593	
		10	25.2	21.6		39° 23'	955	1535	
		11	25.2	21.6		37° 15'	912	1462	CONTROL LINE
		12	24.9	21.3		36° 12'	878	1428	
		13	24.8	21.2		34° 45'	833	1383	
		14	24.2	20.6		33° 04'	761	1331	
		15	23.2	19.6		31° 40'	(0+00) 740	1290	
		16	23.2	19.6		29° 58'	692	1242	
		17	23.2	19.6		25° 50'	661	1211	
		18	22.9	19.3		27° 46'	632	1182	
		19	22.1	18.5		26° 56'	610	1160	
		20	21.5	17.9		25° 37'	575	1125	

RANGE LINE

N-1'B

28+00 N.

ADJUSTMENTS
BOAT = +1.0
ZERO = -0.9
TIDE = -3.7
TOTAL = -3.6'

Profile No. ____ Notes Red. CWH Plotted CWH Job No. 500.03 Division No. 10 F. B. 2822
Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. JSH Checked JSH Survey by WAPRIET Notes P.L.S. Date 9-22-59
Date 9-29-59 Date 10-5-59 Map No. ____ Inspector C. Johnson

Pg. 127

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.

F. B. 2902 Pg. 128 | Job No. 0300.92 | Division No. 10 | Notes Red. CWH | Plotted CWH
Survey of BEACH EROSION STUDIES | Date 9-24-59 | Date 10-2-59 | No. | Profile
Survey by CHARLES STRADER | Notes | Chkd. JSH | Checked JSH | X-Sec.
Indexed C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION		B. S.	H. I.		F. S.	ELEV.			
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		ADD OFFSET	Remarks
		21	20.1	16.5		24° 22'	544	1094	Adjustments
		22	18.3	14.7		23° 02'	510	1060	Boat = +1.0
		23	16.9	13.3		21° 42'	479	1029	Zero = -0.9
		24	15.7	12.1		20° 15'	443	993	Tide = -3.7
		25	15.1	11.5		18° 56'	409	959	Total = -3.6
		26	14.2	10.6		17° 32'	379	929	
		27	13.2	9.6		16° 21'	354	904	
16+00 N	N-1'B	28	11.8	8.2	7 52	15° 40'	336	886	

76L-298 CE 307 11-58

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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 28+00	Sight on 32+00	
		21 19			DATUM MEAN LOWER LOW WATER	SHORE 32+00 N.	
	265	19 32	458	1 2 7			
32+00 N.			50	14 3	550' OFFSET LINE		ADD OFFSET
			41	15 2		100 R.	450L
			33	16 0		200 R	350L
			31	16 2		300 R	250L
			33	16 0		400 R	150L
			17	17 6		450 R Toe Slope	150L
			54	13 9	55 R Rock		605L
			63	13 0	71 R Rock		621L
			41	13 2	106 R		650L
			70	12 3	176 R Top Slope		636L
TP. for swim safety dock.	1 4	9 7	110	8 3	158 R		708L
			50	4 7	24° 32'	182	732
			89	0 8	29 03	222	772
			118	-2 N	34 46	278	828
			132	-3 5	36 39	298	848
			152	-5 5	38 55	323	873
			183	-8 6	42 04	361	911

Profile No. _____ Notes Red. CWH Plotted CWH Job No. _____ Division No. 12
X-Sec. No. _____ Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION
Notes Chkd. JSH Checked JSH Survey by _____ Notes _____ Date _____
Date 9-25-59 Date 10-5-59 Map No. _____ Index [redacted]

F.B. 28802 Pg. 129

F.B. 2802 Pg. 130 | Job No. 030002 | Division No. 10 | Notes Red CWH | Plotted CWH | Profile

Survey of BEACH EROSION STUDIES | Date 9-24-59 | Date 10-2-59 | No.

Survey by LWD | Notes LWD | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed | Date | Date 9-29-59 | Date 10-5-59 | No.

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

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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.

76L-256 CE 507 11-58

76L298 307 8-53

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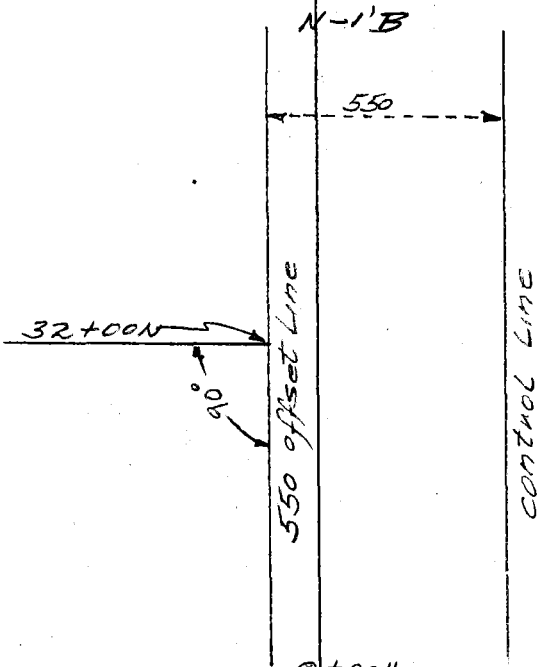
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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. Sight At CN	#	Color	Time	Hor. Ang.	Remarks
	1		8:08	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	
32+00 N	N-1'B				



Profile No. ____ Notes Red. CWH Plotted CWH Job No. 03002 Division No. 10 F. B. 2802 Pg. 131
Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Study
X-Sec. No. ____ Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes Elev. Date 8-[illegible]-59
Date 9-29-59 Date 10-5-59 Map No. ____ Index [redacted]

F.-B. 2802 Pg. 132 | Job No. 030002 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Study | Date 9-24-59 | Date 10-2-59 | No.

Survey by Wanner | Notes Ellen | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed R. C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

32+00 N

N-1'B

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At	#	Color	Time	Hor. Ang.	
	21			90 00	
	22		8:11	" "	

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LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 8-53

76298 S & E #307—7-55

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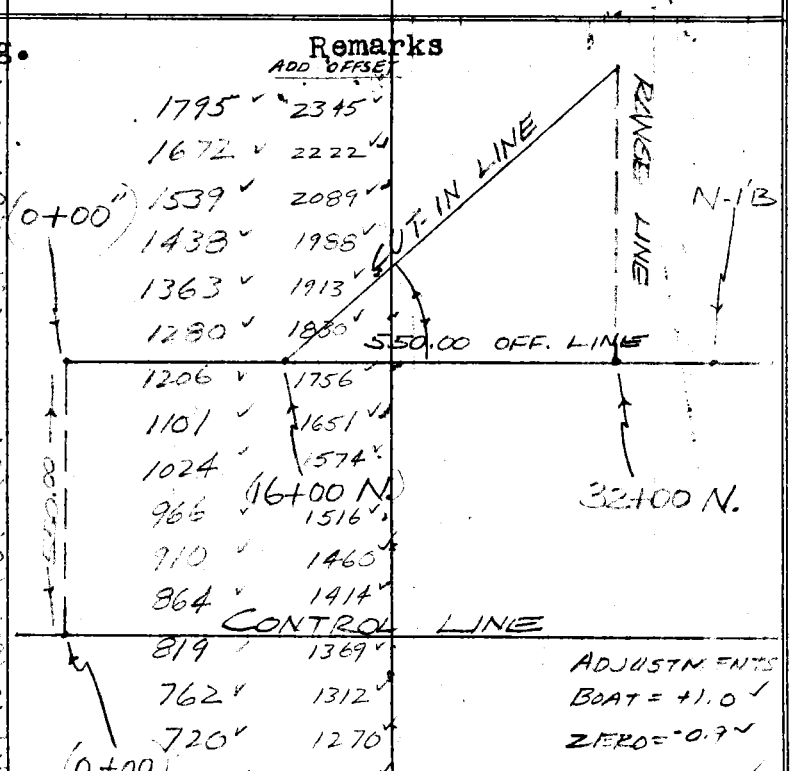
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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. Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks	ADD OFFSET	
16+00 N.	N-1'B	1	32.8	28.8	8 08	48° 17'	1795	2345	
		2	31.5	27.5		46° 15'	1672	2222	
		3	29.9	25.9		43° 53'	1539	2089	
		4	28.7	24.7		41° 57'	1438	1988	
		5	27.5	23.5		40° 25'	1363	1913	
		6	27.2	23.2		38° 40'	1280	1830	
		7	26.1	22.1		37° 00'	1206	1756	
		8	25.9	21.9		34° 32'	1101	1651	
		9	25.6	21.6		32° 38'	1024	1574	
		10	25.2	21.2		31° 09'	966	1516	
		11	24.8	20.8		29° 38'	910	1460	
		12	24.1	20.1		28° 21'	864	1414	
		13	23.5	19.5		27° 08'	819	1369	
		14	22.7	18.7		25° 26'	762	1312	
		15	21.8	17.8		24° 14'	720	1270	
		16	21.2	17.2		22° 55'	677	1227	
		17	19.8	15.8		21° 40'	635	1185	
		18	17.8	13.8		20° 15'	590	1140	
		19	16.9	12.9		19° 06'	554	1104	
		20	15.7	11.7		17° 41'	510	1060	



ADJUSTMENTS
BOAT = +1.0
ZERO = -0.9
TIDE = -4.1
TOTAL = -4.0

Profile No. ____ Notes Red. CWH Plotted CWH Job No. 0300.08 Division No. 10 F. B. 2802 Pg. 133
Date 9-24-59 Date 10-2-59 Survey of PECH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. JSH Checked JSH Survey by CHAPPIET Notes R.L.S. Date 8-20-59
Date 9-29-59 Date 10-5-59 Map No. ____ Index C. Johnson

F. B. 2802 Pg. 134 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of BEACH EROSION STUDIES | Date 9-24-59 | Date 10-2-59 | No.

Survey by HARRIET | Notes STRADER | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed [redacted] | Date | Date 9-29-59 | Date 10-5-59 | No.

76298 S & E #307—7-58

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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
16+00 N.						
N-1'B						
Inst Sight At On						
# Rec	Depth Adj.	Time	Hor. Ang.		ADD OFFSET	
21	14.3		16° 33		475 ✓	1025 ✓
22	13.8				438 ✓	988 ✓
	9.8	8 11	15 13			

Adjustments
Boat = +1.0 ✓
Zero = -0.9 ✓
Tide = -4.1 ✓
Total = -4.0 ✓

76L-298 CE 307 11-58

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 ICK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile No. ____ Notes Red. CWH Date 9-24-59 Plotted CWH Date 10-2-59 Job No. ____ Division No. 16
X-Sec. No. ____ Notes Chkd. JSH Date 9-24-59 Checked JSH Date 10-5-59 Survey of BEACH ENGINEER STADES
Survey by ____ Notes ____ Date ____
Map No. ____ Indexed C. Johnson Date ____

F.B. 28802 Pg. 135

STATION	B.S.	H.I.	F.S.	ELEV.	Inst. at 32+00	Sight on 36+00	
		19 32			DATUM MEAN LOWER LOW WATER	INSHORE	
T.P.	420	19 30	422	15 10		36+00 N.	
36+00 N.			50	14 3	550'	OFFSET LINE	ADD OFFSET
			32	16 4		100 "	450 L
			34	15 9		200 "	350 L
			26	16 7		300 "	250 L
			13	18 0		400 "	150 L
			00	19 3		445 " FOR S. YDR	105 L
			61	13 2	40 L	BRK	590 L
			76	11 7	56 L	BRK	606 L
			62	13 1	113 L	TOP BRK	663 L
T.P. FOR SURVEY PARTY ONLY	07	11 2	83	10 5	131 L		691 L
			65	4 7	22° 24'	165	715
			155	-0 3	27 40	210	763
			127	-1 5	30 47	238	783
			148	-3 6	33 55	269	819
			178	-6 6	37 01	302	852

F. B. 2802 Pg. 136 Job No. 03002 Division No. 10 Notes Red CWH Plotted CWH Profile

Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No.

Survey by CWO Notes CWO Notes Chkd. JSH Checked JSH X-Sec.

Indexed Date Date 9-29-59 Date 10-5-59 No.

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

Do not extend notes this side of this line.

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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.

76L-298 CE 307 11-58

76L298 307 8-53

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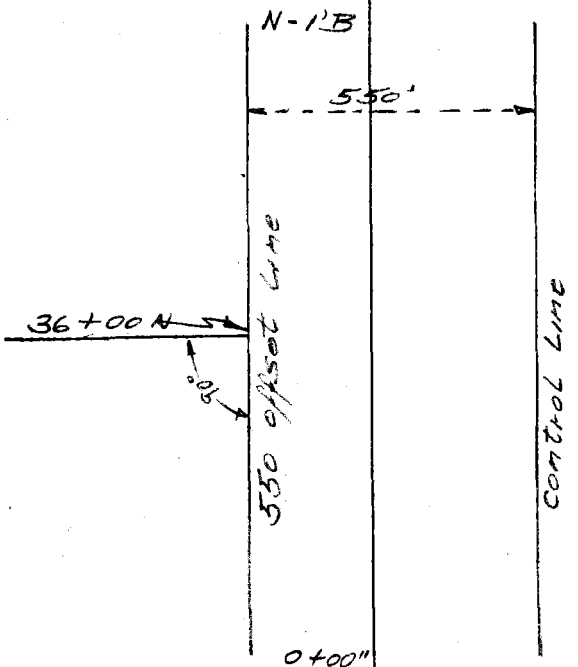
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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. Sight At CH	#	Color	Time	Hor. Ang.	Remarks
	1		8:28	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
36+00 N	9			" "	
N-1B	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



Profile No. ____ Notes Red. CWH Plotted CWH Job No. 83000 Division No. 10 F. B. 2802 Pg. 137
X-Sec. No. ____ Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Study
Notes Chkd. JSH Checked JSH Survey by [redacted] Notes EMH Date 8-20-59
Date 9-29-59 Date 10-5-59 Map No. ____ Indexed [redacted] O. J[redacted]

F.B. 2802 Pg. 138 | Job No. 030092 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Study | Date 9-29-59 | Date 10-2-59 | No.

Survey by Uhlhiet | Notes Eller | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed A. C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
36+00N					
N-1'B					
Inst. Sight At	#	Color	Time	Hor. Ang.	
OR	21		8:30	90° 00	
	22			"	

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 8-53

76298 S & E #307—7-55

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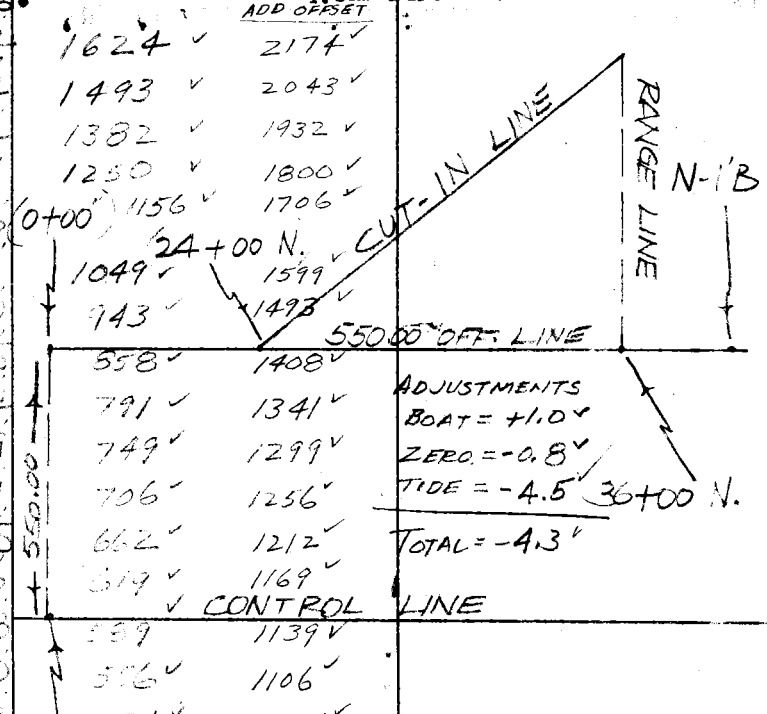
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	#	B. S. Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.		ADD OFFSET	Remarks
24+00 N.	N-1'B	1	30.5	26.2	8 27	53° 32	1624	2174	
		2	29.4	25.1		51° 12	1493	2043	
		3	28.1	23.8		49° 02	1382	1932	
		4	26.8	22.5		46° 10	1250	1800	
		5	26.1	21.8		43° 55	(0+00) 1156	1706	
		6	24.9	20.6		41° 10	1049	1599	24+00 N.
		7	23.5	19.2		38° 10	943	1493	
		8	23.0	18.7		35° 35	558	1408	
		9	22.4	18.1		33° 22	791	1341	
		10	21.9	17.6		31° 59	749	1299	
		11	21.5	17.2		30° 27	706	1256	
		12	21.1	16.8		28° 55	662	1212	
		13	20.3	16.0		27° 15	619	1169	
		14	20.0	15.7		26° 08	[illegible]	1139	
		15	19.4	15.1		24° 50	576	1106	
		16	19.1	14.8		23° 28	521	1071	
		17	17.5	13.2		22° 30	(0+00) 497	1047	
		18	17.1	12.8		21° 25	470	1020	
		19	16.3	12.0		20° 04	438	988	
		20	15.0	10.7		18° 48	408	958	



ADJUSTMENTS
BOAT = +1.0
ZERO = -0.8
TIDE = -4.5
TOTAL = -4.3

Profile
Notes Red C.W.H. Plotted C.W.H. Job No. [illegible] Division No. 10
No. Date 1-4-59 Date 10-1-59 Survey of PERKIN ERDION STUDIES
X-Sec. Notes Chkd. [illegible] Checked [illegible] Survey by HARRIET Notes R.T.S. Date 8-20-57
No. Date 9-19-59 Date 10-5-59 Map No. Inspector C. Johnson
F. B. 7800 Pg. 139

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. 2802 Pg. 140 Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH Date 10-2-59 No.
Survey of BEACH EROSION STUDIES Date 9-24-59 Notes Chkd. JSH Checked JSH Profile
Survey by CHARRIET Notes STRADER Date 9-29-59 Date 10-5-59 No. X-Sec.
Indexed C. Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	# Rec	Depth Adj.	Time	Hor. Ang.	ADD OFFSET	Remarks
	21	13.8 9.5			382 .932	Adjustments
	22	13.0 8.7	8:30	10:27	355 905	Boat = +1.0
						Zero = -0.8
						Tide = -4.5
						Total = -4.3
24+00 N. / N-1'B						

76L-298 CE 307 11-58

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.	Inst. at 44+00	Sight on 40+00
		1930			DATUM MEAN LOWER LOW WATER	INSHORE
T.P.	569	20 17	4 82	14 42		40+00 N.
40+00 N.			52	15 0	550' OFFSET LINE	ADD OFFSET
			44	15 5	100 R.	450 L
			39	16 4	200 R.	350 L
			32	17 0	300 R.	250 L
			21	18 1	400 R.	150 L
			413	21 5	500 R.	50 L
			421	22 3	510 R.	40 L Toe Slope
			69	13 3	100 L. T. Brk	650 L
T.P. For Dwn party only	04	97	109	9 3	132 L.	682 L
			50	47	22° 50'	168 718
			95	02	27 44	210 763
			123	-2 6	32 10	252 802
			146	-4 9	35 07	281 831
			163	-6 6	38 23	317 867
			177	-8 0	41 08	349 899

Profile No. ____ Notes Red. CWH Plotted CWH Job No. ____ Division No. ____
X-Sec. No. ____ Date 9-24-59 Date 10-2-59 Survey of ____
Notes Chkd. ____ Checked ____ Survey by ____ Notes ____
Date 9-24-59 Date 10-5-59 Map No. ____ Indexed C. Johnson Date ____

F.B. 28602 Pg. 141

F.B. 2802 Pg. 142 Job No. 0300-02 Division No. 10 Notes Red CWH Plotted CWH Profile

Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No.

Survey by LIND Notes LIND Notes Chkd. JSH Checked JSH X-Sec.

Indexed Date Date 9-29-59 Date 10-5-59 No.

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

Do not extend notes this side of this line.

PLEASE RETURN TO
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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.

76L-296 CE 307 11-58

76L298 307 8-53

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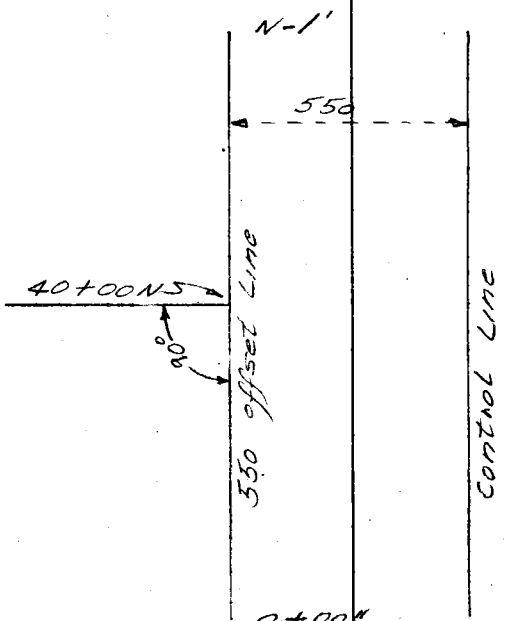
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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. Sight At CH	#	Color	Time	Hor. Ang.	Remarks
	1		9:00	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10	"		" "	
	11	"		" "	
	12	"		" "	
40+00 N	13	Pick		" "	
N-1'	14	"		" "	
	15	"		" "	
	16	"		" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



Profile No. ____ Notes Red. CWH Plotted CWH Job No. 6300.02 Division No. 10 F. B. 28c2 Pg. 143
Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Study
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by Williams Notes Elks Date 8-26-59
Date 9-29-59 Date 10-5-59 Map No. ____ Date ____

76L298 307 8-53

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

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

Do not extend notes this side of this line.

F. B. 2802 Pg. 144 Job No. 03002 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of BEACH EROSION STUDY Date 9-29-59 Date 10-2-59 No. X-Sec.
Survey by WARNER Notes ELLER Notes Chkd. JSH Checked JSH
Index [redacted] Date Date 9-29-59 Date 10-5-59 No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.		Remarks
	21			90°00		
	22			" "		
	23			" "		
	24			" "		
	25			" "		
	26			" "		
	27			" "		
	28			" "		
	29		9:04	" "		
40+00 N / N-1'						

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. Rec.	Depth Adj.	F. S. Time	ELEV.	Hor. Ang.	Remarks
52+06.48N	N-1'	1	31.3	26.6	9:00	2090	51° 22	NOTE: A FEW OF THIS SHOTS OFF RANGE LINE BECAUSE OF PIER OBSTRUCTION.
		2	31.6	26.9		2030	[illegible] 18	
		3	31.3	26.6		1939	[illegible] 35	ADJUSTMENTS
		4	30.7	26.0		1874	[illegible] 10	BOAT = +1.0
		5	30.0	25.3		1824	46° 02	ZERO = -0.8
		6	28.9	24.2		1760	44° 32	TIDE = -4.9
		7	28.8	24.1		1707	43° 25	TOTAL = -4.7
		8	28.5	23.8		1674	42° 27	
		9	27.8	23.1		1619	41° 05	
		10	27.6	22.9		1574	39° 50	
		11	26.7	22.0		1459	36° 20	
		12	26.4	21.7		1424	35° 27	
		13	25.8	21.1		1364	[illegible]	
		14	25.0	20.3		1328	[illegible]	
		15	24.6	19.9		1282	30° 47	
		16	23.7	19.0		1233	29° 00	
		17	22.3	18.6		1187	27° 24	
		18	21.3	16.6		1150	26° 00	
		19	19.8	15.1		1108	24° 23	
		20	18.5	13.8		1069	22° 51	

CUT-IN LINE
RANGE LINE
550'
offset line
40+00N
N-1'
52+06.48N
central line
N-1

Profile Notes Red. CWH Plotted CWH Job No. [illegible] Division No. [illegible]
No. Date 9-24-58 Date 10-6-58 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. JSH Checked JSH Survey by HARRIT Notes P.L.C. Date 5-18-59
No. Date 9-29-58 Date 10-5-58 Map No. [illegible] Date

F. B. PL 145

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.

F. B. 2802 Pg. 146 Job No. 030005 Division No. 10 Notes Red. CWH Plotted CWH
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No. Profile
Survey by WHEELRIGHT Notes STRADER Notes Chkd. JSH Checked JSH No. X-Sec.
Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

STATION	S. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Rec. / Adj.	Time	Hor. Ang.		Remarks
	21	16.9 / 12.2		21° 38'	1038	Adjustments
	22	16.0 / 11.3		20° 36'	1014	Boat = +1.0
	23	14.9 / 10.2		19° 26'	985	Zero = -0.8
	24	14.1 / 9.4		18° 11'	956	Tide = -4.9
	25	13.9 / 9.2		17° 02'	930	Total = -4.7
	26	12.9 / 8.2		16° 10'	908	
	27	11.9 / 7.2		14° 58'	882	
	28	11.2 / 6.5		13° 54'	858	
	29	10.1 / 5.4	9 02	12° 53'	836	
224 06.48 N.						
N-1'						

76L-298 CE 307 11-58

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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 IN 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 N-1'	Sight on 44+00
		20 17			DATUM MEAN LOWER LOW WATER	SHORE
TP.	589	19 70	636	13 81		44+00 N.
44+00 N.			50	14 1	550' OFFSET	LINE ADD OFFSET
			46	15 1		100° R. 450 L.
			45	15 2		200° R. 350 L.
			30	16 -		319° L. 231 L. FOOT [illegible]
			56	14 1	60 L. Top Bank	610 L.
			81	12 2	80 L. Bank	638 L.
[illegible]	0 0	9 9	98	9 9	95 L.	643 L.
			5 2	4 7	20 51	137 687
			9 6	0 3	25 37	173 723
			11 6	-1 7	29 41	206 756
			13 3	-3 4	33 00	234 784
			16 2	-6 3	36 35	268 818
			18 0	-8 1	39 52	301 851

Profile No. ___ X-Sec. ___ Notes Red. CWH Plotted CWH Job No. [illegible] Division No. [illegible]
Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes [illegible] Date [illegible]
Date 9-29-59 Date 10-5-59 Map No. ___ Indexed [illegible] Date [illegible]

F.B. 2802 Pg. 47

F.B. 2802 Pg. 148 Job No. 0300.02 Division No. 10 Notes Red CWH Plotted CWH Profile

Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No.

Survey by LHD Notes LHD Notes Chkd. JSH Checked JSH X-Sec.

Indexed Date Date 9-29-59 Date 10-5-59 No.

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

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
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.

76L-298 CE 307 11-58

76L298 307 8-53

PLEASE RETURN TO
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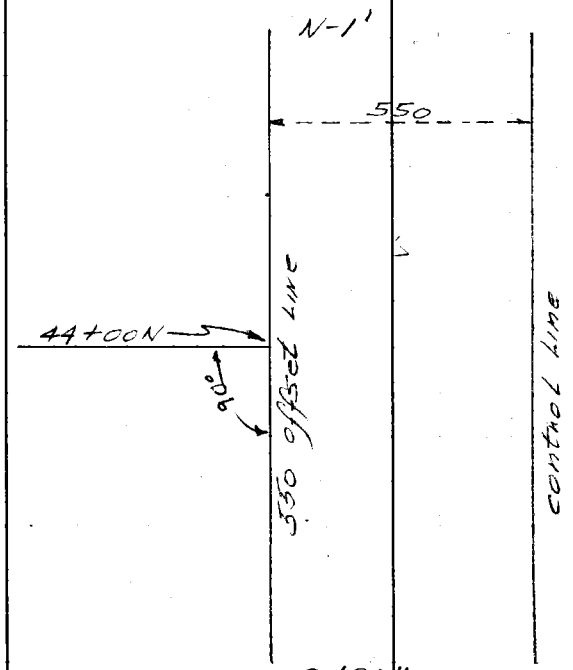
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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. Sight At CH	#	Color	Time	Hor. Ang.	Remarks
	1		9:16	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	44+00N
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20		9:18	" "	



44+00N
N-1'

Profile Notes Red. CWH Plotted CWH Job No. 03000 Division No. 10 F. B. 2802 Pg. 143
No. Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDY
X-Sec. Notes Chkd. Checked Survey by Notes Date
No. Date 9-29-59 Date 10-5-59 Map No. Index O. Johnson

F. B. 2802 PG. 150 | Job No. 030002 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Study | Date 9-24-59 | Date 10-2-59 | No.

Survey by UHamiet | Notes Ellen | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight OR	#	Color	Time	Hor. Ang.	

76L298 307 8-53

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 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.

76298 S & E #307—7-55

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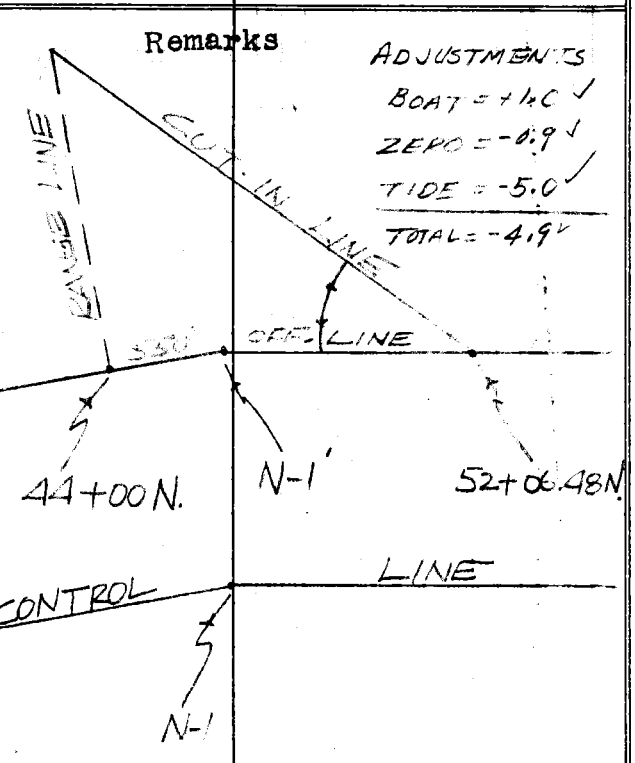
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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. Rec.	H. I. Adj.	F. S. Time	Hor. Ang.	ELEV.	Remarks
52+06.48 N.	N-1'	1		29.2	24.3	9 15	59° 03'	1,922	
		2		27.3	22.4		55° 23'	1,738	
		3		26.0	21.1		51° 40'	1,587	
		4		24.9	20.0		48° 32'	1475	
		5		23.9	19.0		45° 20'	1377	
		6		23.2	18.3		42° 18'	1295	
		7		22.5	17.6		39° 40'	1228	
		8		22.0	17.1		37° 19'	1172	
		9		21.4	16.5		34° 47'	1117	
		10		20.3	15.4		33° 15'	1086	
		11		19.8	14.9		31° 19'	1047	
		12		18.8	13.9		29° 24'	1011	
		13		18.0	13.1		28° 00'	985	
		14		16.5	11.6		26° 19'	956	
		15		15.9	11.0		24° 52'	929	
		16		15.1	10.2		22° 55'	897	
		17		14.0	9.1		21° 50'	878	
		18		12.7	7.8		20° 15'	852	
		19		11.8	6.9		19° 00'	833	
		20		10.5	5.6	9 17	17° 35'	810	



ADJUSTMENTS
BOAT = +1.0
ZERO = -0.9
TIDE = -5.0
TOTAL = -4.9

Profile No. ____ Notes Red. CWH Plotted CWH Job No. 2300.02 Division No. 10 F. B. 2300 Pg. 151
Date 9-24-59 Date 10-2-59 Survey of PERCH FERRY STUDIES
X-Sec. No. ____ Notes Chkd. JCH Checked JCH Survey by HARPER & PLS Date 8-20-59
Date 9-29-59 Date 10-5-59 Map No. ____ Initials C. J. Date

F. B. 2802 Pg. 152 | Job No. 23000-2 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of BEACH EROSION STUDIES | Date 9-24-59 | Date 10-2-59 | No.

Survey by OHRLICH | Notes STRADER | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed K. C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

52+05.48 N.

N-1'

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

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.

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76L-298 CE 307 11-58

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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.

Profile No. ____ Notes Red CWH Plotted CWH Job No. P300.02 Division No. 10
X-Sec. ____ Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date 9-29-59 Date 10-5-59 Map No. ____ Theodore C. Johnson Date ____

F.B. 2802 Pg. 153

STATION	B.S.	H.I.	F.S.	ELEV.	Inst. at 52+08.48 Sight on 48+06.48		
		19 70			DATUM MEAN LOWER LOW WATER	INSHORE 48+06.48 H.	
	5 10	19 10	5 70	14 00			
48+06.48H.			5 0	14 1	550'	OFFSET LINE	ADD OFFSET
			5 7	13 4		100 R.	450 L
			5 5	13 6		200 "	350 L
			2 6	16 5		300 "	250 L
			2 1	17 0		320 REDUCE MAG. READING AT	230 L
			5 8	13 3	58 L. Top Slope		608 L
T.P. FORSWITH (ARTY BRY)	0 1	10 0	9 2	9 9	85 L.		635 L
			5 3	4 7	16 36	119	669
			10 1	-0 1	22 41	167	717
			14 7	-4 7	27 12	206	756
			16 0	-6 0	30 55	240	790
			18 0	-8 0	34 00	270	820

F.B. 2802 Pg. 154 | Job No. 0300-02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of BEACH EROSION STUDIES | Date 9-24-59 | Date 10-2-59 | No.

Survey by LHW | Notes LHW | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION	B.S.	H.I.	F.S.	ELEV.	
TEAM					
TH.	2.31				
TP.	1.04				
BM N-1	8.50	19.10			
			22.57	5.07	14.03
			30.45	2.98	15.37
			37.38	1.63	28.59
			5.90	3.19	
					BM N-1 EL= 31.096
					PER FB 2100-163

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76L-298 CE 307 11-58

76L298 307 8-53

PLEASE RETURN TO
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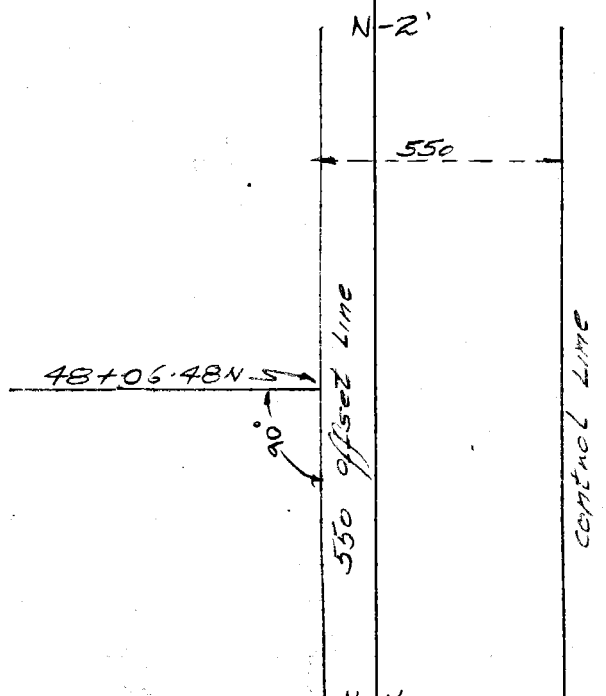
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED IN 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 Ch	#	Color	Time	Hor. Ang.		
	1		9:30	90° 00		
	2			" "		
	3			" "		
	4			" "		
	5			" "		
	6			" "		
	7			" "		
	8			" "		
	9			" "		
	10			" "		
	11			" "		
	12			" "		
	13			" "		
	14			" "		
	15			" "		
	16			" "		
	17			" "		
	18			" "		
	19			" "		
	20			" "		



48+06.48 N
N-2'

Profile Notes Red. CWH Plotted CWH Job No. A3000 Division No. 10 F. B. 2802 Pg. 155
No. Date 8-24-59 Date 10-2-59 Survey of BERCH Erosion Study
X-Sec. Notes Chkd. Checked Survey by Chainmen Notes Elev. Date 8-20-59
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. Johnson Date

F. B. 2802 Pg. 156 | Job No. 230002 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Study | Date 9-29-59 | Date 10-2-59 | No.

Survey by U Harriet | Notes Ellen | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
48+06.48 N					Inst. Sight At OR
N-2'					
	# 21	Color	Time 9:32	Hor. Ang. 90° 00	

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

76L298 307 8-53

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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. Rec.	H. I. Adj.	F. S.	Time	ELEV.	Hor. Ang.		ADD OFFSET	Remarks
60+06.48 N.	N-1	1	28.0	23.0		9 28		48° 49'	1372	1922	
		2	27.1	22.1				45° 32'	1223	1773	
		3	26.3	21.3				42° 03'	1082	1632	
		4	24.8	19.8				38° 51'	966	1516	
		5	24.7	19.7				36° 18'	882	1432	
		6	23.9	18.9				34° 10'	815	1365	
		7	23.7	18.7				32° 24'	762	1312	
		8	23.1	18.1				30° 28'	706	1256	
		9	22.2	17.2				28° 34'	653	1203 (N-1)	
		10	21.7	16.7				27° 28'	624	1174	
		11	21.2	16.2				24° 56'	558	1108	
		12	20.3	15.3				22° 52'	506	1056	
		13	19.0	14.0				21° [illegible]	474	1024	
		14	18.4	13.4				[illegible]	448	998	
		15	17.6	12.6				[illegible]	415	965	
		16	16.5	11.5				17° 46'	384	934	N-1
		17	15.5	10.5				16° 23'	355	905	
		18	14.3	9.3				14° 51'	320	870	
		19	13.1	8.1				13° 40'	292	842	
		20	12.7	7.7				12° 58'	276	826	

ADJUSTMENT
BOAT = +1.0
ZERO = -0.9
TIDE = -5.1
TOTAL = -5.0

RANGE LINE — CUT-IN LINE — 550.00 OFF. LINE — 48+06.48 N. — 60+06.48 N.

CONTROL LINE

Profile No. ____ Date 9-21-59 Notes Red. CWH Plotted CWH Job No. 0300.03 Division No. 10 F. B. 2802 Pg. 157
X-Sec. No. ____ Date 10-2-59 Notes Chkd. ____ Checked ____ Survey of BEACH EROSION STUDIES
Date 10-5-59 Map No. ____ Survey by OLMPRT Notes R.L.S. Date 8-20-59

F. B. 2002 Pg. 158 | Job No. 030002 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of BEACH EROSION STUDIES | Date 9-24-59 | Date 10-2-59 | No.

Survey by HARRIET STRADER | Notes | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

60+06.48 N.

N-1'

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. Sight At On						
# Depth Red. Adj.	21	10.5	55	9	31	
Time				11	32	
Hor. Ang.						245 7 95
OFFSET 100						

Adjustments
Boat = +1.0
Zero = -0.9
Tide = -5.1
Total = -5.0

76298 S & E #307—7-55

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763098 CE #247—7-53

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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 CWH
Checked ISH
Date 9-2-59

Survey of
JN Tape Sad
Surveyed by
Notes Date
Indexed

F. B. PG.

F. B. 280 Z PG. 159 A

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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.

Notes Ck'd by C.WH	Survey of Beach Erosion Study
Map No.	~~Notes Transcribed by~~ ~~Tape~~ ~~Sht~~
Office Work	Surveyed by WHarriet
Checked	Notes Ellen Date ~~8-21-59~~
Date 9-2-59	Indexed ~~K. O. Johnson~~

F. B. 2802 PG. 159

8-21-59

2.8 ~~3.0~~ on Datum Line of Tide Gauge

Gauge time (P.S.t) — 11:46

Watch time (P.S.T) — 11:45

Standard time	Gauge Reading	
5:00	~~+0.9~~	+0.7
5:30	~~+1.0~~	+0.8
6:00	~~+1.4~~	+1.2
6:30	~~+1.7~~	+1.5
7:00	~~+2.1~~	+1.9
7:30	~~+2.6~~	+2.4
8:00	~~+3.3~~	+3.1
8:30	~~+3.8~~	+3.6
9:00	~~+4.4~~	+4.2
9:30	~~+4.8~~	+4.6
10:00	~~+5.1~~	+4.9
10:30	~~+5.2~~	+5.0
11:00	~~+5.4~~	+5.2
11:30	~~+5.2~~	+5.0

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

Do not extend notes this side of this line.

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

763098 CE #247—7-59

F. B. 2802 PG. 160

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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.

76L-298 CE 307 11-58

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.	Inst. at 56+06.48	Sight on 52+06.48	
N-1	3 30	35 20		31 90	N-1 EL = 31.896 per	INSHORE	
T.P.	1 92	30 86	6 26	28 94	F.B. 2100-169	52+06.48 H.	
T.P.	4 00	22 53	12 33	18 53	DATUM MEAN LOWER LOW WATER		
	4 81	19 67	7 67	14 86			
52+06.48 H.			49	14 6	550' OFFSET LINE.		ADJ OFFSET
			64	13 3		100 R.	450 L
			53	15 [illegible]		200 R.	350 L
			59	[illegible] 8		300 R.	250 L
			41	16 0		400 R	150 L
			11	18 0		435 R. Edge of Pad	115 L
			56	14 1	45° L. T. Slope		595 L
TP Fwd [illegible]	1 9	9 7	119	7 8	95° L.		645 L
			50	4 7	16° 24'	118	668
			76	2 1	18 48	136	686
			99	-0 2	21 51	160	710
			107	-1 0	23 54	177	727
			121	-2 4	27 15	206	756
			138	-4 1	30 22	234	784
			167	-7 0	32 54	259	809

Profile No. Notes Red. CWH Plotted CWH Job No. 0300.02 Division No. 70
X-Sec. No. Date 9-24-59 Date 10-2-59 Surveyed [illegible] Station Stubs
Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible] Date 8-27-59
Date 7-27-59 Date 10-5-59 Map No. Indexed C. J. [illegible] Date

F.B. 2802 Pg. 161

F.B. 2802 PG. 162

Job No. 0300-02 Division No. 10 Notes Red CWH Plotted CWH Profile

Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No.

Survey by LIND Notes LIND Notes Chkd. JSH Checked JSH X-Sec.

Indexed Date Date 9-29-59 Date 10-5-59 No.

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

Do not extend notes this side of this line.

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76L-296 CE 307 11-58

76L298 307 8-53

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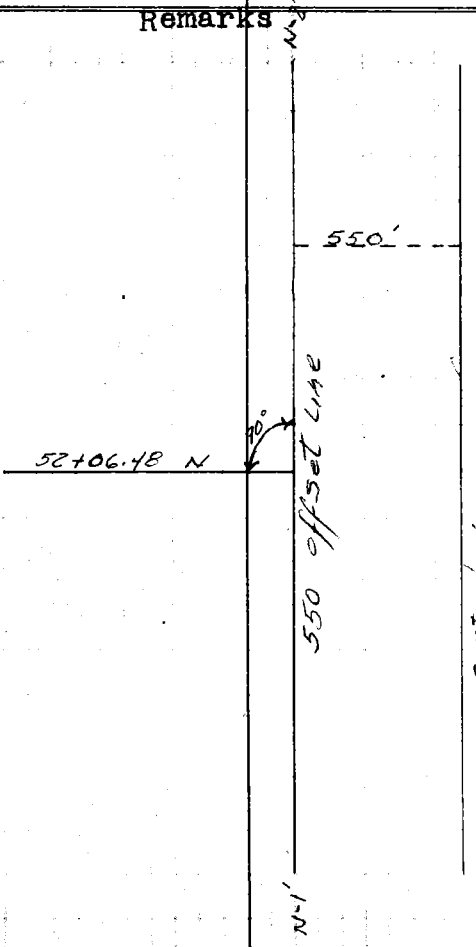
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION ~~Inst. Sight~~ At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
		1		6 09	90 00	
		2			" "	
		3			" "	
		4			" "	
		5			" "	
		6			" "	
		7			" "	
		8			" "	
		9			" "	
		10			" "	52+06.48 N
		11			" "	
		12			" "	
		13			" "	
		14			" "	
		15			" "	
		16			" "	
		17			" "	
		18			" "	
		19			" "	
		20			" "	
		21			" "	



Profile No. ____ X-Sec. No. ____

Notes Red. CWH Plotted CWH Job No. 0300.02 Division No. 10 F. B. 2802 Pg. 163
Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Study
Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible] Date [illegible]
Date 9-29-59 Date 10-5-59 Map No. ____ Indexed C. [illegible] Date ____

F. B. 2802 Pg. 164 Job No. 090002 Division No. 10 Notes Red. CWH Plotted CWH Profile

Survey of Beach Erosion Study Date 9-24-59 Date 10-2-59 No.

Survey by Wharriet Notes Liden Notes Chkd. JSH Checked JSH X-Sec.

Index [redacted] C. Johnson Date Date 9-29-59 Date 10-5-59 No.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
52+06.48 N										
N-2'										
						22			90 00	
						23			"	
						24			"	
						25			"	
						26			"	
						27			"	
						28			"	

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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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726 LOS ANGELES COUNTY ENGINEERING BLDG.

76L298 307 8-53

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. Rec.	H. I. Depth Adj.	F. S.	Time	ELEV. Hor. Ang.		ADD OFFSET	Remarks
64+06.48 N.	N-1	1	28.3	27.2		6:08	54° 40'	.1693	2243	
		2	26.9	25.8			52° 26'	1560	2110	
		3	26.3	25.2			50° 18'	1446	1996	
		4	25.3	24.2			48° 16'	1345	1895	
		5	24.2	23.1			46° 04'	(N-1) 1246	1795	
		6	23.7	22.6			44° 05'	1164	1714	
		7	23.0	21.9			42° 06'	1085	1635	
		8	22.3	21.2			40° 20'	1019	1569	
		9	21.5	20.4			38° 30'	550.00		OFFSET LINE
		10	20.9	19.8			36° 10'	954	1504	
		11	20.5	19.4			34° 05'	877	1427	
		12	20.1	19.0			32° 20'	814	1364	
		13	19.9	18.8			30° 53'	762	1312	
		14	19.7	18.6			29° 32'	718	1268	
		15	18.8	17.7			28° 27'	680	1230	CONTROL LINE
		16	19.0	17.9			27° 12'	650	1200	
		17	18.3	17.2			25° 56'	617	1167	
		18	17.7	16.6			24° 34'	581	1131	
		19	17.5	16.4			23° 30'	(N-1) 548	1098	
		20	17.0	15.9			22° 00'	522	1072	
								485	1035	

RANGE LINE

CUT-IN LINE

64+06.48 N.

52+06.48 N.

ADJUSTMENTS
BOAT = +1.0
ZERO = -0.9
TIDE = -1.2
TOTAL = -1.1

Profile No. ____ Notes Red. CWH Plotted CWH Job No. 0300.02 Division No. 10 F. B. 28-02 Pg. 165
Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. JSH Checked ____ Survey by HARPER Notes ____ Date ____
Date 9-29-59 Date 10-2-59 Map No. ____ Inspected C. [illegible]

F. B. 2802 Pg. 166 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of BEACH EROSION STUDIES | Date 9-24-59 | Date 10-2-59 | No.

Survey by HARRIET | Notes STRADER | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed A. C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | 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.

64+06.48 N.

N-1'

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. Sight On At	#	Depth Rec. Adj.	Time	Hor. Ang.		
	1	15.8	14.7		451 1001	Adjustments
	2	14.7	13.6		422 972	Boat = +1.0
	3	14.3	13.2		386 936	Zero = -0.9
	4	12.7	11.6		356 906	Tide = -1.2
	25	12.0	10.9		335 885	Total = -1.1
	26	11.3	10.2		318 868	
	27	10.1	9.0		296 846	
	28	9.9	8.8		272 822	

76L-298 S & E #307—1-56

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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 60+06.48	Sight on 56+06.48	
					DATUM MEAN LOWER LOW WATER	INSHORE 56+06.48 N.	
							AND DIST
							4.0 L
						R.	3.5 L
						R.	3.6 L
						R.	3.8 L
							2.2 L
							6.2 L
							6.2 L
							6.1 L
	0 5	8 7	4 7	4 0	15 50	114	6.4
			7 6	1 1	20 06	146	6.1
			9 6	-0 9	23 25	173	7.3
			10 2	-1 5	24 46	184	7.4
			11 4	-2 7	27 06	205	7.5
			13 6	-4 9	30 17	234	7.4
			15 8	-7 1	33 47	268	8.8
			17 3	-8 6	35 54	290	8.0

Profile Notes Red C.W.H. Plotted C.W.H. Job No. Division No.
No. X-Sec. Date 9-24-59 Date 10-2-59 Survey of
No. Notes Chkd. Checked Survey by Notes Date
Date 9-24-59 Date 10-5-59 Map No. Indexed C. Johnson Date

F. B. 2[illegible] Pg. 167

F. B. 2802 Pg. 168 Job No. 030032 Division No. 10 Notes Red. CWH Plotted CWH Profile

Survey of [illegible] Date 9-24-59 Date 10-2-59 No.

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

Indexed Date Date 9-29-59 Date 10-5-59 No.

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

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
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.

76L-296 S & E #307—1-56

76L298 307 8-53

PLEASE RETURN TO
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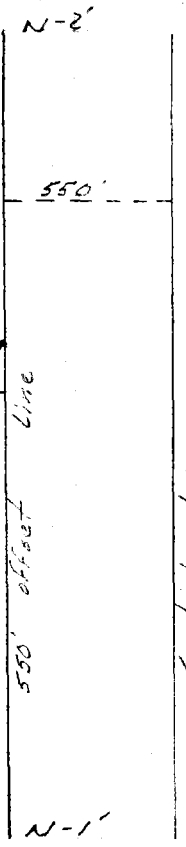
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

Profile No. ____ Notes Red. CWH Plotted CWH Job No. [illegible] Division No. [illegible] F. B. [illegible] Pg. 1/69
X-Sec. No. ____ Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Study
Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible] Date 8-21-59
Date 9-28-59 Date 10-5-59 Map No. ____ Indexed C. John Date

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At Ch	#	Color	Time	Hor. Ang.		Remarks
	1		6 27	93 00		
	2			" "		
	3			" "		
	4			" "		
	5			" "		
	6			" "		
	7			" "		
	8			" "		56+06.48 N
	9			" "		
	10			" "		
	11			" "		
	12			" "		
	13			" "		
	14			" "		
56+06.48 N	15			" "		
N-2'	16			" "		
	17			" "		
	18			" "		
	19			" "		
	20			" "		



F. B. 2802 Pg. 170 Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH Profile

Survey of Beach Erosion Study Date 9-24-59 Date 10-2-59 No.

Survey by Wheeriet Notes Lidco Notes Chkd. JSH Checked JSH X-Sec.

Indexed E. C. Johnson Date Date 9-29-59 Date 10-5-59 No.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight Ft OR	#	Color	Time	Hor. Ang.	Remarks
56+06.48 X										
N-2'						21				
						22				
								6 30		

Do not extend notes this side of this line.

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

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

76L298 307 8-53

76298 S & E #307—7-55

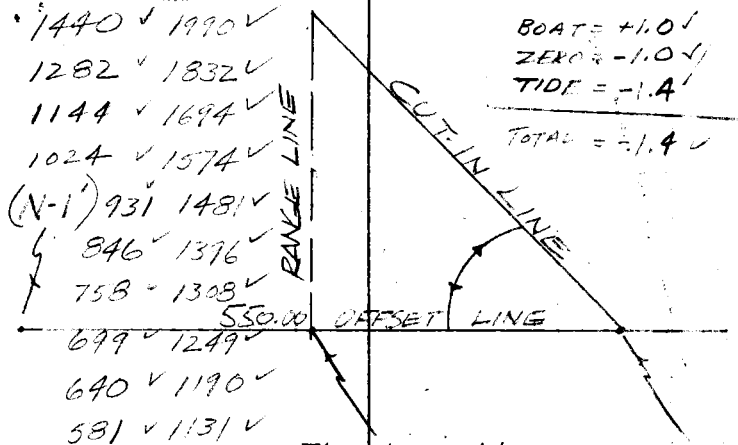
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

Profile No. ____ Notes Red. CWH Plotted CWH Job No. 03000.03 Division No. 10 F. B. 28005 Pg. 171
Date 9-24-59 Date 10-2-59 Survey of RESEARCH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. JSH Checked JSH Survey by A. WARRIER Notes P.T.S. Date 9-21-59
Date 9-24-59 Date 10-3-59 Map No. ____ Initial C. Johnson

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks (ADD OFFSET)	
72+06.48 N.	N-1'	1	26.3	24.9	6 26	42° 00'	1440	1990
		2	25.0	23.6		38° 41'	1282	1832
		3	23.8	22.4		35° 33'	1144	1694
		4	22.2	20.8		32° 37'	1024	1574
		5	22.0	20.6		30° 12'	(N-1') 931	1481
		6	20.6	19.2		27° 53'	846	1396
		7	20.6	19.2		25° 21'	758	1308
		8	20.1	18.7		23° 37'	699	1249
		9	19.3	17.9		21° 48'	640	1190
		10	19.0	17.6		19° 57'	581	1131
		11	18.5	17.1		18° 47'	544	1094
		12	17.7	16.3		17° 30'	504	1054
		13	16.9	15.5		16° 26'	472	1022
		14	15.7	14.3		15° 28'	443	993
		15	15.2	13.8		14° 37'	418	968
		16	14.2	12.8		13° 51'	395	945
		17	13.4	12.0		13° 02'	(N-1) 370	920
		18	12.5	11.1		12° 08'	344	894
		19	11.3	9.9		11° 20'	320	870
		20	10.3	8.9		10° 21'	293	843



ADJUSTMENTS
BOAT = +1.0
ZERO = -1.0
TIDE = -1.4'
TOTAL = -1.4

F. B. 2802 Pg. 172 Job No. 0300.05 Division No. 10 Notes Red. CWH Plotted CWH Profile

Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No.

Survey by O. HARRIET Notes STRADER Notes Chkd. JSH Checked JSH X-Sec.

Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

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	B. S.	H. I.	F. S.	ELEV.	Remarks
72+06.48 N.					
N-1'					
Inst. Sight At On					
	# Rec. Adj.	Depth	Time	Hor. Ang.	ADD OFFSET
	21 8.5	7.1	09 27	266	316
	22 7.9	6.5	6 29	09 00	253 803

Adjustments
Boat = +1.0
Zero = -1.0
Tide = -1.4
Total = -1.4

76L-298 S & E #307—1-56

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 64+06.48	Sight on 60+06.48	
					DATUM MEAN LOWER LOW WATER	1 ASHORE 60+06.48 N.	
	560	19 49	553	[illegible]			
60+06.48			[illegible]	[illegible]			ADD OFFSET
			[illegible]	[illegible]		100 ft.	450
			65	[illegible]		200 ft.	350
			[illegible]	19 [illegible]		250 ft.	300
			[illegible]	[illegible]			58[illegible]
			75	[illegible]			63[illegible]
[illegible]	1 6	9 5	[illegible]	[illegible]			
			4 7	4 8	16° 48'	121	571
			8 2	1 3	20 41	151	701
			10 9	−1 4	24 45	184	734
			12 2	−2 7	27 44	210	760
			130	−3 5	29 47	229	779
			147	−5 2	30 54	239	789
			175	−8 0	34 59	280	830

Profile No. ____ Notes Red. CWH Plotted CWH Job No. ____ Division No. 16
X-Sec. No. ____ Date 9-24-59 Date 10-2-59 Survey of Beach Erosion
Notes Chkd. [illegible] Checked [illegible] Survey by ____ Notes ____ Date ____
Date 9-29-59 Date 10-5-59 Map No. ____ Inspector C. Johnson Date ____

F. B. 280 Pg. 173

F. B. 2802 Pg. 174 Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH Profile

Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No.

Survey by LINN Notes LINN Notes Chkd. JSH Checked JSH X-Sec.

Indexed Date Date 9-29-59 Date 10-5-59 No.

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

Do not extend notes this side of this line.

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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.

78L-298 S & E #307—1-56

76L298 307 8-53

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. Sight At Ch	#	Color	Time	Hor. Ang.		Remarks
	1		6 41	90 00		Pier at 5½.
	2			" "		550+00
	3			" "		
	4			" "		
	5			" "		
	6			" "		
	7			" "		
	8			" "		
	9			" "		
	10			" "		60+06.48 N
	11			" "		
	12			" "		
	13			" "		
	14			" "		
	15			" "		
	16			" "		
	17			" "		
	18			" "		
	19			" "		
	20			" "		

60+06.48 N

N-2'

N-2'

550'

90°

550' Offset Line

Control Line

N-1'

Profile Notes Red. CWH Plotted CWH Job No. 63.00 Division No. 10 F. B. 2802 Pg. 175
No. Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Study
X-Sec. Notes Chkd. JSH Checked JSH Survey by Notes Date 59
No. Date 9-29-59 Date 10-5-59 Map No. Indexed Q. Jackson

F. B. 2802 PG. 176 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Study | Date 9-24-59 | Date 10-2-59 | No.

Survey by Uhavic | Notes Liden | Notes Chkd. JSH | Checked JSH | X-Sec.

Index [redacted] C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

Inst. Sight At	#	Color	Time	Hor. Ang.	Remarks
60 + 06.48 R					
N-2'					

STATION	B. S.	H. I.	F. S.	ELEV.
	21			
	22			
	23			
	24			
	25			
	26			

76L298 307 8-53

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 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.

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. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		ADD OFFSET	Remarks
72+06.48 N.	N-1	1	25.9	24.3	6 40	48° 28'	1355	1905	RANGE LINE
		2	25.4	23.9		46° 22'	1259	1809	
		3	24.4	22.8		44° 32'	1181	1731	
		4	23.9	22.3		43° 24'	1135	1685	
		5	23.4	21.8		42° 00'	1084	1634	
		6	23.0	21.4		40° 16'	1016	1566	
		7	22.5	20.9		38° 32'	955	1505	
		8	22.9	20.4		36° 46'	896	1446	550.00 OFFSET LINE
		9	21.1	19.5		34° 45'	833	1383	
		10	20.9	19.3		33° 16'	787	1337	
		11	20.6	19.0		3 07?	(N-1)		60+06.48 N. 72+06.48 N.
		12	20.1	18.5		29° 20'	677	1227	
		13	19.5	17.9		27° 24'	622	1172	
		14	19.2	17.6		25° 47'	580	1130	CONTROL LINE
		15	18.9	17.3		24° 36'	550	1100	
		16	18.4	16.8		22° 59'	509	1059	
		17	17.5	15.9		21° 49'	(N-1) 480	1030	
		18	16.9	15.3		21° 07'	463	1013	
		19	16.1	14.5		19° 36'	436	986	
		20	15.3	13.7		18° 50'	409	959	

ADJUSTMENTS
BOAT = -1.0
ZERO = -1.0
TIDE = -1.6
TOTAL = -1.6

CUT-IN LINE

Profile No. ____ Notes Red. CWH Plotted CWH Job No. 03000 Division No. 10 F. B. 2802 Pg. 177
Date 7-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. JSH Checked JSH Survey by LARGENT Notes R. S. Date R-21-59
Date 7-28-59 Date 10-5-59 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.

F. B. 2802 Pg. 178 Job No. 230.02 Division No. 10 Notes Red. CWH Plotted CWH
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No. Profile
Survey by HARRIET STRADER Notes Chkd. JSH Checked JSH X-Sec.
Indexed L. C. Johnson Date Date 9-29-59 Date 10-5-59 No.

STATION		B. S.	H. I.		F. S.	ELEV.			
Inst. At	Sight On	#	Rec.	Depth Adj.	Time	Hor. Ang.		ADD OFFSET	Remarks
		21	14.6	13.0		17° 35'	380	930	Adjustments
		22	13.3	11.7		16° 30'	355	905	Boat = +1.0
		23	12.2	10.6		15° 08'	324	874	Zero = -1.0
		24	10.5	8.9		13° 32'	289	839	Tide = -1.6
		25	9.0	7.4		12° 38'	269	819	Total = -1.6
		26	8.1	6.5	6 43	11° 20'	240	790	
72+06.48 N.	N-1'								

76L-298 CE 307 11-58

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.	Inst. at 68+06.48	Sight on 64+06.48	
		12 [illegible]			DATUM MEAN LOWER LOW WATER	INSHORE 64 + 06.48 H.	
	480	17 54	475	14 74			
64+06.48			[illegible]	[illegible]	550' OFFSET [illegible]		400 OFFSET
			61	[illegible]		100 [illegible]	400 L
			[illegible]	[illegible]		[illegible]	350 L
			65	13 7		200 [illegible]	250 L
			[illegible]	[illegible]		[illegible]	212 L
			[illegible]	[illegible]			629 L
TO [illegible]	2 2	10 6	[illegible]	[illegible]			681 L
			59	47	17° 22'	125	675
			112	-0 6	23 27	174	724
			120	-1 4	26 53	203	753
			150	-4 4	30 50	239	789
			178	-7 2	33 36	266	816

Profile No. _____ Notes Red. CWH Plotted CWH Job No. [illegible] Division No. [illegible]
X-Sec. _____ Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Study
Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible] Date [illegible] 59
Date 9-24-59 Date 10-5-59 Map No. _____ Index [illegible] Date _____

F.B. 2802 PG. 179

F.B. 2802 Pg. 180

Job No. 030002 Division No. 10 Notes Red CWH Plotted CWH Profile

Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No.

Survey by LIWA Notes LIWA Notes Chkd. JSH Checked JSH X-Sec.

Indexed Date Date 9-29-59 Date 10-5-59 No.

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

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
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.

76L-298 CE 307 11-58

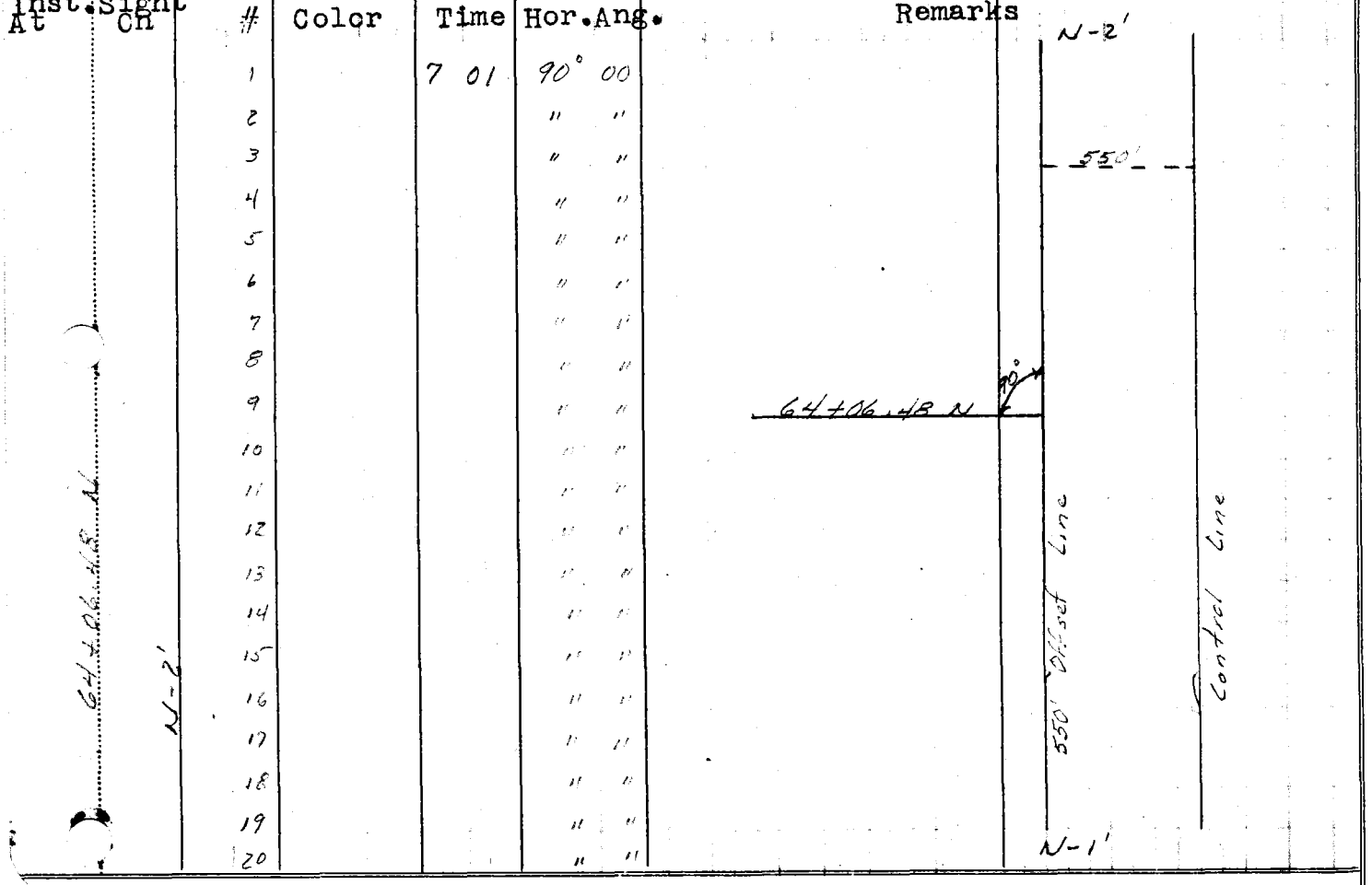
76L298 307 8-53

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. Sight At Ch	#	Color	Time	Hor. Ang.		Remarks
	1		7 01	90° 00		
	2			" "		
	3			" "		
	4			" "		
	5			" "		
	6			" "		
	7			" "		
	8			" "		
	9			" "		64+06.48 N
	10			" "		
	11			" "		
	12			" "		
	13			" "		
	14			" "		
	15			" "		
	16			" "		
	17			" "		
	18			" "		
	19			" "		
	20			" "		



Profile No. ____ Notes Red. CMH Date 9-29-59 Plotted CMH Date 10-2-59 Job No. [redacted] Division No. 16 F. B. 2[redacted] Pg. 181

X-Sec. No. ____ Notes Chkd. JSH Date 9-29-59 Checked JSH Date 10-5-59 Survey of Beach Easter Study Survey by [redacted] Map No. ____ Notes ____ Date ____ Ind[redacted] C. John[redacted]

F. B. 2802 Pg. 182 Job No. 9300.02 Division No. 16 Notes Red. CWH Plotted CWH Profile

Survey of Beach Erosion Study Date 9-24-59 Date 9-24-59 No.

Survey by Hoover Notes Cohen Notes Chkd. JSH Checked JSH X-Sec.

Index C. Johnson Date Date 9-29-59 Date 10-5-59 No.

STATION	B. S.	H. I.	F. S.	ELEV.	Hor. Ang.	Remarks
Inst. Sight On						
64+06.48N						
N-2'						
	#	Color	Time			
	21				90° 00	
	22				" "	
	23				" "	
	24		7 05		" "	

761.298 307 8-53

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 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.

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	B. S. #	H. I. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		ADD OFFSET	Remarks
56+06.48 N.	N-2'	1	30.6	28.7	7 00	65°53	1787	2337	
		2	29.2	27.3		64 07	1649	2199	
		3	27.9	26.0		62 04	1509	2059	
		4	26.5	24.6		59°34	(N-1) 1362	1912	
		5	25.8	23.9		57 24	1251	[illegible]	
		6	24.7	22.8		55 26	1161	1711	
							550.00	OFFSET LINE	
		7	23.9	22.0		53 23	1077	1627	
		8	23.2	21.3		50 23	970	1520	
		9	22.5	20.6		47°56	886	1436	
		10	22.0	20.1		45°04	802	1352 56+06.48 N	
		11	21.4	19.5		42°15	726	1276	
		12	20.7	18.8		39 16	654	1204	
		13	20.4	18.5		37 06	605	1155	
								CONTROL LINE	
		14	19.4	17.5		34 32	550	1100	
		15	18.2	16.3		31 24	489	1039	
		16	17.7	15.8		29°51	461	1011	
		17	16.2	14.3		28°08	(N-1) 428	978	
		18	15.6	13.7		26 27	398	948	
		19	14.3	12.4		24°26	363	913	
		20	13.1	11.2		23 06	342	892	

ADJUSTMENTS
BOAT = +1.0
ZERO = -1.0
TIDE = -1.9
TOTAL = -1.9

BUTTIN LINE
RANGE LINE
N-2'
64+06.48 N
N-2

Profile
Notes Red. CWH Plotted CWH Job No. 2300.02 Division No. 10 F. B. 2800 Pg. 163
No. Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. JSH Checked JSH Survey by HARPER Notes 2113 Date 8-21-59
No. Date 9-24-59 Date 10-3-59 Map No. Index

F. B. 2802 Pg. 184 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of BEACH EROSION STUDIES | Date 9-24-59 | Date 10-2-59 | No.

Survey by HARRIET | Notes STRADER | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | 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.	Remarks
56+06.48 N.					
N-2'					
Inst. Sight At On					
#	Rec. Adj.	Time	Hor. Ang.		
21	11.3	20 27	298	848	ADD OFFSET
22	9.6	18 30	268	818	Adjustments
23	8.2	17 32	253	803	Boat = +1.0
24	6.8	15 42	225	775	Zero = -1.0
	4.9	7 04			Tide = -1.9
					Total = -1.9

76L-298 CE 307 11-58

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	Inst. at 72+06.48	Sight on 68+06.48
					DATUM MEAN LOWER LOW WATER	INSHORE 68+06.48 H.
[illegible]	4.33	19.2[illegible]	[illegible]	[illegible]		
68+06.48			4.9	[illegible]	550' OFFSET LINE	ADJ OFFSET
			5.9	[illegible]	100 R	450 L
			10	[illegible]	200 R	350 L
			[illegible]	[illegible]	300 R	250 L
			4.5	14.8	333' R	217 L EDGE MAC. MARSH EST
			[illegible]	15.2	[illegible]	600 L
			[illegible]	11.3	[illegible]	614 L
[illegible]	1.0	9.2	[illegible]	8.2	[illegible]	645 L
			4.5	4.7	17°00'	122 ✓ 672 ✓
			8.9	0.3	22.45	168 ✓ 718 ✓
			11.0	-1.8	25.29	191 ✓ 741 ✓
			13.0	-3.8	28.35	218 ✓ 763 ✓
			16.0	-6.8	32.36	256 ✓ 805 ✓
			18.0	-8.8	35.30	285 ✓ 835 ✓

Profile No. ____ X-Sec. ____ Notes Red CWH Plotted CWH Job No. [illegible] Division No. 6
Data 9-24-59 Data 10-2-59 Survey of BEACH ELEVATOR
Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible]
Date 9-24-59 Date 10-5-59 Map No. ____ Indexed [illegible] Date [illegible]

F.B. 2802 Pg. 185

F.B. 2802 Pg. 186

Job No. 0300.02 Division No. 10 Notes Red CWH Plotted CWH Profile

Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No.

Survey by LINO Notes LINO Notes Chkd. JSH Checked JSH X-Sec.

Indexed Date Date 9-29-59 Date 10-5-59 No.

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

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76L-298 CE 307 11-58

76L298 307 8-53

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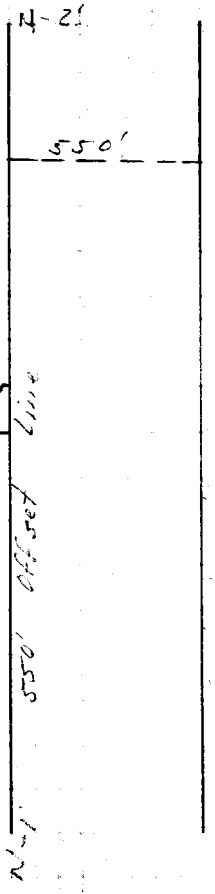
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At Ch	#	Color	Time	Hor. Ang.	Remarks	
	1		7 23	90° 00'		
	2			" "		
	3			" "		
	4			" "		
	5			" "		
	6			" "		
	7			" "		
	8			" "		
	9			" "	68+06.45 N	
	10			" "		
	11			" "		
	12			" "		
	13			" "		
	14			" "		
	15			" "		
	16			" "		
	17			" "		
	18			" "		
	19			" "		
	20			" "		



68+06.45 N

N-2'

Profile Notes Red. CWH Plotted CWH Job No. 3[illegible] Division No. 1
No. Date 9-24-59 Date 10-2-59 Survey of [illegible]
X-Sec. Notes Chkd. JSH Checked JSH Survey by Noted Date
No. Date 9-29-59 Date 10-5-59 Map No. Indexed Date
F. B. 28[illegible] Pg. 187

F. B. 2802 Pg. 188 | Job No. 1300.02 | Division No. 12 | Notes Red. CWH | Plotted CWH | Profile

Survey of East Florence Sta. | Date 9-24-59 | Date 10-2-59 | No.

Survey by Harriet | Notes Lidon | Notes Chkd. JSH | Checked JSH | X-Sec.

Index C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight On	#	Color	Time	Hor. Ang.	
68+06.45 N					
26-2'					
	2				
	2				
	2

76298 S & E #307—7-55

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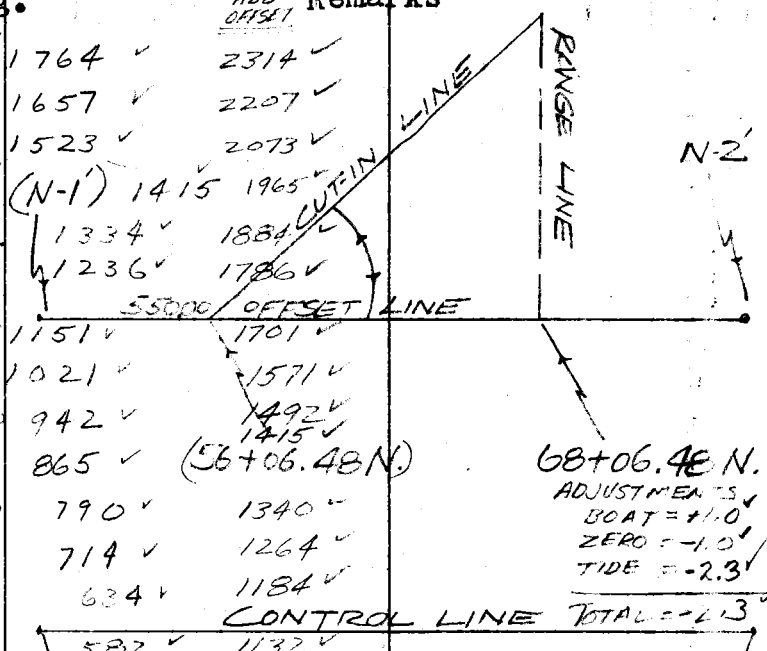
STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.		ADD OFFSET	Remarks
56+06.48 N.	N-2'	1	30.5	28.2	7 22	55° 46'	1764	2314	
		2	30.0	27.7		54° 05'	1657	2207	
		3	28.5	26.2		51° 45'	1523	2073	
		4	27.4	25.1		49° 41'	(N-1') 1415	1965	
		5	26.6	24.3		48° 02'	1334	1884	
		6	26.1	23.8		45° 51'	1236	1786	
		7	25.5	23.2		43° 46'	1151	1701	
		8	24.3	22.0		40° 34'	1021	1571	
		9	23.9	21.6		38° 08'	942	1492	
		10	22.3	20.0		35° 48'	865	1415 (56+06.48 N.)	
		11	22.3	20.0		33° 20'	790	1340	
		12	21.7	19.4		30° 46'	714	1264	
		13	21.0	18.7		27° 51'	634	1184	
		14	20.1	17.8		25° 51'	582	1132	
		15	19.4	17.1		24° 04'	536	1086	
		16	18.9	16.6		22° 16'	(N-1) 491	1041	
		17	17.4	15.1		20° 20'	445	995	
		18	16.1	13.8		18° 58'	413	963	
		19	15.3	13.0		17° 53'	388	938	
		20	14.7	12.4		16° 42'	360	910	



Profile No. ____ Notes Red. CWH Date 9-24-59 Plotted CWH Job No. ____ Division No. REACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. JSH Date 9-24-59 Checked JSH Date 10-5-59 Survey of TRAPPIST Survey by R.I.S. Date 8-21-59 Map No. ____ Inst. ____ Notes ____ F. B. ____ Pg. 189

76298 S & E #307—7-55

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F. B. 7800 Pg. 190 Job No. 2307 Division No. 10 Notes Red. CWH Plotted CWH
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No. Profile
Survey by WAKRIET Notes STRADER Notes Chkd. JSH Checked JSH X-Sec.
Indexed R. C. Johnson Date Date 9-29-59 Date 10-5-59 No.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.		ADD OFFSET	Remarks
56+06.48 N.	N-2'	21	12.9	10.6		15° 24'	330	880	Adjustments
		22	12.2	9.9		14° 40'	314	864	Boat = +1.0
		23	10.9	8.6		13° 20'	284	834	Zero = -1.0
		24	9.8	7.5		12° 28'	265	815	Tide = -2.3
		25	8.5	6.2		11° 43'	248	798	Total = -2.3
		26	6.2	3.9	7 26	09° 45'	206	756	

76L-298 CE 307 11-58

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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 76+06.48	Sight on 72+06.48	
		19 26			DATUM MEAN LOWER LOW WATER	INSHORE 72+06.48 N.	
TP	4 13	19 77	3 -1	15 -2			
72+06.48 N			50	14 0	550' OFFSET LINE		ADJ OFFSET
			56	14 2		100 L	450 L
			51	14 7		200 L	350 L
			53	15 2		300 L	250 L
			48	15 0		340 L	210 L
			62	13 6	37° L. Top. Slope		581
			80	11 8	50° L.		60
TP. For Swing	1 6	9 2	102	7 6	97° L.		647
party only			45	4 7	17 26	126	676
			80	~~0 8~~	21 37	158	708
			107	-1 5	26 15	197	747
			144	-5 2	30 30	236	785
			175	-8 3	35 03	281	831

Profile No. ____ X-Sec. ____ Notes Red. CWH Date 9-24-59 Notes Chkd. JSH Date 9-29-59 Plotted CWH Date 10-2-59 Checked JSH Date 10-5-59 Job No. 030002 Survey of FENCE ELEVATION Survey by [illegible] Map No. ____ Division No. 16 STUDIES Notes [illegible] Date [illegible] Indexed [illegible] Date [illegible]

F.B. 2802 Pg. 191

F. B. 2802 Pg. 192 Job No. 0300.02 Division No. 10 Notes Red CWH Plotted CWH Profile

Survey of BEACH E205104 STUDIES Date 9-24-59 Date 10-2-59 No.

Survey by LIND Notes LIND Notes Chkd. JSH Checked JSH X-Sec.

Indexed Date Date 9-29-59 Date 10-5-59 No.

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

Do not extend notes this side of this line.

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76L-200 CE 307 11-58

76L298 307 8-53

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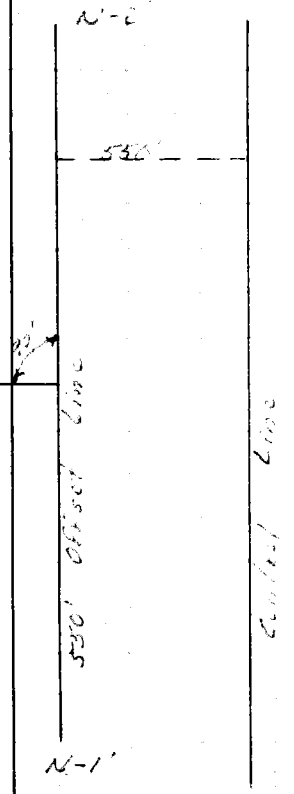
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At Ch	#	Color	Time	Hor. Ang.	Remarks
	1		7 39	90 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	72+06.48 N
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
N-2'	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



Profile No. ____ Notes Red. CWH Plotted CWH Job No. [illegible] Division No. 16 F. B. 2512 Pg. 193
Date 9-24-59 Date 10-2-59 Survey of Beach Estates Study
X-Sec. No. ____ Notes Chkd. JSH Checked JSH Survey by ____ Notes ____ Date ____
Date 9-29-59 Date 10-5-59 Map No. ____ Indexed C. Johnson Date ____

F. B. 2802 Pg. 194 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Broom Study | Date 9-24-59 | Date 10-2-59 | No.

Survey by Wilmot | Notes Lidco | Notes Chkd. JSH | Checked JSH | X-Sec.

Index [redacted] | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight On	#	Color	Time	Hor. Ang.	
22+26 LT					
N-2'					
	23				
	26		2 ½		

Do not extend notes this side of this line.

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76L298 307 8-53

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.

Profile No. ____ Date 9-24-59 Notes Red. CWH Plotted CWH Job No. 030003 Division No. 10 F. B. 2802 Pg. 195
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Date 10-5-59 Map No. ____ Date 10-5-59 Survey of BEACH EROSION STUDIES Survey by HARPLE Notes R.L.S. Date 8-21-59

STATION Inst. At	Sight On	#	B. S. Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.		ADD OFFSET	Remarks
56+06.48 N.	N-2	1	30.4	27.8	7 38	45° 58	1654	2204	
		2	29.0	26.4		44° 02	1547	2097	
		3	27.9	25.3		41° 56	1437	1987	
		4	26.9	24.3		40° 12	(N-1) 1352	1902	
		5	26.2	23.6		38 36	1277	1827	
		6	25.5	22.9		36 14	1194	1744	
							550.00	OFFSET LINE	
		7	24.9	22.3		34 50	1114	1664	
		8	24.3	21.7		32 30	1037	1587	
		9	23.6	21.0		30 50	955	1505	
		10	22.9	20.3		28 30	874	1424 (56+06.48 N.)	
		11	22.6	20.0		26 58	814	1364	
		12	22.2	19.6		24 58	741	1291	
		13	21.7	19.1		23 27	694	1244	
		14	21.2	18.6		22 02	648	1198 CONTROL LINE	
		15	20.7	18.1		20 36	602	1152	
		16	19.9	17.3		19 20	562	1112	
		17	19.0	16.4		17 31	507	1057	
		18	17.8	15.2		16 21	(N-1) 470	1020	
		19	16.8	14.2		15 00	429	979	
		20	15.5	12.9		14 07	402	952	

RANGE LINE

CUT IN LINE

N-1

N-2

72+06.48 N.
ADJUSTMENTS
BOAT = +1.0
ZERO = -1.0
TIDE = -2.6
TOTAL = -2.6

76298 S & E #307—7-55

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Do not extend notes this side of this line.

F. B. 2802 Pg. 196 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile No.
Survey of BEACH EROSION STUDIES | Date 9-24-59 | Date 10-2-59 | X-Sec. No.
Survey by WARRIET STRADER | Notes | Notes Chkd. JSH | Checked JSH
Indexed C. Johnson | Date | Date 9-29-59 | Date 10-5-59

STATION		B. S.	H. I.		F. S.	ELEV.			
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		ADD OFFSET	Remarks
		21	14.9	12.3		13° 10'	374	924	Adjustments
		22	14.0	11.4		13° 01'	342	892	Boat = +1.0
		23	12.2	9.6		12° 50'	306	856	Zero = -1.0
		24	10.7	8.1		12° 41'	275	825	Tide = -2.6
		25	8.9	6.3		08° 52'	250	800	Total = -2.6
56+06.48 N.	N-2'	26	6.8	4.2	7 42	07° 53'	221	771	

76L-296 CE 307 11-58

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STATION	B.S.	H.I.	F.S.	ELEV.	Inst. at 80+06 48	Sight on 76+06 48	
		19 77			DATUM MEAN LOWER LOW WATER	INSHORE 76+06.48 N.	
	422	19 52	443	153			
76+06.48			49	147	550' OFFSET LINE		ADD OFFSET
			61	135		100 R.	450 L
			64	132		200 R.	350 L
			63	133		300 R.	250 L
			52	144		324 R.	226 L
			62	134	442 L. Top Slope		EASEMENT PARCEL 12 594 L
			101	95	952 L.		645 L
TP on Sewer Manhole	12	9 5	113	3	1069 L.		656 L
			48	47	18°30'	134	681
			87	08	2310	171	721
			125	-30	2931	226	776
			160	-65	3338	266	815
			190	-95	3632	296	845

Profile No. ____ Notes Red CWH Plotted CWH Job No. 5302 Division No. 16
X-Sec. ____ Date 9-24-57 Date 10-2-57 Survey of BEACH EROSION STUDIES
Notes Chkd. ____ Checked JSH Survey by ____ Notes ____ Date 6-7-59
Date 9-24-57 Date 10-5-57 Map No. ____ Indexed C. Johnson Date

F.B. 2802 Pg. 137

F.B. 2802 PG. 198

Job No. 0300.02 Division No. 10 Notes Red CWH Plotted CWH Profile

Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No.

Survey by LIND Notes LIND Notes Chkd. JSH Checked JSH X-Sec.

Indexed Date Date 9-29-59 Date 10-5-59 No.

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

Do not extend notes this side of this line.

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76L-200 CE 307 11-58

76L298 307 8-53

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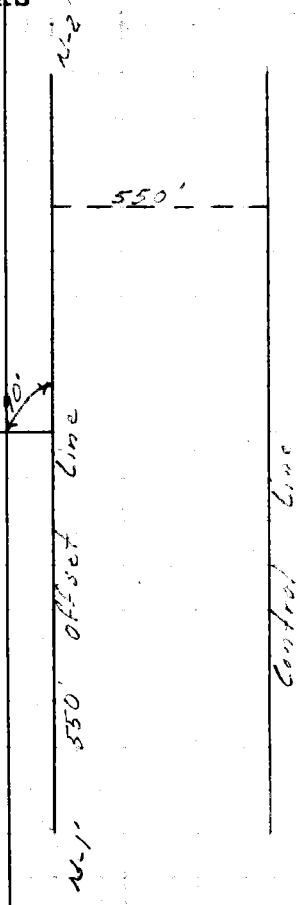
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At CH	#	Color	Time	Hor. Ang.	Remarks
	1		7 51	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	76+06.02 N
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



76+06.02 N.S.

N-2'

Profile No. ____ Notes Red. CWH Date 9-24-59 Plotted CWH Date 10-2-59 Job No. 03[illegible] Division No. 16 F. B. 25[illegible] Pg. 199

X-Sec. No. ____ Notes Chkd. [illegible] Date 9-29-59 Checked JSH Date 10-5-59 Survey of Beach Estates Tract Survey by [illegible] Map No. ____ Notes Date ____ Indexed [illegible] Date ____

F. B. 2802 Pg. 200 | Job No. 2300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Study | Date 9-24-59 | Date 10-2-59 | No.

Survey by Wharriet | Notes Liden | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OR	#	Color	Time	Hor. Ang.	
26+06.48N					
N-2'					

Do not extend notes this side of this line.

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76L298 307 8-53

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.

Profile No. ____ Date 9-24-57 Notes Red. CWH Plotted CWH Job No. 03202 Division No. 10 F. B. 2802 Pg. 201
X-Sec. No. ____ Date 9-29-58 Notes Chkd. JSH Checked JSH Date 10-2-57 Survey of REVISE EROSION STUDIES Survey by MAPPING Date 9-21-55 Map No. ____ Indexed ____

STATION Inst. At	Sight On	B. S. #	H. I. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.			Remarks
								ADD OFFSET	
		1	29.7	26.9	750	38° 17'	1578	2128	
		2	28.2	25.3		36° 24'	1474	2024	
		3	28.0	25.1		35° 00'	1400	1950	
		4	27.0	24.1		33° 46' (N-1)	1338	1888	CUT IN LINE
		5	26.7	23.8		31° 32'	1228	1715	
		6	25.7	22.8		29° 56'	1152	1702	
							550.00	0 FFSET	
		7	25.2	22.3		28° 05'	1068	1618	LINE
		8	24.6	21.7		26° 46'	1008	1558	
		9	23.9	21.0		25° 15'	944	1494	
		10	23.5	20.6		23° 54'	886	1436	(56+06.48 N.)
		11	23.1	20.2		22° 34'	832	1382	
		12	22.5	19.6		20° 59'	768	1318	
		13	22.0	19.1		19° 24'	704	1254	
		14	21.3	18.4		17° 53'	646	1196	CONTROL LINE
		15	20.9	18.0		16° 46'	602	1152	
		16	20.2	17.3		15° 23'	550	1100	
		17	19.7	16.8		13° 27'	478 (N-1)	1028	
		18	17.8	14.9		12° 20'	438	988	
		19	16.1	13.2		11° 16'	398	948	
		20	15.2	12.3		10° 37'	374	924	

56+06.48 N.

N-2

BANGE LINE

N-2

76+06.48 N.

ADJUSTMENTS
BOAT = +1.0
ZERO = -1.0
TIDE = -2.9
TOTAL = -2.9

76298 S & E #307—7-55

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Do not extend notes this side of this line.

F. B. 7302 Pg. 202 Job No. 03002 Division No. 10 Notes Red. CWH Plotted CWH
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No. Profile
Survey by CHARLIET Notes STRADER Notes Chkd. JSH Checked JSH X-Sec.
Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

STATION	B. S.	H. I.	F. S.	ELEV.			
Inst. At / Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.		ADD OFFSET	Remarks
	21	14.1 / 11.2		09° 50'	346	896	Adjustments
	22	13.1 / 10.2		08° 52'	312	862	Boat = +1.0
	23	11.2 / 8.3		08° 16'	290	840	Zero = -1.0
	24	10.2 / 7.3		07° 37'	268	818	Tide = -2.9
	25	9.8 / 6.9	7 53	06° 48'	238	788	Total = -2.9
56+06.48 N.							
N-2'							

76L-298 CE 307 11-58

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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 84+06.48	Sight on 80+16.48
		19 55			DATUM MEAN LOWER LOW WATER	80 + 06.48 H INSHORE
	421	19 67	416	15 40		
80 + 06.48			49	14 7	550' OFFSET LINE	ADD OFFSET
			68	12 8		100 L. 450 L
			77	11 9		200 L. 350 L
			51	14 5		300 L. 250 L
			48	14 8		320 L. 230 L EXPS. LINE PARKING
			76	12 0	93 L. Top Slope	643
TR FOR SWIM PARTY ONLY	0 6	9 5	107	8 9	110 "	660
			48	4 7	19°13'	140 690
			98	-0 3	2427	182 732
			132	-3 7	3047	238 788
			175	-8 0	3457	280 830

Profile No. ____ Notes Red. CWH Plotted CWH Job No. 6300 02 Division No. 16
X-Sec. ____ Date 9-24-57 Date 10-2-57 Survey of Beach Erosion Study
Notes Chkd. JSH Checked JSH Survey by Lund Notes Lund Date 9-19-57
Date 9-29-57 Date 10-5-57 Map No. ____ Indexed ____ Notes ____ Date ____

F.B. 2802 Pg. 203

F.B. 2802 Pg. 204

Job No. 030012 Division No. 19 Notes Red CWH Plotted CWH Profile

Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No.

Survey by LIKO Notes LIKO Notes Chkd. JSH Checked JSH X-Sec.

Indexed Date Date 9-29-59 Date 10-5-59 No.

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

76L-296 CE 307 11-58

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76L298 307 8-53

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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. Sight At Ch	#	Color	Time	Hor. Ang.	Remarks
	1		8 14		
	2				
	3				
	4				
	5				
	6				
	7				
	8				
	9				
	10				
	11				
	12				
	13				
	14				
	15				
	16				
	17				
	18				
	19				
	20				

550'

80+06.48 N

70°

5350 DA-SET CURB

N-1'

EC 46.48 N

N-2'

Profile Notes Red. CWH Plotted CWH Job No. [illegible] Division No. 16 F. B. [illegible] Pg. 205
No. Date 9-24-59 Date 10-2-59 Survey of Beach Estates Stadt
X-Sec. Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes Date
No. Date 9-29-59 Date 11-5-59 Map No. [illegible] [illegible] C. Johnson

F. B. 2802 Pg. 206 | Job No. 2300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Study | Date 9-24-59 | Date 10-2-59 | No.

Survey by Uhariet | Notes Liden | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight At OR # Color Time Hor. Ang.	Remarks
80+06.48 N						
N-2'						
	21					
	22					
	23					
	24					
	25					
	26		8 12			

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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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. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.			Remarks
72+06.48 N.	N-2	1	30.1	26.7	8 13	63°04'	1574	2124	ADD OFFSET
		2	29.2	25.8		61°15'	1458	2008	
		3	28.0	24.6		59°34'	1362	1912	
		4	27.2	23.8		57°53'	(N-1) 1274	1824	CUT-IN LINE
		5	26.5	23.1		56°15'	1198	1748	
		6	25.8	22.4		54°40'	1129	1679	
							550.00		OFFSET LINE
		7	25.1	21.7		52°47'	1054	1604	
		8	24.6	21.2		50°40'	976	1526	
		9	24.1	20.7		48°32'	906	1456	
		10	23.7	20.3		46°26'	841	(72+06.48 N) 1391	80+56.48 N.
		11	22.6	19.2		43°54'	770	1320	
		12	22.1	18.7		41°26'	706	1256	
		13	21.8	18.4		38°37'	639	1189	
		14	20.9	17.5		36°02'	582	1132	CONTROL LINE
		15	20.0	16.6		33°19'	526	1076	
		16	18.9	15.5		31°14'	(N-1) 485	1035	
		17	17.5	14.1		29°12'	447	997	N-2
		18	16.8	13.4		27°28'	416	966	
		19	15.4	12.0		25°35'	383	933	
		20	14.4	11.0		23°38'	350	900	

RANGE LINE

ADJUSTMENTS
BOAT = +1.0
ZERO = -1.1
TIDE = -3.3
TOTAL = -3.4

N-2

Profile No. ____ Notes Red. CWH Date 9-24-59 Plotted CWH Job No. 0200.04 Division No. 10 F. B. 2802 Pg. 207
X-Sec. No. ____ Notes Chkd. JSH Date 9-29-59 Checked JSH Date 10-5-59 Survey of BEACH EROSION STUDIES Map No. ____ Survey by HARRIET & ASSOC. Notes R.L.S. Date 9-21-59 Instr. 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 IN INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F. B. 2802 Pg. 208 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH
Survey of BEACH EROSION STUDIES | Date 9-24-59 | Date 11-2-59 | No.
Survey by HARRIET | Notes STRADER | Notes Chkd. JSH | Checked JSH | X-Sec.
Indexed C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.
Profile

STATION Inst. At	Sight On	S. S. #	H. I. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		ADD OFFSET	Remarks
72+06.48 N	N-2'	21	13.3	9.9		22° 25'	330	850	Adjustments
		22	11.8	8.4		20° 54'	306	856	Boat = +1.0
		23	10.4	7.0		19° 23'	282	8[illegible]	Zero = -1.1
		24	8.2	4.8		17° 46'	256	806	Tide = -3.3
		25	6.8	3.4		16° 26'	236	786	Total = -3.4
		26	5.7	2.3	8 16	15° 07'	216	766	

76L-298 CE 307 11-58

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	Inst at 84+06.48	Sight on 82+06.48	
		19 6			DATUM MEAN LOWER LOW WATER	INSHORE 82 + 06.48 N.	
TP	430	19 2	455	15 0			
82+06.48			29	14 4	550' OFFSET	LINE	ADD OFFSET
			27	12 4		100° R.	450 L
			67	12 2		200° R.	350 L
			48	12 3		300° R.	250 L
			47	12 2		3 19° R.	231 L Edge of Machines
			55	13 8	49° L. Bem		594 L C.F.
			73	11 5	55° L. Top Slope.		633 L
TP for SWA Party only	1 1	9 5	[illegible]	8 4	[illegible]		660 L
			48	4 7	30° 17'	152	702
			84	1 1	4250	185	735
			112	-1 7	4700	214	764
			150	-5 5	5145	254	804
			200	-10 5	5800	320	870

Profile No. ____ Notes Rod. CWH Plotted CWH Job No. 0300-02 Division No. 16
X-Sec. No. ____ Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
Notes Chkd. ____ Checked ____ Survey by ____ Notes [redacted] Date 8-21-59
Date 9-29-59 Date 10-5-59 Map No. ____ Indexed ____ Date ____

F.B. 28802 Pg. 209

F.B. 2802 PG. 210

Job No. 6300.02 Division No. 10 Notes Red CWH Plotted CWH Profile

Survey of BEACH EROSION STU 0161 Date 9-24-59 Date 10-2-59 No.

Survey by LINO Notes LINO Notes Chkd. JSH Checked JSH X-Sec.

Indexed Date Date 9-29-59 Date 10-5-59 No.

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

Do not extend notes this side of this line.

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76L-266 CE 307 11-58

76L298 307 8-53

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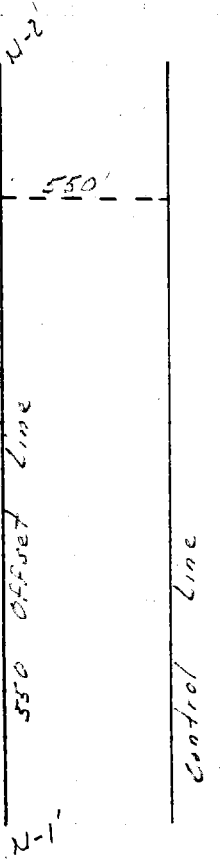
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. Sight At	CH	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
		1		8 24	90 00	
		2			" "	
		3			" "	
		4			" "	
		5			" "	
		6			" "	
		7			" "	
		8			" "	
		9			" "	82+06.48 N
		10			" "	
		11			" "	
		12			" "	
		13			" "	
		14			" "	
82+06.48 N	N-2'	15			" "	
		16			" "	
		17			" "	
		18			" "	
		19			" "	
		20			" "	



Profile Notes Red CWH Plotted CWH Job No. 03600 Division No. 10 F. B. 2500 Pg. 211
No. Date 9-24-59 Date 10-2-59 Survey of Beach Easing Study
X-Sec. Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes [illegible] Date [illegible]
No. Date 9-24-59 Date [illegible] Map No. Index C. Johnson

F. B. 2802 Pg. 212 | Job No. 0300.02 Division No. 10. Notes Red. CWH Plotted CWH

Survey of Beach Erosion Study Date 9-24-59 Date 10-2-59 No.

Survey by Uharriet Notes Lider Notes Chkd. JSH Checked JSH

Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

Profile

X-Sec.

761.298 307 8-53

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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 OR	#	Color	Time	Hor. Ang.	
82+06.48N					
N-2'					

76298 S & E #307—7-55

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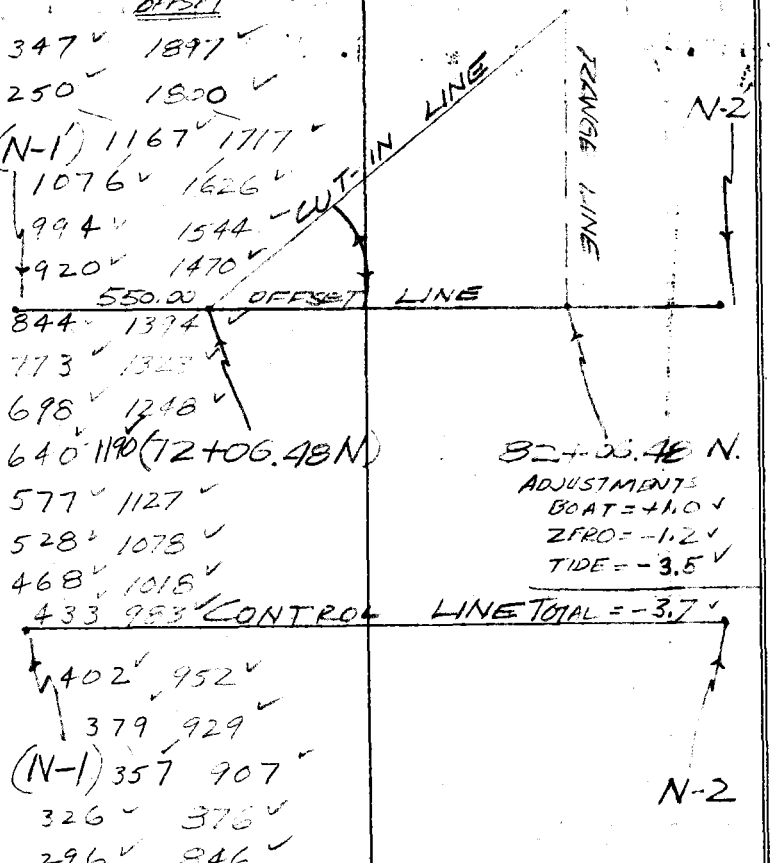
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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.	ADD OFFSET	Remarks
72+06.48 N.	N-2'	1	28.0	24.3	8 22	52°24'	1347 1897	
		2	27.3	23.6		51°26'	1250 1800	
		3	26.3	22.6		49°25'	(N-1) 1167 1717	
		4	25.6	21.9		47°06'	1076 1626	
		5	24.7	21.0		44°49'	994 1544	
		6	24.4	20.7		42°36'	920 1470	
		7	23.8	20.1		40°10'	550.00 OFFSET LINE 844 1374	
		8	23.0	19.3		37°42'	773 1329	
		9	22.3	18.6		34°56'	698 1248	
		10	21.9	18.2		32°36'	640 1190 (72+06.48 N)	
		11	20.7	17.0		30°00'	577 1127	
		12	19.2	15.5		27°50'	528 1078	
		13	18.1	14.4		25°05'	468 1018	
		14	16.9	13.2		23°24'	433 983 CONTROL	
		15	15.7	12.0		21°54'	402 952	
		16	15.4	11.7		20°45'	379 929	
		17	14.3	10.6		19°40'	(N-1) 357 907	
		18	13.2	9.5		18°04'	326 876	
		19	11.5	7.8		16°30'	296 846	
		20	9.7	6.0		15°21'	275 825	



82+00.48 N.
ADJUSTMENTS
BOAT = +1.0
ZERO = -1.2
TIDE = -3.5
LINE TOTAL = -3.7

Profile Notes Red. Plotted Job No. 2300.07 Division No. 10 F. B. 2802 Pg. 213
No. Date 2-24-59 Date 10-2-59 Survey of FALLS EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by Notes Date 2-21-59
No. Date 9-29-59 Date 10-3-59 Map No. Indexed C. J. [illegible]

F. B. 2802 Pg. 214 | Job No. 030002 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of BEACH EROSION STUDIES | Date 9-24-59 | Date 10-2-59 | No.

Survey by HARRIET | Notes STRADER | Notes Chkd. JSH | Checked JSH | X-Sec.

Index C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | 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
72+06.48 N.					
N-2'					
Inst. Sight At On	# Depth Rec. Adj.		Time	Hor. Ang.	
	21 7.5	3.5	8 26	14° 05'	251' 80'
	22 5	2.0			

Adjustments

Boat = +1.0

Zero = -1.2

Tide = -3.5

Total = 3.7

76L-298 CE 307 11-58

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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 N-2'	Sight on 84+06.48
		19 26			DATUM MEAN LOWER LOW WATER	INSHORE
	431	18 79	478	14 48		84 + 06.48 N.
84+06.48			50	[illegible]	556' OFFSET LINE	ADJ OFFSET
			58	[illegible]	100° R.	450 L
			61	[illegible]	200° R.	350 L
			48	[illegible]	300° R.	250 L
			70	[illegible]	315° R.	235 L
			63	[illegible]	64° L. To Slope	614 L
TP for survey party only	06	9 4	160	[illegible]	99 L.	649 L
			47	47	25° 09'	156	706
			72	22	28 37	181	731
			127	-33	37 30	254	804
			150	-56	40 21	281	831
			165	-71	41 38	294	844
			176	-82	42 37	305	855

Profile Notes Red CWH Plotted CWH Job No. 5300-02 Division No. 5
No. X-Sec. Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
No. Notes Chkd. WH Checked JSH Survey by [illegible] Notes [illegible] Date [illegible]
Date 9-24-59 Date 10-5-59 Map No. Indexed Date

F.B. 2802 Pg. 215

F.B. 2802 Pg. 216

Job No. 0300.02 Division No. 10 Notes Red CWH Plotted CWH Profile

Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No.

Survey by LIND Notes LIND Notes Chkd. JSH Checked JSH X-Sec.

Indexed Date Date 9-29-59 Date 10-5-59 No.

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

Do not extend notes this side of this line.

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L-208 CE 307 11-58

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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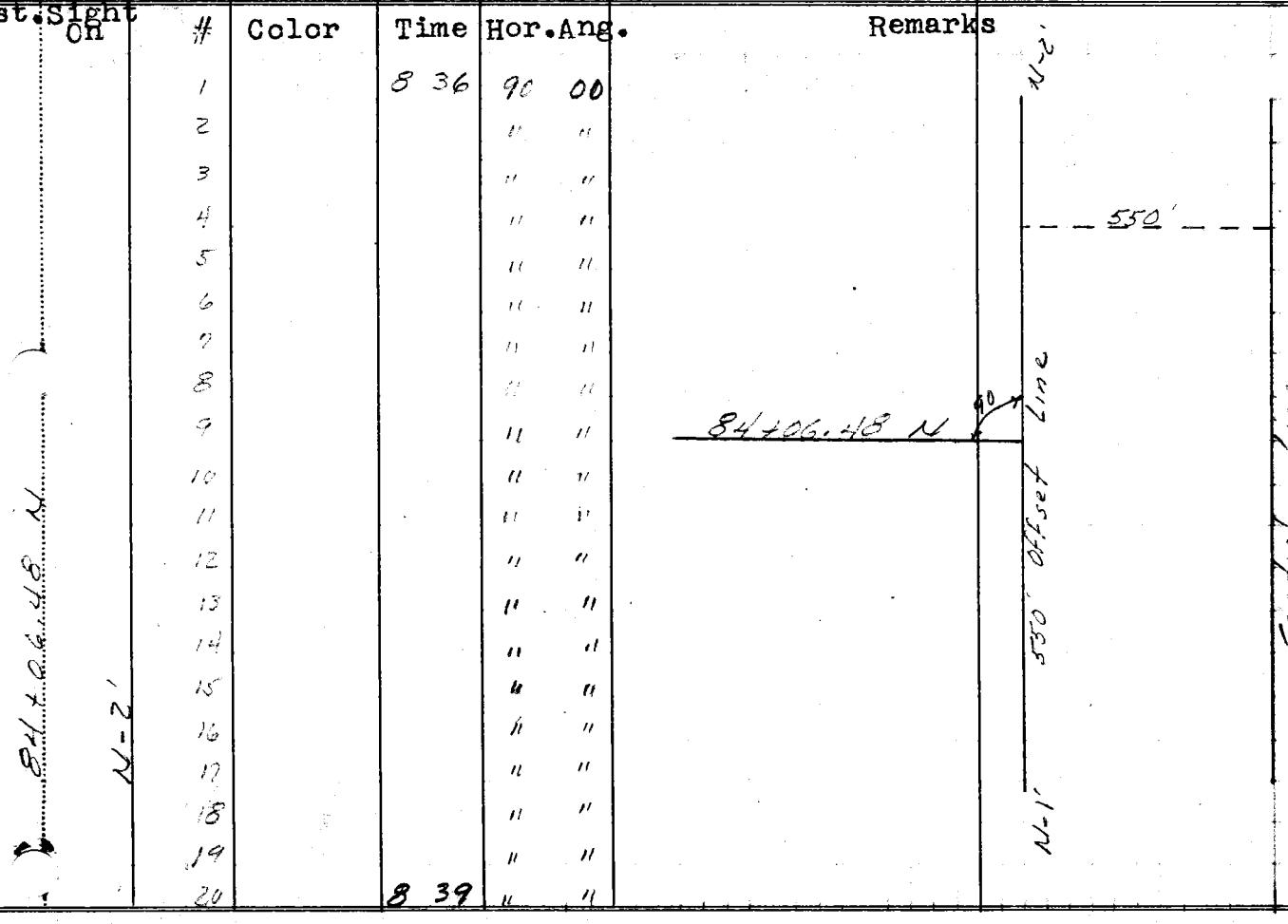
Do not extend notes this side of this line.

Profile No. ____ X-Sec. No. ____ Notes Red. CWH Plotted CWH Job No. 2300.02 Division No. 11 F. B. 2562 Pg. 217
Date 9-24-59 Date 10-2-59 Survey of Beach Fishing Study
Notes Chkd JSH Checked JSH Survey by [illegible] Notes [illegible] Date 8-21-59
Date 9-29-59 Date 11-5-59 Map No. ____ Indexed C. J. [illegible] Date ____

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		8 36	90 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	84+06.48 N
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20		8 39	" "	



F. B. 2802 Pg. 218 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Study | Date 9-24-59 | Date 10-2-59 | No.

Survey by Wharrie | Notes Liden | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed E. C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
E4+06.48 N					
N - 2'					

Inst. Sight At OR # Color Time Hor. Ang.

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

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76L298 307 8-53

76298 S & E #307—7-53

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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
72+06.48 N.	N-2'	1	28.7	24.8	8°35'	49° 21'	1398	1948	
		2	28.5	24.6		47° 05'	1291	1841	
		3	27.0	23.1		45° 00'	1200	1750	
		4	26.1	22.2		42° 32'	(N-1) 1100	1650	
		5	25.7	21.8		40° 22'	1020	1570	
		6	24.3	20.4		37° 50'	932	1482	
		7	24.3	20.4		35° 22'	550.00	OFFSET	LINE
		8	23.3	19.4		33° 09'	852	1402	
		9	22.8	18.9		30° 22'	784	1334	
		10	21.9	18.0		27° 47'	703	1253	
		11	21.0	17.1		25° 25'	632	1182 (72+06.48 N.)	
		12	19.2	15.3		22° 02'	570	1120	
		13	16.7	12.8		20° 33'	510	1060	
		14	16.2	12.3		19° 26'	450	1000	
		15	15.9	12.9		17° 43'	424	974	CONTROL LINE
		16	14.0	10.1		16° 32'	383	933	
		17	13.8	9.9		15° 48'	356	906	
		18	12.4	8.5		14° 56'	340	890	
		19	11.3	7.4		13° 57'	(N-1) 320	870	
		20	10.2	6.3	8 38	13° 12'	298	848	
							282	832	

AVG OFFSET

WT-IN LINE

RANGE LINE

N-2'

N-2

84+06.48 N.

ADJUSTMENTS
BOAT = +1.0
ZERO = -1.1
TIDE = -3.8
TOTAL = -3.9

Profile No. ____ Notes Red. CWH Plotted CWH Job No. ____ Division No. 10 F. B. 2902 Pg. 219
Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date ____
Date 9-29-59 Date 10-5-59 Map No. ____ Inspector ____

F. B. 2302 Pg. 220 Job No. 030007 Division No. 10 Notes Red. CWH Plotted CWH Profile

Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No.

Survey by HARRIET Notes STRADER Notes Chkd. JSH Checked JSH X-Sec.

Index C. Johnson Date Date 9-29-59 Date 10-5-59 No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At	Sight On	Depth Rec.	Adj.	Time	Hor. Ang.
72+06.48 N.					
	N-2'				

76298 S & E #307—7-55

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76L-298 CE 307 11-58

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STATION	B.S.	H.I.	F.S.	ELEV.	last at 9+87.12	Sight on 87+87.17
		13 73			DATUM MEAN LOWER LOW WATER	INSHORE
TP	475	19 24	400	14 4		87 + 87.17 N.
						ADD OFFSET
3+00			49	14 3	550' OFF	Line
			60	13 2		100 R. 450
			55	13 7		200 R. 350
			48	14 2		300 R. 250
			36	14 4		360 R. 190
						The Line
			58	140	42 L.	Toe 592
			76	4 2	14 L.	Top Slope 544
TP for Rod	1 3	9 3	112	8 0	27 L.	527
			46	4 7	23 00	170 720
			90	0 3	27 45	210 760
			114	-2 1	32 30	255 805
			144	-5 1	35 05	281 831
			165	-7 2	37 25	306 856

Profile No. ____ X-Sec. No. ____ Notes Rcd. CWH Date 9-24-59 Notes Chkd. ____ Date 9-29-59 Plotted CWH Date 10-2-59 Checked ____ Date 10-5-59 Job No. ____ Survey of Beach Elysian Fields Survey by ____ Map No. ____ Indexed ____ Division No. 6 Notes ____ Date ____ Notes ____ Date ____

F. B. 2802 Pg. 221

F.B. 2802 Pg. 222 | Job No. 0300102 | Division No. 10 | Notes Red CWH | Plotted CWH | Profile

Survey of BEACH BOULEVARD STUDIES | Date 9-24-59 | Date 10-2-59 | No.

Survey by [illegible] | Notes [illegible] | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed | Date | Date 9-29-59 | Date 10-5-59 | No.

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

Do not extend notes this side of this line.

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76L-296 CE 307 11-58

76L298 307 8-53

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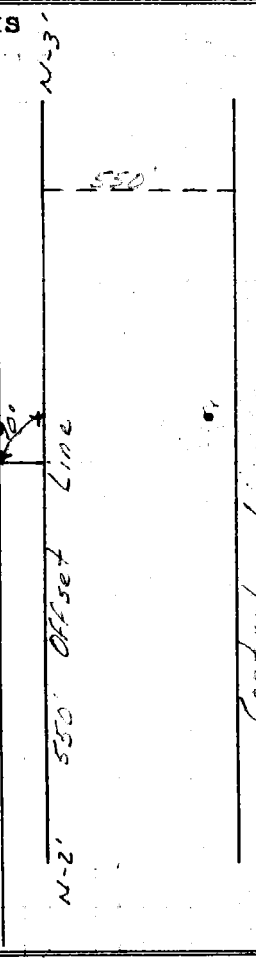
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.	Remarks
Inst. Sight At Ch	#	Color	Time	Hor. Ang.	
	1		9 06	90 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	87+87.12 N
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



87+87.12 N

N-3'

Profile No. ____ Notes Red. CWH Plotted CWH Job No. 2[illegible] Description No. 10 F. B. [illegible] Pg. 223
X-Sec. No. ____ Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Study
Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible] Date [illegible]
Date 9-29-59 Date [illegible] Map No. ____ Indexed [illegible] C. Johnson

F. B. 2801 Pg. 224 Job No. 0300.03 Division No. 1.0 Notes Red. CWH Plotted CWH Profile

Survey of Beach Erosion Study Date 9-29-59 Date 10-2-59 No.

Survey by Uharriet Notes Liden Notes Chkd. JSH Checked JSH X-Sec.

Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight At	#	Color	Time	Hor. Ang.	Remarks
87+87.12 N					ON					
N-3'						21		9 09	90 00	
						22				

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76L298 307 8-53

76298 S & E #307—7-55

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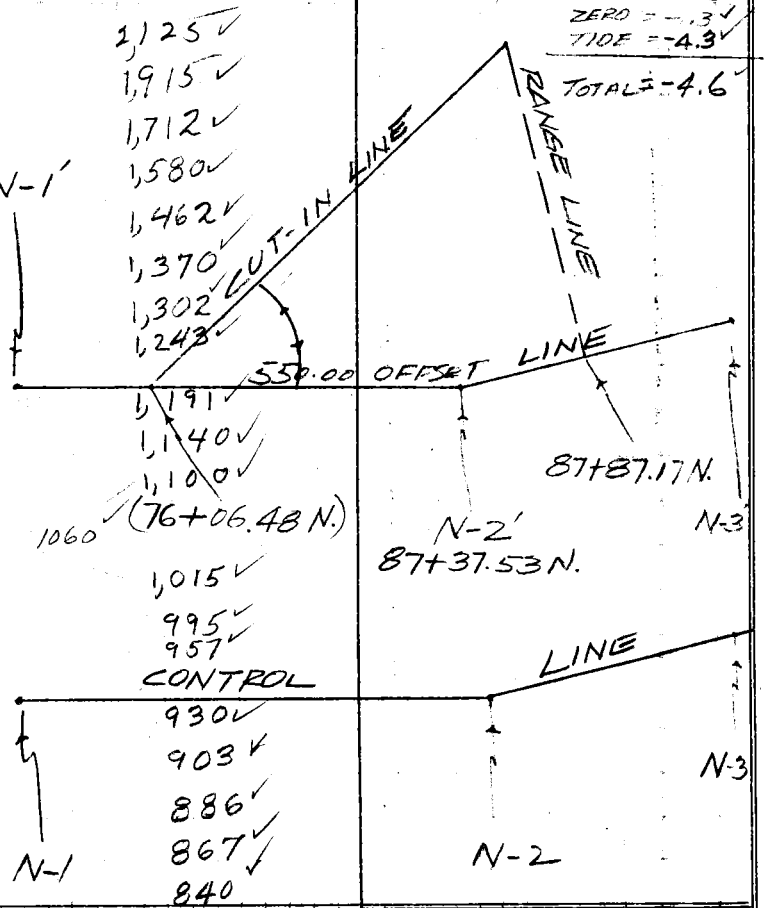
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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
76+06.48 N.	N-2'		1	30.4	25.8		9 05		54° 30'	1,125
			2	28.4	23.8				50° 23'	1,915
			3	26.8	22.2				45° 38'	1,712
			4	25.6	21.0				42° 02'	1,580
			5	24.8	20.2				38° 30'	1,462
			6	24.2	19.6				35° 30'	1,370
			7	24.0	19.4				33° 08'	1,302
			8	23.9	19.4				31° 00'	1,243
			9	22.9	18.3				29° 00'	1,191
			10	22.2	17.6				27° 00'	1,140
			11	21.1	16.5				25° 24'	1,100
			12	20.4	15.8				23° 44'	1060 (76+06.48 N.)
			13	19.1	14.5				21° 48'	1,015
			14	17.7	13.1				20° 57'	995
			15	17.1	12.5				19° 21'	957 CONTROL
			16	15.7	11.1				18° 07'	930
			17	15.1	10.5				16° 50'	903
			18	13.3	8.7				16° 09'	886
			19	11.7	7.1				15° 15'	867
			20	9.8	5.2				14° 00'	840



Profile No. ____ Notes Red. CWH Plotted CWH Job No. 3000 Division No. 10 F. B. 2802 Pg. 22
Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by W. KIRTLEY Notes F. T. Date 8-31-59
Date 9-29-59 Date 10-5-59 Map No. ____ Inspect. 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	8.2	3.6		12° 54'	817
		22	6.9	2.3	9 08	12° 08'	800
76+06.48 N.	N-2'						

Adjustments
Boat = +1.0
zero = -1.3
Tide = -4.3
Total = -4.6

F. B. 2802 Pg. 226 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile
Survey of BEACH PROFILE STUDIES | Date 9-24-59 | Date 10-2-59 | No. | X-Sec.
Survey by CLARKIET | Notes STRADER | Notes Chkd. JSH | Checked JSH
Indexed C. Tabasco | Date | Date 9-27-59 | Date 10-5-59 | No.

76L-298 CE 307 11-58

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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 95+87.12	Sight on 91+87.17	
		19 24			DATUM MEAN LOWER LOW WATER	INSHORE 91+87.17 H.	
	4 59	19 84	3 99	15 25			
91+87.17 H			5 0	14 8	550' OFFSET	LINE	ADD OFFSET
			4 8	15 8		100° R.	450
			5 8	14 0		200° R.	350
			4 6	15 2		300° R.	250
			3 4	16 4		363° R.	187 Tan Line
			5 5	14 3	14° L.	Sta.	564
			8 5	11 3	11° L.	Topsoil	661
Tan line with Harty Alley	0 8	10 3	10 3	9 2	12° L.		671
			56	4 7	22° 08'	163	713
			10 8	-0 5	28 30	217	767
			14 1	-3 8	33 00	260	810
			16 0	-5 7	35 18	283	833
			17 0	-6 7	36 51	300	850

Profile Notes Red CWH Plotted CWH Job No. 0300-02 Division No. 10
No. X-Sec. Date 9-24-59 Date 10-2-59 Survey of Station Station
No. Date 9-29-59 Notes Chkd. JSH Checked JSH Survey by Field Notes Date 9-21-59
Date 10-5-59 Map No. Index H. C. Johnson

F.B. 2602 Pg. 227

F.B. 2802 PG. 228 Job No. 0300.02 Division No. 10 Notes Red CWH Plotted CWH Profile

Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No.

Survey by LINN Notes LINN Notes Chkd. JSH Checked JSH X-Sec.

Indexed Date Date 9-29-59 Date 10-5-59 No.

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

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76L-200 CE 307 11-58

76L298 307 8-58

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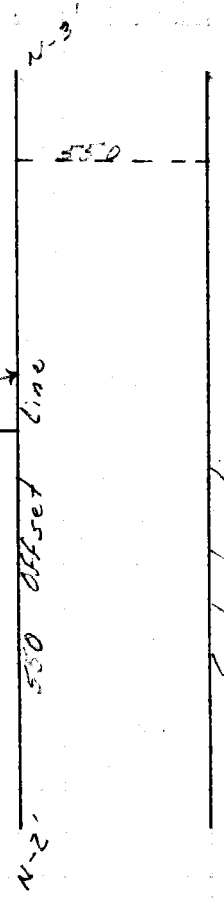
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At Ch	#	Color	Time	Hor. Ang.	Remarks
	1		9 17	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	91+87.12 N
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
N-3'	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20		9 20	" "	



Profile No. ____ Notes Red. CWH Plotted CWH Job No. 2800 Division No. 10 F. B. 2513 Pg. 229
Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Study
X-Sec. No. ____ Notes Chkd. JSH Checked JSH Survey by ____ Notes ____ Date ____
Date 9-29-59 Date 10-5-59 Map No. ____ Index C. Johnson

F. B. 2802 PG. 230 | Job No. 0300.07 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Study | Date 9-24-59 | Date 10-2-59 | No.

Survey by Uhouiet | Notes Liden | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight At	#	Color	Time	Hor. Ang.	Remarks
91+87.17 N					ON	21			90° 00	
N-3'						22				
						23				
						24				

Do not extend notes this side of this line.

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L298 307 8-53

76298 S & E #307—7-55

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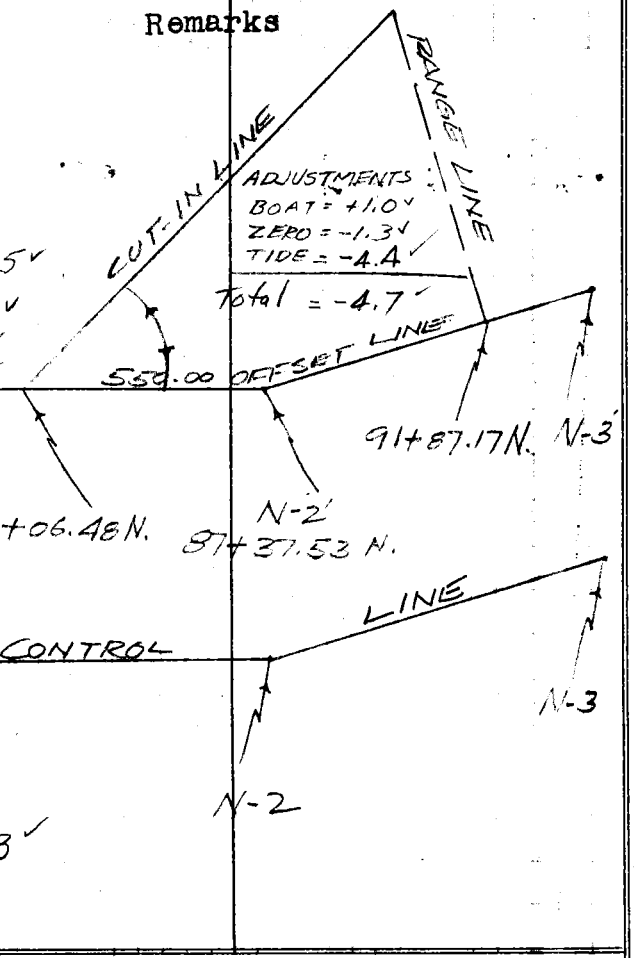
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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
76+06.48 N.	N-2'	1	27.8	23.1	9 16	39° 38'	1807
		2	26.9	22.2		36° 38'	1678
		3	25.9	21.2		33° 35'	1560
		4	25.2	20.5		30° 46'	1456
		5	24.6	19.9		28° 25'	(N-1) 1375
		6	23.6	18.9		25° 39'	1280
		7	23.1	18.4		23° 16'	1206
		8	22.3	17.6		21° 45'	1154
		9	22.2	17.5		20° 20'	1113
		10	20.7	16.0		18° 50'	1067
		11	19.5	14.8		17° 45'	1034 76+06.48 N.
		12	18.5	13.8		16° 40'	1002
		13	17.0	12.3		15° 40'	974
		14	16.9	12.2		14° 44'	946 CONTROL
		15	14.4	9.7		13° 46'	918
		16	13.7	9.0		12° 58'	895
		17	12.3	7.6		12° 15'	875
		18	10.3	5.6		11° 29'	(N-1) 853
		19	9.2	4.5		11° 00'	839
		20	7.9	3.2	9 19	10° 25'	823



Profile Notes Red. HH Plotted CWC Job No. 2800 Division No. 10 F. B. 2602 Pg. 231
No. Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. JSH Checked JSH Survey by WHAPPICH Notes 8-15 Date 8-21-59
No. Date 9-29-59 Date 10-5-59 Map No. Index C. Johnson

F. B. 2802 Pg. 232 | Job No. 0300P2 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of BEACH EROSION STUDIES | Date 9-24-59 | Date 10-2-59 | No.

Survey by HARRIET STRADER | Notes | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed [redacted] C. JOHNSON | Date | Date 9-29-59 | Date 10-5-59 | 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
76+06.48 N.					Inst. At
N-2'					Sight On
					# Rec.
					Depth Adj.
					Time
					Hor. Ang.

76L-298 CE 307 11-58

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	Inst. at 99+87.12	Sight on 95+87.17
		19 34			DATUM MEAN LOWER LOW WATER	INSHORE 95+87.17 N.
TP.	4 02	19 66	4 30	15 0		
95+87.17			50	14 7	550' OFFSET	LINE AD. OFFSET
			56	14 4		100 R. 450 L
			58	13 9		200 R. 350 L
			47	15 0		300 R. 250 L
			27	17 0		170 L
			57	13 0	17 L. Bank	380 R. Top Slope
			95	10 2	100 L. Top Slope	56 L
TP. for [illegible]	1 2	9 9	110	8 7	121 L.	650 L
			52	4 7	23 02	671 L
			92	0 7	28 05	170 726
			130	-3 1	33 14	214 769
			154	-5 5	36 38	262 812
			168	-6 9	38 49	298 848
			180	-8 1	39 47	322 872
						333 883

Profile No. ____ Notes Red. CWH Plotted CWH Job No. ____ Division No. 10
X-Sec. No. ____ Date 9-24-59 Date 10-2-59 Survey of BEACH Station STUDIES
Notes Chkd. JSH Checked JSH Survey by ____ Notes ____ Date ____
Date 9-29-59 Date 10-3-59 Map No. ____ Indexed C. Jones Date ____

F.B. 28802 Pg. 23

F. B. 2802 Pg. 234

Job No. 0300-02 Division No. 10 Notes Red CWH Plotted CWH Profile

Survey of BEACH BROSCH - STUDIES Date 9-24-59 Date 10-2-59 No.

Survey by LWD Notes LWD Notes Chkd. JSH Checked JSH X-Sec.

Indexed Date Date 9-29-59 Date 10-5-59 No.

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

Do not extend notes this side of this line.

PLEASE RETURN TO
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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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70L-298 CE 307 11-58

76L298 3D7 8-53

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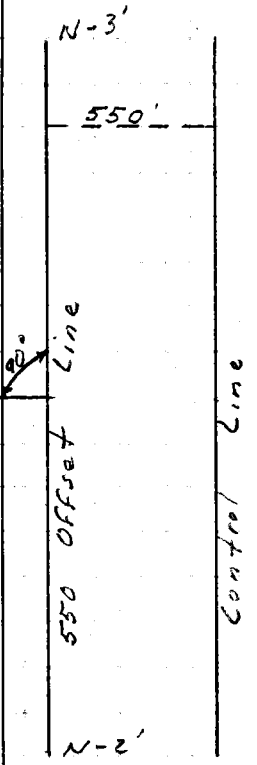
STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At CH	#	Color	Time	Hor. Ang.		Remarks
	1		9 28	90 00		
	2			" "		
	3			" "		
	4			" "		
	5			" "		
	6			" "		
	7			" "		
	8			" "		
	9			" "		95+87.17 N
	10			" "		
	11			" "		
	12			" "		
	13			" "		
	14			" "		
95+87.17 N	15			" "		
N-3'	16			" "		
	17			" "		
	18			" "		
	19			" "		
	20		9 31	" "		



Profile No. ____ Notes Red. CWH Plotted CWH Job No. 2300.02 Division No. 10 F. B. 2802 Pg. 235
Date 9-29-59 Date 10-2-59 Survey of Beach Erosion Study
X-Sec. No. ____ Notes Chkd. JCH Checked JCH Survey by Hagerman Notes Indexed Date 8-21-59
Date 9-29-59 Date 10-5-59 Map No. ____ Index ~~Mr. C. John~~ Date ____

F. B. 2802 Pg. 236 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Study | Date 9-24-59 | Date 10-2-59 | No.

Survey by Uhariet | Notes Liden | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight At OR # Color Time Hor. Ang.	Remarks
95+87.17 N						
N-3'						

761.298 307 8-53

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76298 S & E #307—7-55

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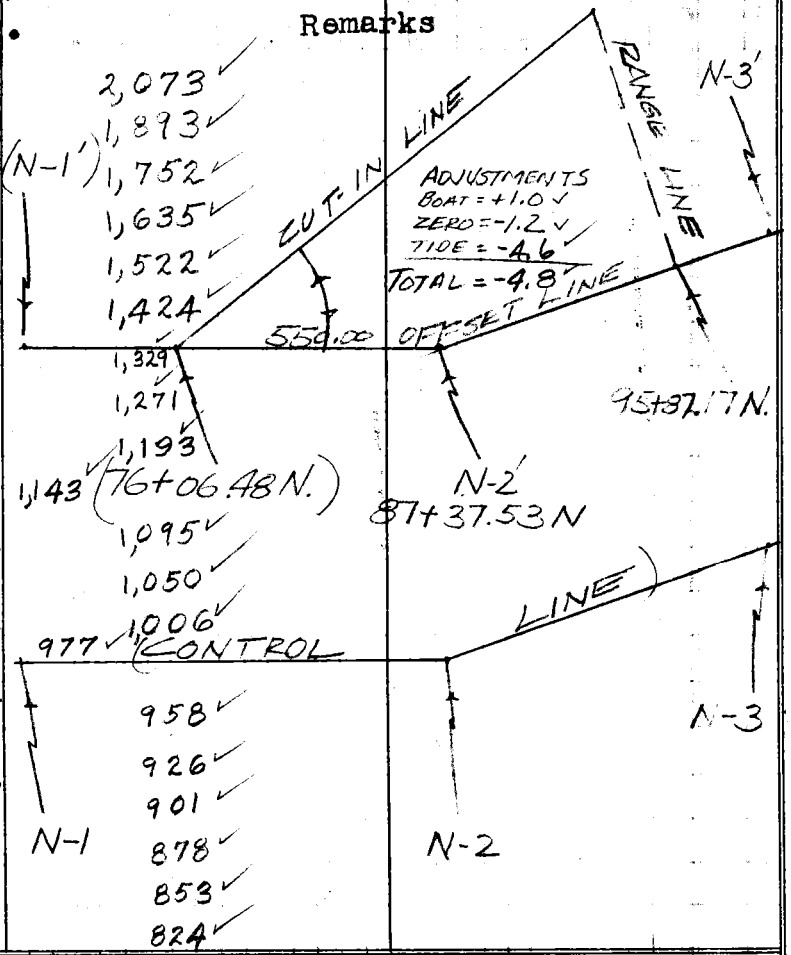
Profile No. ____ Notes Red CWH Plotted CWH Job No. 03002 Division No. 10 F. B. 2802 Pg. 237
Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. CWH Checked ____ Survey by HARRIET Notes P.T.S. Date 8-31-59
Date 9-29-59 Date 10-5-59 Map No. ____ Indexed C. Johnson

STATION Inst. At	Sight On	B. S. #	H. I. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
76+06.48 N.	N-2'	1	30.9	26.1	9:28	38° 56'	2,073
		2	29.2	24.4		35° 28'	1,893
		3	27.9	23.1		32° 28'	(N-1') 1,752
		4	26.5	21.7		29° 53'	1,635
		5	25.9	21.1		27° 18'	1,522
		6	25.0	20.2		24° 56'	1,424
		7	24.3	19.5		22° 31'	1,329
		8	23.5	18.7		21° 01'	1,271
		9	22.8	18.0		19° 00'	1,193
		10	21.1	16.3		17° 40'	1,143 (76+06.48 N.)
		11	19.9	15.1		16° 23'	1,095
		12	18.0	13.2		15° 07'	1,050
		13	17.1	12.3		13° 55'	1,006
		14	16.1	11.3		13° 06'	977 (CONTROL
		15	14.8	10.0		12° 35'	958
		16	13.1	8.3		11° 42'	926
		17	11.7	6.9		11° 00'	901
		18	10.2	5.4		10° 19'	N-1 878
		19	8.3	3.5		09° 37'	853
		20	—		9:31	08° 47'	824



F. B. 2802 Pg. 238 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of BEACH EROSION STUDIES | Date 9-24-59 | Date 10-2-59 | No.

Survey by HARRIET STRADER | Notes | Notes Chkd. JSH | Checked JSH | X-Sec.

Index C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
76+06.48N					Inst. Sight At On
N-2'					
					# Depth Rec. Adj.
					Time Hor. Ang.

76298 S & E #307—7-55

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76L.296 CE 307 11-58

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STATION	B.S.	H.I.	F.S.	ELEV.	Inst. at 95+87.17	See below
		19 66			DATUM MEAN LOWER LOW WATER	INSHORE
TP	3 20	17 83	5 23	14 63		99+87.17
99+87.17			50	12 6	550' OFFSET LINE	ADD OFFSET
			58	12 8		100° R. 450 L
			75	10 5		180° R. 370 L
			79	10 9		300 R. 350 L
			27	15 4		300 R 250 L
			09	16 9		380 R. 164 L
						TOE SLOPE
						R.
			52	12 6	75° L. ADD OFFSET 625	
			58	12 6	100° L. 650	Hi. 110
			74	10 4	161° L. 711 Top Slope	Sight on 100+12 (N'ly. Side of grain),
T.P.	33	11 30	98	8 0	187° L. 733	F.S. el. 33° 10 ①
			63	5 0 / 4 7	28 21 ① Sight on 99+62 (S'ly. side of grain)	6.3 5.0 / 4.7 36 31 ②
			94	1 9 / 1 6	32 54 ②	10.4 8.9 / 8.6 38 32 ③
			123	-1 9	38 26 ③	12.7 -1.4 / -1.7 40 49 ④
			134	-2 1 / 4	41 21 ④	14.6 -3.3 / -3.6 42 30 ⑤
			157	-4 4 / 7	43 48 ⑤	18.0 -6.7 / -7.0
			172	-5 9 / 6 2	45 57 ⑥	

NOTE: DISTANCES ON BACK SIDE OF THIS SHEET

NOTE: DISTANCES BACK ON SIDE.

Profile No. 0300.02 Division No. 10
Notes Red CWH Plotted CWH Job No. Engineer Stories
Date 9-24-54 Date 10-2-59 Survey of
Notes Chkd. JSH Checked JSH Survey by Line
Date 9-29-59 Date 10-5-59 Map No. Notes Date
No. Date Indexed Date
X-Sec.

F.B. 28802 Pg. 239

76L-295 CE 307 11-58

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F.B. 2802 Pg. 240 Job No. 6300.02 Division No. 10 Notes Red CW Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No. X-Sec.
Survey by LAND Notes LAND Notes Chkd. JSH Checked JSH
Indexed [redacted] Date Date 9-29-59 Date 10-5-59 No.

STATION	B.S.	H.I.	F.S.	ELEV.		
		1783	Cont.		Previous Page	
TB.M	40	1777	+66	1317	* TB.M Bolt in timber in S. side of groin	
		S'ly side of groin		ADD OFFSET	N'ly side of groin	ADD OFFSET
		① 202		752	① 278	828
		② 243		793	② 314	864
		③ 298		848	③ 338	888
		④ 330		880	④ 367	917
		⑤ 359		909	⑤ 389	939
		⑥ 388		938		

76L298 307 8-53

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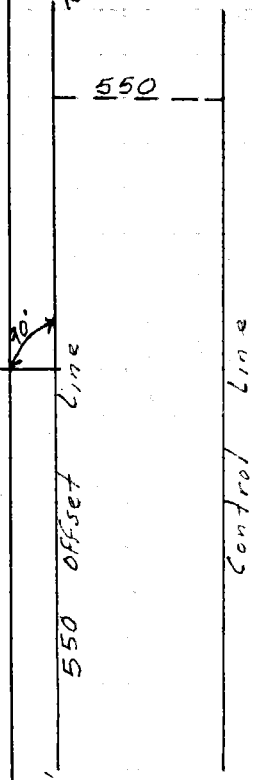
Profile No. ____ X-Sec. No. ____

Notes Red CWH Date 9-24-59 Plotted CWH Date 10-2-59 Job No. 4300.00 Survey of Beach Division No. 10 Erosion Study

Notes Chkd JSH Date 9-29-59 Checked JSH Date 10-5-59 Survey by Unknown Map No. ____ Notes by Indexed C. Johnson Date 8-21-59

F. B. 2802 Pg. 241

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At Ch	#	Color	Time	Hor. Ang.	
	1		9 44	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	99+87.12 N
	10			" "	
	11			" "	
	12		9 45	" "	
	13				
	14				
	15				
	16				
	17				
	18				
	19				
	20				


N-3'
550
90°
2 N
2 N
2 N

F. B. 2802 Pg. 242 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Study | Date 9-24-59 | Date 10-2-59 | No. | X-Sec.

Survey by Uhariet | Notes Liden | Notes Chkd. JSH | Checked JSH

Indexed C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

761298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
99+87.12					Inst. Sight At
5-3'					
		#	Color	Time	Hor. Ang.
		21			90 00
		22			
		23			
		24			

76298 S & E #307—7-55

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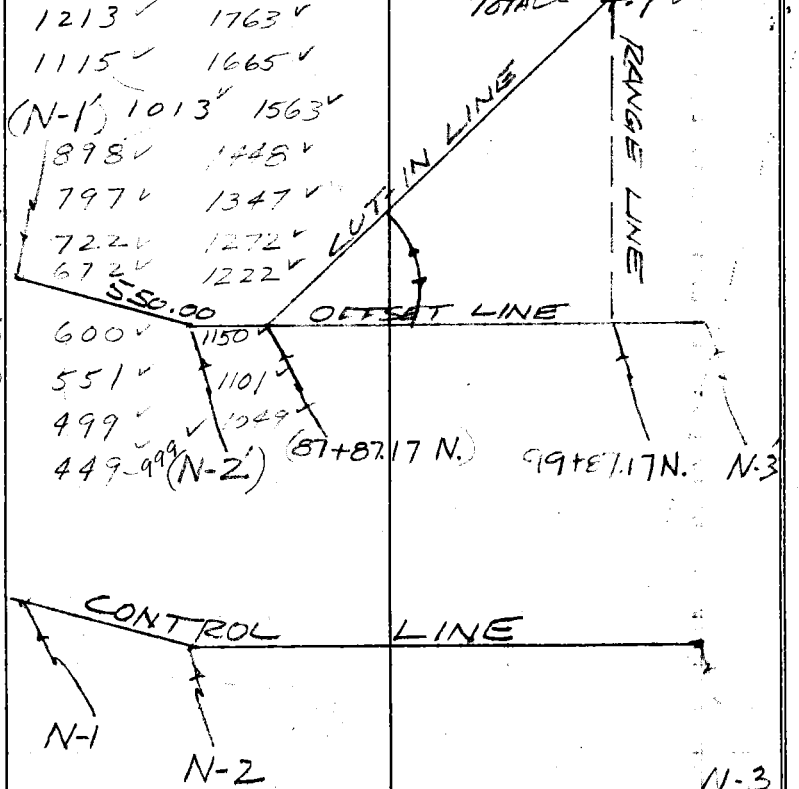
Profile Notes Red C.W.H. Plotted C.W.H. Job No. 30005 Division No. 10 F.B. 280 Pg. 243
No. Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. J.S.H. Checked Survey by WHITPHIT Notes P.L.S. Date 9-21-59
No. Date 11-24-59 Date 10-5-59 Map No. Index C. Johnson

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.		ADD OFFSET	Remarks	ADJUSTMENTS
		1	29.8	25.1	9 43	47°00'	1291	1841		BOAT = +1.0
		2	28.4	23.7		45°18'	1213	1763		ZERO = -1.0
		3	27.4	22.7		42°53'	1115	1665		TIDE = -4.7
		4	26.6	21.9		40°10'	(N-1) 1013	1563		TOTAL = -4.7
		5	25.8	21.1		36°48'	898	1448		
		6	25.2	20.5		33°36'	797	1347		
		7	22.8	18.1		31°02'	722	1272		
		8	21.0	16.3		29°15'	672	1222		
		9	18.5	13.8		26°35'	600	1150		
		10	14.9	10.2		24°38'	551	1101		
		11	9.3	4.6		22°35'	499	1049		
		12	8.5	3.8	9 45	[illegible]	449	999 (N-2)		



87+37.17 N.

F.B. 2802 Pg. 244 Job No. 03002 Division No. 10 Notes Red. CWH Plotted CWH

Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59

Survey by HARRIET Notes STRADER Notes Chkd. JSH Checked JSH

Indexed C. Johnson Date Date 9-29-59 Date 10-[illegible]

87+87.17 N.

N 3'