d by J. S. H.
k J. S. H.
C. W. H.
-10-60

Survey of Beach Erosion Stud F. B. 2804 Pg. 5
JN ±Tape Std °F
Surveyed by Harriet
Notes Harriet Date 7-11-60
Indexed

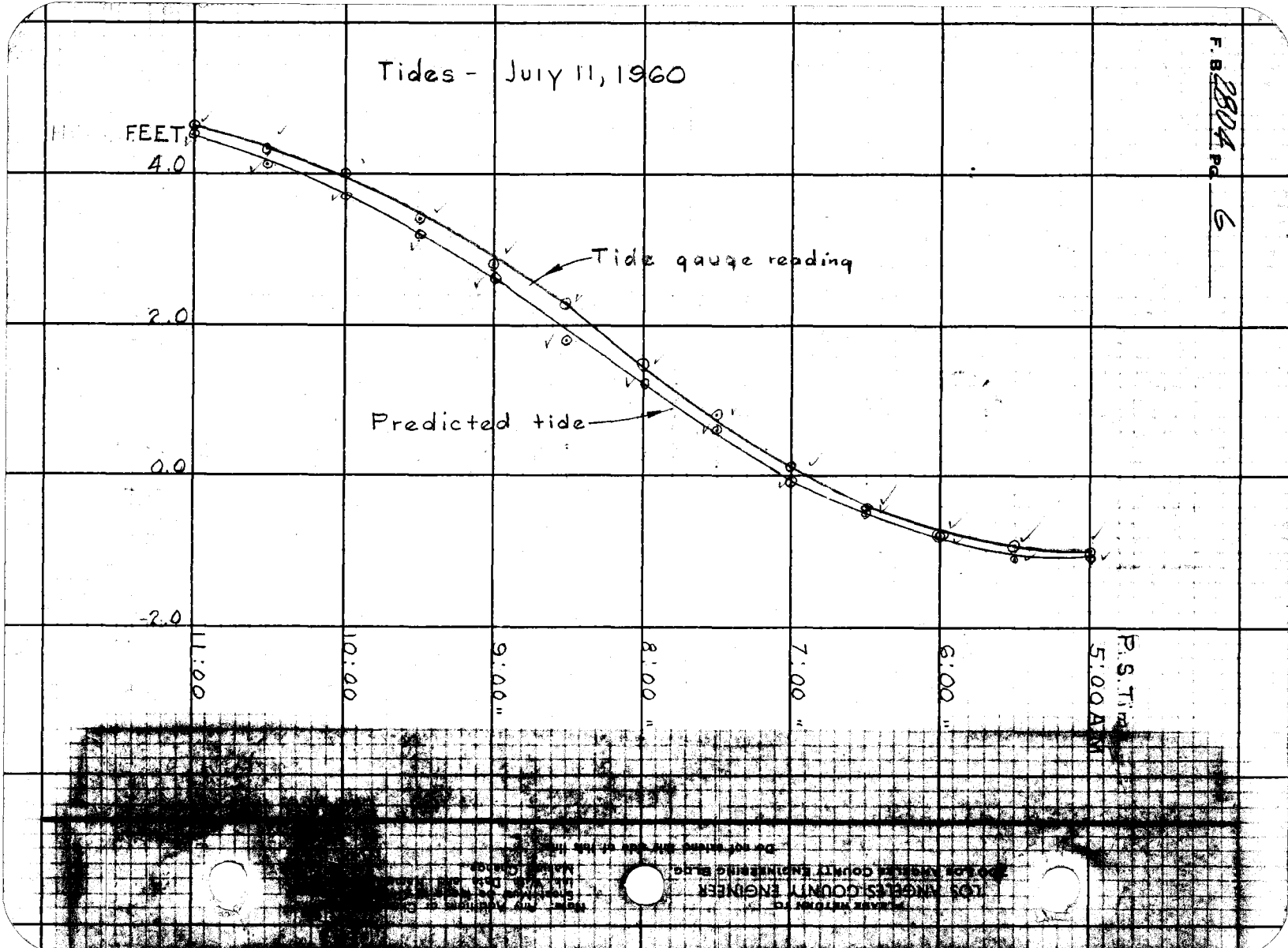
BEACH EROSION STUDIES
JULY 1960
J.N. 0300.02

STA 428+19S TO STA. 316+00S

F. F.B. 2100

arriet		Lind		Sappel
erson		Goodwin		Smiley
ks		Wallace		Tuxford
ith, N.		Caro		Lieber
er		Masuda		Hinzman
boom				Blanchard
mmen -Sounder				
emaker -Skipper				

Microfilmed May '85.


Tides - July 11, 1960
FEET
4.0
2.0
0.0
-2.0
Tide gauge reading
Predicted tide
11:00
10:00
9:00
8:00
7:00
6:00
5:00 AM
P.S. Time
F.B. 2804 Pg. 6

Notes Ck'd by J. S. H.	Survey of Beach Erosion Study
Map No.	JN Tape Std °F
Office Work J. S. H.	Surveyed by Wharmat
Checked C. W. H.	Notes Date 7-11-60
Date 8-10-60	Indexed H. E. OTB

F. B. 2804 Pg. 7

TIDE GAUGE READINGS

JULY 11, 1960

DATUM – M.L.L.W.

TIME – P.S.T.

TIME P.S.T.	GAUGE READING M.L.L.W.
5:00 A.M.	– 1.0 ft.
5:30	– 0.9
6:00	– 0.8
6:30	– 0.4
7:00	0.1
7:30	0.8
8:00	1.5
8:30	2.3
9:00	2.8
9:30	3.4
10:00	4.0
10:30	4.3
11:00	4.6

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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76F309S S&E #247 1-56

F. B. 2804 Pg. 8

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76L-298 S & E #307—1-56

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STATION	S. S.	H. I.	F. S.	ELEV.	π @ S-28 422+48.03	SIGHT ON 428+19
					DATUM MEAN LOWER LOW WATER	428+19 1/4 SHORE
TBM #1	2 67	24 67		22 00	TBM #1 EL= 22.00, PER FD 2100-154	
T.P.	1 [illegible]	26 [illegible]	5 70	18 97		
"	[illegible]	[illegible]	5 63	[illegible]		
"	[illegible]		[illegible]	[illegible]		
"	[illegible]		[illegible]	4 19		
[illegible]	[illegible]					
[illegible]	4 37	[illegible]	[illegible]			
[illegible]	6 51	15 38	[illegible]			
428+19	5 07	[illegible]	3 71	7 67	CONTROL LINE	
"			8 3	4 7	MEAN TIDE LINE 38' RT.	
"			[illegible]	1 8	100 RT. TOP (NZ (T.P.)) shore party only	
"			2 7	10 0	12' LFT. TOE SLP.	
T.P.				1 8	100 RT. on line T.P.	
	16	34				
428+19			2 6	0 8	11° 15' 122'	
"			4 5	-1.1	21° 25' 250'	
"			5 8	-2.4	27° 00' 333'	
"			7 3	-3.9	31° 02' 400'	

Profile Notes Red. C.W.H. Plotted C.W.H. Job No. 03002 Division No. 11 F. B. 2804 Pg. 9
No. Date 8-1-60 Date 10-3-60 Survey of BELL [illegible] Date [illegible]
X-Sec. Notes Chkd. J.S.H. Checked J.S.H. Survey by [illegible] Notes [illegible] Date [illegible]
No. Date 8-5-60 Date 10-5-60 Map No. Indexed A. E. OTT Date

F. B. 2804 Pg. 10 | 0300.02

Job No. | Division No. 11 | Notes Red C.W.H. | Plotted C.W.H. | Profile

Survey of BEACH EROSION STUDIES | Date 8-1-60 | Date 10-3-60 | No.

Survey by LIND | Notes J.C. GOODWIN | Notes Chkd. J.S.H. | Checked J.S.H. | X-Sec.

Indexed H. E. OTT | Date | Date 8-3-60 | Date 10-5-60 | No.

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.		
428+19		3.4			INST. @ 5-28 428+48.2	SIGHT ON 428+19
"			95	-6.1	35° 20'	483'
"			100	-6.6	38° 15'	549'
"			112	-7.8	41° 45'	638'
"			120	-8.6	44° 50'	729'
"			133	-9.9	48° 03'	841'

76L-298 CE 307 11-58

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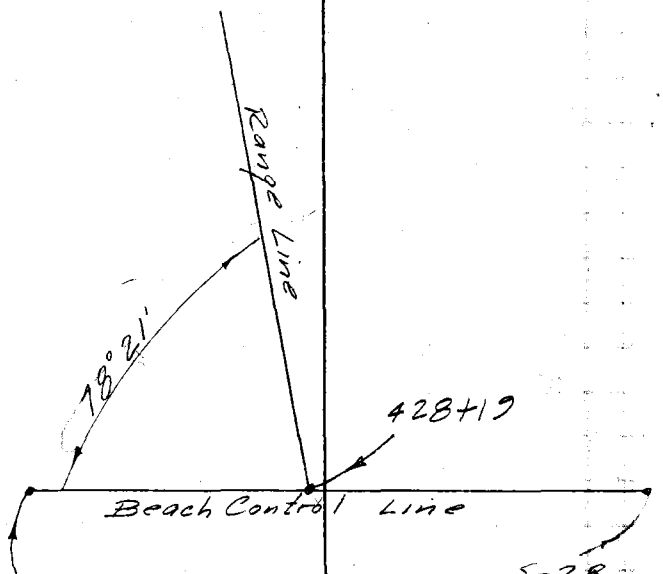
Profile No. ____ X-Sec. ____ Notes Red C.W.H. Date 8-1-60 Plotted C.W.H. Date 10-3-60 Job No. 2300.02 Division No. 11 F.B. 2804 Pg. 11
Notes Chkd. J.S.H. Checked J.C.H. Survey of Beach Erosion Studies
Page 8-3-60 Date 10-5-60 Map No. ____ Survey by Wharton Notes Wharton Date 7-11-60

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
428+19	S-29	1		7:27	78° 21	
		2			" "	
		3			" "	
		4			" "	
		5			" "	
		6			" "	
		7			" "	
		8			" "	
		9			" "	
		10			" "	
		11			" "	
		12			" "	
		13			" "	
		14			" "	
		15			" "	
		16			" "	
		17			" "	
		18			" "	
		19			" "	
		20			" "	



F.B. 2801 Pg. 12 | Job No. 0300.02 | Division No. 11 | Notes Red C.W.H. | Plotted C.W.H. | Profile

Survey of Beach Erosion Studies | Date 8-1-60 | Date 10-3-60 | No.

Survey by Uharriet | Notes Uharriet | Notes Chkd. J.S.H. | Checked J.S.H. | X-Sec.

Indexed H. E. Ott | Date | Date 8-3-60 | Date 10-5-60 | No.

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
428+19					
5-29					
Inst. At	Sight On	# Rec.	Adj.	Time	Hor. Ang.
	21	22		7:30	78°21'
					" "
					" "

76L-298 CE 307 11-58

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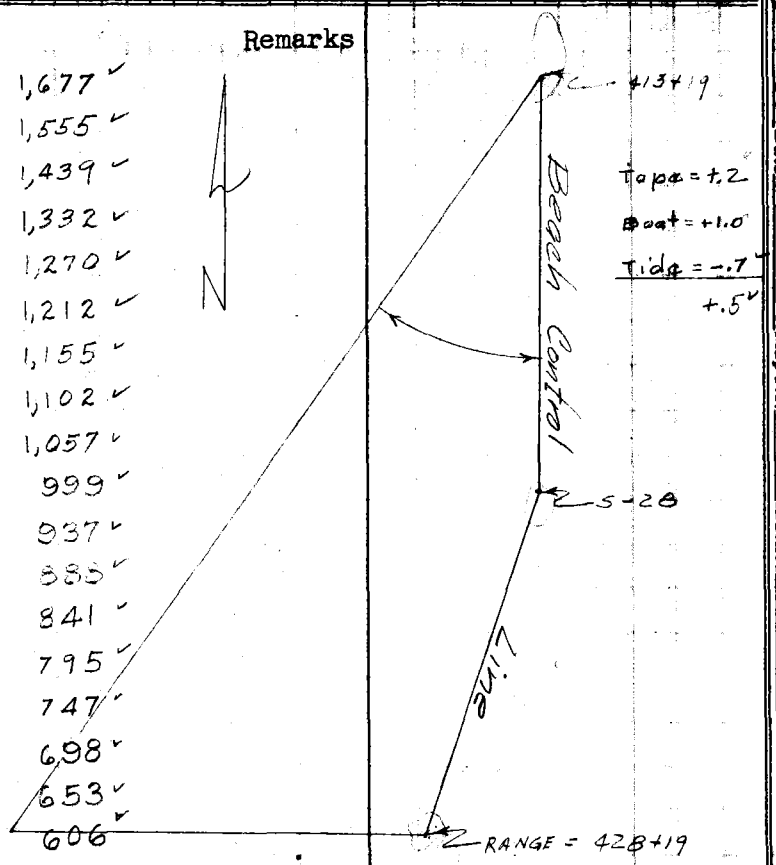
Profile No. ____ Notes Red C.W.H. Plotted C.W.H. Job No. 0300.02 Division No. 11
X-Sec. ____ Date 8-1-60 Date 10-3-60 Survey of BEACH EROSION STUDIES
Notes Chkd. J.S.H. Checked J.S.H. Survey by C.HARSET Notes SMITH Date 7-11-60
Date 8-3-60 Date 10-5-60 Map No. ____ Recorded A.E. CH Date ____

F.B. 2804 Pg. 13

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	Adj.	F.S. Time	ELEV. Hor.Ang.	Remarks
413+19	5-28	1	28.0	28.5	7-27	50°-19'	1,677
"	"	2	26.1	26.6		48°-18'	1,555
"	"	3	23.6	24.1		46°-14'	1,439
"	"	4	21.9	22.4		44°-12'	1,332
"	"	5	20.6	21.1		42°-54'	1,270
"	"	6	19.7	20.2		41°-43'	1,212
"	"	7	18.6	19.1		40°-28'	1,155
"	"	8	17.5	18.0		39°-15'	1,102
"	"	9	16.5	17.0		38°-12'	1,057
"	"	10	15.4	15.9		36°-48'	999
"	"	11	14.1	14.6		35°-15'	937
"	"	12	13.0	13.5		33°-58'	885
"	"	13	11.9	12.4		32°-42'	841
"	"	14	10.9	11.4		31°-26'	795
"	"	15	9.9	10.4		30°-03'	747
"	"	16	9.0	9.5		28°-34'	698
"	"	17	8.3	8.8		27°-17'	653
"	"	18	8.0	8.5		25°-49'	606
"	"	19	7.5	8.0		24°-15'	556
"	"	20	7.1	7.6		23°-12'	524



F.B. 2804 Pg. 72

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

Survey of BEACH EROSION STUDIES Date 8-1-60 Date 10-3-60 No.

Survey by HARRIET Notes SMITH N. Notes Chkd. J.S.H. Checked J.S.H. X-Sec.

Indexed H.E. OTT Date Date 8-3-60 Date 10-5-60 No.

76L-266 CE 307 11-58

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STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At 413+19	Sight On 5.28	# Depth Rec./Adj. 21 6.85 / 7.3	Time 21:58	Hor. Ang. 486	
"	"	22 5.4 / 5.9	7.30	20°-29' 441	
					Tape = +.2 Boat = +1.0 Tide = -.7 +.5

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. B.	ELEV.		
					ZNET. @ 428+19	422+48.5
		12 74			DATUM MEAN LOWER LOW WATER	423+19 INSHORE
			4 22	11 87		
"					75° SLOPE	
"					DEPTH - MEAN LOWER LOW WATER	
T.P.			11 84		T.P.	
	1.1	5 4				
423 + 19			37	17	15° 30'	134
"			56	-0.2	23° 45'	206
"			71	-1.7	28° 58'	262
"			83	-2.9	35° 22'	316
"			101	-4.7	39° 16'	357
"			126	-7.2	43° 45'	408'
"			120	-6.6	47° 30'	455
"			117	-6.3	50° 18'	492'
"			125	-7.1	53° 33'	540'

Profile Notes Red. [illegible] Plotted [illegible] Job No. [illegible] Division No. 11 F. B. [illegible] PG. 15
No. Date 8-1-60 Date 10-3-60 Survey of [illegible]
X-Sec. Notes Chkd. J.S.H. Checked J.S.H. Survey by [illegible] Notes Date 7-11-60
No. Date 8-3-60 Date 10-5-60 Map No. Indexed M. E. Oil Date

F. B. 2804 Pg. 16 | Job No. 0300.02 | Division No. 11 | Notes Red | Plotted | Profile

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

Survey by Lind | Notes Goodwin | Notes Chkd | Checked | X-Sec.

Indexed H. E. OTT | Date | Date | Date | No.

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

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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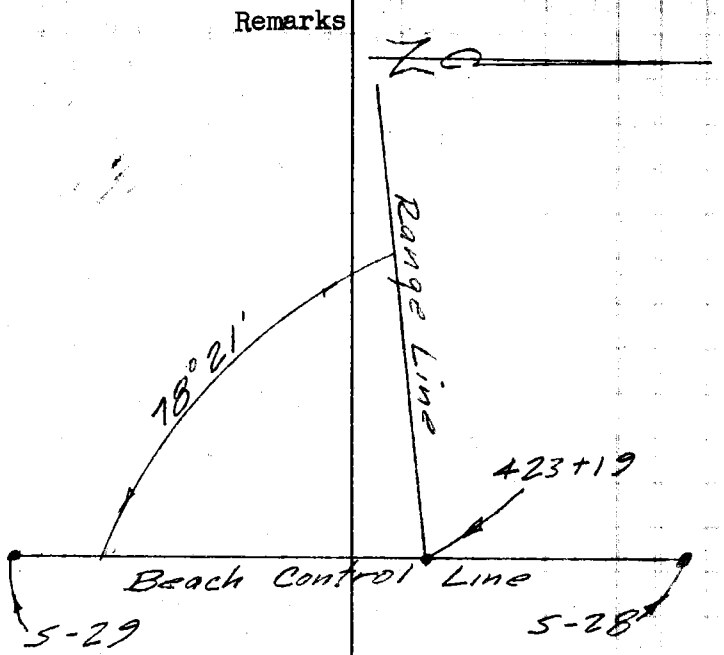
STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
		1		7:06	78°21'		
		2			" "		
		3			" "		
		4			" "		
		5			" "		
		6			" "		
		7			" "		
		8			" "		
423+19	5-29	9			" "		
		10			" "		
		11			" "		
		12			" "		
		13			" "		
		14			" "		
		15			" "		
		16			" "		
		17			" "		
		18			" "		
		19			" "		
		20			" "		



Profile Notes Red CWH Plotted CWH Job No. 0300.02 Division No. 11 F.B. 2804 Pg. 17
Date 8-1-60 Date 10-3-60 Survey of Beach Erosion Studies
No. X-Sec. Notes Chkd. J.S.H. Checked J.S.H. Survey by [illegible] Notes [illegible] Date 7-11-60
Date 8-3-60 Date 10-5-60 Map No. Tracing H.E.O.N. Date

F. B. 2804 Pg. 18 | Job No. 0300.02 | Division No. 11 | Notes Red C.W.H. | Plotted CWH | Profile

Survey of Beach Erosion Studies | Date 9-1-60 | Date 10-3-60 | No.

Survey by Uharriet | Notes Uharriet | Notes Chkd. J.S.H. | Checked J.S.H. | X-Sec.

Indexed H. E. OTT | Date | Date 9-3-60 | Date 10-5-60 | No.

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At 423+19					
Sight On 5-29					
# Rec. Adj.	21				
Time	7:10				
Hor. Ang.	"				

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76L-298 CE 307 11-58

76L 298 CE 307 11-58

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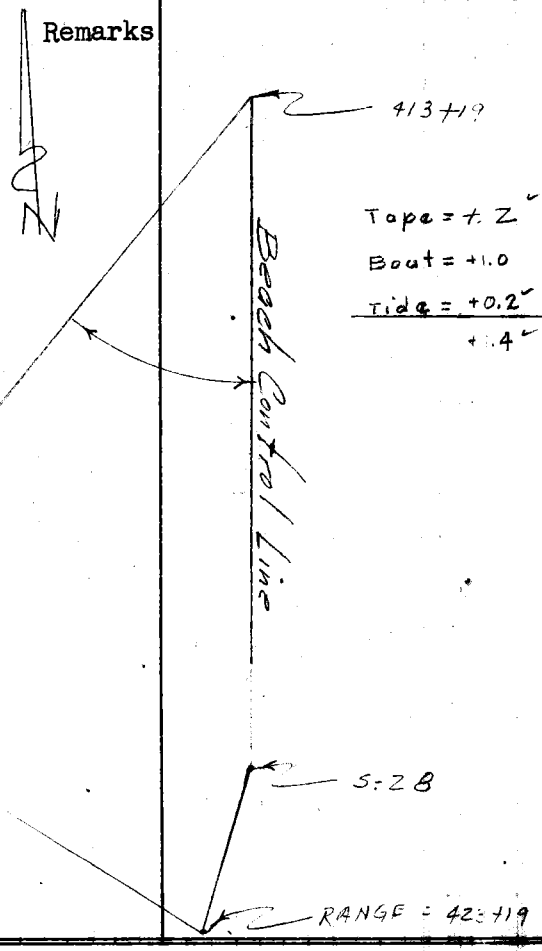
STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	Adj.	F.S. Time	ELEV. Hor. Ang.		Remarks
413+19	5-28	1	26.7	28.1	7-06	59°-46'	1,700	
"	"	2	25.2	26.6		58°-09'	1,597	
"	"	3	24.1	25.5		56°-31'	1,499	
"	"	4	22.6	24.0		54°-58'	1,411	
"	"	5	21.2	22.6		53°-56'	1,357	
"	"	6	20.2	21.6		52°-54'	1,306	
"	"	7	19.3	20.7		50°-25'	1,195	
"	"	8	18.9	20.3		48°-32'	1,116	
"	"	9	17.7	19.1		47°-05'	1,061	
"	"	10	16.5	17.9		45°-36'	1,007	
"	"	11	15.3	16.7		44°-05'	954	
"	"	12	14.0	15.4		42°-09'	891	
"	"	13	12.5	13.9		40°-30'	839	
"	"	14	11.2	12.6		38°-31'	783	
"	"	15	9.8	11.2		36°-38'	728	
"	"	16	9.5	10.9		34°-48'	680	
"	"	17	8.5	9.9		33°-07'	638	
"	"	18	7.7	9.1		31°-22'	596	
"	"	19	6.5	7.9		29°-06'	543	
"	"	20	5.8	7.2		27°-55'	515	



Profile No. ____ X-Sec. ____ Notes Red CWH Plotted CWH Job No. 8310.02 Division No. 11
Date 8-1-60 Date 10-3-60 Survey of Beach Erosion Studies
Notes Chkd. JSH Checked JSH Survey by Harriet Notes ~~B.E.~~ Date 7-11-60
Date 8-3-60 Date 10-25-60 Map No. ____ Indexed ____ Date ____
F.B. 2804 Pg. 19

F.B. 2804 Pg. 20

Job No. 0300.02 Division No. 11 Notes Red C.W.H. Plotted CWH Profile

Survey of BEACH EROSION STUDIES Date 8-1-60 Date 10-3-60 No.

Survey by U/APPRET Notes N. SMITH Notes Chkd. J.S.H. Checked J.S.H. X-Sec.

Indexed H. E. OTT Date Date 8-3-60 Date 10-5-60 No.

STATION	B.S.	H.I.	F.S.	ELEV	Remarks
Inst. At 41319	Sight On 5-28	Depth # Rec. Adj. 21 5.1/6.0	Time 7-10	Hor. Ang. 25°55	471 ✓
		F			

Tape = +.2
Boat = +1.0
Tide = -0.3
+.9

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76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 413+19		INST. @ 418+19
					DATUM MEAN LOWER LOW WATER		418+19 INSHORE
T.P.	1.[illegible]	[illegible]	[illegible]	8.48			
			[illegible]	[illegible]	T.P.		
	22	5.0					
418 +19			+1.8	6.8	6° 30'	57'	bott. cliff
"			0.3	4.7	11° 30'	102'	Mean tide line
"			3.4	1.6	15° 35'	139'	
"			5.0	0.0	20° 35'	188'	
"			6.4	-1.4	25° 30'	233'	
"			7.3	-2.3	29° 30'	283'	
"			8.4	-3.4	32° 35'	320'	
"			10.2	-5.2	36° 18'	367'	
"			10.8	-5.8	38° 50'	402'	
"			11.7	-6.7	43° 20'	472'	

Profile No. ____ Notes Red. CWH Plotted CWH Job No. ____ Division No. 11
X-Sec. No. ____ Date 8-1-60 Date 10-5-60 Survey of BEACH RECREATION STUDIES
Notes Chkd. JSH Checked JSH Survey by ____ Notes ____ Date ____
Date 8-3-60 Date 10-5-60 Map No. ____ Indexed H. E. OTT Date ____

F. B. 2804 Pg. 21

F. B. 2804 Pg. 22 | Job No. 0300.02 | Division No. 11 | Notes Red | Plotted | Profile

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

Survey by Lind | Notes Goodwin | Notes Chkd | Checked | X-Sec.

Indexed H. E. OTT | Date | Date | Date | No.

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

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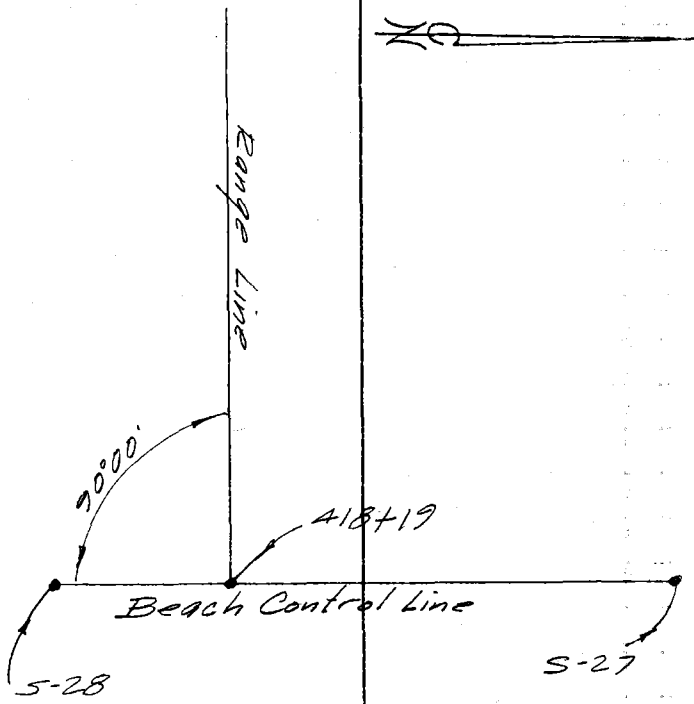
STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
418+19	5-28	1		7:47	90° 00		
		2			" "		
		3			" "		
		4			" "		
		5			" "		
		6			" "		
		7			" "		
		8			" "		
		9			" "		
		10			" "		
		11			" "		
		12			" "		
		13			" "		
		14			" "		
		15			" "		
		16			" "		
		17			" "		
		18			" "		
		19			" "		
		20			" "		



Profile Notes Red CWH Plotted CWH Job No. 0370.02 Division No. 11
No. Date 8-1-60 Date 10-3-60 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. JSH Checked JSH Survey by Charrier Notes Charrier Date 7-11-60
No. Date 8-3-60 Date 10-5-60 Map No. Noted H.E. OK Date

F.B. 2804 Pg. 23

F. B. 2804 Pg. 24

0300.02

Job No. ____ Division No. 11 Notes Red C.W.H Plotted C.W.H Profile

Survey of Beach Erosion Studies Date 8-1-60 Date 10-3-60 No. ____

Survey by Uharriet Notes Uharriet Notes Chkd. J.S.H. Checked J.S.H. X-Sec.

Indexed N. E. OTI Date ____ Date 8-3-60 Date 10-5-60 No. ____

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.	Remarks
Inst. At 418+19					
Sight On 5-28					
# Rec. Adj.	21				
	22				
Time			7:50		
Hor. Ang.				90 00'	
				" "	
				" "	

76L-298 CE 307 11-58

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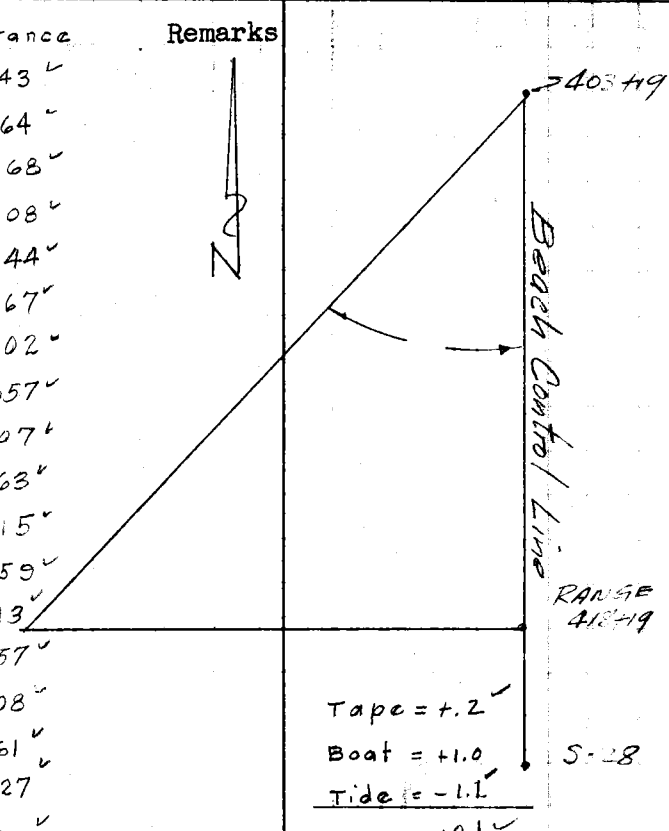
Profile No. ____ X-Sec. ____ Notes Red C.W.H. Plotted C.W.H. Job No. 0330.02 Division No. 11
Data 8-1-60 Date 10-3-60 Survey of BEACH EROSION STUDIES
Notes Chkd. J.S.H. Checked J.S.H. Survey by WHACKET Notes SOUTH Date 7-11-60
Date 8-5-60 Date 10-5-60 Map No. ____ Indexed ____ Date ____
F.B. 2804 Pg. 25

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.	Distance	Remarks
403+19	S-28	1	28.2	28.3	7-47	45°-49'	1,543	
"	"	2	26.6	26.7		44°-18'	1,464	
"	"	3	23.9	24.0		42°-22'	1,368	
"	"	4	23.1	23.2		41°-05'	1,308	
"	"	5	22.0	22.1		39°-40'	1,244	
"	"	6	22.0	22.1		37°-52'	1,167	
"	"	7	20.9	21.0		36°-18'	1,102	
"	"	8	19.4	19.5		35°-11'	1,057	
"	"	9	17.9	18.0		33°-52'	1,007	
"	"	10	17.0	17.1		32°-42'	963	
"	"	11	16.2	16.3		31°-24'	915	
"	"	12	15.0	15.1		29°-48'	859	
"	"	13	13.3	13.4		28°-27'	813	
"	"	14	12.4	12.5		26°-48'	757	
"	"	15	11.1	11.2		25°-17'	708	
"	"	16	9.9	10.0		23°-48'	661	
"	"	17	9.3	9.4		22°-42'	627	
"	"	18	9.1	9.2		21°-47'	600	
"	"	19	8.6	8.7		19°-31'	531	
"	"	20	7.8	7.9		18°-21'	498	



76L-298 CE 307 11-58

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F.B. 2804 Pg. 26 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 8-1-60 Date 10-3-60 No. X-Sec.
Survey by HARRIET Notes SMITH N Notes Chkd. JSH Checked J.S.H. No.
Indexed M.E. OTT Date Date 8-3-60 Date 10-5-60 No.

STATION		B.S.	H.I.		F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Distance	Remarks
403+19	5-28	21	6.7	6.8	~~7-1~~	17°12'	465	Tape = +.2
"	"	22	6.2	6.3	7-50	16°-05'	432	Boat = +1.0
								Tide = -1.1
								+.1

76L-296 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.		
					INST. @ 408+19	413+19
		9.5			DATUM MEAN LOWER LOW WATER	413+19 INSHORE
					CONTROL LINE	
					8' ET. TO	
					MEAN TIDE LINE 64' ET.	
	15	57				
413+19			41	1.6	14° 10' 126'	
"			52	0.5	19° 30' 177'	
"			71	-1.4	26° 38' 249'	
			83	-2.6	30° 33' 296'	
			95	-3.8	34° 02' 338'	
			12.0	-6.3	39° 31' 398'	
			126	-6.9	41° 23' 442'	
			135	-7.8	45° 00' 500'	

Profile Notes Red J.S.H. Plotted J.S.H. Job No. Division No. 11 F. S. 2804 Pg. 27
No. Date 8-2-60 Date 10-3-60 Survey of
X-Sec. Notes Chkd. C.W.H. Checked C.W.H. Survey by Notes Date
No. Date 8-4-60 Date 10-5-60 Map No. Indexed H. E. OTT Date

F. B. 2804 Pg. 28 Job No. 0300-02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion Studies Date _____ Date _____ No. _____

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

Indexed H. E. OTT Date _____ Date _____ Date _____ No. _____

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

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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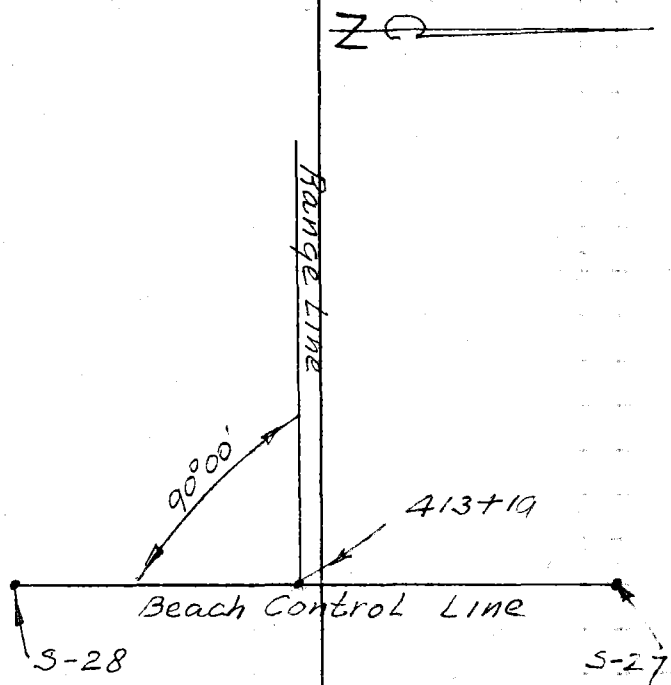
Profile No. ____ X-Sec. ____ Notes Red J. S. H. Date 8-2-60 Notes Chkd. C.W.H. Date ____ Plotted J. S. H. Date 10-4-60 Checked C.W.H. Date ____ Job No. 2300.02 Survey of Beach Erosion Studies Survey by Chaurmel Notes Chkd. ____ Date ____ Division No. 11 F.B. 2804 Pg. 29 H.E. OH Date 7-11-60

STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
413+19	S-28	1		8 09	90° 00'		
		2			" "		
		3			" "		
		4			" "		
		5			" "		
		6			" "		
		7			" "		
		8			" "		
		9			" "		
		10			" "		
		11			" "		
		12			" "		
		13			" "		
		14			" "		
		15			" "		
		16			" "		
		17			" "		
		18			" "		
		19			" "		
		20			" "		



F. B. 2804 Pg. 30

0300.02

Job No. ____ Division No. 11 Notes Red J. S. H. Plotted J. S. H. Profile

Survey of Beach Erosion Studies Date 8-2-60 Date 10-4-60 No. ____

Survey by Dharriet Notes Teeboom Notes Chkd. C.W.H. Checked C.W.H. X-Sec.

Indexed H. E. OTT. Date ____ Date 8-4-60 Date 10-5-60 No. ____

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
413+19					Inst. At
S-28					Sight On
					# Rec. 21
					Depth Adj.
					Time 8 12
					Hor. Ang. 90° 00'

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76L-208 CE 307 11-58

76L-298 CE 307 11-58

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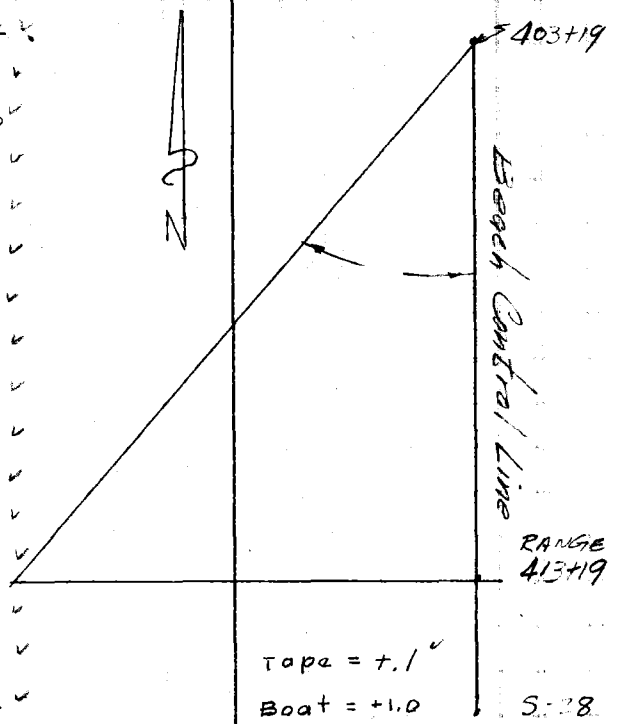
Profile No. ____ X-Sec. ____ Notes Red J. S. H. Plotted J. S. H. Job No. 0300 02 Division No. 11
Date 8-2-60 Date 10-4-60 Survey of BERCH EROSION STUDIES
Notes Chkd. C. W. H. Checked C. W. H. Survey by CHARBONNEAU Notes Date 7-11-60
Date 8-4-60 Date 10-5-60 Map No. ____ Indexed ____ Date ____
F. B. 28504 Pg. 31

STATION Inst. At	Sight On	#	B.S.	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.	Distance	Remarks
403+19	S-28	1		26.8	26.1	8-09	55°-06'	1,434	
"	"	2		24.7	24.0		53°-30'	1,351	
	"	3		24.7	24.0		51°-20'	1,250	
	"	4		23.5	22.8		50°-35'	1,217	
	"	5		23.1	22.4		49°-24'	1,167	
	"	6		20.8	20.1		47°-40'	1,098	
	"	7		19.9	19.2		46°-20'	1,048	
	"	8		19.0	18.3		44°-50'	994	
	"	9		17.8	17.1		43°-30'	949	
	"	10		16.7	16.0		41°-38'	889	
	"	11		15.0	14.3		39°-44'	831	
	"	12		13.8	13.1		37°-45'	774	
	"	13		13.0	12.3		36°-30'	740	
	"	14		12.4	11.7		34°-44'	693	
	"	15		11.8	11.1		33°-12'	654	
	"	16		10.3	9.6		31°-59'	624	
	"	17		10.1	9.4		30°-07'	580	
	"	18		9.2	8.5		28°-18'	538	
	"	19		8.2	7.5		26°-23'	496	
	"	20		7.5	6.8		24°-20'	452	



Tape = +.1
Boat = +1.0
Tide = -1.8
-0.7

F. B. 2804 Pg. 32

Job No. 0030.02 Division No. 11 Notes Red J. S. H. Plotted J. S. H. Profile

Survey of BEACH EROSION STUDIES Date 8-2-60 Date 10-4-60 No.

Survey by UHARRIET Notes SM. TH N. Notes Chkd. C. W. H. Checked C. W. H. X-Sec.

Indexed H. E. OTT Date Date 8-4-60 Date 10-5-60 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.

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STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At 103+19	Sight On 5-28	Depth # Rec. / Adj. 21 7.2 / 6.6	Time 8-12	Hor. Ang. 23°-55	Distance 443
					Tape +.2
					Boat = +1.0
					Tide = -1.8
					-0.6

76L-298 S & E #307—1-56

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 403+19	SIGHT ON 408+19
		14 32			DATUM MEAN LOWER LOW WATER	408+19 INSHORE
T.P.	0.35	14 27	3.[illegible]	13.[illegible]		
			4.7	9.9	CONTROL LINE	
			5.7	13.9	30' LT. [illegible]	
			9.[illegible]	[illegible]	MEAN TIDE LINE	63' RT.
			[illegible]	[illegible]	T.P.	
T.P. for [illegible]	0.8	56				
408+19			41	1.5	13° 15'	118'
"			55	0.1	18° 45'	170'
"			65	-0.9	23° 52'	221'
"			74	-1.8	27° 38'	260'
"			86	-3.0	31° 04'	301'
"			103	-4.7	34° 21'	342'
"			117	-6.1	37° 50'	388'
"			123	-6.7	41° 37'	444'

Profile No. ____ Notes Red. [illegible] Plotted [illegible] Job No. ____ Division No. 11 F. B. 2904 Pg. 53

X-Sec. No. ____ Date 8-2-60 Date 10-4-60 Survey of [illegible]

Notes Chkd. C.W.H. Checked C.W.H. Survey by [illegible] Notes [illegible] Date [illegible]

Date 8-4-60 Date 10-5-60 Map No. ____ Indexed H. E. OTT Date ____

F. B. 2804 Pg. 34 | Job No. 0300.02 | Division No. 11 | Notes Red | Plotted | Profile

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

Survey by Lind | Notes Goodwin | Notes Chkd | Checked | X-Sec.

Indexed | Date | Date | Date | No.

H. E. OTT

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

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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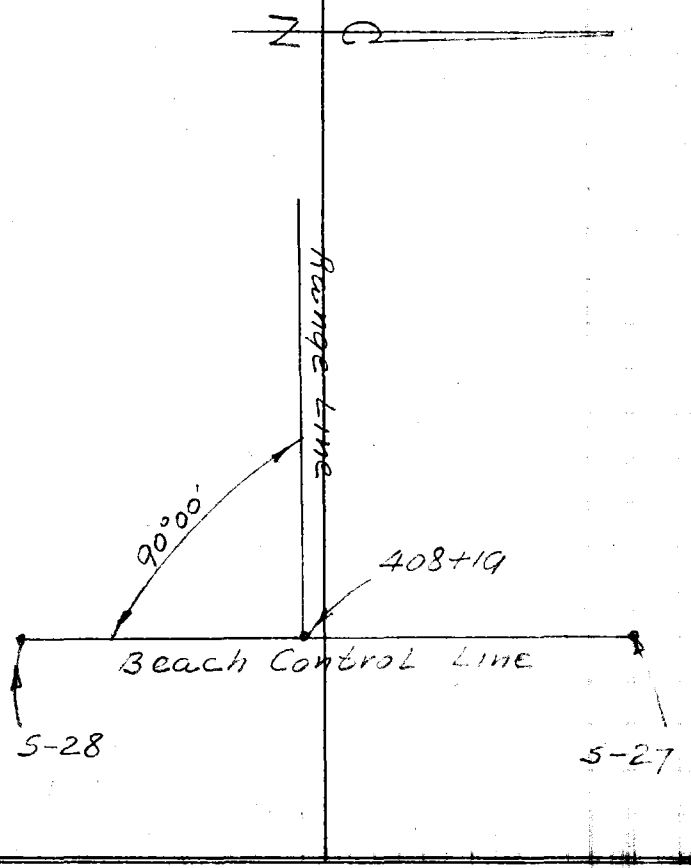
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B.S.	H.I.	F.S.	ELEV.	
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor.Ang.	Remarks
		1		8 30	90° 00'	
		2			" "	
		3			" "	
		4			" "	
		5			" "	
		6			" "	
		7			" "	
		8			" "	
408+19	5-28	9			" "	
		10			" "	
		11			" "	
		12			" "	
		13			" "	
		14			" "	
		15			" "	
		16			" "	
		17			" "	
		18			" "	
		19			" "	
		20			" "	



Profile Notes Red J.S.H. Plotted J.S.H. Job No. 03002 Division No. 11 F.B. 2304 Pg. 35
Date 8-2-60 Date 10-4-60 Survey of Beach Erosion Studies
No. X-Sec. Notes Chkd. C.W.H. Checked C.W.H. Survey by Notes Date
No. Date 8-4-60 Date 10-5-60 Map No. Indexed Date

F.B. 2804 Pg. 36 | 0300.02

Job No. _____ Division No. 11 Notes Red J.S.H. Plotted J.S.H Profile

Survey of Beach Erosion Studies Date 8-2-60 Date 10-4-60 No. _____

Survey by Uharriet Notes Teeboom Notes Chkd. C.W.H. Checked C.W.H. X-Sec.

Indexed H.E. Ott Date _____ Date 8-4-60 Date 10-5-60 No. _____

STATION	B.S.	H.I.	F.S.	ELEV.	
Inst. At 408-19					
Sight On 5-28					
#	21				
	22				
	23				
	24				
Depth Rec. Adj.					
Time			833		
Hor. Ang.				90°00'	
Remarks					

76L-298 CE 307 11-58

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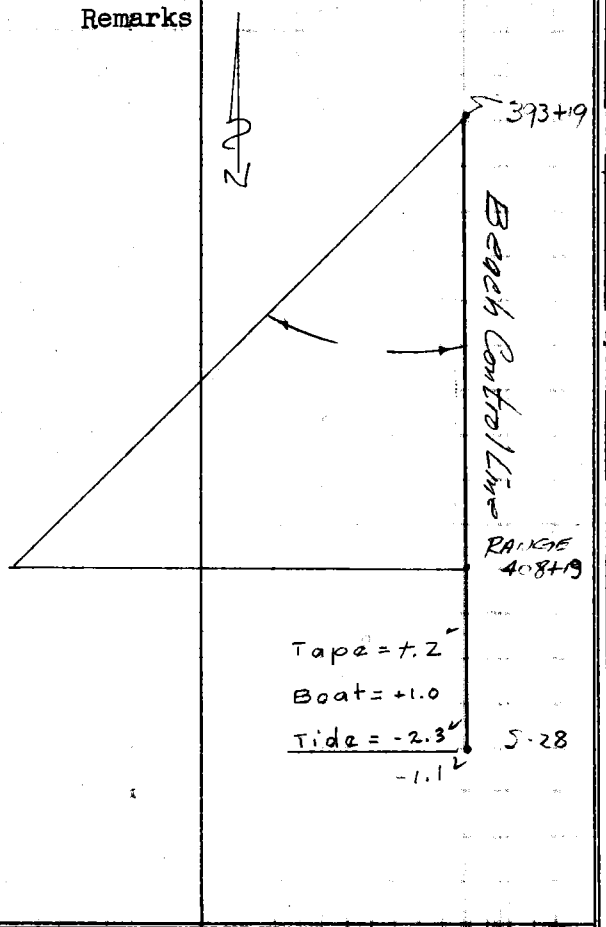
Profile No. _____ X-Sec. _____ Notes Red. J. S. H. Plotted J. S. H. Job No. 03002 Division No. 11 F.B. 2834 Pg. 37
Data 8-2-60 Date 10-4-60 Survey of BEACH EROSION STUDIES
Notes Chkd. C. W. H. Checked C. W. H. Survey by WHOPPER Notes SMITH Date 7-11-60
Date 8-4-60 Date 10-5-60 Map No. _____ Interest _____ Office _____

STATION Inst. At	Sight On	B.S. #	H.I. Rec.	H.I. Adj.	F.S. Time	ELEV. Hor. Ang.	Distance	Remarks
393+19	5-28	1	30.3	29.2	8-30	46°-00'	1,554	
"	"	2	28.9	27.8		44°-33'	1,476	
"	"	3	28.2	27.1		43°-03'	1,401	
"	"	4	27.3	26.2		42°-37'	1,380	
"	"	5	25.7	24.6		40°-36'	1,286	
"	"	6	24.9	23.8		39°-00'	1,215	
"	"	7	23.4	22.3		37°-40'	1,158	
"	"	8	22.1	21.0		35°-56'	1,088	
"	"	9	21.2	20.1		34°-27'	1,029	
"	"	10	19.9	18.8		32°-35'	959	
"	"	11	18.7	17.6		31°-05'	904	
"	"	12	17.5	16.4		29°-44'	857	
"	"	13	16.7	15.6		28°-20'	809	
"	"	14	15.5	14.4		26°-45'	756	
"	"	15	14.2	13.1		25°-35'	718	
"	"	16	13.8	12.7		24°-29'	683	
"	"	17	12.5	11.4		22°-55'	634	
"	"	18	11.7	10.6		21°-55'	603	
"	"	19	11.0	9.9		20°-41'	567	
"	"	20	10.0	8.9		19°-33'	533	



F. B. 2804 Pg. 38 Job No. 0300.02 Division No. 11 Notes Red J. S. H. Plotted J. S. H. Profile

Survey of BEACH EROSION STUDIES Date 8-2-60 Date 10-4-60 No. X-Sec.

Survey by WHARNET Notes SMITH N Notes Chkd. C. W. H. Checked C. W. H. No.

Indexed M. E. OTT Date Date 8-4-60 Date 10-5-60

76L-298 CE 307 11-58

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STATION		B.S.	H.I.		F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Distance	Remarks
39+19	S-28	21	9.3	8.2		18°04	489	Tape +.2
"	"	22	7.4	6.3		16° 35'	447	Boat = +1.0
"	"	23	7.8	6.7		15°29	416	Tide = -2.3'
"	"	24	7.3	6.2	8-33	14°08	378	-1.1

76L-298 S & E #307—1-56

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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. B.	ELEV.	INST. @ 399+19			HEIGHT OF INST. 20.49
		12.5						
T.P.	T.P.	16.5	5.0	[illegible]				
402+19			4.2	[illegible]				
			6.8	[illegible]				
			11.8	4.7				
			11.8	4.7	T.P.			
T.P.	3.3	8.0						
403+19			4.9	0.4	3.2	9° 07'	80'	
			7.3	-2.1	0.7	14° 31'	129'	
			7.8	-2.6	0.2	17° 55'	162'	
			8.8	-3.6	-0.8	22° 29'	207'	
			9.7	-4.5	-1.7	26° 12'	246'	
			10.8	-5.6	-2.8	30° 05'	290'	
			12.4	-7.2	-4.4	33° 42'	333'	
			14.3	-9.1	-6.3	37° 35'	385'	
			15.3	-10.1	-7.3	40° 19'	424'	

DATUM
MEAN LOWER LOW WATER

403+19
INSHORE

CONTROL LINE

33' [illegible]

Profile No. ____ Notes Red. J. S. H. Plotted J. S. H. Job No. ____ Division No. 11 F. B. 2604 Pg. [illegible]
Date 8-2-60 Date 10-4-60 Survey of [illegible]
X-Sec. No. ____ Notes Chkd. C. W. H. Checked C. W. H. Survey by ____ Notes ____ Date ____
Date 8-4-60 Date 10-5-60 Map No. ____ Indexed H. E. OTT Date ____

F. B. 2804 Pg. 40

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

Survey of Beach Erosion Studies Date _____ Date _____ No. _____

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

Indexed M. E. OTT Date _____ Date _____ Date _____ No. _____

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

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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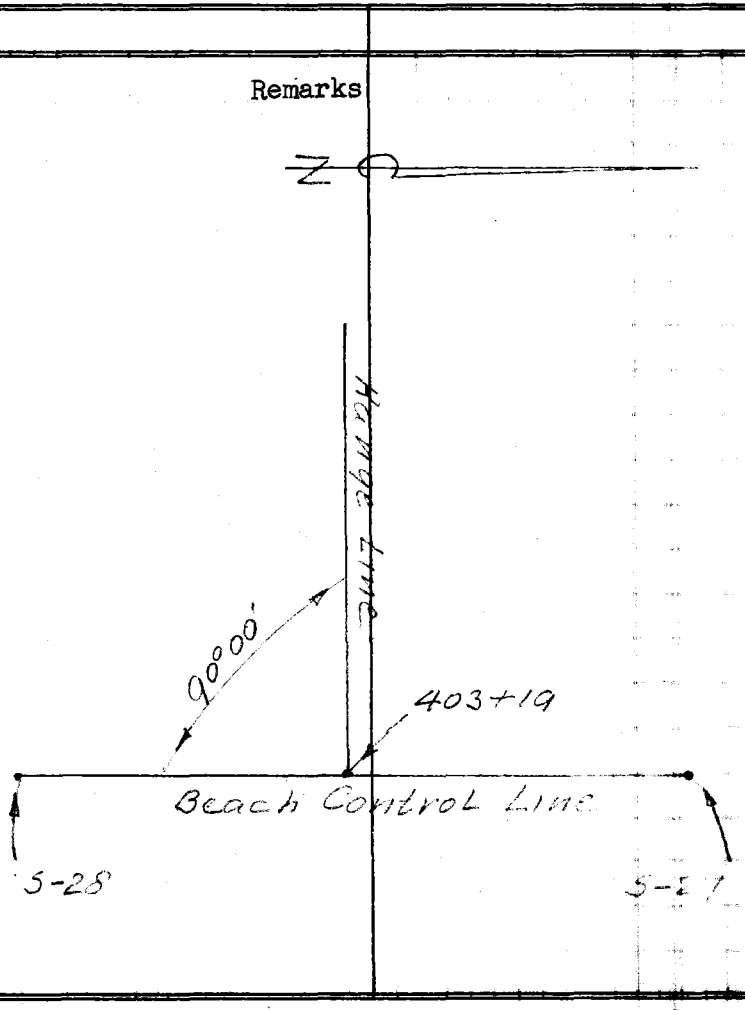
Do not extend notes this side of this line.

STATION		B.S.	H.I.	F.S.	ELEV.	
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks
		1		8 46	90° 00'	
		2			" "	
		3			" "	
		4			" "	
		5			" "	
		6			" "	
		7			" "	
		8			" "	
		9			" "	
403+19	5-28	10			" "	
		11			" "	
		12			" "	
		13			" "	
		14			" "	
		15			" "	
		16			" "	
		17			" "	
		18			" "	
		19			" "	
		20			" "	



Profile Notes Red J.S.H. Plotted J.S.H. Job No. 23002 Division No. 11 F.B. 2904 Pg. 41
Date 8-2-60 Date 10-4-60 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. C.W.H. Checked C.W.H. Survey by Notes Date
No. Date 8-4-60 Date 10-5-60 Map No. Index H & OT Date

F. B. 2804 PG. 42 | Job No. 0300.02 | Division No. 11 | Notes Red | Plotted | Profile

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

Survey by Uharriet Notes Teeboom | Notes Chkd. | Checked | X-Sec.

Indexed H. E. Ott | Date | Date | Date | 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.	Remarks
Inst. At 403+19 Sight On 5+28	# 21 22 23	Depth Rec. Adj.	Time 8 50	Hor. Ang.	

76L-298 CE 307 11-58

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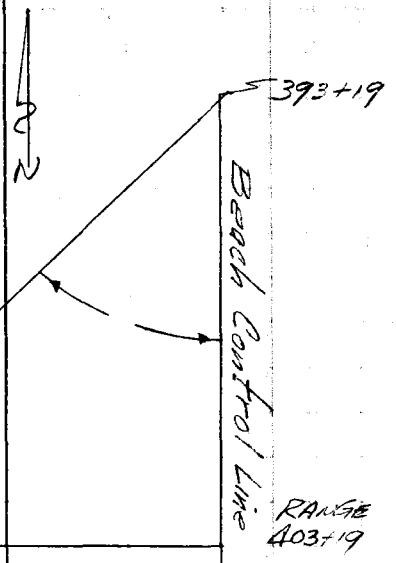
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK. WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile No. ____ X-Sec. ____ Notes Red J.S.H. Plotted J.S.H. Job No. 03002 Division No. 11
Date 8-2-60 Date 10-4-60 Survey of BEACH EROSION STUDIES
Notes Chkd. C.W.H. Checked C.W.H. Survey by [illegible] Notes [illegible] Date 7-11-60
Date 8-4-60 Date 10-5-60 Map No. ____ Tracing [illegible]

F.B. 2904 Pg. 43

STATION Inst. At	Sight On	B.S.	#	H.I. Depth Rec.	Adj.	F.S.	Time	ELEV.	Hor. Ang.	Distance	Remarks
393+19	5-28		1	31.1	29.7		8.46		54°-55'	1,424	
"	"		2	29.7	28.3				53°-51'	1,369	
"	"		3	27.8	26.4				52°-43'	1,314	
"	"		4	26.2	24.8				50°-55'	1,231	
"	"		5	25.9	24.5				49°-34'	1,174	
"	"		6	23.4	22.0				47°-01'	1,073	
"	"		7	22.8	21.4				45°-46'	1,027	
"	"		8	21.5	20.1				44°-55'	997	
"	"		9	20.6	19.2				42°-37'	920	
"	"		10	19.5	18.1				41°-08'	873	
"	"		11	18.1	16.7				39°-56'	837	
"	"		12	17.2	15.8				38°-18'	790	
"	"		13	16.1	14.7				36°-43'	746	
"	"		14	15.0	13.6				34°-55'	698	
"	"		15	13.8	12.4				33°-50'	670	
"	"		16	12.5	11.1				31°-00'	601	
"	"		17	11.8	10.4				29°-43'	571	
"	"		18	11.1	9.7				27°-56'	530	
"	"		19	9.8	8.4				26°-15'	493	
"	"		20	9.1	7.7				24°-56'	465	



Tape = +.2
Boat = +1.0
Tide = -2.6
-1.4

76L-298 CE 307 11-58

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F. B. 2804 Pg. 44 Job No. 0300.02 Division No. 11 Notes Red J. S. H. Plotted J. S. H. Profile
Survey of BEACH EROSION STUDIES Date 8-2-60 Date 10-4-60 No. X-Sec.
Survey by WHARPIET Notes SMITH N. Notes Chkd. C. W. H. Checked C. W. H. No.
Indexed H. E. OTT Date Date 8-4-60 Date 10-5-60 No.

STATION		B.S.	H.I.		F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Depth Adj.	Time	Hor. Ang.	Distance	Remarks
39319	5-28	21	8.5	7.1		23°-10'	428	Tape = +0.2
"	"	22	7.8	6.4		21°-41'	398	Boat = +1.0
"	"	23	6.3	4.9	8-50	19°-46'	359	Tide = -2.6
								-1.4

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 403+19	SIGHT ON 398+19
SWIM PARTY T.P.	10 27	15 00		4 73	DATUM MEAN LOWER LOW WATER	398+19 INSHORE
"	6 08	17 17	3 91	11 09		
398+19			4 9	12 3	CONTROL LINE	
"			1 2	16 0	44' LT. TOE SLP.	
"			12 5	4 7	MEAN TIDE LINE 56' RT.	
T.P. FOR SWIM PARTY			10 76	6 41	T.P.	
	20	8 4				
398 + 19			5 5	2.9	14° 08'	126'
"			8 6	-0.2	18° 20'	166'
"			9 9	-1.5	22° 21'	206'
"			11 7	-3.3	27° 32'	261'
"			11 1	-3.7	32° 00'	312'
			13 7	-4.3	36° 15'	367'
			14 6	-5.2	39° 32'	413'
			15 4	-7.0	43° 00'	466'
			17 0	-8.6	46° 15'	522'

Profile No. ____ Notes Red J. S. H. Plotted J. S. H. Job No. ____ Division No. 11
X-Sec. ____ Date 8-2-60 Date 10-4-60 Survey of ____
Notes Chkd. C. W. H. Checked C. W. H. Survey by ____ Notes ____ Date 7-11-60
Date 8-4-60 Date 10-5-60 Map No. ____ Indexed D. E. Oil Date ____

F. B. 2604 PG. 45

F. B. 2804 Pg. 46 | Job No. 0300.02 | Division No. 11 | Notes Red | Plotted | Profile

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

Survey by Lind | Notes Goodwin | Notes Chkd | Checked | X-Sec.

Indexed H. E. OTT | Date | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.
		15 00		

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76L-298 S & E #307—1-56

76L-298 CE 307 11-56

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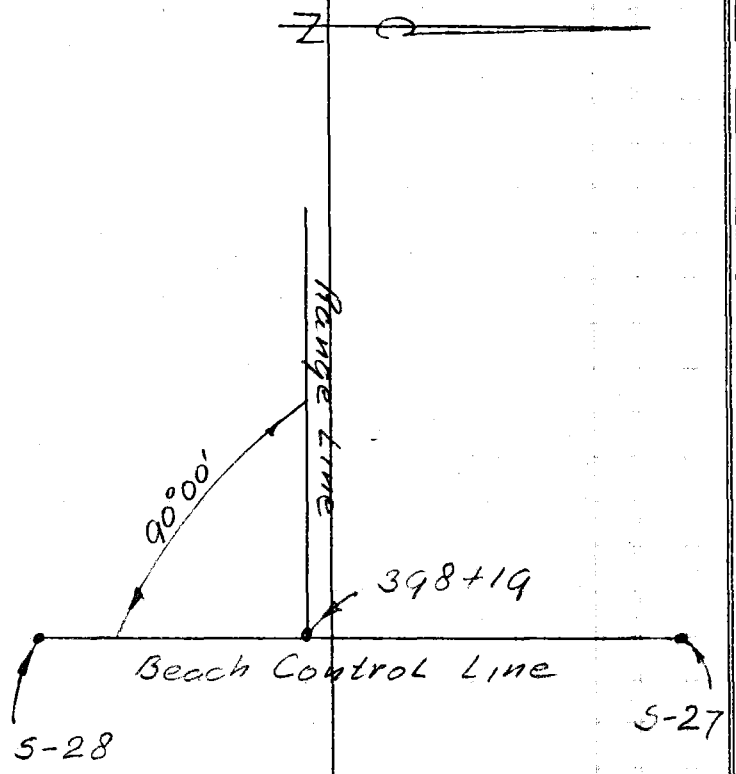
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
398+19	5-28	1			9 05	90° 00'	
		2				"	
		3				"	
		4				"	
		5				"	
		6				"	
		7				"	
		8				"	
		9				"	
		10				"	
		11				"	
		12				"	
		13				"	
		14				"	
		15				"	
		16				"	
		17				"	
		18				"	
		19				"	
		20				"	



Profile Notes Red J. S. H. Plotted J. S. H. Job No. 0300.02 Division No. 11
No. Date 8-2-60 Date 10-4-60 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. C. W. H. Checked C. W. H. Survey by Unknown Notes Tech. Date 7-11-50
No. Date 8-4-60 Date 10-5-60 Map No. Tracked R. E. OH Date
F. B. 2804 Pg. 47

F.B. 2804 PG. 48 | Job No. 0300.02 | Division No. 11 | Notes Red J. S. H. | Plotted J. S. H. | Profile No.

Survey of Beach Erosion Studies | Date 8-2-60 | Date 10-4-60 | X-Sec. No.

Survey by Uharriet Notes Teeboom | Notes Chkd. C. W. H. | Checked C. W. H.

Indexed H. E. OTT | Date | Date 8-4-60 | Date 10-5-60 | 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.

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STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At 398+19					
Sight On 5-28					
	# 21	Depth Rec. Adj.	Time	Hor. Ang.	
	22				
	23				
	24				
	25				
	26				
	27		909		

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.

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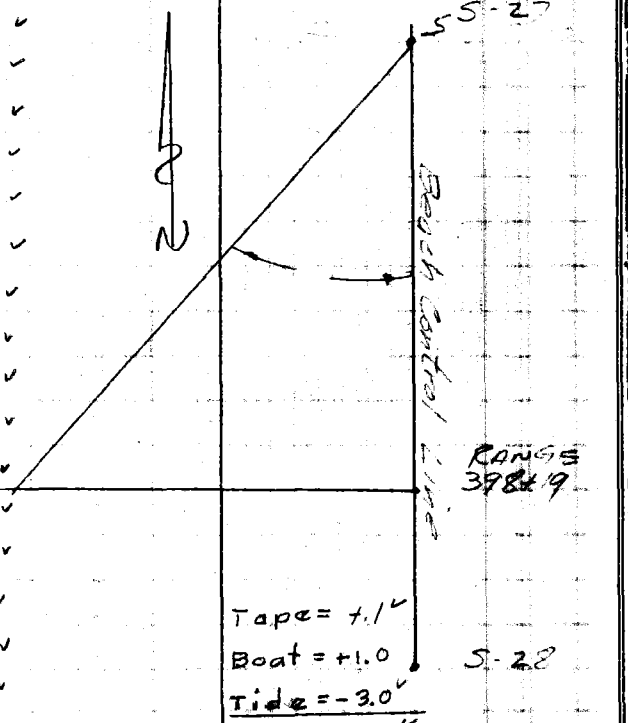
Profile Notes Red J. S. H. Plotted J. S. H. Job No. 0300.02 Division No. 11 F. B. 2804 Pg. 49
No. Date 8-2-60 Date 10-4-60 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. C. W. H. Checked C. W. H. Survey by [illegible] Notes [illegible] Date 7-11-60

STATION		B.S.	H.I.		F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Distance	Remarks
S-27	S-28	1	35.2	33.3	9-05	60°-16'	1,751	
"	"	2	34.0	32.1		58°-59'	1,663	
"	"	3	33.0	31.1		57°-28'	1,568	
"	"	4	32.1	30.2		56°-15'	1,497	
"	"	5	30.9	29.0		54°-37'	1,408	
"	"	6	30.0	28.1		53°-23'	1,346	
"	"	7	29.1	27.2		52°-18'	1,294	
"	"	8	28.8	26.9		50°-57'	1,233	
"	"	9	27.3	25.4		49°-03'	1,152	
"	"	10	25.7	23.8		47°-04'	1,075	
"	"	11	24.6	22.7		45°-21'	1,012	
"	"	12	23.3	21.4		43°-30'	949	
"	"	13	22.5	20.6		41°-55'	898	
"	"	14	20.9	19.0		40°-10'	844	
"	"	15	19.5	17.6		38°-50'	805	
"	"	16	18.4	16.5		37°-11'	759	
"	"	17	16.6	14.7		35°-09'	704	
"	"	18	15.2	13.3		33°-38'	665	
"	"	19	14.1	12.2		32°06'	627	
"	"	20	13.3	11.4		30°-53'	598	



76L-298 CE 307 11-58

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F. B. 2804 Pg. 50 | Job No. 0300.02 | Division No. 11 | Notes Red J. S. H. Plotted J. S. H. | Profile No.

Survey of BEACH EROSION STUDIES | Date 8-2-60 | Date 10-4-60 | X-Sec. No.

Survey by WARREN | Notes SMITH N | Notes Chkd. C. W. H. Checked C. W. H. | No.

Indexed H. E. OTT | Date | Date 8-4-60 | Date 10-5-60

STATION		B.S.	H.I.		F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Distance	Remarks
5-27	5-28	21	12.4	10.4		29°-20'	562	
"	"	22	11.1	9.1		28°-10'	535	Tape = +0.1
"	"	23	10.6	8.6		26°-46'	504	Boat = +1.0
"	"	24	9.9	7.9		25°-07'	469	Tide = -3.1
"	"	25	8.4	6.4		23°-18'	431	-2.0
"	"	26	7.8	5.8		22°-02'	405	
"	"	27	7.7	5.7	9-09	20°-02'	365	

Notes Ck'd by J. S. H.	Survey of Beach Erosion Studies
Map No.	JN [illegible] Tape Std °F
Office Work J. S. H.	Surveyed by Uharriet
Checked C. W. H.	Notes Blanchard Date 7-12-60
Date 8-10-60	Indexed

H. E. Ott

F. B. 2804 PG. 54

TIDE GAUGE READINGS

JULY 12, 1960

DATUM - M.L.L.W.

TIME - P.S.T.

TIME P.S.T.	GAUGE READING M.L.L.W.
5:00 A.M.	-0.2 ft.
5:30	-0.4
6:00	-0.5
6:30	-0.3
7:00	-0.1
7:30	0.3
8:00	0.8
8:30	1.4
9:00	2.0
9:30	2.6
10:00	3.2
10:30	3.8
11:00	4.2

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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76F309S S&E #247 1-56

F. B. 2804 PG. 52

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76L-298 S & E #307—1-56

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 398+19	SIGHT @ 398+19
[illegible]	[illegible]	18.22		11.5	DATUM MEAN LOWER LOW WATER	393+19 INSHORE
T.P.	5.45	[illegible]	[illegible]	[illegible]		
398+19			[illegible]	[illegible]	[illegible]	
			5.0	15.8	[illegible]	
			[illegible]	[illegible]		25' Ft. [illegible]
			14.[illegible]	4.7	[illegible]	
T.P.			11.[illegible]	7.4	T.P.	
	00	70				Distance out
393+19			5.1	1.9	13° 43'	122
"			8.4	-1.4	21° 15'	194
"			9.0	-2.0	23° 32'	250
"			10.8	-3.8	32° 16'	316
"			12.7	-5.7	36° 29'	368
"			14.3	-7.3	39° 55'	418
"			15.5	-8.5	43° 10'	469
"			16.9	-9.9	44° 45'	496

Profile Notes Red J.S.H. Plotted J.S.H. Job No. Division No. 11 F. B. 2804 Pg. 53
No. Date 8-3-60 Date 10-6-60 Survey of [illegible] STUDIES
X-Sec. Notes Chkd. C.W.H. Checked H.H. Survey by Notes Date
No. Date 8-5-60 Date 10-7-60 Map No. Indexed H. E. OTT Date

F. B. 2804 Pg. 54 | Job No. 0300.02 | Division No. 11 | Notes Red | Plotted | Profile

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

Survey by Lind | Notes Goodwin | Notes Chkd. | Checked | X-Sec.

Indexed H. E. OTT | 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.

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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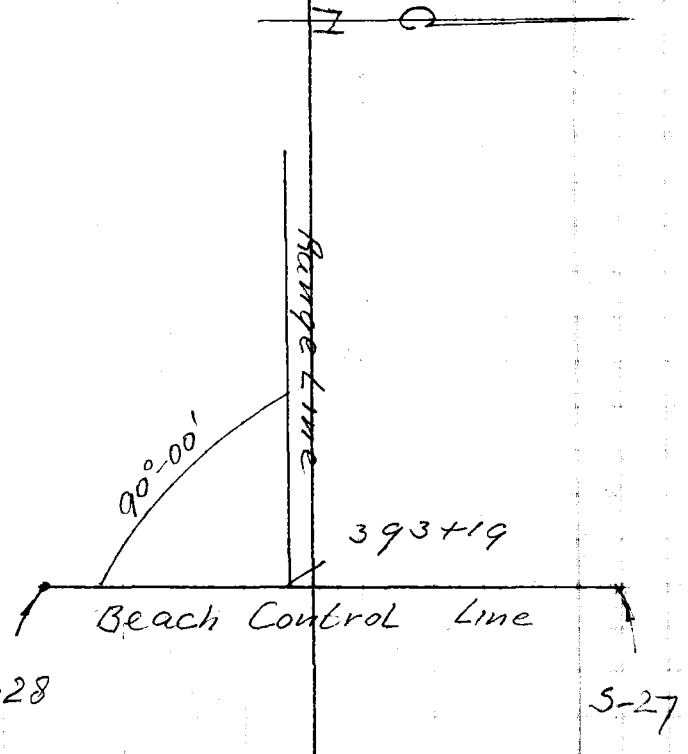
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
		1			520	90° 00'	
		2				" "	
		3				" "	
		4				" "	
		5				" "	
		6				" "	
		7				" "	
		8				" "	
		9				" "	
393+19	5-28	10				" "	
		11				" "	
		12				" "	
		13				" "	
		14				" "	
		15				" "	
		16				" "	
		17				" "	
		18				" "	
		19				" "	
		20				" "	



Profile Notes Red J.S.H. Plotted J.S.H. Job No. 0300.02 Division No. 11 F.B. 2804 Pg. 55
No. X-Sec. Date 8-3-60 Date 10-6-60 Survey of Beach Erosion Studies
Notes Chkd. C.W.H. Checked C.W.H. Survey by [illegible] Notes [illegible] Date 7-12-60
No. Date 8-5-60 Date 10-7-60 Map No. Indexed K.E. Ott Date

F.B. 2804 Pg. 56 | 0300.02

Job No. _____ Division No. 11 Notes Red J. S. H. Plotted J. S. H. Profile

Survey of Beach Erosion Studies Date 8-3-60 Date 10-6-60 No. _____

Survey by Uharnet Notes Teeboom Notes Chkd. C. W. H. Checked C. W. H. X-Sec.

Indexed H. E. OTI Date 7-12-60 Date 8-5-60 Date 10-7-60 No. _____

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At 393+19					
Sight On 5-28					
# Depth Rec. Adj.	21 22				
Time			522		
Hor. Ang.				90°00	

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-266 CE 307 11-58

76L-298 CE 307 11-58

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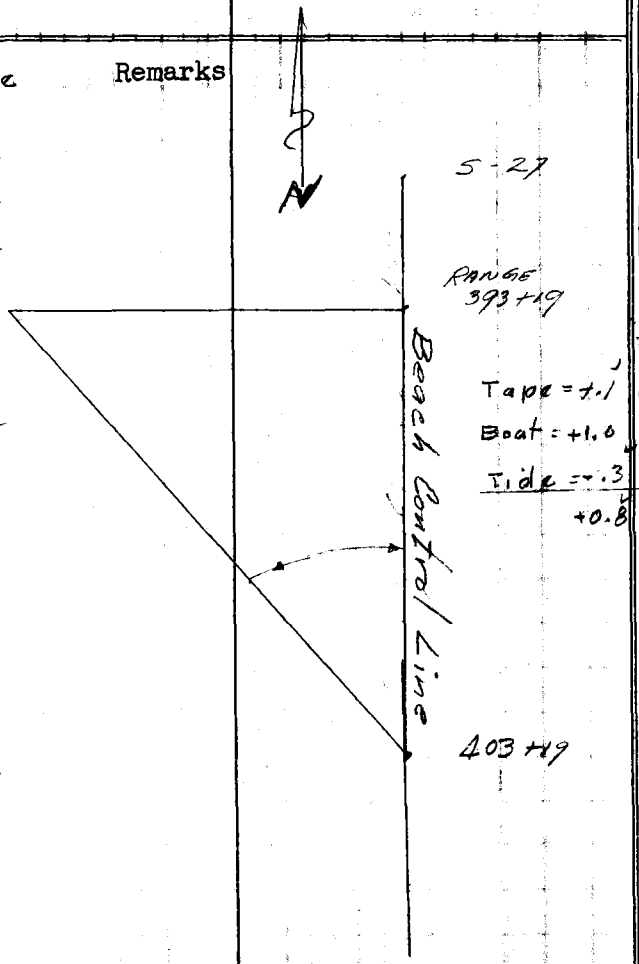
Profile No. ____ X-Sec. No. ____ Notes Red J.S.H. Plotted J.S.H. Job No. 0300.02 Division No. 11
Date 8-3-60 Date 10-6-60 Survey of BEACH EROSION STUDIES
Notes Chkd. C.W.H. Checked C.W.H. Survey by ____ Notes ____ Date 1-16-66
Date 8-5-60 Date 10-7-60 Map No. ____ Indexed ____ Date ____

F.B. 2804 PG. 57

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.	Distance	Remarks
403+19	5-27	1	32.1	32.9	5-20	60°-00'	1,732	
		2	31.4	32.2		58°-55'	1,659	
		3	30.3	31.1		57°-18'	1,558	
		4	28.6	29.4		55°-33'	1,458	
		5	27.9	28.7		53°-54'	1,371	
		6	26.1	26.9		52°-17'	1,293	
		7	25.2	26.0		50°-42'	1,222	
		8	24.8	25.6		49°-09'	1,157	
		9	23.8	24.6		47°-30'	1,091	
		10	22.1	22.9		46°-12'	1,043	
		11	21.5	22.3		44°-16'	975	
		12	20.2	21.0		42°-48'	926	
		13	19.9	20.7		41°-34'	887	
		14	19.4	20.2		40-23'	851	
		15	18.3	19.1		39°-12'	816	
		16	17.5	18.3		38°-17'	789	
		17	16.7	17.5		36°-53'	750	
		18	15.1	15.9		35°-56'	725	
		19	14.1	14.9		34°-44'	693	
		20	13.5	14.3		33-21	658	



F. B. 2804 Pg. 58 Job No. 0300.02 Division No. 11 Notes Red J. S. H. Plotted J. S. H. Profile

Survey of BEACH EROSION STUDIES Date 8-3-60 Date 10-6-60 No.

Survey by U/HARRIET Notes SMITH N Notes Chkd. C. W. H. Checked C. W. H. X-Sec.

Indexed H. E. OTT Date Date 8-5-60 Date 10-7-60 No.

76L-296 CE 307 11-58

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STATION	Inst. At	Sight On	B.S.	# Rec.	H.I.	Depth Adj.	F.S.	Time	ELEV.	Hor. Ang.	Distance	Remarks
403+19												
		S-27										
				21	12.2	13.0				32°-14	631	
				22	11.5	12.3		5-22		30°-48	596	

Tape = +0.1'
Boat = +1.0
Tide = -0.3'
+0.8'

76L-298 S & E #307—1-56

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. @ 383+00	SIGHT ON 388+00
		18.77			DATUM MEAN LOWER LOW WATER	388+00 INSHORE
	6.00					
380+00					CONTROL LINE	
			3.8	1.5	27' LT. TOE SLP.	
						38' RT. TO SUK
			8.1	4	AT TOE	33' RT.
383+00	0.9	7.1				
			6.0	1.1	15° 50'	142'
			8.6	-1.5	23° 15'	215'
			9.8	-3.7	28° 20'	270'
			11.5	-4.4	31° 50'	310'
			12.3	-5.7	34° 30'	344'
			14.3	-7.2	36° 40'	372'
			14.3	-7.3	39° 07'	407'
			16.0	-8.3	41° 28'	442'

Profile Notes Red Plotted Job No. Division No. 11 F. B. 2804 Pg. 59
No. Date 8-5-60 Date 10-6-60 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked WH Survey by Notes Date
No. Date 8-5-60 Date 10-7-60 Map No. Indexed H. E. OTT Date

F. B. 2804 Pg. 60 | Job No. 0300.02 | Division No. 11 | Notes Red | Plotted | Profile

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

Survey by Lind | Notes Goodall | Notes Chkd | Checked | X-Sec.

Indexed H. E. OTT | Date | Date | Date | No.

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

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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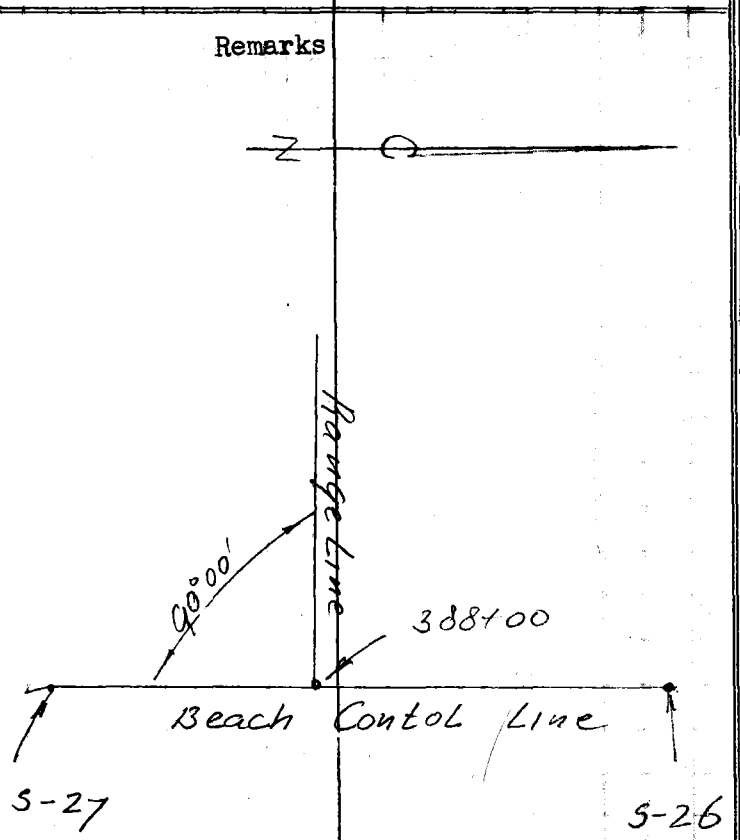
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B.S.	H.I.	F.S.	ELEV.
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.
		1		555	90° 00'
		2			" "
		3			" "
		4			" "
		5			" "
		6			" "
		7			" "
		8			" "
		9			" "
388+00	S-27	10			" "
		11			" "
		12			" "
		13			" "
		14			" "
		15			" "
		16			" "
		17			" "
		18			" "
		19			" "
		20		558	" "

Remarks



Profile Notes Red J.S.H. Plotted J.S.H. Job No. 03002 Division No. 11 F.B. 2804 Pg. 61
No. X-Sec. Date 8-3-60 Date 10-6-60 Survey of Beach Erosion Studies
No. Notes Chkd. Checked Survey by Notes Date 7-12-60
Date 8-5-60 Date 10-7-60 Map No. Indexed Date

F.B. 2804 Pg. 62 | 0300.02

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

Survey of Beach Erosion Studies Date _____ Date _____ No. _____

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

Indexed H. E. OTT Date 7-12-60 Date _____ Date _____ No. _____

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At 388+00	Sight On 5-27	# Rec. Adj.	Depth Time	Hor.Ang.	

Do not extend notes this side of this line.

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76L-296 CE 307 11-58

76L-298 CE 307 11-58

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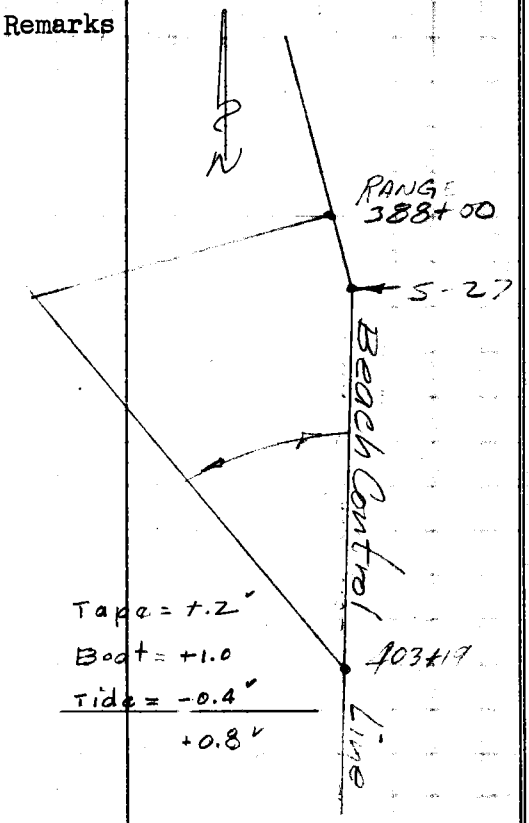
Profile No. ____ Notes Red J.S.H. Plotted J.S.H. Job No. 0300.02 Division No. 11 F.B. 2804 Pg. 63
X-Sec. No. ____ Data 8-3-60 Date 10-6-60 Survey of BEACH EROSION STUDIES
Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date 7-12-60
Data 8-5-60 Date 10-7-60 Map No. ____ Indexed ____ Date ____

STATION Inst. At	Sight On	B.S.	H.I.	Depth #	Rec.	Adj.	F.S.	Time	ELEV. Hor. Ang.		Remarks
403+19	5-27			1	32.1	32.9		5-55	49°-13'	1,626	
				2	30.1	30.9			46°-49'	1,507	
				3	28.1	28.9			44°-54'	1,417	
				4	26.5	27.3			41°-45'	1,278	
				5	25.4	26.2			39°-45'	1,196	
				6	24.0	24.8			37°-40'	1,115	
				7	23.1	23.9			35°-42'	1,039	
				8	21.5	22.3			34°-30'	997	
				9	21.3	22.1			32°-47'	937	
				10	19.9	20.7			31°-12'	884	
				11	18.5	19.3			30°-06'	847	
				12	18.0	18.8			28°-45'	805	
				13	16.5	17.3			27°-27'	762	
				14	15.6	16.4			26°-32'	733	
				15	15.0	15.8			25°-28'	700	
				16	13.9	14.7			24°-35'	673	
				17	12.7	13.5			23°-25'	639	
				18	11.9	12.7			22°-21'	609	
				19	11.5	12.3		5-	20°-02'	570	
				20	9.9	10.7		5-58	20°-18'	548	



Tape = +.2'
Boat = +1.0
Tide = -0.4'
+0.8'

F. B. 2804 Pg. 64 Job No. 0300.02 Division No. 11 Notes Red _____ Plotted _____ Profile

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

Survey by CHARRIET Notes SMITH N. Notes Chkd. _____ Checked _____ X-Sec.

Indexed H. E. On Date _____ Date _____ Date _____ No. _____

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At	Sight On	Depth # Rec. Adj.	Time	Hor. Ang.	
403+19					
S-27					

Do not extend notes this side of this line.

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76L-298 CE 307 11-58

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 378+00	[illegible]
					DATUM MEAN LOWER LOW WATER	383+00 INSHORE
515+00					CONTROL LINE	
					5[illegible]' LT. TO 5[illegible]	
						34' RT. TO [illegible]
					[illegible] TO LINE	70' RT.
	0.5	3.2				
520+00			7[illegible]	[illegible]	14°00'	125'
			[illegible]	[illegible]	19°[illegible]'	180'
			[illegible]	[illegible]	26°50'	253'
			15[illegible]	[illegible]	31°28'	306'
			16[illegible]	[illegible]	34°10'	339'
			170	[illegible]	36°30'	370'

Profile No. ____ Notes Red. [illegible] Date [illegible] Plotted [illegible] Date 10-6-60 Job No. ____ Division No. 11 F. B. 7004 Pg. 65

X-Sec. No. ____ Notes Chkd. [illegible] Date 8-3-60 Checked [illegible] Date 10-7-60 Survey of BEACH EROSION STUDIES Survey by [illegible] Map No. ____ Notes [illegible] Date [illegible] Indexed H. E. Ott Date ____

F. B. 2804 Pg. 66

Job No. 0300-02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion Studies Date _____ Date _____ No. _____

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

Indexed H. E. OTT Date _____ Date _____ Date _____ No. _____

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

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76L-298 S & E #307—1-56

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.

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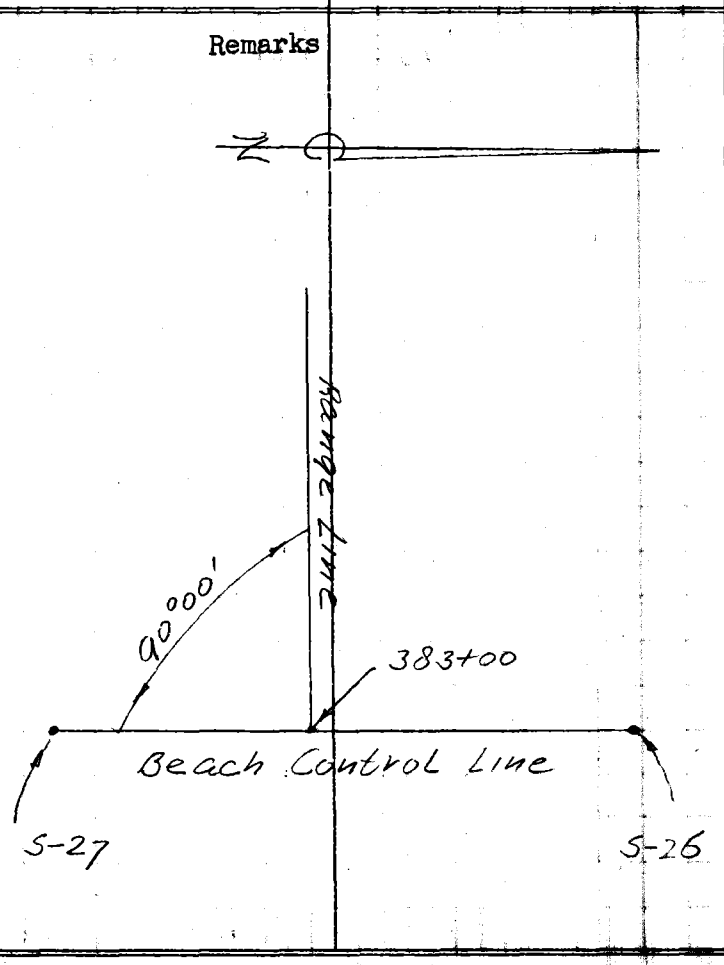
STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor.Ang.	Remarks
383+00	S-27	1		617	90° 00'	
		2			" "	
		3			" "	
		4			" "	
		5			" "	
		6			" "	
		7			" "	
		8			" "	
		9			" "	
		10			" "	
		11			" "	
		12			" "	
		13			" "	
		14			" "	
		15			" "	
		16			" "	
		17			" "	
		18			" "	
		19			" "	
		20			" "	



Profile No. X-Sec. No.
Notes Red J.S.H. Plotted J.S.H. Job No. 0300.02 Division No. 11
Data 8-3-60 Date 10-6-60 Survey of Beach Erosion Studies
Notes Chkd. Checked Survey by Notes Date 1-12-60
Date 8-5-60 Date 10-7-60 Map No. Indexed Date
F.B. 2804 PG. 67

F. B. 2804 PG. 68 | Job No. 0300.02 | Division No. 11 | Notes Red J. S. H. | Plotted J. S. H. | Profile

Survey of Beach Erosion Studies | Date 8-3-60 | Date 10-6-60 | No.

Survey by Uharriet Notes Teeboom | Notes Chkd. C. W. H. | Checked C. W. H. | X-Sec.

Indexed H. E. OTT | Date 7-12-60 | Date 8-5-60 | Date 10-7-60 | No.

76L-298 CE 307 11-58

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STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At 383+00	Sight On 5-27	# Depth Rec. Adj. 21	Time 620	Hor. Ang. 90°00'	

76L-298 CE 307 11-58

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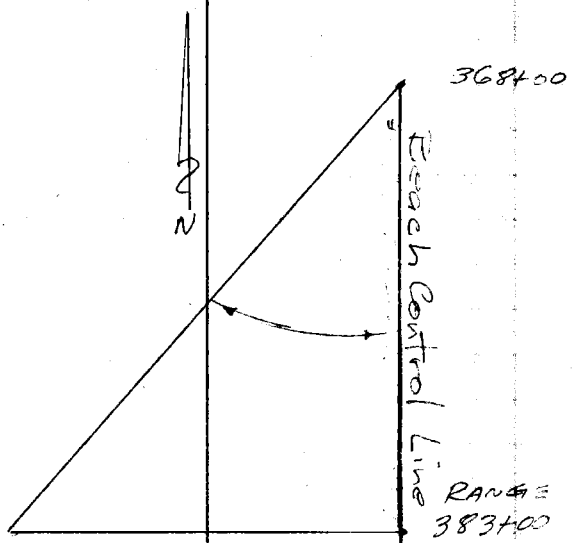
Profile No. ____ X-Sec. No. ____ Notes Red J.S.H. Plotted J.S.H. Job No. 0300.02 Division No. 11
Date 8-3-60 Date 10-6-60 Survey of BEACH EROSION STUDIES
Notes Chkd. C.W.H. Checked ____ Survey by WHITE Notes Smith Date 7-12-60
Date 8-5-60 Date 10-7-60 Map No. ____ Indexed H. E. OH Date ____
F.B. 2804 PG. 69

STATION Inst. At	Sight On	#	B.S.	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	Hor. Ang.	Distance	Remarks
368+00	5-27	1		28.9	29.7	6-17	42°-11'	1,359	
		2		28.2	29.0		41°-11'	1,313	
		3		28.3	29.1		39°-56'	1,256	
		4		26.6	27.4		37°-31'	1,152	
		5		25.7	26.5		36°-17'	1,101	
		6		24.6	25.4		35°-03'	1,053	
		7		23.4	24.2		33°-45'	1,002	
		8		22.3	23.1		32°-05'	940	
		9		21.1	21.9		31°-04'	903	
		10		20.2	21.0		29°-46'	858	
		11		19.8	20.6		28°-24'	812	
		12		17.2	18.0		26°-57'	762	
		13		16.5	17.3		26°-14'	739	
		14		15.8	16.6		24°-47'	693	
		15		15.0	15.8		24°-15'	675	
		16		14.2	15.0		23°-33'	654	
		17		13.4	14.2		22°-24'	618	
		18		12.3	13.1		21°-25'	588	
		19		11.4	12.2		20°-27'	559	
		20		10.6	11.4		19°-36'	534	



Tide = +.2
Boat = +1.0
Tide = −0.4
+0.8

F.B. 2804 Pg. 70 Job No. 0300.02 Division No. 11 Notes Red J.S.H. Plotted J.S.H. Profile

Survey of BEACH EROSION STUDIES Date 8-3-60 Date 10-6-60 No.

Survey by WHARRET Notes SMITH N Notes Chkd. C.W.H. Checked C.W.H. X-Sec.

Indexed H.E. Oh Date Date 8-5-60 Date 10-7-60 No.

76L-296 CE 307 11-58

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STATION	B.S.	H.I.	F.S.	ELEV	Remarks
Inst. At 368400 S-7	Sight On # 21	Depth Rec. Adj. 9.2 10.0	Time 6-20	Hor. Ang. 184	Distance 480 ✓
					Tape = +0.2 ✓ Boat = +1.0 Tide = -0.4 ✓ +0.8 ✓

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. @ 383+00	SIGHT ON 378+00
					DATUM MEAN LOWER LOW WATER	378+00 INSHORE
371+00					CONTROL LINE	
					70' LT. TOE SLP.	
						20' LT. TOP BLK.
					NORM. TO	70' LT.
	10	31				
378+00			7.0	11	14° 17'	127'
"			9.6	-1.5	21° 52'	201'
"			10.7	-3.6	26° 41'	251'
"			12.2	-4.1	31° 15'	303'
"			15.1	-7.3	36° 33'	363'
"			16.3	-8.3	39° 45'	416'

Profile No. ____ Notes Red. ____ Plotted ____ Job No. ____ Division No. 11 F. B. 28-4 Pg. 71
X-Sec. No. ____ Date 8-3-60 Date 10-6-60 Survey of BEACH EROSION STUDIES
Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date 7-12-60
Date 8-5-60 Date 10-7-60 Map No. ____ Indexed H. E. OTT Date ____

F. B. 2804 Pg. 72 | Job No. 0300.02 | Division No. 11 | Notes Red | Plotted | Profile

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

Survey by Cino | Notes Goodwin | Notes Chkd | Checked | X-Sec.

Indexed H. E. OTT | Date | Date | Date | No.

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

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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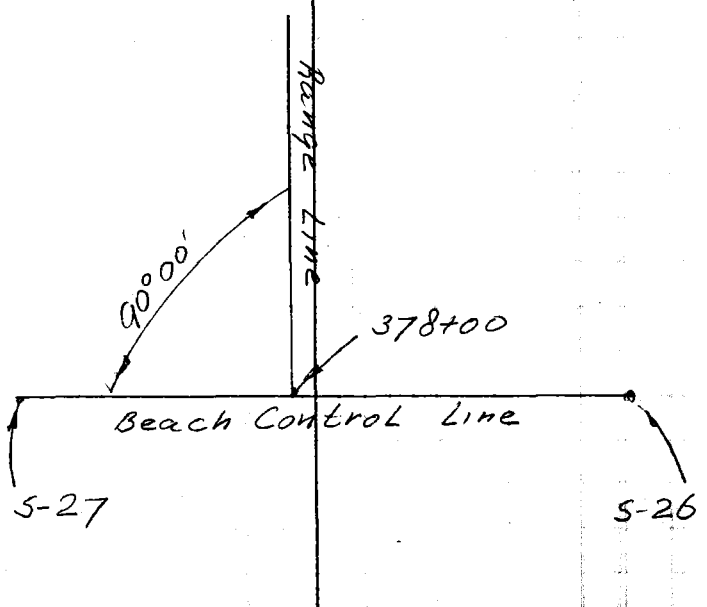
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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 Inst. At	Sight On	B.S. #	H.I. Depth Rec.	Adj.	F.S. Time	ELEV. Hor.Ang.	Remarks
378+00	5-27	1			635	90°00'	
		2				"	
		3				"	
		4				"	
		5				"	
		6				"	
		7				"	
		8				"	
		9				"	
		10				"	
		11				"	
		12				"	
		13				"	
		14				"	
		15				"	
		16				"	
		17				"	
		18				"	
		19				"	
		20			638	"	



Profile Notes Red J.S.H. Plotted J.S.H. Job No. 0300 02 Division No. 11 F.B. 2804 Pg. 73
No. X-Sec. Date 8-3-60 Date 10-6-60 Survey of Beach Erosion Studies
No. Notes Chkd. Checked Survey by Unknown Notes Redoc Date 7-12-60
Date 8-5-60 Date 10-7-60 Map No. Indexed H.E. on Date

F.B. 2804 Pg. 74 | 0300.02

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

Survey of Beach Erosion Studies Date _____ Date _____ No. _____

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

Indexed H. E. Ott Date 7-12-60 Date _____ Date _____ 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.

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At 378+00	Sight On 5-27	Depth #	Rec. Adj.	Time	Hor. Ang.

76L-298 CE 307 11-58

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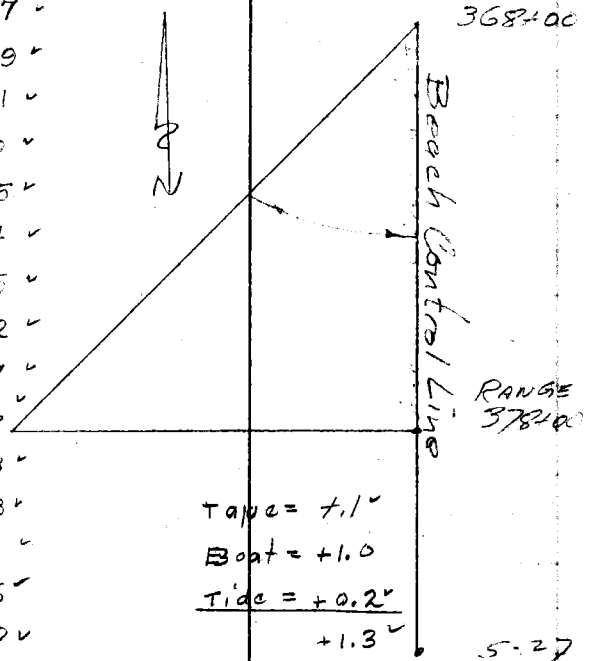
Profile No. ____ X-Sec. No. ____ Notes Red. J.S.H. Date 8-3-60 Plotted J.S.H. Date 8-5-60 Job No. 0300 02 Division No. 11 Notes Chkd. [illegible] Date 10-6-60 Checked [illegible] Date 10-7-60 Survey of BEACH EROSION STUDIES Survey by [illegible] Map No. ____ Notes [illegible] Date 7-12-60 Indexed W. E. OTT Date ____ F.B. 2804 Pg. 75

STATION Inst. At	Sight On	B.S.	H.I. #	Depth Rec.	Depth Adj.	F.S. Time	ELEV. Hor. Ang.	Distance	Remarks
368+00	5-27		1	27.5	28.8	6-35	49°-25'	1,167	
			2	25.8	27.1		47°-10'	1,079	
			3	24.6	25.9		45°-35'	1,021	
			4	24.0	25.3		44°-25'	980	
			5	23.2	24.5		43°-[illegible]	945	
			6	23.0	24.3		42°-[illegible]	914	
			7	22.5	23.8		41°-[illegible]	885	
			8	21.3	22.6		40°-[illegible]	842	
			9	20.5	21.8		39°-[illegible]	817	
			10	20.0	21.3		37°-48'	776	
			11	17.4	18.7		35°-[illegible]	703	
			12	16.3	17.6		33°-[illegible]	668	
			13	14.3	15.6		32°-37'	640	
			14	14.0	15.3		31°-10'	605	
			15	12.3	13.6		29°-16'	560	
			16	11.1	12.4		28°-27'	542	
			17	10.6	11.9		27°-10'	513	
			18	9.3	10.6		25°-55'	486	
			19	8.9	10.2		24°-31'	456	
			20	8.1	9.4	6-38	23°-18'	431	



Tape = +1.1
Boat = +1.0
Tide = +0.2
+1.3

F.B. 2804 Pg. 76

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

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

Survey by HARRIET Notes SMITH N. Notes Chkd. _____ Checked _____ X-Sec.

Indexed H. E. OTT Date _____ Date _____ Date _____ No. _____

76L-298 CE 307 11-58

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

76L-298 S & E #307—1-56

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STATION	S. S.	H. I.	F. S.	ELEV.	INST. @ 373+00	SIGHT @ 373+00
					DATUM MEAN LOWER LOW WATER	373+00
373+00						
					72' RT. FOR 300'	
						30' RT FOR 300'
			13		DITCH FOR LINE	79' RT.
				75		
	00	63				
373+00			56	12	15° 19'	137'
"			90	-2.2	28° 22'	218'
"			110	-4.2	30° 17'	292'
"			132	-6.4	34° 15'	340'
"			159	-9.1	38° 19'	395'
"			174	-10.6	42° 10'	453'

Profile Notes Red J. S. H. Plotted J. S. H. Job No. Division No. 11 F. B. 2604 PG. 77

No. X-Sec. Date 8-3-60 Date 10-6-60 Survey of BIXBY HILL RESTION STUDIES

No. Notes Chkd. Checked Survey by Notes Date

Date 8-5-60 Date 10-7-60 Map No. Indexed H. E. OTT Date

F. B. 2804 Pg. 78 | Job No. 0300.02 | Division No. 11 | Notes Red | Plotted | Profile

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

Survey by Lind | Notes Goodwin | Notes Chkd | Checked | X-Sec.

Indexed H. E. OTT | Date | Date | Date | No.

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

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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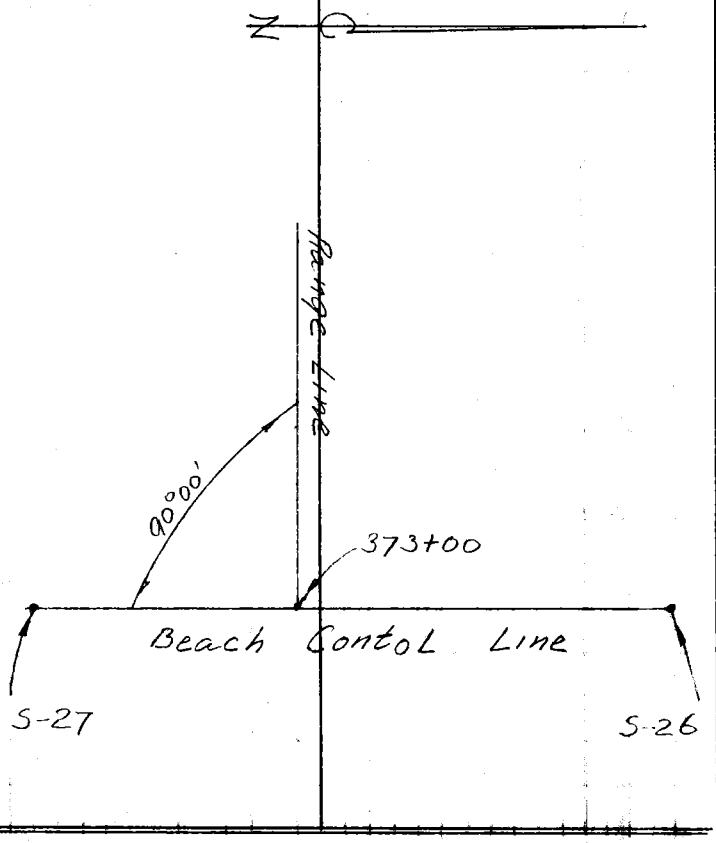
Profile No. ____ X-Sec. No. ____ Notes Red. J. S. H. Plotted J. S. H. Job No. 0300.02 Division No. 11 F. B. 2804 Pg. 79
Date 8-3-60 Date 10-6-60 Survey of Beach Erosion Studies
Notes Chkd. C.W.J. Checked C.W.J. Survey by Wheeler Notes Tolson Date 7-12-60
Date 8-5-60 Date 10-7-60 Map No. ____ Indexed H. E. Ott Date ____

STATION Inst. At	Sight On	#	B.S.	H.I. Depth Rec.	Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
373+00	S-27	1				704	90° 00'	
		2					"	
		3					"	
		4					"	
		5					"	
		6					"	
		7					"	
		8					"	
		9					"	
		10					"	
		11					"	
		12					"	
		13					"	
		14					"	
		15					"	
		16					"	
		17					"	
		18					"	
		19					"	
		20					"	



F.B. 2804 Pg. 80 | 0300.02

Job No. ____ Division No. 11 Notes Red J.S.H. Plotted J.S.H. Profile

Survey of Beach Erosion Studies Date 8-3-60 Date 10-6-60 No. ____

Survey by Wharriet Notes Teeboom Notes Chkd. C.W.H. Checked C.W.H. X-Sec.

Indexed M.E. OH Date 7-12-60 Date 8-5-60 Date 10-7-60 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.

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At 373+00					
Sight On 5-27					
	2				
	22				
# Depth Rec. Adj.					
Time			707		
Hor. Ang.			90° 00		

76L-298 CE 307 11-58

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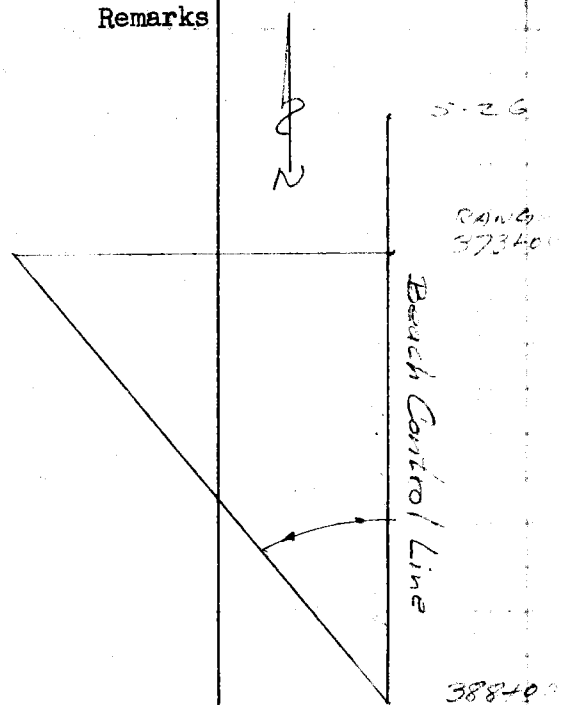
Profile No. X-Sec. No. Notes Red J.S.H. Date 8-3-60 Plotted J.S.H. Date 10-6-60 Job No. 0300.02 Division No. 11 Survey of BEACH EROSION STUDIES Notes Chkd. Date 8-5-60 Checked Date 10-7-60 Survey by Map No. Indexed H. E. OTT Date Notes Date 7-13-60 F. B. 2884 Pg. 81

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks Distance
		1	—		7-04	41°-46'	
		2	28.5	29.4		39°-28'	1,235
		3	26.9	27.8		37°-03'	1,132
		4	25.8	26.7		35°-30'	1,070
		5	24.9	25.8		34°-06'	1,016
		6	23.9	24.8		32°-41'	963
		7	23.1	24.0		31°-23'	915
		8	22.3	23.2		30°-08'	870
		9	21.5	22.4		28°-58'	831
0+88	5-26	10	20.5	21.4		27°-50'	792
		11	19.4	20.3		26°-46'	741
		12	18.1	19.0		25°-41'	705
		13	17.0	17.9		23°-52'	663
		14	15.4	16.3		22°-42'	627
		15	14.7	15.6		21°-35'	594
		16	13.3	14.2		20°-30'	556
		17	11.6	12.5		19°-12'	522
		18	10.8	11.7		18°-28'	501
		19	10.0	10.9		17°-30'	473
		20	9.1	10.0		16°-52'	455



Tape = -.1
Boat = +1.0
Tide = +0.0
+0.9

F. B. 2804 Pg. 82 | Job No. 0300.02 | Division No. 11 | Notes Red J. S. H. | Plotted J. S. H. | Profile

Survey of Beach Erosion Studies | Date 8-3-60 | Date 10-6-60 | No.

Survey by Vaarnet Notes Smith, N. | Notes Chkd. C. W. H. | Checked C. W. H. | X-Sec.

Indexed H. E. OTT | Date | Date 8-5-60 | Date 10-7-60 | No.

76L-298 CE 307 11-58

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STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
388+00					
5-26					

Inst. At Sight On

#	Depth Rec.	Adj.	Time	Hor. Ang.	Distance
21	8.7	9.6		15°54'	427
22	8.1	9.0	7-07	15°22'	412

Tape = -0.1
Boat = +1.0
Tide = 0.0
+0.9

76L-298 S & E #307—1-56

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 372+00	SIGHT ON 368+00
					DATUM MEAN LOWER LOW WATER	368+00 INSHORE
					CONTROL LINE	
					38' LT. TOE	
				11		35' RT. TOE BERM
						100' RT.
T.R.	0.1	7.3		.70	T.R. (on 3 bars)	
363+00			55	1.8	16° 25'	147'
			99	-1.8	22° 17'	226'
			105	-3.4	33° 23'	293'
			122	-5.1	38° 50'	335'
			138	-6.4	36° 17'	367'
			169	-9.4	42° 30'	458'

Profile No. ____ X-Sec. No. ____

Notes Red J.S.H. Date 8-5-60 Notes Chkd. ____ Date 8-5-60

Plotted J.S.H. Date 10-6-60 Checked ____ Date 10-7-60

Job No. ____ Survey of BERTH EXCAVATION STUDIES Survey by ____ Map No. ____

Division No. 11 Notes T. E. OTT Indexed ____

F. B. 2804 Pg. 93 Date ____ Date ____

F. B. 2804 Pg. 84 | Job No. 0300.02 Division No. 11 Notes Red Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by Lind Notes Goodwin Notes Chkd. Checked X-Sec.

Indexed M. E. OTT Date Date Date No.

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

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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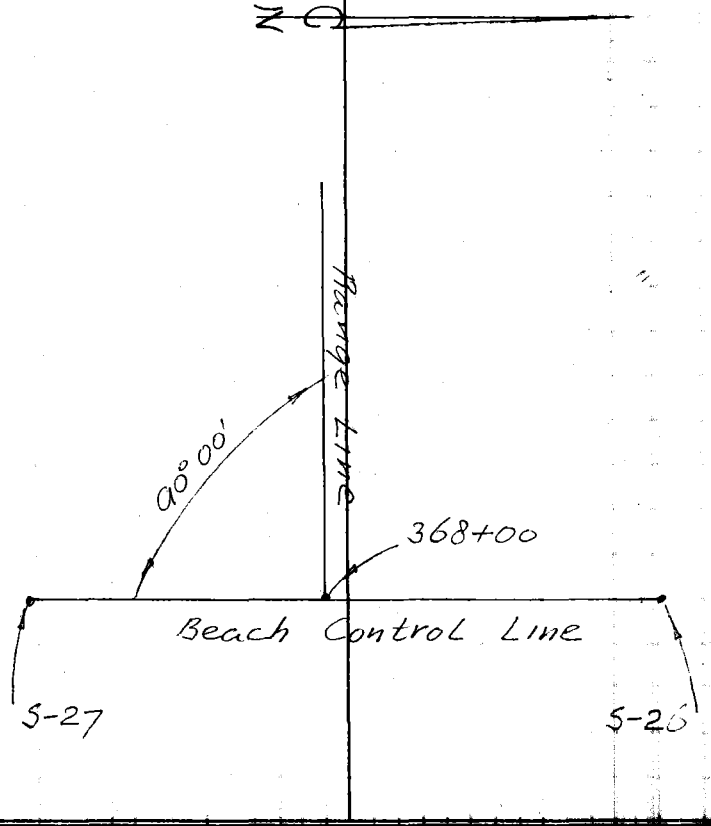
Do not extend notes this side of this line.

STATION Inst. At	STATION Sight On	B.S. #	H.I. Depth Rec.	H.I. Adj.	F.S. Time	ELEV. Hor.Ang.	Remarks
368+00	S-27	1			9 03	90° 00'	
		2				"	
		3				"	
		4				"	
		5				"	
		6				"	
		7				"	
		8				"	
		9				"	
		10				"	
		11				"	
		12				"	
		13				"	
		14				"	
		15				"	
		16				"	
		17				"	
		18				"	
		19				"	
		20				"	



Profile Notes Red J.S.H. Plotted J.S.H. Job No. 2300.02 Division No. 11 F.B. 2804 Pg. 85
No. Date 8-3-60 Date 10-6-60 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by Wharvick Notes Tech Date 7-12-60
No. Date 8-5-60 Date 10-7-60 Map No. Indexed N. & Off Date

F.B. 2804 Pg. 86 | 0300.02

Job No. _____ Division No. 11 Notes Red J.S.H. Plotted J.S.H. Profile

Survey of Beach Erosion Studies Date 8-3-60 Date 10-6-60 No. _____

Survey by Uharriet Notes Teeboom Notes Chkd. C.W.H. Checked C.W.H. X-Sec.

Indexed H. E. OTT Date 7-12-60 Date 8-5-60 Date 10-7-60 No. _____

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.	Remarks
368+00					Inst. At Sight On
5-27					
	21				# Rec. Adj. Depth
			906		Time
				90°00'	Hor. Ang.

76L-298 CE 307 11-58

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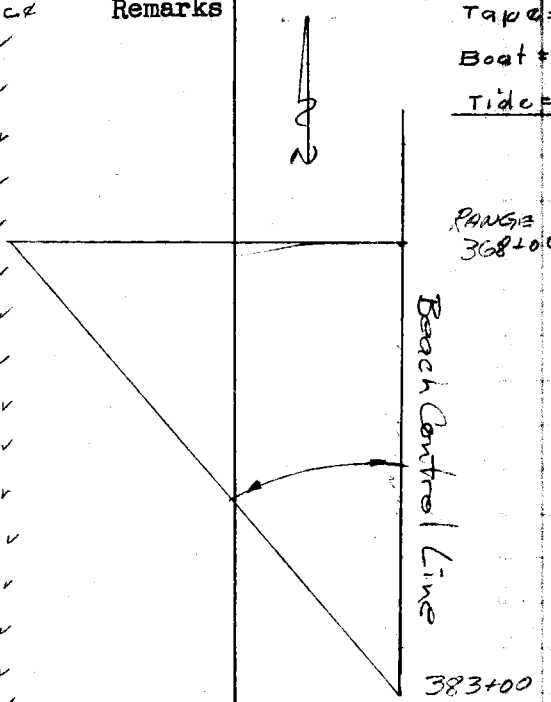
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile No. ____ X-Sec. ____ No. ____
Notes Red. J. S. H. Plotted J. S. H. Job No. 2300.02 Division No. 11 F.B. 2804 Pg. 87
Date 8-3-60 Date 10-6-60 Survey of BEACH EROSION STUDIES
Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date 7-12-60
Date 8-5-60 Date 10-7-60 Map No. ____ Indexed M. E. OTT Date ____

STATION Inst. At	Sight On	#	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.	Distance	Remarks
383+00	5.26	1	32.2	31.0	9-03	42°13'	1,361	
		2	31.1	29.9		40°40'	1,289	
		3	29.8	28.6		39°00'	1,215	
		4	28.5	27.3		37°20'	1,144	
		5	27.1	25.9		35°21'	1,063	
		6	25.6	24.4		33°06'	978	
		7	24.2	23.0		31°04'	903	
		8	22.3	21.1		29°51'	861	
		9	20.9	19.7		26°45'	756	
		10	19.0	17.8		24°56'	697	
		11	17.6	16.4		23°26'	650	
		12	17.0	15.8		22°38'	625	
		13	16.1	14.9		21°20'	586	
		14	14.1	12.9		20°10'	551	
		15	12.7	11.5		19°07'	520	
		16	11.3	10.1		17°22'	470	
		17	10.8	9.6		16°47'	453	
		18	10.0	8.8		15°50'	426	
		19	8.9	7.7		14°55'	399	
		20	8.0	6.8		13°58'	373	



Tape = -.1
Boat = +1.0
Tide = -2.1
-1.2

RANGE 368+00

F.B. 2804 Pg. 88 | Job No. 0300.02 | Division No. 10 | Notes Red J. S. H. | Plotted J. S. H. | Profile

Survey of BEACH EROSION STUDIES | Date 8-3-60 | Date 10-6-60 | No.

Survey by WHARRIET Notes SMITH N | Notes Chkd. C. W. H. | Checked C. W. H. | X-Sec.

Indexed H. E. OTT | Date | Date 8-5-60 | Date 10-7-60 | No.

76L-298 CE 307 11-58

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STATION	B. S.	H. I.	F S.	ELEV	Remarks
Inst. At 383400	Sight On 5.26	Depth # Rec. 21 7.0	Adj. 5.74	Time 9.06	Hor. Ang. 12°35' Distance 335
					Tapa = -0.1' Beat = +1.0 Tide = -2.2' -1.3'

Notes Ck'd by J. S. H.	Survey of Beach Erosion Studies
Map No.	JN 0300-06 Tape Std °F
Office Work J. S. H.	Surveyed by Uharriet
Checked C. W. H.	Notes Blanchard Date 7-13-60
Date 8-10-60	Indexed H. E. OTT

F. B. 3804 PG. 89

TIDE GAUGE READINGS

JULY 13, 1960

DATUM - M.L.L.W.

TIME - P.S.T.

TIME P.S.T.	GAUGE READING M.L.L.W.
5:00 A.M.	1.0 ft.
5:30	0.4
6:00	0.3
6:30	0.2
7:00	0.3
7:30	0.5
8:00	0.6
8:30	1.0
9:00	1.5
9:30	2.0
10:00	2.6
10:30	3.1
11:00	3.5

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76F3098 SAE #247 11-58

F. B. 2804 PG. 90

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76L-298 S & E #307—1-56

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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. @ 367+44 (S-36)	SIGHT @ N 363+00
					DATUM MEAN LOWER LOW WATER	363+00 INSHORE CONTROL LINE
					16' LT. TOP SLF	
						35' RT TOP DEK
					ALIGNMENT LINE	84' RT
					T.P.	
	15	6.5				
363+00			55	13	16° 45'	134'
"			82	-1.4	28° 20'	192'
"			94	-2.6	28° 32'	242'
"			108	-4.0	32° 25'	282'
"			131	-6.3	35° 35'	318'
"			148	-8.0	38° 55'	359'
"			167	-9.9	43° 15'	418'

Profile No. ____ Notes Red. [illegible] Plotted [illegible] Job No. ____ Division No. 11 F. B. 2804 Pg. 91

X-Sec. No. ____ Date 8-8-60 Date 10-10-60 Survey of BEACH EROSION STUDIES

Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes [illegible]

Date 8-9-60 Date 10-11-60 Map No. ____ Indexed R. E. OTT Date ____ Date ____

F. B. 2804 Pg. 92 | Job No. 0300-02 | Division No. 11 | Notes Red | Plotted | Profile

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

Survey by Lind | Notes Goodwin | Notes Chkd. | Checked | X-Sec.

Indexed H. E. Ott | Date | Date | Date | No.

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

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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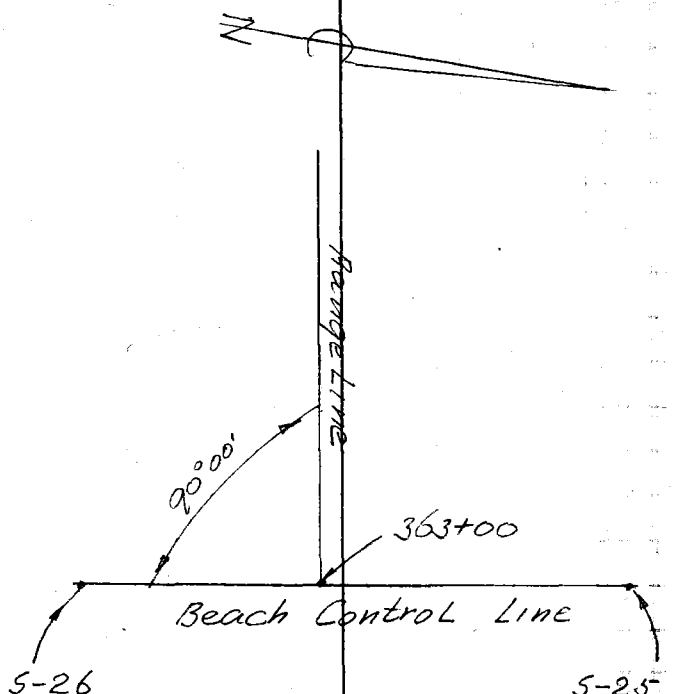
Do not extend notes this side of this line.

STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
		1		502	90° 00'		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
		8			"		
363+00	5-26	9			"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



Profile Notes Red C.W.H. Plotted C.W.H. Job No. 03.00.02 Division No. 11 F.B. 2804 Pg. 93
No. X-Sec. Data 8-8-60 Date 12-10-60 Survey of Beach Erosion Studies
No. Notes Chkd. J.S.H. Checked J.S.H. Survey by Linquist Notes Kept by Date 7-13-00
Date 8-8-60 Date 12-11-60 Map No. Indexed H. E. Ott Date

F.B. 2804 Pg. 94 030202

Job No. Division No. 11 Notes Red C.W.H. Plotted C.W.H. Profile

Survey of Beach Erosion Studies Date 8-8-60 Date 10-10-60 No.

Survey by Uharriet Notes Teeboom Notes Chkd. J.S.H. Checked J.S.H. X-Sec.

Indexed H.E.OT Date 7-13-60 Date 8-9-60 Date 10-11-60 No.

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
363+00					
5-26					
Inst. At	Sight On				
	#	Depth Rec.	Adj.	Time	Hor. Ang.
	21				90°00'
	22				" "
	23				" "
	24				" "
	25				" "
	26			505	" "

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76L-298 CE 307 11-58

76L-298 CE 307 11-58

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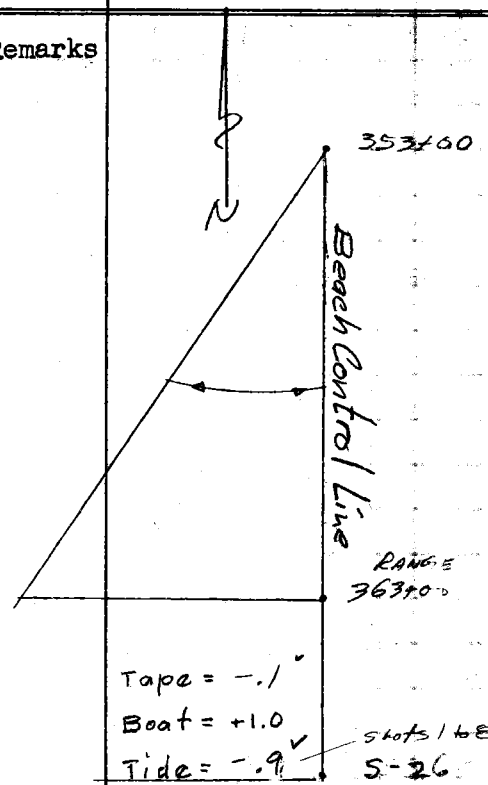
Profile No. ____ X-Sec. No. ____ Notes Red C.W.H. Plotted C.W.H. Job No. 0300-62 Division No. 11 F.B. 2804 Pg. 35
Date 8-8-60 Date 10-10-60 Survey of BEACH EROSION STUDIES
Notes Chkd. J.S.H. Checked J.S.H. Survey by [illegible] Notes [illegible] Date 7-13-60
Date 8-9-60 Date 10-11-60 Map No. ____ Indexed W.E.CH Date ____

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.	Distance	Remarks
353+00	5-26	1	42.1	42.1	5-02	62°-12'	1,897	
		2	40.4	40.4		61°-26'	1,837	
		3	38.2	38.2		59°-39'	1,708	
		4	37.0	37.0		58°-08'	1,609	
		5	34.9	34.9		56°-15'	1,497	
		6	32.6	32.6		54°-14'	1,388	
		7	30.3	30.3		51°-36'	1,262	
		8	28.8	28.8		49°-22'	1,165	
		9	27.0	27.0		47°-18'	1,084	
		10	26.0	26.0		45°-30'	1,018	
		11	25.1	25.1		43°-56'	963	
		12	23.2	23.2		42°-03'	902	
		13	22.0	22.0		40°-26'	852	
		14	21.4	21.4		38°-57'	808	
		15	20.2	20.2		37°-11'	759	
		16	18.7	18.7		35°-24'	711	
		17	17.5	17.5		33°-43'	667	
		18	16.2	16.2		32°-01'	625	
		19	15.2	15.2		30°-31'	589	
		20	14.2	14.2		29°-12'	559	



76L-298 CE 307 11-58

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F.B. 2804 Pg. 96 Job No. 0300.02 Division No. 11 Notes Red C.W.H. Plotted C.W.H. Profile No.
Survey of BEACH EROSION STUDIES Date 8-8-60 Date 10-10-60 X-Sec. No.
Survey by LIMARIET Notes SMITH N. Notes Chkd. J.S.H. Checked J.S.H.
Indexed H. E. OTT Date Date 8-9-60 Date 10-11-60

STATION		B.S.	H.I.		F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Distance	Remarks
353+00		21	13.0	13.1		27°-50'	528	
"	5'-26	22	11.9	12.0		26°-18'	494	Tape = -0.1
"		23	11.3	11.4		25°-07'	469	Boat = +1.0
"		24	10.2	10.3		23°-40'	438	Tide = - .8
"		25	9.4	9.5		22°-49'	421	+0.1
"		26	8.9	9.0	5.05	21°-45'	399	

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 363+00	SIGHT ON 358+00
					DATUM MEAN LOWER LOW WATER	358+00 INSHORE
358+00					CONTROL LINE	
					30' LT. TOE SLP.	
						27' RT. TOE BRK.
					MEAN TIDE LINE 7+27	
	06	62				
358+00			50	1.2	13° 35'	121'
"			85	-2.3	23° 04'	213'
"			106	-4.4	29° 04'	278'
"			130	-6.8	33° 06'	326'
"			149	-8.6	36° 50'	375'
"			159	-9.7	40° 08'	422'

Profile Notes Red C.W.H. Plotted C.W.H. Job No. 0300.02 Division No. 11 F. B. 2974 Pg. 97
No. Date 8-8-60 Date 10-6-60 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. J.S.H. Checked J.S.H. Survey by KD Notes Date
No. Date 8-9-60 Date 10-7-60 Map No. Indexed H. E. OTT Date

F. B. 2804 Pg. 98 | Job No. 0300.04 | Division No. 11 | Notes Red | Plotted | Profile

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

Survey by Lind | Notes Goodwin | Notes Chkd | Checked | X-Sec.

Indexed H. E. OTT | Date | Date | Date | No.

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

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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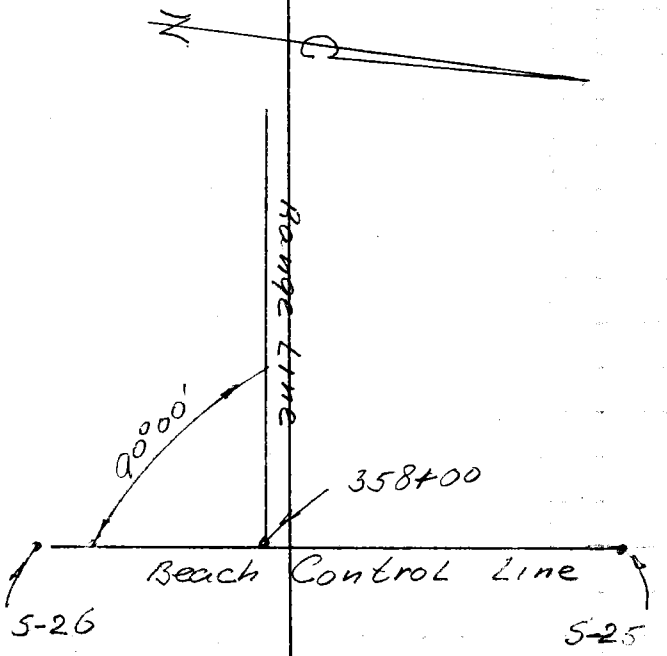
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
		1		521	90° 00'	
		2				
		3				
		4				
		5				
		6				
		7				
		8				
		9				
358+00	5-26	10				
		11				
		12				
		13				
		14				
		15				
		16				
		17				
		18				
		19				
		20				



Profile Notes Red C.W.H. Plotted C.W.H. Job No. 0300.02 Division No. 11 F.B. 2804 Pg. 39
No. X-Sec. Notes Chkd. J.S.H. Checked J.S.H. Survey of Beach Erosion Studies
No. Date 8-8-60 Date 10-10-60 Survey by Wharton Notes See above Date 7-13-60
Date 8-9-60 Date 10-11-60 Map No. Indexed W. E. Off Date

F. B. 2804 Pg. 100 | 0300.02

Job No. _____ Division No. 11 Notes Red C.W.H. Plotted C.W.H. Profile

Survey of Beach Erosion Studies Date 8-8-60 Date 10-10-60 No. _____

Survey by Uharret Notes Teeboom Notes Chkd. J.S.H. Checked J.S.H. X-Sec.

Indexed H. E. OTT Date 7-13-60 Date 8-9-60 Date 10-11-60 No. _____

76L-298 CE 307 11-58

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STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At 558+00					
Sight On 5-26					
	21				
	22				
	23				
	24				
# Rec. Adj. Depth					
Time			5 24		
Hor. Ang.				90° 00'	
				" "	
				" "	
				" "	

76L-298 CE 307 11-56

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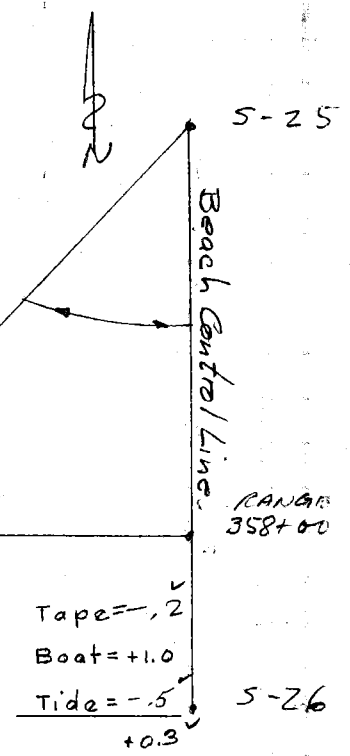
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	#	B.S.	H.I. Depth Rec.	H.I. Depth Adj.	F.S.	Time	ELEV.	Hor. Ang.	Distance	Remarks
5-25	5-26	1		32.7	33.0		5-21		44°-35'	1,358	
		2		31.9	32.2				43°-15'	1,296	
		3		30.9	31.2				41°-55'	1,236	
		4		29.4	29.7				40°-25'	1,173	
		5		28.3	28.6				39°-04'	1,118	
		6		27.9	28.2				37°-36'	1,060	
		7		26.1	26.4				36°-13'	1,008	
		8		24.5	24.8				34°-41'	953	
		9		23.5	23.8				33°-29'	910	
		10		22.4	22.7				32°-00'	861	
		11		21.2	21.5				30°-49'	822	
		12		20.8	21.1				29°-32'	781	
		13		19.9	20.2				28°-08'	737	
		14		18.9	19.2				27°-07'	705	
		15		17.2	17.5				25°-48'	665	
		16		16.2	16.5				24°-55'	640	
		17		15.5	15.8				23°-50'	609	
		18		14.9	15.2				23°-04'	587	
		19		13.4	13.7				21°-53'	554	
		20		13.1	13.4				20°-50'	525	



Profile Notes Red C.W.H. Plotted C.W.H. Job No. 25000 Division No. 11 F.B. 28004 Pg. 101
No. X-Sec. Date 8-8-60 Date 10-10-60 Survey of Beach Erosion Study
No. Notes Chkd. J.S.H. Checked J.S.H. Survey by Notes Date
Date 8-25-60 Date 10-11-60 Map No. Indexed Date

76L-298 CE 307 11-58

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F.B. 2804 PG. 102 Job No. 0300.02 Division No. 11 Notes Red C.W.H. Plotted C.W.H. Profile No.
Survey of BEACH EROSION STUDIES Date 8-8-60 Date 10-10-60 X-Sec. No.
Survey by LIHARRIET Notes SOUTH N Notes Chkd. J.S.H. Checked J.S.H.
Indexed H. E. OTT Date Date 8-9-60 Date 10-11-60

STATION		B.S.	H.I.		F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Depth Adj.	Time	Hor. Ang.	Distance	Remarks
5-25	5-26	21	12.3	12.7		19°-46'	494	
		22	11.1	11.5		18°-54'	471	Tape -0.2
		23	10.3	10.7		17°-55'	445	Boat = +1.0
		24	9.8	10.2	5-24	16-54	419	Tide = -.4
								+0.4

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 358+00	SIGHT ON 358+00
					DATUM MEAN LOWER LOW WATER	353+00 INSHORE
T.P.	6 40	18 04	[illegible]	[illegible]		
358+00			4 4	13 6	CONTROL	LINE
			1 4	16 6	16' LT. TOE SLP.	
			6 4	11 6		23' RT. TOP BER.
			13 3	4 7	MEAN TIDE LINE	68' RT.
T.P.			11 90	6 14	T.P.	
	09	7.0				
353+00			61	09	12° 35'	112'
"			94	-2.4	19° 30'	177'
"			103	-3.3	25° 28'	237'
"			115	-4.5	28° 12'	268'
"			144	-7.4	33° 05'	326'
"			160	-9.0	36° 43'	374'
T.P.			09	6.1	T.P. above.	

Profile Notes Red [illegible] Plotted [illegible] Job No. [illegible] Division No. 11 F. B. 2804 Pg. 103
No. Date 8-8-60 Date 10-10-60 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes [illegible] Date [illegible]
No. Date 8-9-60 Date 10-11-60 Map No. Indexed [illegible] Date

F. B. 2804 Pg. 104 Job No. 0300.02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion Studies Date _____ Date _____ No. _____

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

Indexed H. E. OTT Date _____ Date _____ Date _____ No. _____

STATION	B. S.	H. I.	F. S.	ELEV.
		108 04		

761.-298 S & E #307—1-56

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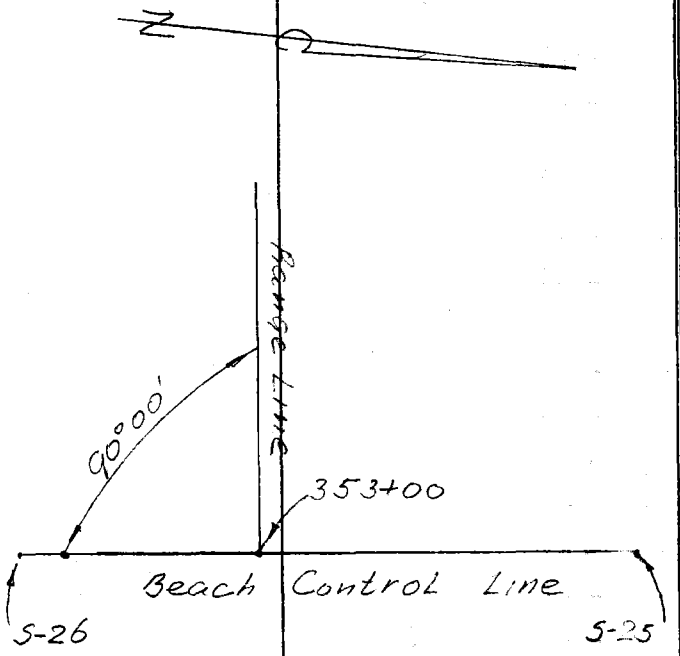
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK. WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor.Ang.	Remarks
		1		536	90°00'	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
		8			"	
353+00	S-26	9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	
		19			"	
		20			"	



Profile Notes Red C.W.H. Plotted C.W.H. Job No. 2300.02 Division No. 11 F.B. 2804 Pg. 105
No. X-Sec. Date 8-8-60 Date 10-10-60 Survey of Beach Erosion Studies
Notes Chkd. J.S.H. Checked J.S.H. Survey by Wharrie Notes Reduced Date 7-13-60
No. Date 8-9-60 Date 10-11-60 Map No. Indexed H.E.OTT Date

F.B. 2804 Pg. 106 | 030202

Job No. _____ Division No. 11 Notes Red C.W.H. Plotted C.W.H. Profile

Survey of Beach Erosion Studies Date 8-8-60 Date 10-10-60 No. _____

Survey by Uharriet Notes: Teeboom Notes Chkd. J.S.H. Checked J.S.H. X-Sec.

Indexed M.E. OM Date 7-13-60 Date 8-9-60 Date 10-11-60 No. _____

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
353+00					Inst. At Sight On
5-26					
	21				# Rec. Adj. Depth
			540		Time
				90° 00'	Hor. Ang.

Do not extend notes this side of this line.

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76L-246 CE 307 11-58

76L-298 CE 307 11-58

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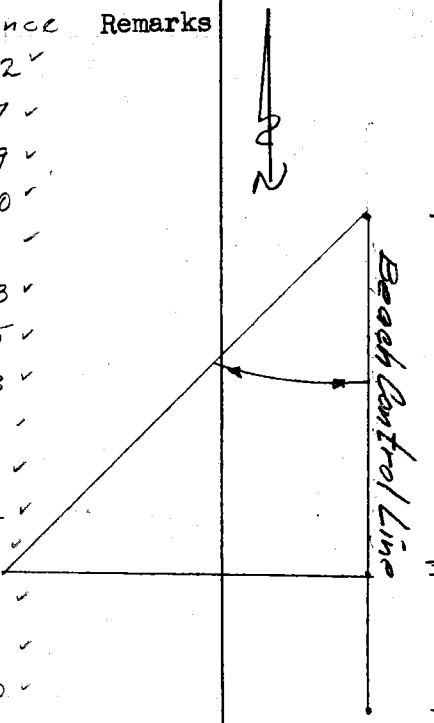
Profile No. ____ X-Sec. No. ____ Notes Red C.W.H. Plotted C.W.H. Job No. 030002 Division No. 11 F.B. 2804 Pg. 107
Date 8-8-60 Date 10-6-60 Survey of Beach Erosion Studies
Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes [illegible] Date 1-13-60
Date 8-9-60 Date 10-7-60 Map No. ____ Indexed W. E. Ott Date ____

STATION Inst. At	Sight On	#	B.S. Rec.	H.I. Adj.	Depth	Time	F.S.	Hor. Ang.	Distance	Remarks
5-25	5-26	1	36.9	37.2		5-36		61°-00'	1,582	
		2	35.3	35.6				59°-58'	1,517	
		3	33.6	33.9				58°-17'	1,419	
		4	32.0	32.3				56°-24'	1,320	
		5	30.0	30.3				54°-06'	1,211	
		6	28.0	28.3				51°-46'	1,113	
		7	25.9	26.2				48°-54'	1,005	
		8	24.5	24.8				46°-28'	923	
		9	23.1	23.4				44°-21'	858	
		10	21.6	21.9				42°-45'	810	
		11	20.0	20.3				41°-03'	764	
		12	19.0	19.3				39°-45'	730	
		13	17.9	18.2				37°-50'	681	
		14	16.4	16.7				35°-57'	636	
		15	15.5	15.8				34°-22'	600	
		16	14.1	14.4				32°-45'	564	
		17	13.2	13.5				31°-44'	542	
		18	12.9	13.2				30°-07'	509	
		19	11.6	11.9				28°-40'	480	
		20	11.0	11.3				27°-45'	461	



Tape = -.3
Boat = +1.0
Tide = -.4
+0.3

RANGE # 353+00

F. B. 2804 Pg. 108 Job No. 0300.02 Division No. 11 Notes Red C.W.H. Plotted C.W.H. Profile

Survey of BEACH EROSION STUDIES Date 8-8-60 Date 10-6-60 No.

Survey by HARRIET Notes SMITH N Notes Chkd. J.S.H. Checked J.S.H. X-Sec.

Indexed H. E. OTT Date Date 8-9-60 Date 10-7-60 No.

761-296 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	Remarks
Inst. At	Sight On	Depth # Rec./Adj.	Time	Hor. Ang.	Distance
5-25		21 / 10.5 10.8	5-10	26:0	431'
5-26					

Tape -0.3'
Boat = +1.0
Tide = -.4'
+0.3'

76L-298 S & E #307—1-56

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 352+00	SIGHT ON 348+00
		15 24			DATUM MEAN LOWER LOW WATER	348+00 INSHORE
	4 [illegible]	16 42	[illegible]	11 [illegible]		
348+00			4 3	12 14	CONTROL LINE	
			2 8	13 6	13' LT TOE SEA	
			[illegible]	[illegible]		17' RT. TOP BCK
			11 7	4 7	MEAN TIDE LINE	33' RT.
T.P.			11 55	4 [illegible]	T.P.	
	24	7 3				
349+00			7.7	-2.4	14° 36'	130'
"			9.2	-1.9	20° 32'	187'
"			10.5	-3.2	24° 12'	225'
"			11.9	-4.6	27° 18'	258'
"			14.4	-7.1	32° 10'	314'
"			16.5	-9.2	35° 03'	351'
T.P.			24	4 9	T.P. above	

Profile Notes Red C.W.H. Plotted C.W.H. Job No. Division No. 11 F. B. 2804 Pg. [illegible]
No. Date 8-8-60 Date 10-6-60 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes [illegible] Date [illegible]
No. Date 8-9-60 Date 10-7-60 Map No. Indexed M. E. OTT Date

F. B. 2804 Pg. 110 Job No. [illegible] Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion Studies Date _____ Date _____ No. _____

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

Indexed H. E. OTT 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.

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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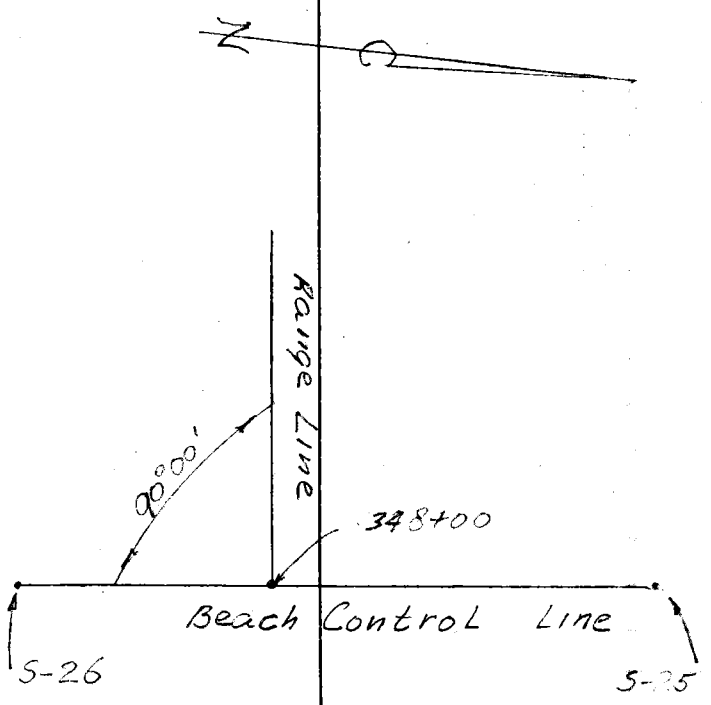
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor.Ang.	Remarks
		1		558	90° 00'	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
		8			"	
348+00	5-26	9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	
		19			"	
		20			"	



Profile Notes Red C.W.H. Plotted C.W.H. Job No. 2300.02 Division No. 11 F.B. 28004 Pg. 111
No. X-Sec. Date 2-2-60 Date 10-12-60 Survey of Beach Erosion Station
No. Notes Chkd. Checked Survey by Unknown Notes Checked Date 7-13-60
Date 2-2-60 Date 10-11-60 Map No. Indexed Date

F.B. 2804 Pg. 112

Job No. 0300.02 Division No. 11 Notes Red C.W.H. Plotted C.W.H. Profile

Survey of Beach Erosion Studies Date 8-8-60 Date 10-10-60 No.

Survey by Uharriet Notes Teeboom Notes Chkd. J.S.H. Checked J.S.H. X-Sec.

Indexed H.E.O. Date 7-13-66 Date 8-9-60 Date 10-11-60 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.

STATION	Inst. At	Sight On	B.S.	#	Depth Rec.	Adj.	H.I.	Time	F.S.	Hor. Ang.	ELEV.	Remarks
348+00												
		5-26										
				21						90° 00'		
				22								
				23								
				24								
				25					6.02			

76L-298 CE 307 11-58

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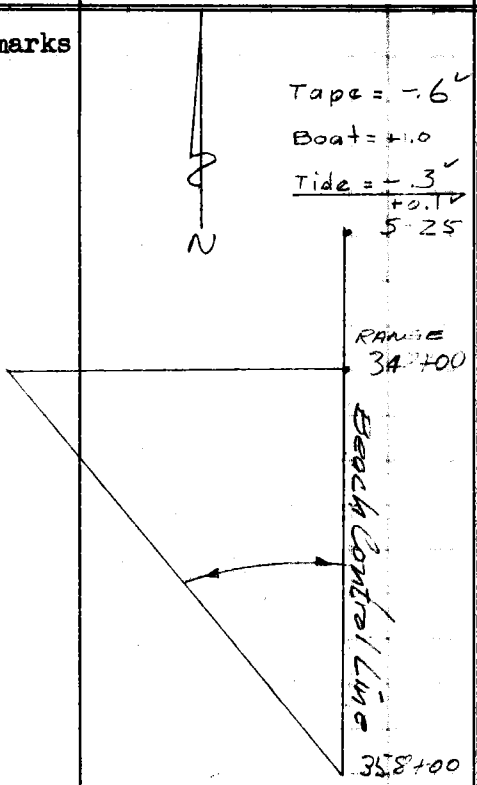
Do not extend notes this side of this line.

Profile No. ____ X-Sec. ____ Notes Red. C.W.H. Plotted C.W.H. Job No. 0300.02 Division No. 11
Notes Chkd. J.S.H. Checked J.S.H. Survey of BEACH EROSION STUDIES
Date 8-8-60 Date 10-10-60 Survey by ____ Notes ____ Date 7-3-68
Date 8-9-60 Date 10-11-60 Map No. ____ Indexed ____ Date ____
F.B. 2804 Pg. 113

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.	Distance	Remarks
358+00	5-25	1	40.3	40.4	5-58	60°-43'	1,783	
		2	38.4	38.5		59°-41'	1,710	
		3	36.9	37.0		58°-04'	1,605	
		4	35.3	35.4		56°-33'	1,514	
		5	34.1	34.2		54°-58'	1,426	
		6	32.7	32.8		53°-31'	1,352	
		7	30.8	30.9		52°-03'	1,282	
		8	29.3	29.4		50°-11'	1,200	
		9	28.0	28.1		48°-38'	1,129	
		10	26.7	26.8		46°-54'	1,069	
		11	25.3	25.4		45°-34'	1,020	
		12	24.8	24.9		44°-20'	977	
		13	24.0	24.1		42°-58'	931	
		14	22.7	22.8		41°-40'	890	
		15	22.4	22.5		40°-18'	848	
		16	21.2	21.3		38°-53'	806	
		17	20.8	20.9		37°-27'	766	
		18	19.6	19.7		36°-04'	728	
		19	18.1	18.2		34°-48'	695	
		20	17.0	17.1		33°-28'	661	



F.B. 2804 Pg. 114 | 0300.02 Job No. Division No. 11 | Notes Red C.W.H. Plotted C.W.H. | Profile

Survey of BEACH EROSION STUDIES | Date 8-8-60 Date 10-10-60 No.

Survey by HARRIET Notes SMITH N | Notes Chkd. J.S.H. Checked J.S.H. | X-Sec.

Indexed H. E. OTT Date | Date 8-9-60 Date 10-11-60 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.	Remarks
Inst. At 358+00					
Sight On 5.25					
#	Depth Rec.	Depth Adj.	Time	Hor. Ang.	Distance
21		16.1	16.2	31°54'	622
22		14.6	14.7	30°40'	593
23		14.0	14.1	29°02'	555
24		13.3	13.4	27°39'	524
25		12.4	12.5	26°46	494
			6.02		

Tape = -.6
Boat = +1.0
Tide = -.3
+0.1

76L-298 S & E #307—1-56

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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. @ 338+00	SIGHT ON 343+00
		16 43			DATUM MEAN LOWER LOW WATER	343+00 INSHORE
	9 84	14 65	5 62	10 8		
343+00			3 [illegible]	[illegible]	CONTROL LINE	
			2 4	17 2	48' LT. TOE SLP.	
			3 3	16 3		10' RT. TOP SLP.
			14 9	4 7	MEAN TIDE LINE	68' ET.
T.P.			11 76	7 89	T.P.	
	08	3.7				
T.P.			65'	2 2	T.P.	
	26	4.8				
343+00			50	-0.2	14° 20' 134'	
			64	-1.8	19° 27' 188'	
			79	-3.3	23° 57' 240'	
			10.3	-5.5	28° 28' 297'	
			12.7	-7.9	32° 15' 350'	
			13.1	-8.3	35° 18' 397'	
			16 4	-11.6	38° 55' 460'	
T.P.			26	2.2	T.P. above	

Profile Notes Red [illegible] Plotted [illegible] Job No. [illegible] Division No. 11 F. B. 2804 Pg. [illegible]
No. Date 8-10-60 Date 10-13-60 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes [illegible] Date 7-13-60
No. Date 8-11-60 Date 10-14-60 Map No. Indexed LEDOU Date

F. B. 2804 Pg. 116

Job No. 0320.02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion Studies Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

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700 Los Angeles County Engineering Bldg.

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76L-293 S & E #307—1-56

76L-298 CE 307 11-58

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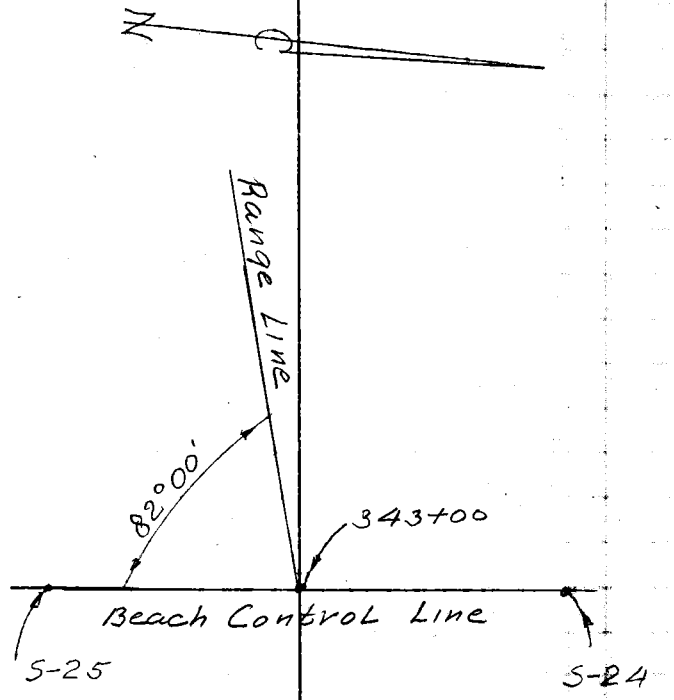
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION Inst. At	STATION Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
		1		708	82°00'	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
		8			"	
		9			"	
343+00	5-25	10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	
		19			"	
		20			"	



Profile No. ____ X-Sec. No. ____ Notes Red J.S.H. Plotted J.S.H. Job No. ____ Division No. 11 F.B. 2804 Pg. 117
Date 8-10-60 Date 10-13-60 Survey of Beach Erosion Studies
Notes Chkd. [illegible] Checked [illegible] Survey by Wharrey Notes Taken Date 7-13-60
Date 8-11-60 Date 10-14-60 Map No. ____ Indexed ____ Date ____

030802

F.B. 2804 Pg. 118

0300.02

Job No. ____ Division No. 11 Notes Red J.S.H. Plotted J.S.H. Profile

Survey of Beach Erosion Studies Date 8-10-60 Date 10-13-60 No. ____

Survey by Dharriet Notes Teeboom Notes Chkd. C.W.H. Checked C.W.H. X-Sec.

Indexed H. E. OTT Date 7-13-60 Date 8-11-60 Date 10-14-60 No. ____

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At 343+00					
Sight On 5-25					
	21				
	22				
	23				
Depth # Rec. Adj.					
Time			7 11		
Hor. Ang.				82° 00'	
				"	
				"	

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L-298 CE 307 11-58

76L-298 CE 307 11-58

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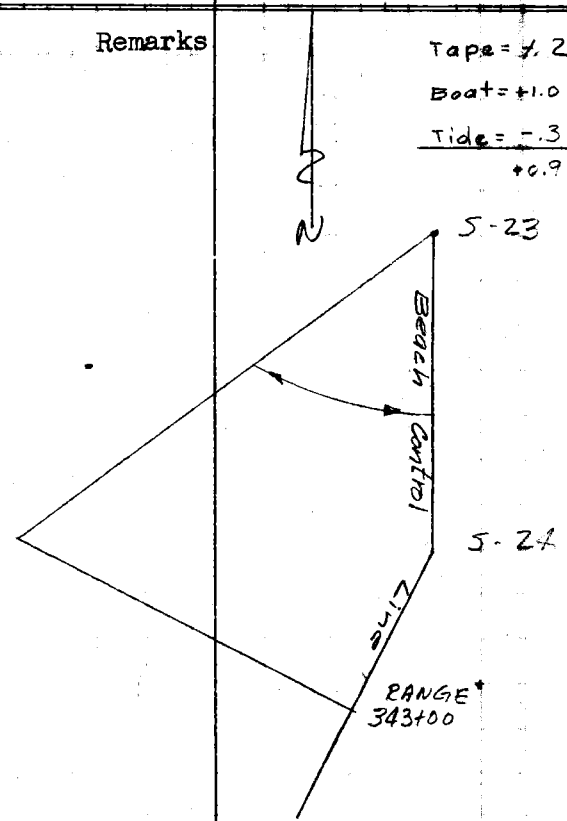
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile No. ____ X-Sec. No. ____
Notes Red. J.S.H. Plotted J.S.H. Job No. 0300.02 Division No. 11 F.B. 2804 Pg. 119
Data 8-10-60 Date 10-13-60 Survey of BEACH EROSION STUDIES
Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes [illegible] Date 7-13-60
Data 8-11-60 Date 10-14-60 Map No. ____ Indexed [illegible] Date ____

STATION Inst. At	Sight On	B.S.	H.I.	Depth Rec.	Depth Adj.	F.S.	Time	ELEV. Hor. Ang.		Remarks
5-23	5-24			1	30.5	31.4	7-08	52°-51'	1,272	
				2	29.4	30.3		51°-55'	1,225	
				3	28.5	29.4		50°-19'	1,198 - ?	
				4	27.2	28.1		50°-04'	1,139	
				5	26.4	27.3		48°-17'	1,084	
				6	25.3	26.2		47°-26'	1,028	
				7	24.2	25.1		46°-28'	990	
				8	23.2	24.1		45°-06'	940	
				9	22.2	23.1		43°-37'	888	
				10	21.5	22.4		42°-29'	850	
				11	21.1	22.0		41°-16'	810	
				12	20.0	20.9		40°-00'	771	
				13	19.5	20.4		39°-06'	743	
				14	18.6	19.5		38°-04'	714	
				15	17.7	18.6		36°-53'	679	
				16	17.3	18.2		36°-25'	668	
				17	15.5	16.4		35°-20'	638	
				18	14.8	15.7		34°-41'	620	
				19	14.0	14.9		33°-10'	583	
				20	13.1	14.0		32°-03'	555	

Tape = +1.2
Boat = +1.0
Tide = -.3
+0.9



F.B. 2804 Pg. 120 | Job No. 0300.02 | Division No. 11 | Notes Red J. S. H. | Plotted J. S. H. | Profile

Survey of BEACH EROSION STUDIES | Date 8-10-60 | Date 10-13-60 | No.

Survey by HARRIET Notes SMITH N | Notes Chkd. C. W. H. | Checked C. W. H. | X-Sec.

Indexed H. E. OTT Date | Date 8-11-60 | Date 10-14-60 | No.

76L-208 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.

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.
5.23						
5.22		21	12.4	13.3		31°55'	552
		22	11.6	12.5		28°46'	499
		23	10.9	11.8	7-11	25°27'	475
							Tape = +.2 Boat = +1.0 Tide = -.3 +0.9

761-298 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. @ 337+12.4	SIGHT ON 340+50
					DATUM MEAN LOWER LOW WATER	340+50 INSHORE
340+50					CONTROL	LINE
					LT. EDGE WALK.	30' RT. TOP BE
					T.P.	
	06	151				
T.P.			86	63	T.P.	
	00	63				
340+50			16	47	17° 49'	115' mean tide line
			55	08	26° 41'	184'
			77	-1.4	35° 45'	273'
			85	-2.2	39° 55'	321'
			100	-3.7	44° 56'	395'
			124	-6.1	48° 10'	451'
			132	-6.9	52° 30'	543'
			161	-9.8	56° 15'	643'
T.P.			00	63	T.P. above	

Profile No. ____ Notes Red ____ Plotted C.W.H. Job No. ____ Division No. 11 F. B. 2804 Pg. 101

X-Sec. No. ____ Date 8-11-60 Date 10-13-60 Survey of Block 1 Section 37 T2S R15

Notes Chkd. C.W.H. Checked ____ Survey by ____ Notes ____ Date ____

Date 8-11-60 Date 10-14-60 Map No. ____ Indexed H. E. Pohl Date ____

F. B. 2804 Pg. 122

Job No. 230032 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion Studies Date _____ Date _____ No. _____

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

Indexed H. E. OTT Date _____ Date _____ Date _____ No. _____

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

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76L-293 S & E #307—1-56

76L-298 CE 307 11-58

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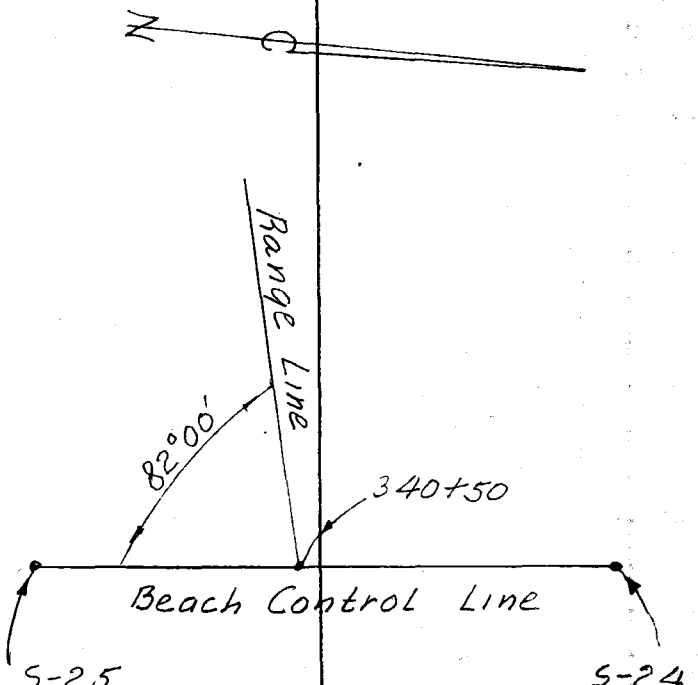
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
		1		731	82°00'		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
		8			"		
		9			"		
340+50	S-25	10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



Profile Notes Red J.S.H. Plotted C.W.H. Job No. 0300.02 Division No. 11 F.B. 2804 Pg. 123
No. X-Sec. Date 8-10-60 Date 10-13-60 Survey of Beach Erosion Studies
No. Notes Chkd. Checked Survey by Unknown Notes Checked Date 7-13-60
Date 8-11-60 Date 10-14-60 Map No. Indexed Date

F.B. 2804 Pg. 124 | 0300-02

Job No. _____ Division No. 11 Notes Red J. S. H. Plotted C. W. H. Profile

Survey of Beach Erosion Studies Date 8-10-60 Date 10-13-60 No. _____

Survey by Uharnet Notes Teeboom Notes Chkd. C. W. H. Checked J. S. H. X-Sec.

Indexed H. E. OTT Date 7-13-60 Date 8-11-60 Date 10-14-60 No. _____

761-298 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.	Remarks
Inst. At 340+50					
Sight On 5-25					
	21				
	22				
	23				
	24				
	25				
	26				
	27				
	28				
	29				
	30				
	31				
	32				
	33		7 35		

Depth # Rec. Adj. Time Hor. Ang.

82° 00'
"
"
"
"
"
"
"
"
"
"

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.

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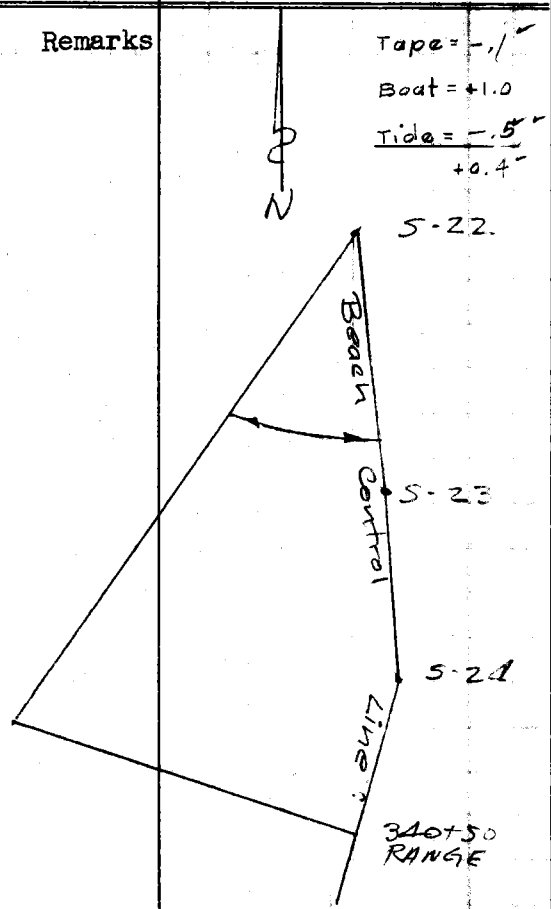
Profile No. ____ X-Sec. No. ____
Notes Red J.S.H. Plotted C.W.H. Job No. 0300.02 Division No. 11 F.B. 2894 Pg. 125
Date 8-10-60 Date 10-13-60 Survey of BEACH EROSION STUDIES
Notes Chkd C.W.H. Checked J.S.H. Survey by C.W.H. Notes J.S.H. Date 7-13-60
Date 8-11-60 Date 10-14-60 Map No. ____ Indexed B. E. OH Date ____

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.		Remarks
5-22	5-23	1	36.2	36.6	7-31	45°-27'	1,681'	
		2	35.5	35.9		44°-42'	1,636'	
		3	34.6	35.0		43°-27'	1,565'	
		4	33.1	33.5		42°-10'	1,492'	
		5	32.4	32.8		40°-52'	1,423'	
		6	31.1	31.5		39°-29'	1,353'	
		7	30.1	30.5		38°-22'	1,298'	
		8	29.2	29.6		37°-21'	1,249'	
		9	28.3	28.7		36°-13'	1,195'	
		10	27.6	28.0		35°-00'	1,140'	
		11	26.1	26.5		33°-44'	1,084'	
		12	25.4	25.8		32°-43'	1,042'	
		13	25.0	25.4		31°-49'	1,004'	
		14	24.5	24.9		31°-00'	971'	
		15	23.4	23.8		30°-12'	939'	
		16	22.4	22.8		29°-15'	901'	
		17	21.5	21.9		28°-25'	869'	
		18	21.6	22.0		27°-30'	833'	
		19	20.8	21.2		26°-42'	802'	
		20	19.8	20.2		25°-49'	769'	



76L-298 CE 307 11-58

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F.B. 2804 Pg. 126 Job No. 030002 Division No. 11 Notes Red J. S. H. Plotted C. W. H. Profile No.
Survey of BEACH EROSION STUDIES Date 8-10-60 Date 10-13-60 X-Sec. No.
Survey by HARRET Notes SMITH N Notes Chkd. C. W. H. Checked J. S. H. No.
Indexed H. E. Ott Date Date 8-11-60 Date 10-14-60

STATION		B.S.	H.I.		F.S.	ELEV.			
Inst. At	Sight On	#	Depth Rec.	Depth Adj.	Time	Hor. Ang.		Remarks	
		21	19.3	19.7		25°00'	739'		Tape = -.1
		22	18.3	18.7		24°28'	720'		Boat = +1.0
		23	17.8	18.2		23°46'	697'		Tide = -.5
		24	16.6	17.0		22°52'	664'		+0.4
		25	15.7	16.1		22°15'	642'		
S-22		26	14.5	14.9		21°27'	614'		
	S-23	27	13.5	13.9		20°37'	585'		
		28	13.2	13.6		19°50'	561'		
		29	12.2	12.6		18°58'	529'		
		30	11.2	11.6		18°18'	507'		
		31	10.2	10.6		17°31'	481'		
		32	9.5	9.9		16°46'	455'		
		33	8.7	9.1	7-35	15°56'	428'		

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. @ 343+00	Sight on. 337+13.46 (5-24)
		25 46			DATUM MEAN LOWER LOW WATER	338+00
	10 68	27 52	862	16 48 (84)		INSHORE
338+00			52	22 3	CONTROL	LINE
			52	22 3	6° LFT. Back	Walk
			54	22 1		10' RT Top brk.
			103	17 2		22' " BTM "
T.P.	143	17 54	1141	16 11		
			72	10 3		96° RT. Top BRK.
T.P. For Swim Partx.			1117	6 37	T.P.	
	00	64				
			17	4 7		129 RT. Mean tide line
			51	1.3	20° 03'	176'
			77	-1.3	26° 02'	231'
			83	-1.9	29° 55'	269'
			103	-3.9	34° 10'	313'
			141	-7.7	41° 23'	396'
			165	-10.1	45° 40'	452'
T.P.			00	64	T.P. Above.	

Profile Notes Red J.S.H. Plotted C.W.H. Job No. 0300.02 Division No. 11 F.B. 2804 Pg. 1-21
No. Date 8-10-60 Date 10-13-60 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. C.W.H. Checked J.S.H. Survey by Lind Notes Geodyne Date 7-13-60
No. Date 8-11-60 Date 10-14-60 Map No. Indexed Date

F. B. 2804 Pg. 128 | Job No. 0300.02 | Division No. 11 | Notes Red _____ | Plotted _____ | Profile

Survey of Beach Erosion Studies | Date _____ | Date _____ | No. _____

Survey by Lind | Notes Goodwin | Notes Chkd. _____ | Checked _____ | X-Sec.

Indexed _____ | Date _____ | Date _____ | Date _____ | No. _____

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

76L-298 CE 307 11-58

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76L-298 CE 307 11-58

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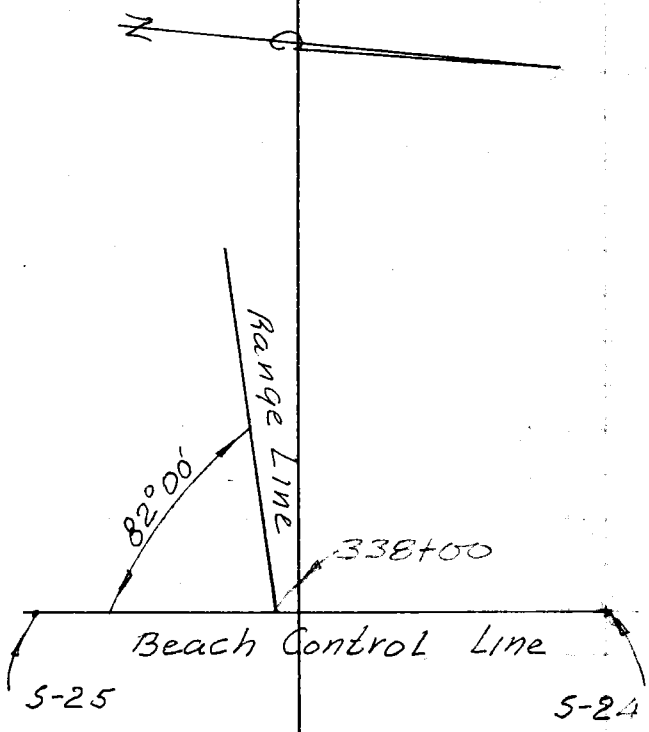
NOTE: ANY ADDITIONS OR CHANGES ON, THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	Adj.	F.S. Time	ELEV. Hor.Ang.	Remarks
338+00	5-25	1			745	82° 00'	
		2				"	
		3				"	
		4				"	
		5				"	
		6				"	
		7				"	
		8				"	
		9				"	
		10				"	
		11				"	
		12				"	
		13				"	
		14				"	
		15				"	
		16				"	
		17				"	
		18				"	
		19				"	
		20				"	



Profile Notes Red J. S. H. Plotted C. W. H. Job No. 0300.02 Division No. 11 F.B. 2804 Pg. 129
No. Date 8-10-60 Date 10-13-60 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. C. W. H. Checked J. S. H. Survey by Wharrie Notes Teebown Date 7-13-60
No. Date 8-11-60 Date 10-14-60 Map No. Indexed ~~B.E. OR~~ Date

F.B. 2804 Pg. 130 | 030002 Job No. | Division No. 11 | Notes Red J. S. H. | Plotted C. W. H. | Profile

Survey of Beach Erosion Studies | Date 8-10-60 | Date 10-13-60 | No.

Survey by Wharriet | Notes Teeboom | Notes Chkd. C. W. H. | Checked J. S. H. | X-Sec.

Indexed H. E. Ott | Date 7-13-60 | Date 8-11-60 | Date 10-14-60 | No.

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At 338+00					
Sight On 5-25					
#					
21					
22					
23					
24					
25					
26					
27					
28					
Depth Rec. Adj.					
Time			749		
Hor. Ang.					
82°00'					
"					
"					
"					
"					
"					
"					

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76L-246 CE 307 11-58

76L-298 CE 307 11-58

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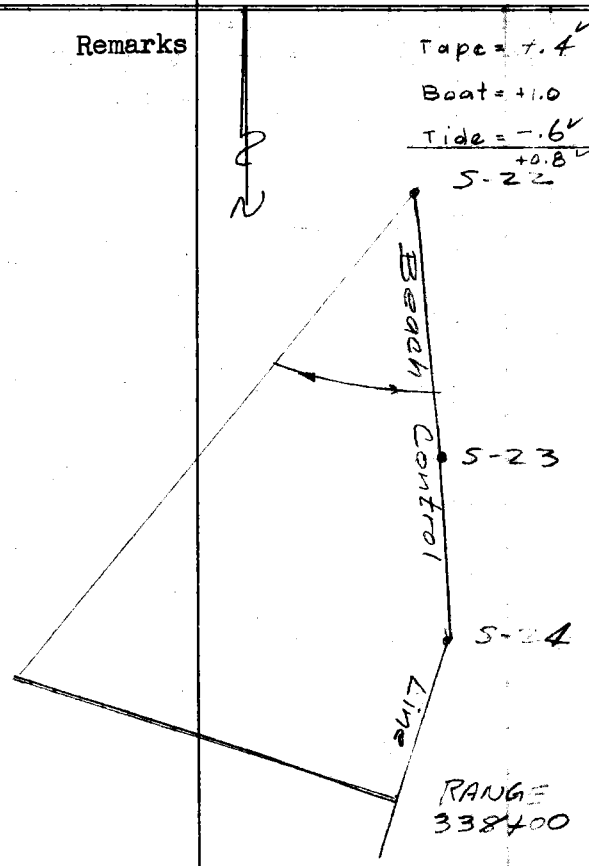
Profile No. ____ X-Sec. No. ____ Notes Red J.S.H. Plotted C.W.H. Job No. 03300.02 Division No. 11 F.B. 2804 Pg. 131
Date 8-10-60 Date 10-13-60 Survey of BEACH EROSION STUDIES
Notes Chkd. Date 8-11-60 Checked Date 10-14-60 Survey by Notes Date 10-13-60
Map No. Indexed H. E. Ott Date

STATION Inst. At	Sight On	#	B.S.	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.		Remarks
5-22	5-23	1		35.8	36.6	7-45	49°-27'	1,689'	
		2		35.2	36.0		48°-48'	1,648'	
		3		34.0	34.8		47°-47'	1,591'	
		4		32.8	33.6		46°-33'	1,523'	
		5		32.2	33.0		45°-20'	1,458'	
		6		31.0	31.8		44°-07'	1,397'	
		7		30.0	30.8		42°-39'	1,326'	
		8		28.4	29.2		41°-00'	1,251	
		9		27.5	28.3		39°-45'	1,196'	
		10		27.2	28.0		38°-38'	1,147'	
		11		25.8	26.6		37°-32'	1,104'	
		12		24.2	25.0		35°-10'	1,008'	
		13		23.3	24.1		34°-58'	1,001'	
		14		22.2	23.0		33°-30'	946'	
		15		21.3	22.1		32°-19'	904'	
		16		20.3	21.1		30°-54'	852'	
		17		19.1	19.9		29°-24'	803'	
		18		17.2	18.0		27°-32'	741'	
		19		15.9	16.7		26°-14'	698'	
		20		14.7	15.5		25°-04'	661'	

Tape = +.4
Boat = +1.0
Tide = -.6
+0.8
5-22



76L-298 CE 307 11-58

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F.B. 2804 PG. 132 Job No. 0300.02 Division No. 11 Notes Red J.S.H. Plotted C.W.H. Profile
Survey of BEACH EROSION STUDIES Date 8-10-60 Date 10-13-60 No. X-Sec.
Survey by WARRENT Notes SMITH 01 Notes Chkd. C.W.H. Checked J.S.H.
Indexed H. E. OTT Date Date 8-11-60 Date 10-14-60 No.

STATION		B.S.	H.I.		F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Remarks	
		21	13.8	14.4		[illegible]	625'	Tape = +.2
		22	12.3	12.9		[illegible]	595'	Boat = +1.0
		23	11.9	12.5		21°-51'	566'	Tide = -.6
		24	11.1	11.7		21°-10'	543'	+0.6
		25	10.2	10.8		20°-35'	520'	
5-22	5-23	26	9.4	10.0		19°-53'	496'	
		27	8.1	8.7		18°-42'	469'	
		28	7.3	7.9	7-49	18°-08'	455'	

76L-298 S & E #307—1-56

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Profile No. X-Sec. No. Notes Red J.S.H. Plotted C.W.H. Job No. Division No. 11 F. B. 2804 PG.
Date 8-10-60 Date 10-13-60 Survey of BEACH EROSION STUDIES
Notes Chkd. C.W.H. Checked J.S.H. Survey by Notes Date
Date 8-11-60 Date 10-14-60 Map No. Indexed Date

STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 337+13.46 S-24	SIGHT ON 335+00
		17 54			DATUM MEAN LOWER LOW WATER	335+00 INSHORE
	10 18	25 97	1 75	15 79		
335+00			5 0	21 0	CONTROL	LINE
			4 9	21 1	5' LT. BACKWALK	
			4 7	21 3		9' RT. TOP BK.
			11 8	14 2		40' RT. BTM. BK.
T.P.	1 94	16 65	11 26	14 71		
			6 0	10 7		80' RT TOP BK.
T.P. for [illegible]	0.5	5.1	12 07	4 5	T.P	
335+00	0.5	5.4	1 4	4 7	30° 48' 127' Mean	Tide Line
335+00			4 9	0.2	43° 47' 204'	
"			6.2	-1.3	48° 45' 243'	
"			8.1	-3.0	52° 46' 281'	
"			8.6	-3.5	57° 12' 331'	
"			10.5	-5.4	60° 22' 375'	
"			13.5	-8.4	63° 20' 425'	
"			15.8	-10.7	65° 18' 464'	
T.P.			0 5	46	T.P above	

F. B. 2804 Pg. 134 Job No. 2000.2 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion Studies Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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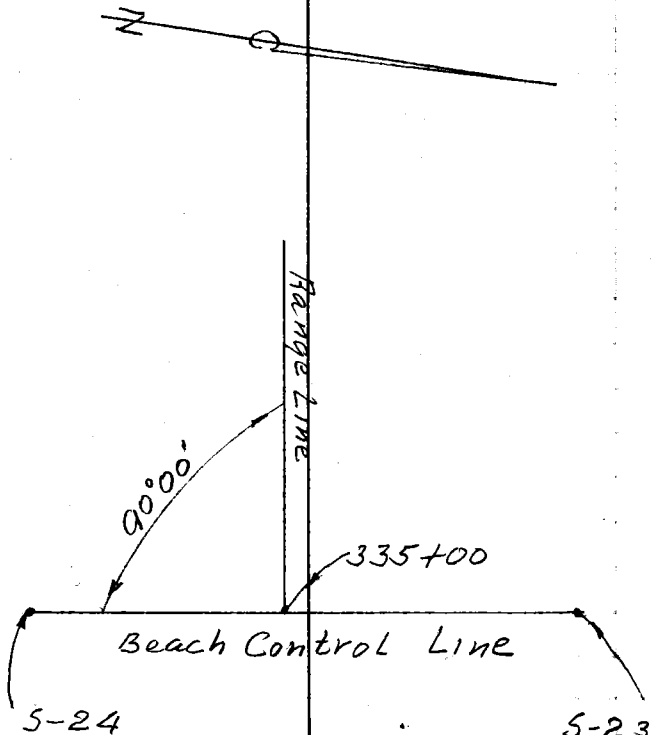
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B.S.	H.I.	F.S.	ELEV.
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.
		1	1	801	90° 00
		2			"
		3			"
		4			"
		5			"
		6			"
		7			"
		8			"
335+00	5-24	9			"
		10			"
		11			"
		12			"
		13			"
		14			"
		15			"
		16			"
		17			"
		18			"
		19			"
		20			"

Remarks



Profile Notes Red J. S. H. Plotted J.S.H. Job No. 230002 Division No. 11 F. B. 2804 Pg. 135
No. Date 8-10-60 Date 10-13-60 Survey of Beach Erosion Studies
X-Sec. Notes Chkd C.W.H. Checked CWH Survey by Wharriz Notes Telepromp Date 7-13-60
No. Date 8-11-60 Date 10-14-60 Map No. Indexed H. E. OH Date

F.B. 2804 Pg. 136

Job No. 0300-02 Division No. 11 Notes Red J.S.H. Plotted J.S.H Profile

Survey of Beach Erosion Studies Date 8-10-60 Date 10-13-60 No.

Survey by Uhavriet Notes Teeboom Notes Chkd. CWH Checked CWH X-Sec.

Indexed H. E. Ott Date 7-13-60 Date 8-11-60 Date 10-14-60 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.

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At 335+00					
Sight On 5-24					
# Depth Rec. Adj.					
21					
22					
23					
24					
25					
26					
27					
Time					
8 05					
Hor. Ang.					
90° 00					
"					
"					
"					
"					
"					

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.

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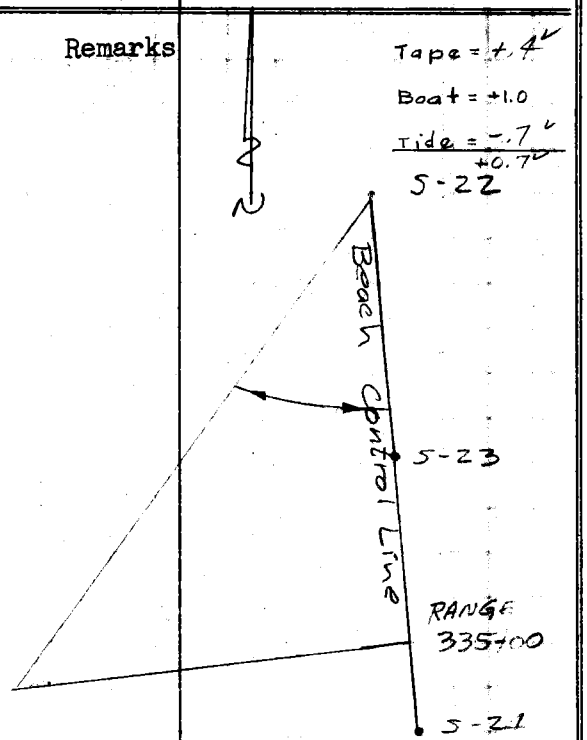
Profile No. ____ X-Sec. No. ____ Notes Red J.S.H. Plotted J.S.H. Job No. 0300-02 Division No. 11 F.B. 2804 PG. 137
Date 8-10-60 Date 10-13-60 Survey of BEACH EROSION STUDIES
Notes Chkd. CWH Checked CWH Survey by ____ Notes ____ Date ____
Date 8-11-60 Date 10-14-60 Map No. ____ Indexed ____ Date ____

STATION Inst. At	STATION Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
5-22	5-23	1	35.7	36.4	8-01	56°-46'	1,676'
		2	34.3	35.0		55°-25'	1,597'
		3	32.9	33.6		53°-47'	1,511'
		4	32.3	33.0		52°-15'	1,433'
		5	31.1	31.8		50°-48'	1,362'
		6	29.9	30.6		49°-28'	1,302'
		7	28.9	29.6		48°-10'	1,246'
		8	27.7	28.4		46°-36' ?	1,182' ?
		9	26.6	27.3		45°-02'	1,123'
		10	25.1	25.8		43°-25'	1,063'
		11	23.5	24.2		41°-33'	997'
		12	22.3	23.0		39°-38'	934'
		13	21.5	22.2		37°-58'	881'
		14	20.9	21.6		36°-37'	840'
		15	19.4	20.1		35°-24'	804'
		16	18.4	19.1		33°-53'	761'
		17	17.3	18.0		32°-17'	717'
		18	16.2	16.9		30°-53'	679'
		19	14.7	15.4		29°-20'	640'
		20	14.2	14.9		28°-11'	609'



F. B. 2804 Pg. 138 | Job No. 0300.02 | Division No. 11 | Notes Red J.S.H. | Plotted J.S.H. | Profile

Survey of BEACH EROSION STUDIES | Date 8-10-60 | Date 10-13-60 | No.

Survey by WARRET | Notes SMITH N. | Notes Chkd. C.W.H | Checked C.W.H. | X-Sec.

Indexed ~~H. E. OTT~~ | Date | Date 8-11-60 | Date 10-14-60 | No.

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.	Remarks
Inst. At	Sight On	Depth # Rec. Adj.	Time	Hor. Ang.	
5-22					
5-23					
	21	12.9 13.6		26°55	578'
	22	12.5 13.2		25°41	547'
	23	11.7 12.4		24°17	515'
	24	10.6 11.3		23°02	485'
	25	9.4 10.1		22°01	461'
	26	8.0 8.7		20°57	437'
	27	7.1 7.8	8-05	19°53	412'

Tape = 7.4'
Boat = +1.0
Tide = -.7
+0.7'

76L-298 S & E #307—1-56

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. @ 330+00	SIGHT ON 333+00
		16 65			DATUM MEAN LOWER LOW WATER	333+00 INSHORE
	11 37	24 67	3 30	15 30		
B.M. 5-23			4 60	20 07	B.M. 5-23 ELEV. = 20.060	
333+00			1 6	20	CONTROL LINE	
			4	20	LT. BACKWALK	
			3	20		12 RT. TOP BK.
			11 9	13		32 RT. BTM. BK.
T.P.	3 3	15 7	11 6	13 02		
			5 8	9 9		86 LT. TOP BK.
T.P.	0 0		15 34	3 17	T.P.	
	00	53	05	47		115 RT. Mean tide line
333+00			38	1.4	28° 30' 163'	
"			71	-1.9	35° 34' 215'	
"			85	-3.3	40° 51' 259'	
"			115	-6.3	49° 10' 347'	
"			132	-8.0	53° 12' 401'	
"			155	-10.3	56° 30' 453	
			173	-12.1	59° 35' 511	
T.P.			00	52	T.P. above	

Profile Notes Red. JSH Plotted JSH Job No. Division No. 11 F. B. 2804 PG.
No. Date 8-10-60 Date 10-13-60 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by Notes Date
No. Date 8-11-60 Date 10-14-60 Map No. Indexed H. E. OTT Date

F. B. 2804 Pg. 140 Job No. 0530.02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion Studies Date _____ Date _____ No. _____

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

Indexed H. E. OTT Date _____ Date _____ Date _____ No. _____

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

76L-298 S & E #307—1-56

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Do not extend notes this side of this line.

76L-298 CE 307 11-58

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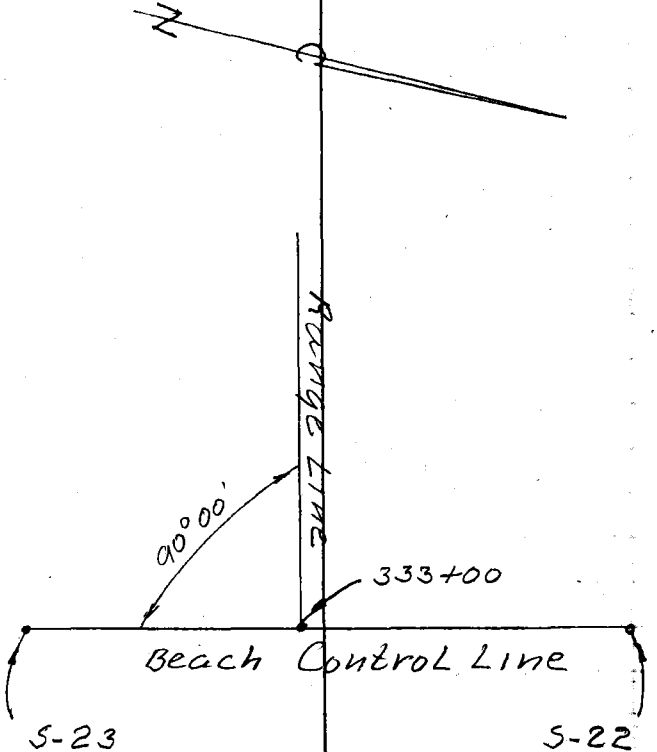
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
		1		8 16	90° 00'		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
333+00	5-23	8			"		
		9			"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



Profile Notes Red J.S.H. Plotted J.S.H. Job No. 030002 Division No. 11 F.B. 2804 Pg. 14
Date 8-10-60 Date 10-13-60 Survey of Beach Erosion Studies
X-Sec. No. Notes Chkd. C.W.H. Checked C.W.H. Survey by Wharnet Notes Telephone Date 7-13-60
No. Date 8-11-60 Date 10-14-60 Map No. Indexed W. E. Ott Date

F.B. 2804 Pg. 142 030002

Job No. _____ Division No. 11 Notes Red J.S.H. Plotted J.S.H. Profile

Survey of Beach Erosion Studies Date 8-10-60 Date 10-13-60 No. _____

Survey by Wharriet Notes Teeboom Notes Chkd. CWH Checked CWH X-Sec.

Indexed B. E. On Date 7-13-60 Date 8-11-60 Date 10-14-60 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.	Remarks
Inst. At 333+00					
Sight On 5-23					
	21			90°00	
	22			"	
	23			"	
	24			"	
	25			"	
	26			"	
	27			"	
	28			"	
	29			"	
	30			"	
	31			"	
	32			"	
	33			"	

#	Depth Rec.	Adj.	Time
			921

76L-298 CE 307 11-58

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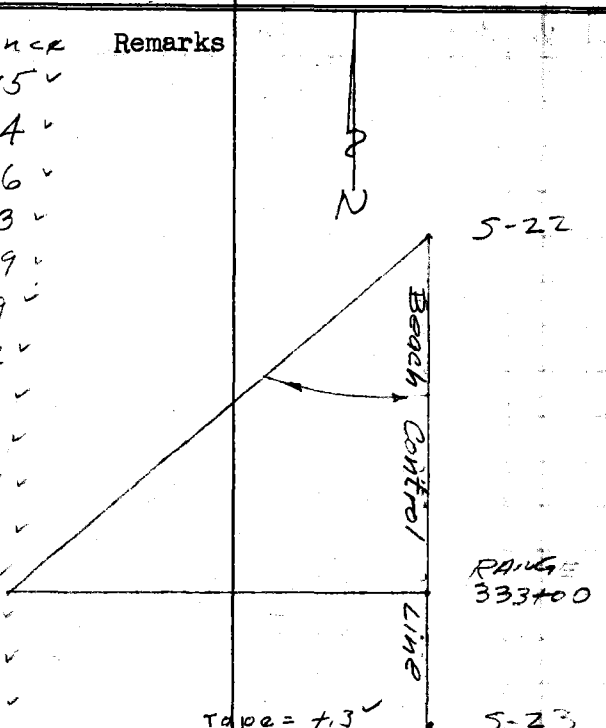
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile No. _____ X-Sec. No. _____ Notes Rod J.S.H. Date 8-10-60 Notes Chkd. C.W.H. Date 8-11-60 Plotted J.S.H. Date 10-13-60 Checked C.W.H. Date 10-14-60 Job No. 0300.02 Survey of BEACH EROSION STUDIES Survey by [illegible] Map No. _____ Division No. 11 Notes [illegible] Date 7-13-60 Indexed _____ Date _____ F.B. 28804 Pg. 143

STATION Inst. At	STATION Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.	Distance	Remarks
5-22	5-23	1	49.6	50.0	8-16	69°-18'	2,575	
		2	48.1	48.5		68°-55'	2,524	
		3	47.0	47.4		68°-23'	2,456	
		4	45.1	45.5		67°-27'	2,343	
		5	44.0	44.4		66°-42'	2,259	
		6	43.3	43.7		65°-56'	2,179	
		7	42.0	42.4		64°-51'	2,072	
		8	40.1	40.5		63°-42'	1,968	
		9	38.7	39.1		62°-36'	1,877	
		10	37.5	37.9		61°-48'	1,815	
		11	36.0	36.4		59°-40'	1,663	
		12	34.8	35.2		58°-38'	1,596	
		13	33.8	34.2		57°-25'	1,523	
		14	32.2	32.6		55°-43'	1,427	
		15	31.0	31.4		53°-57'	1,337	
		16	29.3	29.7		52°-03'	1,247	
		17	27.6	28.0		49°-55'	1,156	
		18	26.5	26.9		47°-59'	1,080	
		19	25.0	25.4		45°-54'	1,004	
		20	23.7	24.1		43°-46'	932	



Tape = +.3
Boat = +1.0
Tide = -.9
+0.4

76L-298 CE 307 11-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
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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. 2804 Pg. 144 Job No. 0300.02 Division No. 11 Notes Red JSH Plotted JSH Profile
Survey of BEACH EROSION STUDIES Date 8-10-60 Date 10-13-60 No. X-Sec.
Survey by HARRIET Notes SMITH 2 Notes Chkd. CWH Checked CWH No.
Indexed H. E. OH Date Date 8-11-60 Date 10-14-60

STATION		B. S.	H. I.		F. S.	ELEV.			
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Distance	Remarks	
		21	22.2	22.6		41°59'	876		Tape = +.3
		22	20.6	21.0		40°04'	818		Boat = +1.0
		23	19.5	19.9		38°16'	768		Tide = -.9
		24	18.5	18.9		36°24'	717		+0.4
		25	17.1	17.5		34°39'	672		
		26	16.0	16.4		32°57'	631		
5-22	5-23	27	14.9	15.3		31°28'	595		
		28	13.4	13.8		29°25'	549		
		29	12.6	13.0		28°12'	522		
		30	11.8	12.2		26°44'	490		
		31	9.5	9.9		24°23'	441		
		32	8.8	9.2		22°55'	412		
		33	7.9	8.3	8-21	22°17'	399		

76L-298 S & E #307—1-56

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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. @ 327+00	SIGHT ON 330+00
		15 71			DATUM MEAN LOWER LOW WATER	330+00 INSHORE
[illegible]	9 76	[illegible]	2 47	13 24		
T.P.	4 [illegible]	[illegible]	3 [illegible]	[illegible]		
330+00			4 [illegible]	20 5	CONTROL LINE	
			4 3	20 4	4' LT. BACK WALK	
			[illegible]	[illegible]		12' RT. TOP BRK.
			[illegible]	[illegible]		[illegible] RT. BTM [illegible]
T.P.	2 [illegible]	[illegible]	[illegible]	[illegible]		
			[illegible]	[illegible]		66' RT. T[illegible]
			[illegible]	4 7	[illegible] TIDE LINE	94' RT.
T.P. [illegible]			10 41	4 [illegible]	T.P.	
	14	6.3				
330+00			51	~~0.8~~ 1.2	24° 13'	135'
"			76	-1.3	31° 43'	185'
"			85	-2.3	39° 56'	251'
"			111	-4.8	46° 29'	316'
"			136	-7.3	50° 27'	363'
"			150	-8.7	53° 02'	399'
TP			14	4.9	T.P. above	

Profile Notes Red J.S.H. Plotted [illegible] Job No. [illegible] Division No. 11 F. B. 2804 PG. 142
No. Date 8-10-60 Date 10-13-60 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. C.H.H. Checked [illegible] Survey by [illegible] Notes [illegible] Date [illegible]
No. Date 9-11-60 Date 10-14-60 Map No. Indexed H. E. OTT Date

F. B. 2804 Pg. 146 Job No. 030002 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion Studies Date _____ Date _____ No. _____

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

Indexed H. E. OH Date _____ Date _____ Date _____ No. _____

STATION	B. S.	H. I.	F. S.	ELEV.
		15.50		

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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 S & E #307—1-56

76L-298 CE 307 11-56

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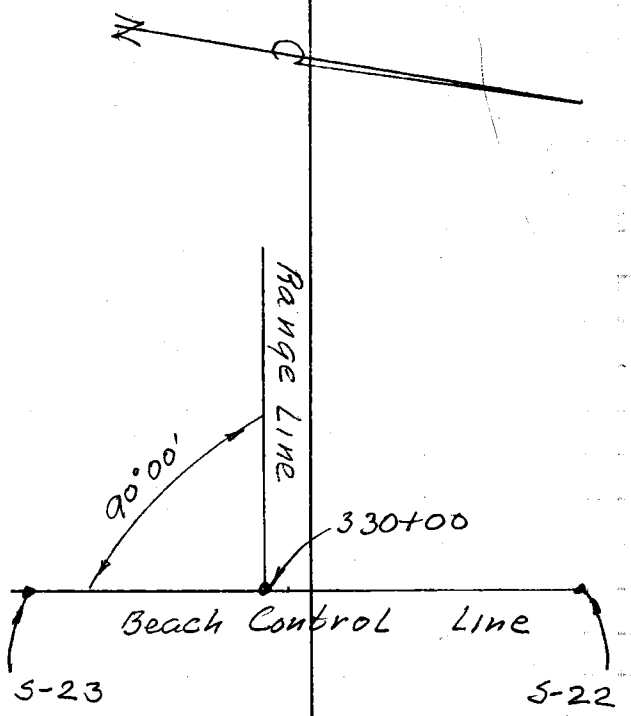
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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 Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
		1		908	90° 00'	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
330+00	5-23	8			"	
		9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	
		19			"	
		20			"	



Profile Notes Red J.S.H. Plotted J.S.H. Job No. 0300.02 Division No. 11 F.B. 2804 Pg. 147
Data 8-10-60 Date 10-13-60 Survey of Beach Erosion Services
No. X-Sec. Notes Chkd. CMH Checked CMH Survey by Wharriet Notes Reduced Date 7-13-60
No. Date 8-11-60 Date 10-14-60 Map No. Indexed H. E. OTT Date

F. B. 2804 Pg. 148 030002 Job No. Division No. 11 Notes Red J.S.H. Plotted J.S.H. Profile

Survey of Beach Erosion Studies Date 8-10-60 Date 10-13-60 No.

Survey by Uharriet Notes Teeboom Notes Chkd. CWH Checked CWH X-Sec.

Indexed H. E. OM Date 7-13-60 Date 8-11-60 Date 10-14-60 No.

76L-266 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.

STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. At 330+00	Sight On 5-23					
	21				90°00'	
	22				"	
	23				"	
	24				"	
	25				"	
	26				"	
	27				"	
	28				"	
	29				"	
	30				"	
	31				"	
	32				"	
	33				"	
	34				"	
	35				"	
	36				"	
	37				"	
	38				"	
	39				"	

#	Depth Rec.	Adj.	Time	Hor. Ang.	Remarks
9			13		

76L-298 CE 307 11-58

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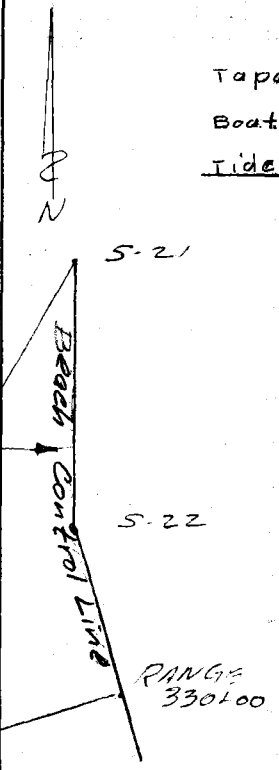
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red J.S.H. Plotted J.S.H. Job No. 0308.02 Division No. 11 F.B. 2804 Pg. 149
No. Date 8-10-60 Date 10-13-60 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. CMH Checked CMH Survey by [illegible] Notes [illegible] Date 7-13-60
No. Date 8-11-60 Date 10-14-60 Map No. Indexed H. E. OTT Date

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
5-21	5-22	1	99.5	99.0	9-08	59°-38'	3,027'
		2	85.2	84.7		59°-9'	2,977'
		3	73.3	72.8		59°-00'	2,931'
		4	67.2	66.7		58°-48'	2,900'
		5	64.5	64.0		58°-36'	2,868'
		6	61.7	61.2		58°-06'	2,796'
		7	59.4	58.9		57°-34'	2,722'
		8	56.8	56.3		57°-16'	2,688'
		9	53.5	53.0		56°-43'	2,606'
		10	50.7	50.2		55°-39'	2,479'
		11	48.5	48.0		54°-25'	2,345'
		12	46.8	46.3		53°-45'	2,278'
		13	43.2	42.7		51°-45'	2,082'
		14	41.7	41.2		50°-44'	1,991'
		15	40.6	40.1		49°-48'	1,913'
		16	39.5	39.0		48°-41'	1,827'
		17	38.5	38.0		47°-24'	1,737'
		18	37.9	37.4		46°-08'	1,651'
		19	36.9	36.4		44°-23'	1,545'
		20	35.8	35.3		42°-55'	1,461'

Tape = +1.2
Boat = +1.0
Tide = -1.6
-0.5



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.

F.B. 2804 Pg. 150 | Job No. 0300.02 | Division No. 11 | Notes Red J.S.H. Plotted J.S.H. Profile No.
Survey of BEACH EROSION STUDIES | Date 8-10-60 | Date 10-13-60 | X-Sec. No.
Survey by HARRIET | Notes SMITH, N | Notes Chkd. CWH Checked CWH
Indexed H. E. Off | Date | Date 8-11-60 | Date 10-14-60 | No.

STATION		B.S.	H.I.		F.S.	ELEV.			
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks	
		21	34.6	34.0		41°-16'	1,372'		Tape = +.1
		22	33.6	33.0		39°-59'	1,306'		Boat = +1.0
		23	31.9	31.3		37°-55'	1,210'		Tide = -1.7
		24	30.9	30.3		36°-31'	1,147'		-0.6
		25	29.6	29.0		34°-56'	1,079'		
		26	27.5	26.9		32°-32'	988'		
		27	25.5	24.9		30°-34'	916'		
		28	24.5	23.9		28°-36'	849'		
5-21	5-22	29	22.7	22.1		27°-54'	824'		
		30	21.1	20.5		25°-03'	734'		
		31	19.3	18.7		22°-54'	670'		
		32	17.4	16.8		20°-37'	605'		
		33	15.5	14.9		18°-31'	547'		
		34	13.3	12.7		16°-20'	490'		
		35	12.2	11.6		15°-07'	460'		
		36	11.2	10.6		14°-03'	433'		
		37	9.9	9.3		13°-00'	407'		
		38	8.9	8.3		11°-56'	380'		
		39	7.9	7.3	9-14	11°-09'	362'		

76L-298 CE 307 11-58

PLEASE RETURN TO
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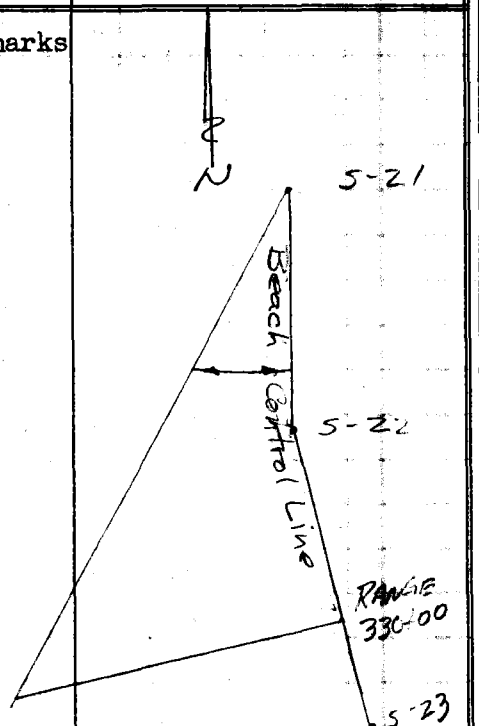
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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 Inst. At	Sight On	B.S. #	H.I. Depth Rec.	Adj.	F.S. Time	ELEV. Hor.Ang.	Remarks
		1			8-46	60°-08'	
		2				59°-43'	
		3				59°-25	
		4				59°-38'	
		5				59°-19'	
		6				59°-00'	
		7				58°-41'	
5-21	22-5	8				58°-22'	
		9				58°-12'	
		10				57°-55'	
		11				57°-38'	
		12				57°-13'	
		13				56°-46'	
		14				56°-20'	
		15				55°-40'	
		16				54°-32'	
		17				53°-45'	
		18				53°-10'	
		19				52°-31'	
		20				51°-32'	

REJECT



Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300-02 Division No. 11 F.B. 2864 Pg. 157
X-Sec. No. ____ Date ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of BEACH EROSION STUDIES
Survey by [illegible] Notes [illegible] Date 1-13-65
Map No. ____ Indexed ____ B. E. OH Date ____

76L-296 CE 307 11-58

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F.B. 2804 Pg. 152 Profile No.
Survey of BEACH EROSION STUDIES X-Sec. No.
Survey by UHARRIET Notes SMITH, N Plotted Date Checked Date
Indexed H. E. OH Date Notes Red Date Notes Chkd. Date
Job No. C300.02 Division No. 11

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
		21			50°-40'	
		22			49°-33'	
		23			48°-04'	
		24			46°-51'	
		25			45°-12'	
		26			43°-43'	
		27			42°-05'	
		28			40°-15'	
5-21	5-22	29			38°-35'	
		30			36°-38'	
		31			34°-15'	
		32			32°-08'	
		33			30°-04'	
		34			28°-17'	
		35			26°-45'	
		36			25°-17'	
		37			23°-36'	
		38			21°-47'	
		39			20°-02'	
		40			18°-00'	

REJECT

76L-298 CE 307 11-58

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STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor.Ang.	Remarks	
		41			16°-06'		
		42			14°-08'		
	N	43			11°-45'		
N	N	44			10-54		
S	S			8-53			

REJECT

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2804 Pg. 153

No. X-Sec. Date ____ Date ____ Survey of BEACH EROSION STUDIES

No. ____ Notes Chkd ____ Checked ____ Survey by WALKER Notes JMT/HJ Date 7-13-60

Date ____ Date ____ Map No. ____ Indexed H.F. Off Date ____

F.B. 2804 Pg. 154 Job No. 0300.02 Division No. 11 Notes Red _____ Plotted _____ Profile

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

Survey by HARRIET Notes SMITH, N Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L-298 CE 507 11-58

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

76L-298 S & E #307—1-56

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 327+00	SIGHT ON 328+44
		15.50			DATUM MEAN LOWER LOW WATER	328+44 INSHORE
T.P.	12.11	25.65	1.82	13.53		
328+44			[illegible]	31.3	CONTROL	LINE
			[illegible]	21.5	3' LT. BACK WALK	
			4.0	21.7		13' RT. TOP BEC.
[illegible]	1.07	[illegible]	[illegible]	[illegible]		
			[illegible]	[illegible]		27' RT. [illegible]
			[illegible]	[illegible]		63' RT. [illegible]
			12.3	4.7	[illegible]	72' RT.
T.P.			[illegible]	5.4		
	0.6	6.3				
328+44			4.0	2.3	30° 50'	86'
"			7.1	-0.8	37° 15'	109'
"			7.4	-1.1	44° 50'	143'
"			8.2	-1.9	50° 40'	176'
"			9.3	-3.0	56° 48'	220'
"			10.5	-4.2	59° 20'	243'
"			11.1	-4.8	61° 15'	263'
"			11.5	-5.2	62° 57'	282'

Profile Notes Red J.S.H. Plotted J.S.H. Job No. Division No. 11
No. Date 8-10-60 Date 10-13-60 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by Notes Date
No. Date 8-11-60 Date 10-14-60 Map No. Indexed Date

F. B. 2804 Pg.

F. B. 2804 Pg. 156 | Job No. 0300.02 | Division No. 11 | Notes Red. J.S.H. | Plotted J.S.H. | Profile

Survey of Beach Erosion Studies | Date 8-10-60 | Date 10-13-60 | No.

Survey by Lind. | Notes Goodwin & Sappell | Notes Chkd. C.W.H. | Checked C.W.H. | X-Sec.

Indexed H. E. OTT | Date | Date 8-11-60 | Date 10-14-60 | No.

STATION	B. S.	H. I.	F. S.	ELEV.
328+44		6.3	134	(-7.1)
"			157	(-9.4)
T.P			06	5.7
				64° 45'
				67° 11'
				T.P.
				305'
				342'

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76L-298 S & E #307—1-56

76L-298 S & E #307—1-56

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 324+00	SIGHT ON 328+16
					DATUM MEAN LOWER LOW WATER	328+16 INSHORE
T.B. 328+16					CONTROL	LINE
					5' LT. BACK WALK.	
						7 FT. TOP BRK.
		17.32				
				13.9		22' CT.
				11.2		20 CT. TOP BRK.
						86' CT.
T.P.						
	09	63				
328+16			61	02	15° 50'	118'
"			72	-0.9	20° 50'	158'
"			74	-1.1	26° 06'	204'
"			85	-2.2	30° 39'	247'
"			100	-3.7	33° 35'	276'
"			125	-6.2	40° 38'	357'
"			14.9	-8.6	44° 13'	405'
"			16.4	-10.1	46° 30'	438'
T.P.			09	5.4	T.P. above	

Profile Notes Red J.S.H. Plotted J.S.H. Job No. Division No. 11 F. B. 2804 PG. 101
No. Date 8-10-60 Date 10-13-60 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd Checked Survey by Notes Date
No. Date 8-11-60 Date 10-14-60 Map No. Indexed H. E. Off Date

F. B. 2804 Pg. 158 Job No. 0300.02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion Studies Date _____ Date _____ No. _____

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

Indexed H. E. OTT Date _____ Date _____ Date _____ No. _____

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

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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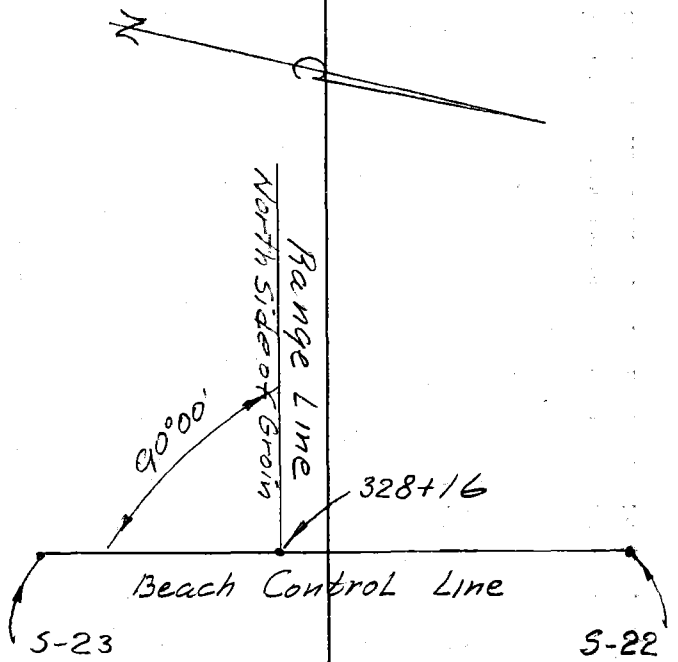
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
328+16	S-23	1		933	90° 00'	Sheet 1 (Total 2 sheets)
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
		8			"	
		9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	
		19			"	
		20			"	



Profile No. ____ X-Sec. ____ Notes Red J.S.H. Plotted J.S.H. Job No. 030802 Division No. 11 F.B. 2804 Pg. 159
Date 8-10-60 Date 10-13-60 Survey of Beach Erosion Studies
Notes Chkd. ____ Checked CWM Survey by Whatrel Notes Taken Date 7-13-60
Date 8-17-60 Date 10-14-60 Map No. ____ Indexed H. E. Ott Date ____

F.B. 2804 PG. 160

030002

Job No. ____ Division No. 11 Notes Red J.S.H. Plotted J.S.H. Profile

Survey of Beach Erosion Studies Date 8-10-60 Date 10-13-60 No. ____

Survey by Uharriet Notes Teeboom Notes Chkd. CWH Checked CWH X-Sec.

Indexed H. E. ON Date 7-13-60 Date 8-11-60 Date 10-14-60 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.

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STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At 328+16	Sight On 5-23	# Depth Rec. Adj.	Time	Hor. Ang. 90° 00'	
	21			"	
	22			"	
	23			"	
	24			"	
	25			"	
	26			"	
	27			"	
	28			"	
	29			"	
	30			"	
	31			"	
	32			"	
	33			"	
	34			"	
	35			"	
	36			"	
	37			"	
	38			"	
	39			"	
	40			"	

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	Sight On	#	Depth Rec. Adj.	Time	Hor.Ang.	Remarks	
		41			90° 00'		
		42			"		
		43			"		
		44			"		
		45			"		
		46			"		
		47			"		
		48			"		
328+16	5-23	49			"		
		50			"		
		51			"		
		52		9 40	"		

Profile No. ____ X-Sec. No. ____ Notes Red J.S.H. Date 8-10-60 Notes Chkd. [illegible] Date 8-11-60 Plotted J.S.H. Date 10-13-60 Checked [illegible] Date 10-14-60 Job No. 03002 Survey of Beach Erosion Survey by Wharfield Map No. ____ Division No. 11 Notes Tech. Indexed ____ Date ____ F.B. 2804 Date 7-13-60 Pg. 161

F.B. 2804 Pg. 162 | 0300.02

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

Survey of Beach Erosion Studies Date _____ Date _____ No. _____

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

Indexed H. E. Ott Date 7-13-60 Date _____ Date _____ No. _____

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
328+16					Inst. At
5-23					Sight On
					#
					Depth Rec. Adj.
					Time
					Hor. Ang.

Do not extend notes this side of this line.

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76L-200 CE 307 11-58

76L-298 CE 307 11-58

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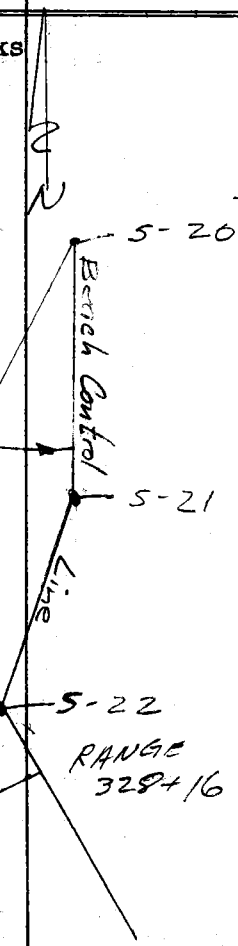
Profile No. ____ Notes Red. J.S.H. Plotted J.S.H. Job No. 03300 Division No. 11 F.B. 2804 Pg. 163
X-Sec. No. ____ Date 8-10-60 Date 10-18-60 Survey of BEACH ERosion STUDIES
Notes Chkd. C.W.H. Checked C.W.H. Survey by ____ Notes ____ Date ____ 13
Date 8-11-60 Date 10-19-60 Map No. ____ Indexed H. E. OTT Date ____

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S.	ELEV. Time	Hor. Ang.	Remarks
5-20	5-21	1	—			9-33	62°-09'	
		2	128.0	126.9			61°-11'	3,066
		3	120.3	119.2			60°-43'	3,008
		4	113.3	112.2			60°-23'	2,960
		5	104.8	103.7			59°-48'	2,889
		6	97.9	96.8			59°-42'	2,878
		7	92.8	91.7			59°-11'	2,812
		8	85.2	84.1			58°-52'	2,774
		9	79.0	77.9			58°-37'	2,745
		10	72.2	71.1			58°-17'	2,710
		11	67.9	66.8			58°-02'	2,679
		12	65.1	64.0			57°-45'	2,647
		13	62.7	61.6			57°-19'	2,598
		14	60.5	59.4			57°-01'	2,568
		15	59.0	57.9			56°-42'	2,531
		16	57.4	56.3			56°-13'	2,480
		17	54.2	53.1			55°-50'	2,451
		18	52.0	50.9			55°-20'	2,394
		19	50.1	49.0			54°-46'	2,348
		20	48.3	47.2			54°-04'	2,281

Tape = 0
Boat = +1.0
Tide = -2.1
-1.1



76L-298 CE 307 11-58

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F.B. 2804 Pg. 164 Job No. 0300.02 Division No. 11 Notes Red J.S.H. Plotted J.S.H. Profile
Survey of BEACH EROSION STUDIES Date 8-10-60 Date 10-13-60 No. X-Sec.
Survey by CHARRIET Notes SAN. TH. N Notes Chkd. CWH Checked CWH
Indexed H. E. OTT Date Date 8-11-60 Date 10-14-60 No.

STATION		B.S.	H.I.		F.S.	ELEV.			
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks	
S-20	S-21	21	46.6	45.5		53°-10'	2,201'		Tape = 0
		22	45.2	44.1		52°-11'	2,180'		Boat = +1.0
		23	43.8	42.7		51°-06'	2,034'		Tide = -2.1
		24	42.9	41.8		50°-07'	1,956'		-1.1
		25	42.2	41.1		49°-06'	1,883'		
		26	41.3	40.2		47°-48'	1,792'		
		27	40.6	39.5		46°-46'	1,724'		
		28	40.2	39.1		45°-32'	1,648'		
		29	39.9	38.8		44°-03'	1,558'		
		30	39.8	38.7		42°-57'	1,498'		
		31	38.8	37.7		41°-35'	1,420'		
		32	37.2	36.1		39°-50'	1,328'		
		33	35.3	34.2		37°-58'	1,240'		
		34	33.4	32.3		36°-18'	1,161'		
		35	31.9	30.8		34°-29'	1,082'		
		36	30.4	29.3		33°-19'	1,033'		
		37	28.8	27.7		31°-40'	964'		
		38	27.3	26.2		30°-11'	904'		
		39	26.2	25.1		28°-20'	832'		
		40	25.0	23.9		26°-23'	761'		

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 Inst. At	Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor.Ang.		Remarks	
		41	22.3	21.1		24°57	709'	Range	328+16
		42	20.0	18.8		23°31	661'		
		43	17.9	16.7		21°56	607'		
		44	16.5	15.3		20°49	566'		
		45	14.6	13.4		19°41	531'		
		46	13.7	12.5		18°39	498'		
		47	13.0	11.8		17°47	471'		
		48	11.6	10.4		16°57	445'		
		49	10.6	9.4		16°14	422'		
		50	9.8	8.6		15°40	405'		
		51	8.8	7.6		14°50	383'		
		52	7.9	6.7	9-40	14°13	361'		

Tape = 0
Boat = +1.0
Tide = -2.2
-1.2

Profile Notes Red J.S.H. Plotted J.S.H. Job No. 03000 Division No. 11 F.B. 2804 PG. 65
No. Date 8-10-60 Date 10-13-60 Survey of BERCH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by Notes Date 7-13-60
No. Date 8-11-60 Date 10-14-60 Map No. Indexed H. E. Off Date

F. B. 2804 Pg. 166 Job No. 0300.02 Division No. 11 Notes Red _____ Plotted _____ Profile

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

Survey by WHARRIE T Notes SMITH, N Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L-298 CE 307 11-58

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

Notes Ck'd by J.S.H.	Survey of Beach Erosion Studies	F. B. 2804 PG. 167
Map No.	JN 0500-06 Tape Std °F	
Office Work J.S.H.	Surveyed by Unknown	
Checked C.W.H.	Notes Blackhead Date 7-18-60	
Date 8-10-60	Indexed	B. E. OTT

TIDE GAUGE READINGS

JULY 18, 1960

DATUM-M.L.L.W.

TIME-P.S.T.

TIME P.S.T.	GAUGE READING M.L.L.W.
5:00 A.M.	3.5 ft.
5:30	3.7
6:00	3.8
6:30	3.9
7:00	3.9
7:30	3.8
8:00	3.6
8:30	3.5
9:00	3.3
9:30	3.0
10:00	2.9
10:30	2.7
11:00	2.7

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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76F309S S&E #247 11-58

F. B. 2804 PG. 168

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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.

STATION	B.S.	H.I.	F.S.	ELEV.	Inst @ 324+00	Sight on. 327+00
		17 04			DATUM MEAN LOWER LOW WATER	327+00 INSHORE
T.P.	11 48	26 61	191	15 13	T.P.	
327+00			46	22 0	control Line	
			46	22 0	4'L back walk.	
			46	22 0		17'R Top brk.
T.P.	0.18	15 94	10 85	15 76	T.P.	
			28	13 1		35'R bott. brk.
			112	4 7	Mean tide line 91° R.	
T.P. swim partx			11 15	4 79	T.P.	
	33	8 1				
327+00			83	-0 2	20° 31' 112'	
"			72	+0.9	24° 38' 138'	
"			84	-0.3	31° 51' 186'	
"			100	-1.9	38° 12' 236'	
"			118	-3.7	43° 23' 284'	
"			141	-6.0	47° 33' 328'	
"			161	-8.0	51° 51' 382'	

Profile No. ____ X-Sec. No. ____ Notes Red J.S.H. Date 8-10-60 Notes Chkd. CWH Date 8-11-60 Plotted J.S.H. Date 10-13-60 Checked CWH Date 10-14-60 Job No. 0300.02 Survey of Beach Erosion Studies Survey by Line Map No. ____ Division No. 11 Notes Good Date 7-13-60 Indexed ____ Date ____

F.B. 2804 PG. 169

F.B. 2804 Pg. 170

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

Survey of Beach Erosion Studies Date _____ Date _____ No. _____

Survey by Lind Notes Sappell & Goodwin Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L-298 CE 307 11-58

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76L-298 CE 307 11-58

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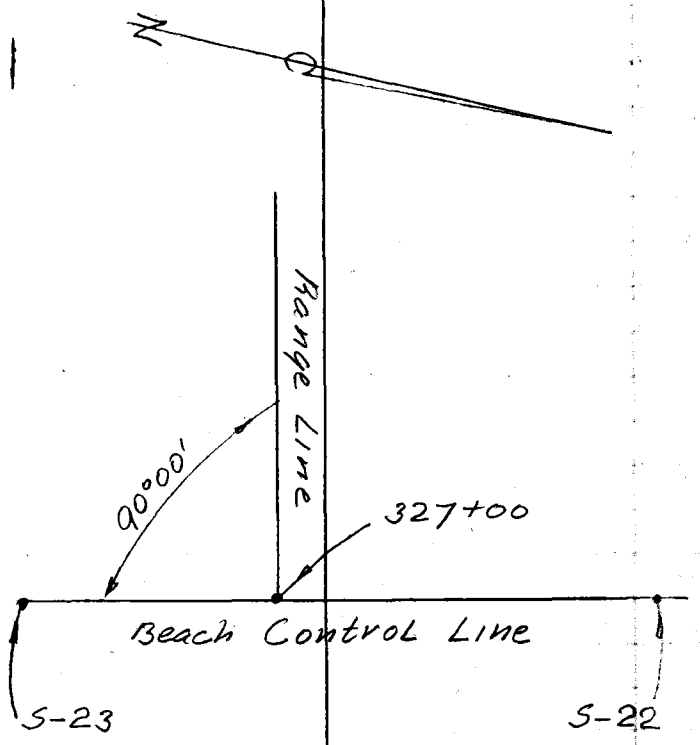
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor.Ang.	Remarks
		1		523	90° 00'	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
		8			"	
		9			"	
327+00	S-23	10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	
		19			"	
		20			"	



Profile Notes Red J.S.H. Plotted J.S.H. Job No. 0300.02 Division No. 11
Date 8-10-60 Date 10-13-60 Survey of Beach Erosion Studies
No. X-Sec. Notes Chkd. CHH Checked CHH Survey by Harvey Notes Taken Date 7-18-60
No. Date 8-17-60 Date 10-14-60 Map No. Indexed Date
F.B. 2804 Pg. 171

F.B. 2804 Pg. 172 | 0300.02

Job No. _____ Division No. 11 Notes Red J.S.H. Plotted J.S.H. Profile

Survey of Beach Erosion Studies Date 8-10-60 Date 10-13-60 No. _____

Survey by Wharriet Notes Teeboom Notes Chkd. CWH Checked CWH X-Sec.

Indexed H. E. Ott Date _____ Date 8-11-60 Date 10-14-60 No. _____

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At 327+00					
Sight On 5-23					
#	Depth Rec.	Adj.	Time	Hor. Ang.	
21				90°00'	
22				"	
23				"	
24				"	
25				"	
26				"	
27				"	
28				"	
29				"	
30				"	
31				"	
32				"	
33				"	
34				"	
35				"	
36				"	
37				"	
38				"	
39				"	
40				"	

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76L-206 CE 307 11-58

76L-298 CE 307 11-58

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STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor.Ang.	Remarks	
327+00	S-23	41			90° 00		
		42					
		43					
		44					
		45					
		46		529			

Profile No. _____ Notes Red. J.S.H. Plotted J.S.H. Job No. 0300002 Division No. 11 F.B. 2804 Pg. 173
X-Sec. No. _____ Date 8-10-60 Date 10-13-60 Survey of Beach Erosion Studies
Notes Chkd. C.W.H. Checked C.W.H. Survey by Morrill Noted Technicians Date 7-18-80
Date 8-11-60 Date 10-14-60 Map No. _____ Indexed _____ Date _____

F. B. 2804 Pg. 174 | 0300.02

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

Survey of Beach Erosion Studies Date _____ Date _____ No. _____

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

Indexed H. E. OTT Date _____ Date _____ Date _____ No. _____

76L-298 CE 307 11-58

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. At / Sight On / Depth # / Rec. Adj. / Time / Hor. Ang.	Remarks
327+00						
S-23						

76L-298 CE 307 11-58

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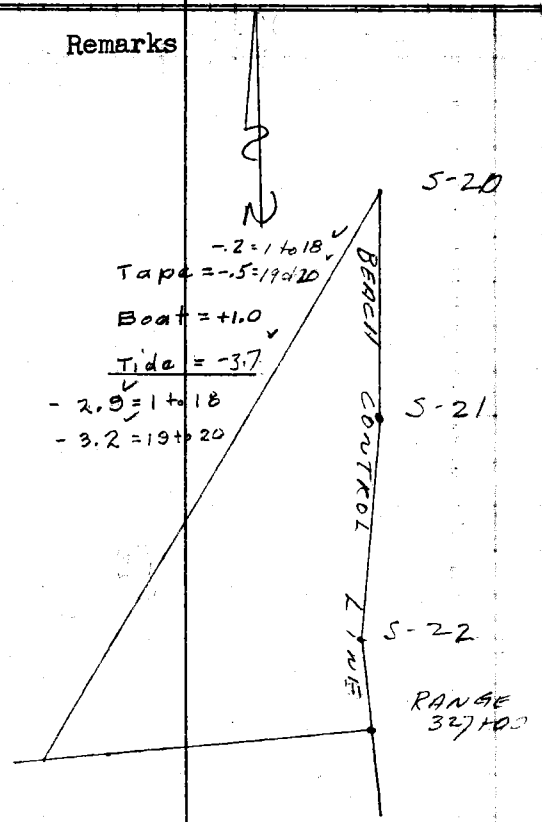
Profile No. ____ Date 8-10-60 Notes Red J.S.H. Plotted J.S.H. Job No. 0300.02 Division No. 11 E.B. 2804 PG. 175
X-Sec. No. ____ Date 8-11-60 Notes Chkd. C.W.H. Checked C.W.H. Date 10-14-60 Map No. ____ Survey of BARCHERESPON STUDIES Survey by ____ Notes ____ Date 7-15-60
Indexed ____ Date ____

STATION Inst. At	Sight On	#	B.S. Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.		Remarks
S-20	S-21	1	65.1	62.2	5-23	58°-04'	2480'	
		2	57.2	54.3		57°-27'	2420'	
		3	53.5	50.6		56°-52'	2356'	
		4	50.4	47.5		55°-40'	2243'	
		5	49.1	46.2		54°-53'	2175'	
		6	48.3	45.4		54°-12'	2120'	
		7	47.5	44.6		53°-43'	2080'	
		8	46.6	43.7		52°-48'	2006'	
		9	45.6	42.7		51°-25'	1902'	
		10	45.3	42.4		50°-38'	1842'	
		11	45.5	42.6		49°-42'	1778'	
		12	45.0	42.1		48°-42'	1710'	
		13	44.9	42.0		47°-45'	1651'	
		14	44.8	41.9		46°-46'	1592'	
		15	43.9	41.0		45°-41'	1530'	
		16	43.1	40.2		44°-26'	1460'	
		17	41.3	38.4		43°-04'	1388'	
		18	40.3	37.4		41°-44'	1319'	
		19	38.9	35.7		40°-17'	1249'	
		20	37.7	34.5		38°-53'	1182'	



76L-296 CE 307 11-58

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F.B. 2804 Pg. 176 Job No. 0300.02 Division No. 11 Notes Red J. S. H. Plotted J. S. H. Date 8-10-60 Date 10-13-60 Profile No.
Survey of BEACH EROSION STUDIES Notes Chkd. C.W.H. Checked C.W.H. X-Sec. No.
Survey by HARRIET SMITH Notes Date 8-11-60 Date 10-14-60 No.
Indexed M. E. OTT Date

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.		Remarks
5-20	5-21	21	35.6	32.4		37°32'	1124'	Tape = -.5
		22	34.3	31.1		36°-11'	1066'	Boat = +1.0
		23	32.7	29.5		35°-05'	1020'	Tide = -3.7
		24	32.0	28.8		34°-10'	983'	-3.2
		25	31.3	28.1		33°-16'	948'	
		26	30.6	27.4		32°-15'	909'	
		27	29.4	26.2		31°-18'	872'	
		28	28.1	24.9		29°-58'	823'	
		29	26.6	23.4		28°-55'	786'	
		30	25.5	22.3		27°-57'	751'	
		31	24.8	21.6		27°-02'	721'	
		32	23.7	20.5		26°-21'	699'	
		33	22.6	18.8		25°-37'	673'	
		34	20.8	16.8		24°-16'	629'	
		35	18.6	15.4		23°-08'	593'	
		36	17.4	14.2		22°-27'	571'	
		37	16.2	13.0		21°-12'	533'	
		38	15.4	12.2		20°-55'	524'	
		39	14.8	11.6		20°-05'	497'	
		40	14.2	11.0		19°-21'	477'	

76L-298 CE 307 11-58

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STATION		B.S.	H.I.		F.S.	ELEV.			
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks	
		41	12.9	9.7		18°-32	452'		Tape = -.5
		42	12.2	9.0		17°-37	425'		Boat = +1.0
		43	11.8	8.6		16°-59	406'		Tide = -3.7
		44	10.7	7.5		16°-03	379'		-3.2
		45	9.9	6.7		15°-18	357'		
		46	8.9	5.7	5-29	14°-22	331'		

5-20
5-21

RANGE 37,400

Profile No. ____ X-Sec. ____ Notes Red J.S.H. Plotted J.S.H. Job No. ____ Division No. 11
Date 8-10-60 Date 10-13-60 Survey of BEACH EROSION STUDIES
Notes Chkd C.W.H. Checked C.W.H. Survey by ____ Note ____ Date ____
No. ____ Date 8-11-60 Date 10-14-60 Map No. ____ Indexed ____ Date ____

F.B. 28204 Pg. 177

F.B. 2804 Pg. 178 Job No. 0300-02 Division No. 11 Notes Red _____ Plotted _____ Profile

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

Survey by HARRIET Notes SMITH N Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L-268 CE 307 11-58

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

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 327+00	SIGHT ON 325+50
					DATUM MEAN LOWER LOW WATER	325+50 INSHORE
T.P. 325+50	[illegible]	[illegible]	[illegible]	[illegible]	CONTROL LINE	
					7' LT. BACKWALK	
			[illegible]	[illegible]		15' RT. TOP 326'
T.P.	[illegible]	[illegible]	[illegible]	[illegible]	T.P.	
			[illegible]	[illegible]		35' RT. TOP 326'
			[illegible]	[illegible]		35' RT. TOP 33
			[illegible]	[illegible]	MEAN TIDE — [illegible]	
T.P.			11.65	[illegible]	T.P.	
	25	71				
325+50			7.8	-0.6	40° 00'	126'
"			8.3	-1.2	50° 52'	184'
"			8.2	-1.1	58° 36'	246'
"			9.6	-2.5	62° 04'	283'
"			11.2	-4.1	64° 45'	318'
"			13.0	-5.9	68° 20'	378'
"			14.6	-7.5	70° 30'	424'
"			16.6	-9.5	72° 58'	490'

Profile No. _____ X-Sec. No. _____ Notes Red C.W.H. Date 8-12-60 Notes Chkd. [illegible] Date 8-22-60 Plotted C.W.H. Date 10-17-60 Checked [illegible] Date 10-18-60 Job No. _____ Survey of BEACH EROSION STUDIES Survey by [illegible] Map No. _____ Division No. 11 Notes [illegible] Indexed [illegible] Date _____ Date _____ F. B. 2804 Pg. 170 Date _____

F. B. 2804 Pg. 180 Job No. 0300.02 Division No. 11 Notes Red. CWH Plotted _____ Profile

Survey of Beach Erosion Studies Date 8-12-60 Date _____ No. _____

Survey by Lind Notes Sappell & Goodwin Notes Chkd. JSH Checked _____ X-Sec.

Indexed H. E. OTT Date _____ Date 8-12-60 Date _____ No. _____

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

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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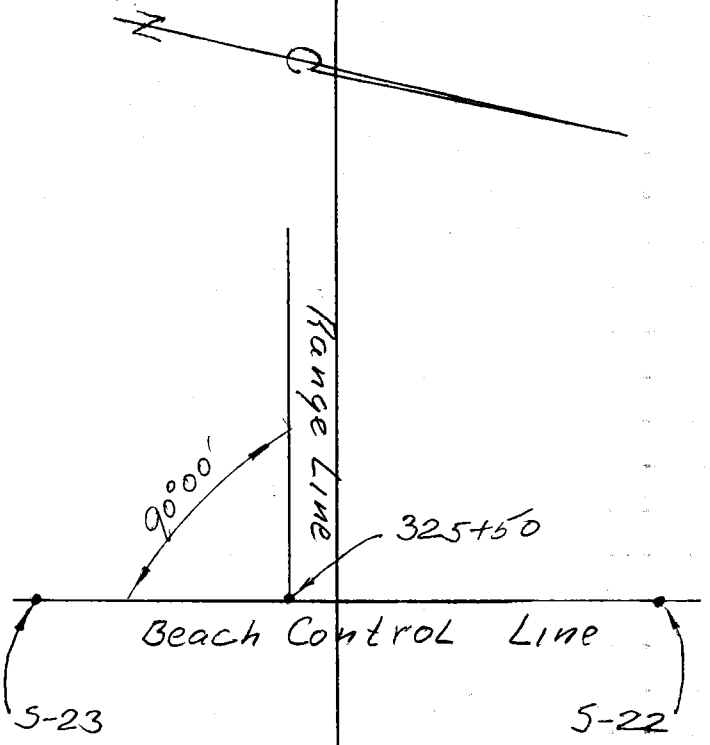
STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
		1		606	90°00'	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
		8			"	
325+50	5-23	9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18		609	"	
		19		624	"	
		20			"	



Profile Notes Red C.W.H. Plotted C.W.H. Job No. 030002 Division No. 11 F.B. 2804 Pg. 181
No. X-Sec. Date 8-12-60 Date 10-17-60 Survey of Beach Erosion Studies
No. Notes Chkd J.S.H. Checked J.S.H. Survey by Wharklet Notes Tedrow Date 7-18-60
Date 8-22-60 Date 10-18-60 Map No. Indexed H. E. Ott Date

F.B. 2804 Pg. 182 030202

Job No. _____ Division No. 11 Notes Red C.W.H. Plotted C.W.H. Profile

Survey of Beach Erosion Studies Date 8-12-60 Date 10-17-60 No. _____

Survey by Uharriet Notes Teeboom Notes Chkd. J.S.H. Checked J.S.H. X-Sec.

Indexed H.E. OTT Date _____ Date 8-22-60 Date 10-18-60 No. _____

76L-200 CE 307 11-58

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STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At 325+50					
Sight On S-23					
	21				
	22				
	23				
	24				
	25				
	26				
	27				
	28				
	29				
	30				
	31				
	32				
	33				
	34				
	35				
	36				
	37				
	38				
	39				
	40				

#	Rec.	Adj.	Time	Hor. Ang.
				90° 00'

76L-298 CE 307 11-56

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STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor.Ang.	Remarks	
		41			90°00		
		42			"		
		43			"		
		44			"		
		45			"		
		46			"		
		47			"		
		48			"		
		49			"		
325+50	5-23	50		628	"		

Profile Notes Red C.W.H. Plotted C.W.H. Job No. 2300.02 Division No. 11 F.B. 2804 Pg. 153
Date 8-12-60 Date 10-17-60 Survey of Beach Erosion Studies
No. X-Sec. Notes Chkd. J.S.H. Checked J.S.H. Survey by Channel Notes Kc 1900 Date 7-18-60
No. Date 8-22-60 Date 10-18-60 Map No. Indexed H.F. Date

F.B. 2804 Pg. 184 | 0300.02

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

Survey of Beach Erosion Studies Date _____ Date _____ No. _____

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

Indexed H. E. OH Date _____ Date _____ Date _____ No. _____

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

76L-256 CE 307 11.58

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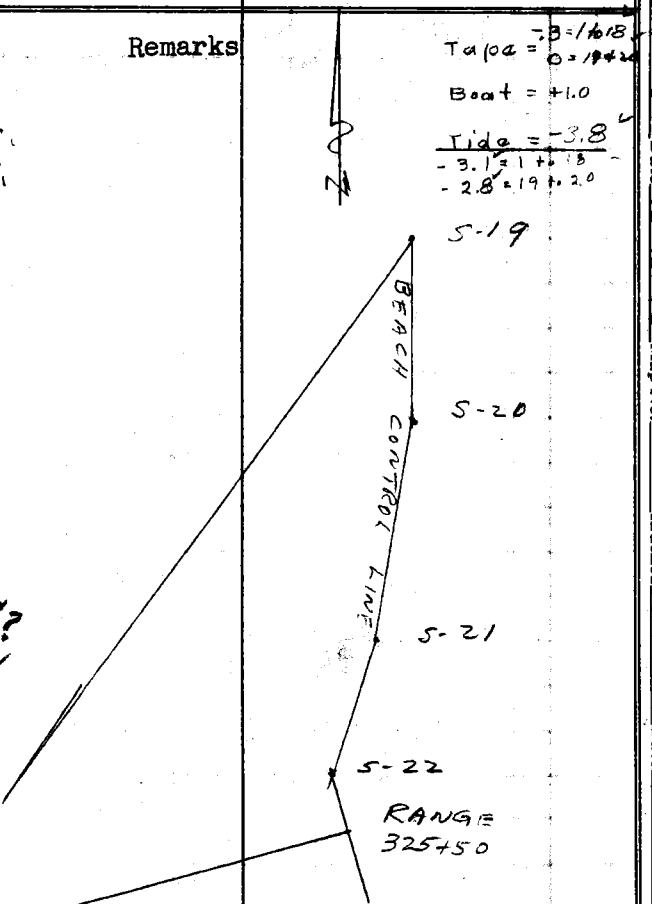
STATION Inst. At	Sight On	B.S.	H.I.	F.S.	ELEV.		Remarks
		#	Depth Rec. Adj.	Time	Hor. Ang.		
		1		6-06	58°-28'		
		2	139.9 136.8		57°-32'	2773'	
		3	131.0 127.9		56°-59'	2709'	
		4	123.7 120.6		56°-40'	2675'	
		5	118.0 114.9		56°-27'	2654'	
		6	102.5 99.4		56°-06'	2620'	
		7	92.8 89.7		55°-46'	2590'	
		8	83.3 80.2		55°-17'	2539'	
		9	75.3 72.2		54°-55'	2506'	
		10	70.4 67.3		54°-35'	2475'	
		11	66.9 63.8		54°-18'	2454'	
		12	63.8 60.7		53°-58'	2420'	
		13	61.1 58.0		53°-33'	2382' ?	
		14	59.0 55.9		53°-06'	2342'	
		15	57.3 54.2		52°-35'	2298'	
		16	55.1 52.0		51°-48'	2235'	
		17	54.2 51.1		51°-12'	2188'	
		18	53.0 49.9	6-09	50°-26'	2123'	
		19	52.4 49.6	6-24	49°-43'	2068'	
		20	51.2 48.4		48°-40'	1991'	



Tide = -3.8
-3.1 = 1 + 1.8
-2.8 = 19 + 2.0

Profile Notes Red C.W.H. Plotted C.W.H. Job No. 0300-02 Division No. 11 F.B. 2804 PG. 185
Date 8-12-60 Date 10-17-60 Survey of BEACH EROSION STUDIES
No. X-Sec. Notes Chkd. J.S.H. Checked J.S.H. Survey by Notes Date 18
No. Date 8-22-60 Date 10-18-60 Map No. Indexed H.E.O.H. Date

76L-298 CE 307 11-58

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F.B. 2804 Pg. 186 Job No. 0300.02 Division No. 11 Notes Red C.W.H. Plotted C.W.H. Profile
Survey of BEACH EROSION STUDIES Date 8-12-60 Date 10-17-60 No. X-Sec.
Survey by CHARNIET Notes SOUTH 2 Notes Chkd. J.S.H. Checked J.S.H.
Indexed H.E.OM Date Date 8-22-60 Date 10-18-60 No.

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	H.I. Adj.	F.S. Time	ELEV. Hor. Ang.		Remarks
S-19	S-20	21	50.9	48.1		47°-46'	1929'	+.1 21 to 28
		22	49.9	47.1		46°-10'	1818'	Tape = +.3 29 to 37
		23	49.6	46.8		44°-54'	1739'	+.1 38 to 40
		24	50.0	47.2		43°-24'	1645'	Boat = +1.0
		25	48.5	45.7		41°-28'	1530'	Tide = -3.9
		26	46.3	43.5		39°-07'	1399'	-2.8 = 21 to 28
		27	43.9	41.1		36°-47'	1278'	-2.6 = 29 to 37
		28	40.2	37.4		34°-46'	1177'	-2.8 = 38 to 40
		29	37.8	35.2		33°-34'	1120'	
		30	35.8	33.2		32°-28'	1069'	
		31	34.1	31.5		31°-18'	1017'	
		32	32.2	29.6		30°-11'	968'	
		33	29.8	27.2		28°-47'	908'	
		34	28.3	25.7		27°-49'	865'	
		35	27.4	24.8		26°-45'	819'	
		36	26.1	23.5		25°-36'	772'	
		37	24.9	22.3		24°-40'	733'	
		38	23.9	21.1		23°-36'	692'	
		39	22.7	19.9		22°-30'	649'	
		40	21.1	18.3		21°-35'	612'	

76L-296 CE 307 11-58

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Do not extend notes this side of this line.

Profile No. ____ X-Sec. No. ____ Notes Red C.W.H. Plotted C.W.H. Job No. ____ Division No. 11 F.B. 2824 Pg. 187
Date 8-12-60 Date 10-17-60 Survey of BEACH EROSION STUDIES
Notes Chkd. J.S.H. Checked J.S.H. Survey by [illegible] Notes [illegible] Date [illegible]
Date 8-22-60 Date 10-18-60 Map No. ____ Indexed [illegible] Date ____

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.		Remarks
5-19	5-20	41	19.4	16.6		20°-40'	578'	
		42	17.8	15.0		19°-42'	540'	
		43	16.5	13.7		18°-50'	509'	
		44	14.9	12.1		17°-42'	465'	
		45	13.1	10.3		16°-52'	436'	
		46	11.6	8.8		16°-07'	409'	
		47	10.2	7.4		15°-15'	377'	
		48	9.2	6.4		14°-30'	349'	
		49	8.1	5.3		13°-47'	325'	
		50	7.3	4.5	6:28	13-20	308'	

Tape = +.1
Boat = +1.0
Tide = -3.9
-2.8

CHANGE 3257.50

F. B. 2804 Pg. 188

0300.02

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

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

Survey by HARRIET Notes SMITH N Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L-298 CE 307 11-58

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

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 327+00	SIGHT ON 324+00
					DATUM MEAN LOWER LOW WATER	324+00 INSHORE
					CONTROL LINE	
					8' ET. BACK WALL	
						8' ET. TOP OF B.K.
						10' ET. B.W.
						30' ET. TOP OF B.K.
					DIVERSION LINE 70' ET.	
T.P.	26	71				
324+00			43	2.9	15° 43'	84'
"			77	-0.6	21° 18'	117'
"			72	-0.1	25° 08'	141'
"			92	-1.1	31° 49'	186'
"			96	-2.5	36° 30'	222'
"			108	-3.7	40° 11'	254'
"			126	-5.5	44° 20'	293'
			143	-7.2	48° 45'	342'

Profile Notes Red C.W.H. Plotted C.W.H. Job No. Division No. 11
Date 8-12-60 Date 10-17-60 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked J.S.H. Survey by Notes Date
No. Date 8-22-60 Date 10-18-60 Map No. Indexed H. Date
F. B. 2804 PG. 153

F. B. 2804 Pg. 190 Job No. 0300.02 Division No. 11 Notes Red C.W.H. Plotted C.W.H. Profile

Survey of Beach Erosion Studies Date 8-12-60 Date 10-17-60 No.

Survey by Lind Notes Goodwin & Sappell Notes Chkd J.S.H. Checked J.S.H. X-Sec.

Indexed H. E. OTT Date Date 8-22-60 Date 10-18-60 No.

STATION	B. S.	H. I.	F. S.	ELEV.		
324+00		71	161 174	(-9.0) (-10.3)	INT @ 327+00 52° 36' 392' 56° 31' 451'	SIGHT OF 324+00

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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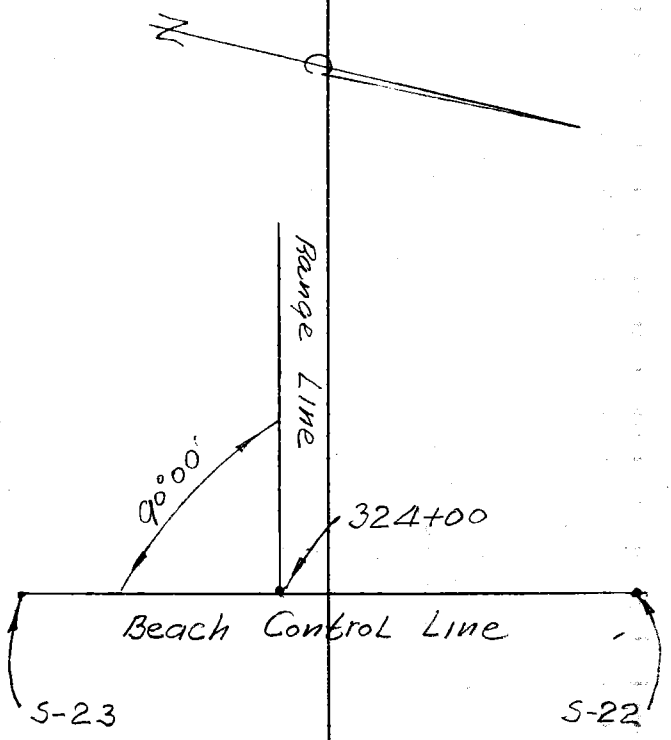
STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
		1		720	90° 00'		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
		8			"		
324+00	S-23	9			"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



Profile Notes Red C.W.H. Plotted C.W.H. Job No. 0300.02 Division No. 11 F.B. 2804 Pg. 191
Date 8-12-60 Date 10-17-60 Survey of Beach Erosion Studies
X-Sec. No. Notes Chkd. J.S.H. Checked J.S.H. Survey by Wharvet Notes Reviewed Date 7-18-60
Date 8-22-60 Date 10-18-60 Map No. Indexed W. E. Ott Date

F.B. 2804 Pg. 192

030002

Job No. _____ Division No. 11 Notes Red C.W.H. Plotted C.W.H. Profile

Survey of Beach Erosion Studies Date 8-12-60 Date 10-17-60 No. _____

Survey by Dharriet Notes Teeboom Notes Chkd. J.S.H. Checked J.S.H. X-Sec.

Indexed H. E. OTT Date _____ Date 8-22-60 Date 10-18-60 No. _____

76L-298 CE 307 11-58

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STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At 324+00					
Sight On S-23					
#	Depth Rec. Adj.	Time	Hor. Ang.		
21			90°00'		
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					

76L-298 CE 307 11-58

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STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor.Ang.	Remarks	
		41			90° 00'		
		42			"		
		43			"		
		44			"		
		45			"		
		46		7 26	"		
324+00	5-23						

Profile Notes Red CWH Plotted CWH Job No. 030002 Division No. 11 F.B. 2804 Pg. 13
No. X-Sec. Date 8-12-60 Date 10-17-60 Survey of Beach Erosion Studies
No. Notes Chkd. JSH Checked JSH Survey by Notes Date 7-18-60
Date 8-23-60 Date 10-18-60 Map No. Indexed H. E. Date

F. B. 2804 Pg. 194 | 0300.02

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

Survey of Beach Erosion Studies Date _____ Date _____ No. _____

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

Indexed H. E. OTT Date _____ Date _____ Date _____ No. _____

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
324+00					Inst. At
S-23					Sight On
					# Rec.
					Depth Adj.
					Time
					Hor. Ang.

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76L-296 CE 307 11-58

76L-298 CE 307 11-56

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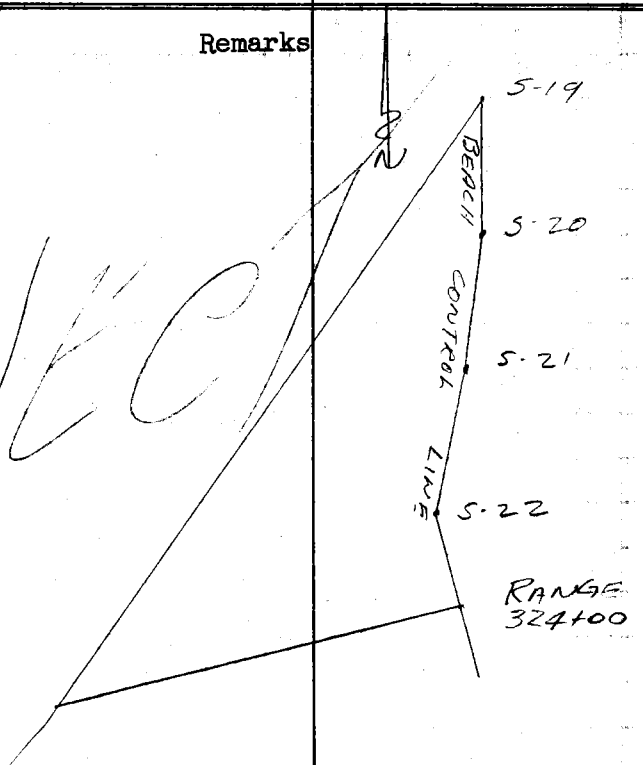
STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
S-19	S-20	1	70.5	6-39	53°-05'		
		2	67.4		51°-44'		
		3	66.2		50°-51'		
		4	65.8		49°-45'		
		5	66.0		48°-59'		
		6	63.8		47°-21'		
		7	62.0		46°-16'		
		8	60.4		45°-00'		
		9	60.4		43°-49'		
		10	61.9		42°-52'		
		11	60.9		41°-49'		
		12	57.5		40°-39'		
		13	51.8		39°-11'		
		14	48.9		37°-54'		
		15	45.2		36°-38'		
		16	91.3		35°-37'		
		17	36.8		34°-30'		
		18	33.3		33°-01'		
		19	30.4		32°-33'		
		20	28.9		30°-44'		



REV'D

Profile Notes Red ____ Plotted ____ Job No. 0320.02 Division No. 11 F.B. 2804 PG. 195
No. X-Sec. Data ____ Date ____ Survey of BEACH EROSION STUDIES
No. ____ Notes Chkd ____ Checked ____ Survey by ____ Notes ____ Date ____
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L-296 CE 307 11-58

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F.B. 2804 Pg. 196 Job No. 0300.02 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of BEACH EROSION STUDIES Date ____ Date ____ No. ____ X-Sec. ____
Survey by HARRIET Notes SMITH N Notes Chkd. ____ Checked ____ No. ____
Indexed H. E. OTT Date ____ Date ____ Date ____

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.		Remarks
		21	27.1		29°-36'		
		22	25.6		28°-45'		
		23	24.1		27°-53'		
		24	22.5		26°-54'		
		25	20.9		25°-56'		
		26	19.9		24°-53'		
		27	19.1		23°-54'		
5-19	5-20	28	15.8		23°-03'		
		29	15.0		22°-05'		
		30	13.3		21°-13'		
		31	11.8		20°-06'		
		32	11.1		19°-07'		
		33	9.4		18°-09'		
		34	7.9		17°-12'		
		35			16°-16'	}	2 shots short
		36		6.44	15°-22'		
		37					
		38					
		39					
		40					

Not

76L-298 CE 307 11-58

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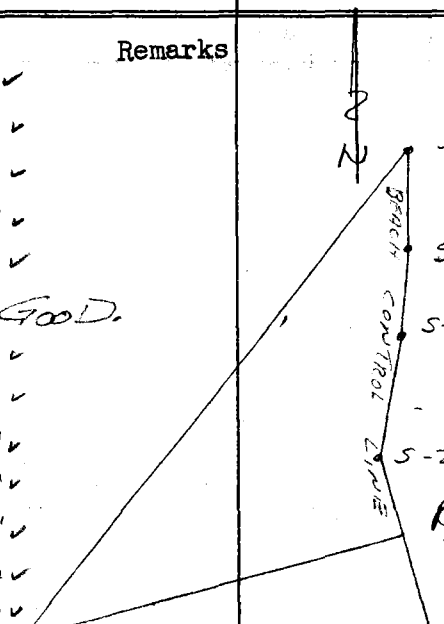
Do not extend notes this side of this line.

Profile No. ____ Notes Red CWH Plotted CWH Job No. 0300.02 Division No. 11
Date 8-12-60 Date 10-17-60 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. J.S.H. Checked J.C.H. Survey by HARRIS Notes SMITH Date 7-18-60
No. ____ Data 8-22-60 Data 10-18-60 Map No. ____ Tracing ____ Data ____

F.B. 2804 PG. 151

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
5-19	5-20	1	81.7	79.0	7-20	57°-14'	2,521'
		2	73.2	70.5		56°-15'	2,428'
		3	69.5	66.8		55°-34'	2,365'
		4	67.6	64.9		55°-06'	2,324'
		5	66.7	64.0		54°-37'	2,286'
		6	69.3	66.6		53°-48'	— NO GOOD.
		7	70.8	68.1		52°-37'	2,121'
		8	70.3	67.6		51°-03'	2,002'
		9	67.8	65.4		49°-54'	1,920'
		10	65.7	63.3		48°-42'	1,838'
		11	66.8	64.4		47°-50'	1,780'
		12	67.0	64.6		47°-06'	1,734'
		13	68.3	65.5		45°-47'	1,654'
		14	65.0	62.2		44°-49'	1,597'
		15	62.4	59.6		44°-03'	1,550'
		16	62.0	59.2		43°-39'	1,528'
		17	61.5	58.7		42°-12'	1,449'
		18	62.0	59.2		41°-15'	1,397'
		19	63.0	60.2		40°-17'	1,348'
		20	61.1	58.3		39°-00'	1,284'



Tape = +1-1 to 8, +4-9 to 12, 0 13 to 20
Boat = +1.0
Tide = -3.8
-2.7 = 1 to 8
-2.4 = 9 to 12
-2.8 = 13 to 20

76L-298 CE 307 11-58

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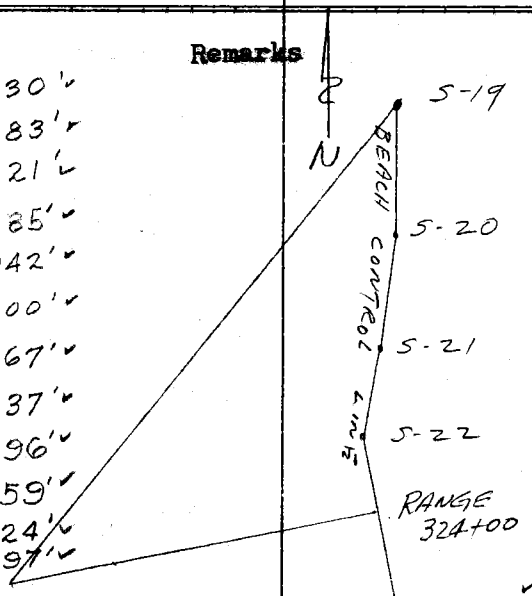
F.B. 2804 Pg. 198 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted CWH Date 10-17-60 No. Profile
Survey of BEACH EROSION STUDIES Date 8-12-60 Date 10-18-60 No. X-Sec.
Survey by UNDERIET Notes SMITH, N Notes Chkd. J.S.H. Checked J.S.H.
Indexed H. E. Ott Date Date 8-22-60

STATION		B.S.	H.I.		F.S.	ELEV		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
S-19	S-20	21	58.0	55.7		37°-59'	1,230'	
		22	53.0	50.7		36°-57'	1,183'	
		23	47.9	45.6		35°-37'	1,121'	
		24	45.8	43.5		34°-51'	1,085'	
		25	43.3	41.0		33°-54'	1,042'	
		26	40.2	37.9		32°-53'	1,000'	
		27	37.4	35.1		32°-03'	967'	
		28	35.2	32.9		31°-22'	937'	
		29	32.7	30.4		30°-25'	896'	
		30	29.9	27.6		29°-27'	859'	
		31	27.9	25.6		28°-33'	824'	
		32	26.7	24.4		27°-50'	797'	
		33	24.9	22.6		26°-57'	760'	
		34	22.9	20.6		25°-33'	707'	
		35	21.8	19.0		24°-25'	662'	
		36	20.1	17.3		23°-12'	620'	
		37	19.5	16.7		22°-22'	590'	
		38	18.5	15.7		21°-21'	555'	
		39	17.2	14.4		20°-18'	517'	
		40	15.8	13.0		19°-15'	479'	



Tape = +.5 = 21 to 34
0 = 35 to 40
Boat = +1.0
Tide = -3.8
-2.3 = 21 to 34
-2.8 = 35 to 40

761-298 CE 307 11-58

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Profile No. X-Sec. No. Notes Red. CWH Plotted CWH Job No. 0300.02 Division No. 11 F.B. 2804 Pg. 199
Data 8-12-60 Data 10-17-60 Survey of BEACH EROSION STUDIES
Notes Chkd. JSH Checked JSH Survey by [illegible] Notes SMITH Date 7-18-60
No. Date 8-22-60 Date 10-18-60 Map No. Delineated M.E. OFT Date

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks	
		41	14.4	11.6		18°-22'	448'	
		42	12.7	9.9		17°-31'	419'	Tape = 0
		43	11.6	8.8		16°-27'	381'	Boat = +1.0
		44	10.2	7.4		15°-27'	350'	Tide = -3.8
		45	9.1	6.3		14°-30'	317'	-2.8
S		46	7.9	5.1	7-26	13°-30'	284'	
		47						
19	S-20							

EANSE 324+00

F.B. 2804 Pg. 200 Job No. 0300.02 Division No. 11 Notes Red _____ Plotted _____ Profile

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

Survey by HARRIET Notes SMITH N. Notes Chkd. _____ Checked _____ X-Sec.

Indexed H. E. OTT Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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76L-266 CE 307 11-58

76L-298 S & E #307—1-56

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5-22 82°, 5'

STATION	B. S.	H. I.	F. S.	ELEV.		
					5-21 317+97.39	323+00
[illegible]	4			20 61	DATUM MEAN LOWER LOW WATER	323+00 INSHORE
325+00			50	20 5	CONTROL LINE	
			50	20 5	8 [illegible]	
			52	20 3		[illegible]
T.P.			10 38	15 11	T.P.	
B.M. 5-11			3 88	21 61	B.M. 5-11 ELEV = 21.565	
T.P.				15 11	T.P.	
	00	151	104	47		70 R. Mean tide line
T.P.			96	5.5	T.P.	
	13	68				
323+00			55	1.3	13° 16'	95'
"			64	0 4	14° 37'	137'
"			78	-1.0	18° 52'	182'
"			93	-2.5	21° 37'	213'
"			100	-3.2	23° 35'	236'
"			120	-5.2	27° 59'	291'

Profile No. X-Sec. No.

Notes Red. CWH Plotted CWH Job No. [illegible] Division No. 11

Date 8-12-60 Date 10-17-60 Survey of BERTH [illegible] STATIONS 7-18-[illegible]

Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes [illegible] Date

Date 8-22-60 Date 10-18-60 Map No. Indexed Date

F. B. [illegible] Pg. 201

76L-298 S & E #307—1-56

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Do not extend notes this side of this line.

F. B. 2804 Pg. 202 Job No. 0300.02 Division No. 11 Notes Red. CWH Plotted CWH Profile
Survey of BEACH BLVD SIGN ST. PLAN Date 8-12-60 Date 10-17-60 No. X-Sec.
Survey by LIND Notes T.C. Goodwin Notes Chkd. JSH Checked JSH No.
Indexed ~~A. L. Ott~~ Date & Jaqueth Date 8-22-60 Date 10-18-60 No.

STATION	B. S.	H. I.	F. S.	ELEV.			
		~~25.49~~ 68			Inst @ 317+97.39 S-21		Sight on 323+00
323+00			138	-7.0	31° 21'	338'	
"			158	-9.0	34° 41'	388'	
"			170	-10.2	37° 00'	426'	

76L-298 CE 307 11-56

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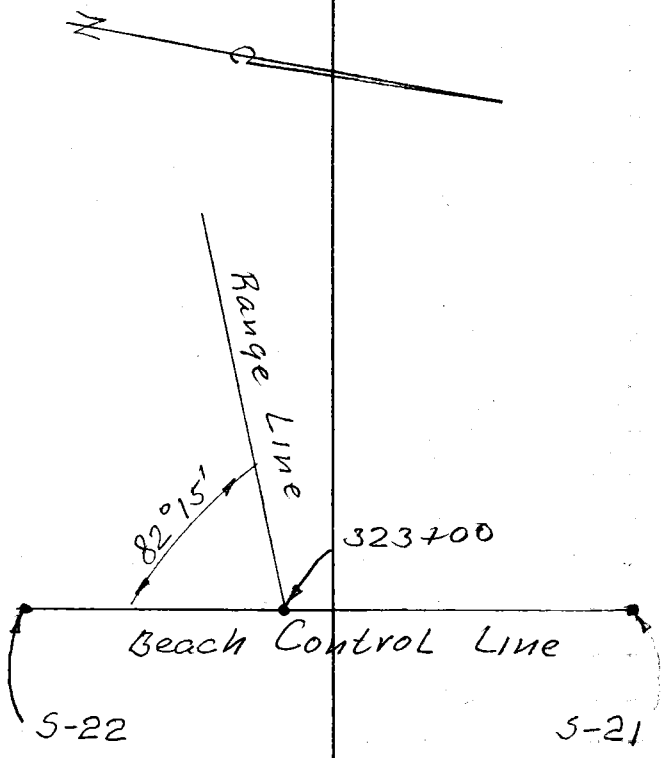
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor.Ang.	Remarks
323+00	S-22	1		744	82°15'	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
		8			"	
		9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	
		19			"	
		20			"	



Profile No. ____ X-Sec. ____ Notes Red. CWH Plotted CWH Job No. 030002 Division No. 11 F.B. 2804 Pg. 293
Date 8-12-60 Date 10-17-60 Survey of Beach Erosion Studies
Notes Chkd. JSH Checked JSH Survey by Wharmet Notes Technician Date 7-18-60
No. ____ Date 8-22-60 Date 10-18-60 Map No. ____ Initial H. E. Off Date ____

76L-298 CE 307 11-58

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Do not extend notes this side of this line.

F.B. 2804 Pg. 204 Job No. 030002 Division No. 11 Notes Red CWH Plotted CWH Date 10-17-60 Profile No.
Survey of Beach Erosion Studies Date 8-12-60 Notes Chkd. JSH Checked JSH Date 10-18-60 X-Sec. No.
Survey by Wharrie Notes Tee Room Date
Indexed H. E. On Date

STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
		21			82° 15'		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
323+00	5-22	29			"		
		30			"		
		31			"		
		32			"		
		33			"		
		34			"		
		35			"		
		36			"		
		37			"		
		38			"		
		39			"		
		40			"		

76L-298 CE 307 11-58

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Profile No. ____ X-Sec. ____ Notes Red CWH Data 8-12-60 Plotted CWH Date 10-17-60 Job No. ____ Survey of Beach Erosion Studies Division No. 11 Notes Chkd. JSH Checked JSH Survey by Pharriet Notes Tedford Date 7-18-60 Date 8-22-60 Date 10-18-60 Map No. ____ Tracing N.E. Off Date ____ F.B. 2804 Pg. 203

0300.02

STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
		41			82°15'		
		42			"		
		43			"		
		44			"		
		45			"		
		46			"		
		47			"		
		48			"		
323+00	5-22	49			"		
		50			"		
		51			"		
		52			"		
		53			"		
		54			"		
		55			"		
		56			"		
		57		754	"		

F.B. 2804 Pg. 206 | 0300.02

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

Survey of Beach Erosion Studies Date _____ Date _____ No. _____

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

Indexed M. E. OR Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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76L-298 CE 307 11-58

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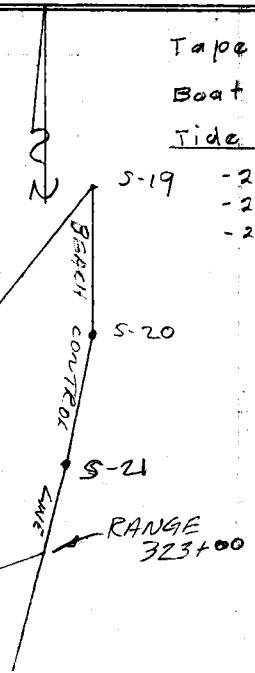
Profile No. ___ X-Sec. ___ Notes Red. CWH Plotted CWH Job No. 0300.02 Division No. 11 F.B. 2804 Pg. 207
Date 8-12-60 Date 10-12-60 Survey of BEACH EROSION STUDIES
Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible] Date [illegible]
No. ___ Date 8-22-60 Date 10-18-60 Map No. ___ Index [illegible] E. OH Date ___

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
S-19	S-20	1			7:44	64°-17'	
		2	156.0	153.4		63°-46'	2,963'
		3	134.5	131.9		63°-16'	2,905'
		4	110.2	107.6		62°-17'	2,789'
		5	107.6	105.0		61°-43'	2,725'
		6	103.7	101.1		61°-16'	2,680'
		7	100.4	98.1		60°-52'	2,639'
		8	97.3	95.0		60°-20'	2,586'
		9	96.5	94.2		60°-01'	2,556'
		10	94.9	92.6		59°-50'	2,536'
		11	94.4	92.1		59°-07'	2,467'
		12	93.2	90.6		58°-37'	2,423'
		13	91.3	88.7		57°-52'	2,354'
		14	89.2	86.6		57°-01'	2,283'
		15	97.8	95.2		56°-04'	2,202'
		16	116.0	113.4		55°-27'	2,150'
		17	118.9	115.4		54°-22'	2,069'
		18	112.5	109.9		53°-23'	1,998'
		19	118.4	115.8		52°-17'	1,924'
		20				51°-00'	1,833'

Tape = +1.1 to 5, +1.4 to 11, +1.1 12+020
Boat = +1.0
Tide = -3.7
-2.6 = 1+05
-2.3 = 5 to 11
-2.6 = 12+020



76L-298 CE 307 11-58

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Do not extend notes this side of this line.

F.B. 2804 Pg. 208 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 8-12-60 Date 10-17-60 No. X-Sec.
Survey by WHARRIET Notes SMITH N Notes Chkd. J.S.H. Checked J.S.H.
Indexed H. E. OH Date Date 8-22-60 Date 10-18-60 No.

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV Hor. Ang.		Remarks
S-19	S-20	21	111.5	109.3		49°-58'	1768'	Tape = +.5 = 21 to 27; +.1 = 28 to 37; +.3 = 38 to 40; Boat = +1.0; Tide = -3.7; -2.2 = 21 to 27; -2.6 = 28 to 37; -2.4 = 38 to 40
		22	105.5	103.3		48°-27'	1672'	
		23	92.6	90.4		47°-25'	1613'	
		24	83.9	81.7		46°-38'	1568'	
		25	79.8	77.6		45°-55'	1531'	
		26	79.2	77.0		45°-15'	1494'	
		27	80.4	78.2		44°-26'	1448'	
		28	82.0	79.4		43°-43'	1414'	
		29	80.1	77.5		42°-19'	1344'	
		30	74.8	72.2		40°-38'	1262'	
		31	70.1	67.5		39°-42'	1220'	
		32	63.9	61.3		38°-38'	1170'	
		33	—			38°-01'	1144'	
		34	58.6	56.0		37°-03'	1101'	
		35	61.2	58.6		36°-03'	1058'	
		36	62.9	60.3		34°-52'	1010'	
		37	59.0	56.4		33°-51'	969'	
		38	56.0	53.4		33°-05'	938'	
		39	42.2	39.8		32°-08'	901'	
		40	37.3	34.9		31°-15'	867'	

76L-298 CE 307 11-58

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Do not extend notes this side of this line.

Profile No. ____ Notes Red CWH Plotted CWH Job No. 300.02 Division No. 11 F.B. 2804
X-Sec. No. ____ Data 8-12-60 Date 10-17-60 Survey of BEACH EROSION STUDIES Pg. 209
Notes Chkd. JSH Checked JSH Survey by CWH Notes Sum. Date 7-18-60
Date 8-22-60 Date 10-18-60 Map No. ____ Indexed ____ Date ____

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
		41	33.8	31.6		30°26'	835'
		42	30.5	28.3		29°33'	805'
		43	28.3	26.1		28°45'	774'
		44	26.8	24.6		27°56'	742'
		45	25.5	23.3		27°19'	721'
		46	23.6	21.4		26°17'	686'
		47	21.5	18.9		24°40'	629'
		48	20.0	17.4		23°32'	590'
		49	18.9	16.3		22°28'	554'
		50	17.4	14.8		21°28'	521'
		51	15.7	13.1		20°06'	476'
		52	14.2	11.6		19°01'	441'
		53	13.2	10.6		18°04'	410'
		54	12.2	9.6		17°16'	384'
		55	10.9	8.3		16°15'	351'
		56	10.0	7.4		15°27'	327'
		57	8.8	6.2	7-54	14°46'	307'

Tape = +.5 = 41 to 46
+.1 = 47 to 57
Boat = +1.0
Tide = -3.7
-2.2 = 41 + .46
-2.6 = 47 + .57

RANGE 32.34.00

5-19
5
20

F.B. 2804 Pg. 210 | Job No. 030002 | Division No. 11 | Notes Red | Plotted | Profile

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

Survey by HARRIET Notes SMITH N | Notes Chkd. | Checked | X-Sec.

Indexed M. E. OTT | Date | Date | Date | No.

76L-298 CE 307 11-58

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

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.

5-22 80°20'

STATION	B.S.	H.I.	F.S.	ELEV.	INST. @ 317+97.39 (5-21)	SIGHT ON 322+00
		25.49			DATUM MEAN LOWER LOW WATER	322+00 INSHORE
T.P.	4.33	24.64	5.21	20.28		
322+00			4.5	20.1	CONTROL LINE	
			4.5	20.1	3' LT. BACK WALL	
			3.9	20.7		12' RT. TOP BRK
T.P. FOR [illegible]			11.45	13.19		
	01	13.3				
			86	47		74.5 RT. Mean tide line
T.P.			66	6.7	T.P.	
	00	67				
322+00			34	3.3	11° 20'	86'
"			74	-0.7	14° 29'	111'
"			68	-0.1	18° 38'	147'
"			77	-1.0	22° 17'	181'
"			94	-2.7	26° 30'	224'
"			115	-4.8	30° 50'	274'
			141	-7.4	35° 36'	336'
"			162	-9.5	39° 04'	389'

Profile No. _____ Notes Red CWH Plotted CWH Job No. 0300.02 Division No. 11 F.B. 2304 Pg. 211
X-Sec. No. _____ Date 8-12-60 Date 10-12-60 Survey of BEACH EROSION STUDIES
Notes Chkd. J.S.H. Checked J.S.H. Survey by [illegible] Notes [illegible] Date 7-15-60
Date 8-23-60 Date 10-18-60 Map No. _____ Indexed _____ Date _____

F.B. 2804 Pg. 212 | 0300.02

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

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

Survey by LIND Notes J.C. GOODWIN & SAPPELL Notes Chkd. _____ Checked _____ X-Sec.

Indexed M. E. OTT Date _____ Date _____ Date _____ No. _____

STATION	B.S.	H.I.	F.S.	ELEV.
		24 64		

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76L-298 CE 307 11-58

76L-298 CE 307 11-58

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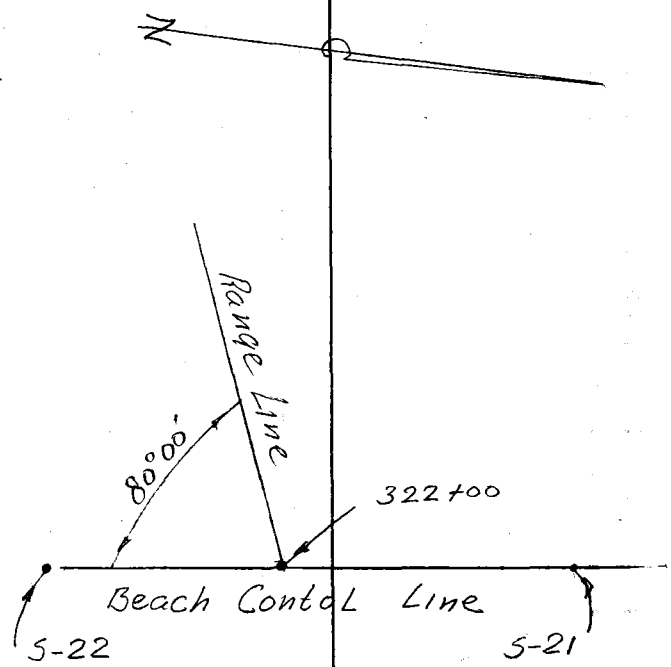
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED IN INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks	
		1		8 31	80° 00		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
		8			"		
322+00	5-22	9			"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



Profile Notes Red CWH Plotted CWH Job No. Division No. 11
No. Date 8-12-60 Date 10-17-60 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. JSH Checked JSH Survey by Harriet Notes See book Date 7-18-60
No. Date 8-22-60 Date 10-18-60 Map No. Indexed M. E. OTT Date

0300.02

F.B. 2804 Pg. 93

F.B. 2804 Pg. 214 Job No. 030202 Division No. 11 Notes Red CWH Plotted CWH Date 10-17-60 No. Profile

Survey of Beach Erosion Studies Date 8-12-60 Notes Chkd. J.S.H. Checked J.S.H. Date 10-18-60 No. X-Sec.

Survey by Harvey et al Notes Teeboom Date 8-22-60

Indexed H. E. Ott Date

76L-298 CE 307 11-58

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STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
		21			85° 00'		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
322+00	5-22	29			"		
		30			"		
		31			"		
		32			"		
		33			"		
		34			"		
		35			"		
		36			"		
		37			"		
		38			"		
		39			"		
		40			"		

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 Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks	
		41			80° 00'		
		42			"		
		43			"		
		44			"		
		45			"		
		46			"		
		47			"		
322+00	5-22	48			"		
		49			"		
		50			"		
		51			"		
		52			"		
		53			"		
		54			"		
		55			"		
		56			"		
		57			"		
		58			"		
		59			"		
		60					

Profile Notes Red CMH Plotted CMH Job No. 0300.02 Division No. 4 F.B. 2804 PG. 25
No. X-Sec. Date 8-12-60 Date 10-17-60 Survey of Beach Erosion Studies
Notes Chkd. JSH Checked JSH Survey by Klewich Notes Date 7-12-60
Date 8-22-60 Date 10-18-60 Map No. Indexed Date

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.

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F.B. 2804 Pg. 216 Job No. 030002 Division No. 11 Notes Red. CWH Plotted CWH Profile
Survey of Beach Erosion Studies Date 8-12-60 Date 10-17-60 No. X-Sec.
Survey by Marnex Notes Teedown Notes Chkd. J.S.H. Checked J.S.H.
Indexed H. E. OTT Date Date 8-22-60 Date 10-18-60 No.

STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
		61			80° 00'		
		62			"		
		63			"		
		64			"		
		65			"		
		66			"		
		67		839	"		
322+00	5-22						

76L-298 CE 307 11-58

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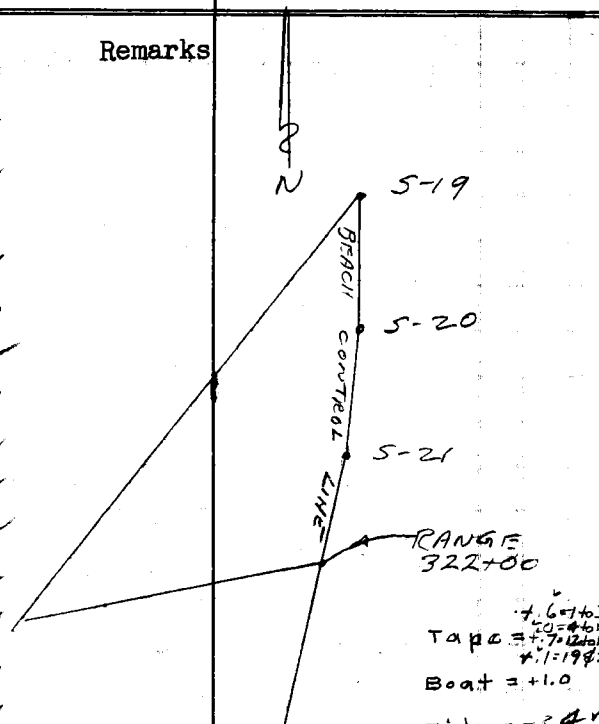
Profile No. ___ X-Sec. ___ Notes Red CWH Plotted CWH Job No. 0300.02 Division No. 11 Date 8-12-60 Date 10-17-60 Survey of BEACH EROSION STUDIES
Notes Chkd. JSH Checked JSH Survey by HARDT Notes SMITH Date 7-18-60
No. ___ Date 8-22-60 Date 12-12-60 Map No. ___ Tracked ___ Date ___
F.B. 2504 Pg. 217

STATION Inst. At	Sight On	#	B.S.	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
5-19	5-20	1		119.0	117.2	8-31	62°35'	2859'
		2		109.4	107.6		62°03'	2791'
		3		106.3	104.5		61°42'	2748'
		4		101.3	98.9		60°58'	2668'
		5		97.8	95.4		60°25'	2610'
		6		95.8	93.4		60°00'	2566'
		7		94.5	92.1		59°23'	2508'
		8		93.8	91.4		58°50'	2449'
		9		92.4	90.0		58°05'	2378'
		10		90.8	88.4		57°25'	2315'
		11		96.7	94.3		56°10'	2201'
		12		120.0	118.2		55°24'	2139'
		13		121.2	119.5		54°37'	2079'
		14		112.4	110.7		53°35'	1999'
		15		120.0	118.3		53°07'	1965'
		16		122.8	121.1		52°31'	1924'
		17		123.5	121.8		51°55'	1882'
		18		117.9	116.2		51°20'	1840'
		19		116.0	113.7		50°56'	1812'
		20		118.4	116.1		50°10'	1763'



Tape = +.6 = 1+03
+.0 = 4+11
+.7 = 12+18
+.1 = 19+20

Boat = +1.0

Tide = -3.4

-1.8 = 1 + 3
-2.4 = 4 + 11
-1.7 = 12 + 18
-2.3 = 19 + 20

76L-298 CE 307 11-58

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Do not extend notes this side of this line.

F.B. 2804 PG. 218 Job No. 0300 02 Division No. 11 Notes Red CWH Plotted CWH Date 10-17-60 No. Profile
Survey of BEACH EROSION STUDIES Date 8-12-60 Notes Chkd. J.S.H. Checked J.S.H. Date 10-18-60 No. X-Sec.
Survey by WHACKET Notes SMITH N Date 8-22-60
Indexed Date

STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. At / Sight On	# Rec.	Depth Adj.	Time	Hor. Ang.		Remarks
5-19 / 5-20	21	118.2	115.9	49°-41'	1731'	+.1 21 to 30
	22	111.0	108.7	49°-01'	1689'	Tape = +.7 31 to 40
	23	105.4	103.1	48°-36'	1661'	Boat = +1.0
	24	100.5	98.2	48°-16'	1643'	Tide = -3.4
	25	96.6	94.3	47°-59'	1626'	-2.3 = 21 to 30
	26	93.2	90.9	47°-37'	1605'	-1.7 = 31 to 40
	27	90.1	87.8	47°-12'	1580'	
	28	87.0	84.7	46°-57'	1567'	
	29	84.5	82.2	46°-28'	1539'	
	30	84.4	82.1	46°-00'	1513'	
	31	85.5	83.8	45°-27'	1483'	
	32	87.4	85.7	44°-33'	1437'	
	33	86.5	84.8	43°-39'	1388'	
	34	84.2	82.5	42°-45'	1343'	
	35	79.8	78.1	41°-41'	1289'	
	36	75.5	73.8	40°-52'	1251'	
	37	68.0	66.3	39°-52'	1204'	
	38	65.5	63.8	39°-11'	1173'	
	39	65.1	63.4	38°-24'	1137'	
	40	66.9	65.2	37°-33'	1100'	

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Profile No. 0300.02 Division No. 11 F.B. 2804 Pg. 79
X-Sec. No.
Notes Red CWH Plotted CWH Job No.
Data 8-12-60 Date 10-17-60 Survey of BEACH EROSION STUDIES
Notes Chkd. Checked Survey by Notes Date
Date 8-22-60 Date 10-18-60 Map No. Interest Date

STATION Inst. At	Sight On	B.S. #	H.I. Rec.	H.I. Adj.	F.S. Time	ELEV. Hor. Ang.		Remarks
5-19	5-20	41	71.2	68.9		36°-41'	1062'	Tape = +.1 41 to 52; +.7 53 to 60
		42	71.9	69.6		35°-49'	1023'	Boat = +1.0
		43	67.9	65.6		34°-46'	984'	Tide = -3.4
		44	63.1	60.8		33°-50'	946'	-2.3 = 41 to 52
		45	59.7	57.4		32°-20'	927'	-1.7 = 53 to 60
		46	58.1	55.8		32°-47'	905'	RANGE
		47	41.0	38.7		31°-37'	862'	
		48	36.2	33.9		30°-46'	830'	322+00
		49	32.9	30.6		30°-05'	804'	
		50	29.8	27.5		29°-17'	776'	
		51	28.2	25.9		28°-36'	752'	
		52	26.1	23.8		27°-43'	719'	
		53	24.7	23.0		26°-57'	693'	
		54	23.2	21.5		26°-05'	663'	
		55	21.8	20.1		25°-25'	640'	
		56	20.2	18.9		24°-35'	611'	
		57	18.7	17.0		23°-24'	574'	
		58	17.7	16.0		22°-29'	542'	
		59	16.5	14.8		21°-33'	512	
		60	15.3	13.6		20°-39'	484	

F.B. 2804 Pg. 220

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

Survey of BEACH EROSION STUDIES Date 8-12-60 Date 10-17-60 No. X-Sec.

Survey by UHARIET Notes SMITH Notes Chkd. J.S.H. Checked J.S.H.

Indexed H.C. OH Date Date 8-22-60 Date 10-18-60 No.

76L-298 CE 307 11-58

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STATION Inst. At	STATION Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. * Hor. Ang.		Remarks
S-19	S-20	61	14.5	12.7		19°41'	452'	
		62	13.1	11.3		18°45'	424'	
		63	11.9	10.1		17°59'	400'	
		64	10.8	8.4		16°59'	370'	
		65	10.0	7.6		16°18'	348'	
		66	9.4	7.0		15°26'	323'	
		67	8.5	6.1	8-39	14°40'	300'	

Tape = +.6 61 to 63
0 = 64 to 67

Boat = +1.0

Tide = -3.4

-1.8 = 61 to 63
-2.4 = 64 to 67

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5-22 78:10'

STATION	B.S.	H.I.	F.S.	ELEV.	INST. @ 5-21 317+97.39	SIGHT ON 320+50
		24.64			DATUM MEAN LOWER LOW WATER	320+50
T.P.	4.25	24.03	4.86	19.78		INSHORE
320+50			4.5	19.5	CONTROL LINE	
			4.5	19.5	4' LT. BACK WALK	
			4.9	19.1		12' RT. TOP BANK.
7.7 ice on water			12.7	13.2	T.P.	
	01	13.4				
			87	47		84± Rt. Mean tide line
T.P.			80	54	T.P.	
	27	8.1				
320+50			90	-0.9	22° 57' 121'	
"			84	-0.3	29° 29' 167'	
"			95	-1.4	34° 46' 210'	
"			11.4	-3.3	38° 47' 251'	
"			138	-5.7	43° 36' 309'	
"			157	-7.6	46° 32' 352'	
"			180	-9.9	49° 27' 403'	

Profile No. ____ Notes Red. CWH Plotted CWH Job No. 0320.02 Division No. 11
X-Sec. ____ Date 8-12-60 Date 10-17-60 Survey of BEACH EROSION STUDIES
Notes Chkd. JCH Checked J.C.H. Survey by CWD Notes Comp. Date 7-18-60
Date 8-22-60 Date 10-18-60 Map No. ____ Indexed ____ Date ____

F.B. 2804 Pg. 221

F.B. 2804 Pg. 222 | 0300.02

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

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

Survey by LND Notes J.C. GOODWIN Notes Chkd. _____ Checked _____ X-Sec.

Indexed H. E. OTT Date & Jappell Date _____ Date _____ No. _____

STATION	B.S.	H.I.	F.S.	ELEV.
		24.03		

76L-298 CE 367 11-58

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76L-298 CE 307 11-58

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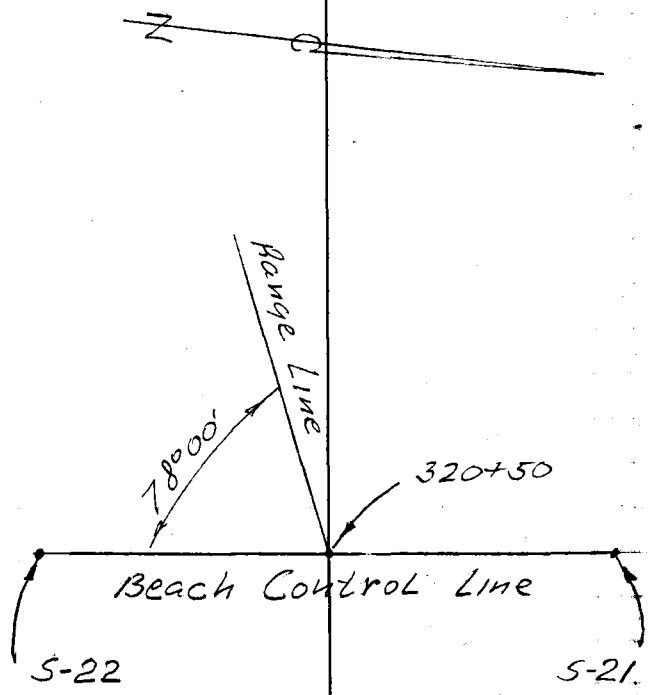
STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
		1		854	78° 00'		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
		8		856	"		
320+50	S-22	9		907	"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



Profile Notes Red CWH Plotted CWH Job No. 0300.02 Division No. 11 F.B. 2804 Pg. 223
No. Date 8-12-60 Date 10-17-60 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. JSH Checked JSH Survey by Wilkowski Notes Checked Date 7-18-60
No. Date 8-22-60 Date 10-18-60 Map No. Indexed H.I. OTT Date

F.B. 2804 Pg. 224 Job No. 030002 Division No. 11 Notes Red CWH Plotted CWH Profile
Survey of Beach Erosion Studies Date 8-12-60 Date 10-17-60 No. X-Sec.
Survey by Unknown Notes Teeboom Notes Chkd. J.S.H. Checked J.S.H.
Indexed H.E. Ott Date Date 8-22-60 Date 10-18-60 No.

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

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STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor.Ang.	Remarks	
		21			78° 00'		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
320+50	5-22	28			"		
		29			"		
		30			"		
		31			"		
		32			"		
		33			"		
		34			"		
		35			"		
		36			"		
		37		9 11	"		
		38		9 36	"		
		39			"		
		40			"		

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	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
		41			78°00'		
		42			"		
		43			"		
		44			"		
		45			"		
		46			"		
		47			"		
		48			"		
320+30	S-22	49			"		
		50			"		
		51			"		
		52			"		
		53			"		
		54			"		
		55			"		
		56			"		
		57			"		
		58			"		
		59			"		
		60			"		

Profile No. ____ X-Sec. No. ____ Notes Red. CWH Plotted CWH Job No. 23002 Division No. 11 F. B. 28004 Pg. 225
Date 8-12-60 Date 10-17-60 Survey of Beach Erosion Studies
Notes Chkd. J.S.H. Checked J.S.H. Survey by Whatfield Notes Accepted Date 7-18-60
Date 8-22-60 Date 10-28-60 Map No. ____ Indexed H. E. OTT Date ____

F. B. 2804 Pg. 226 | 030.02

Job No. ____ Division No. 11 Notes Red CWH Plotted CWH Profile

Survey of Beach Erosion Studies Date 8-12-60 Date 10-17-60 No. ____

Survey by Harriet Notes Teeboom Notes Chkd. J.S.H. Checked J.S.H. X-Sec.

Indexed H. E. OTT Date ____ Date 8-22-60 Date 10-18-60 No. ____

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At 320+50					
Sight On S-22					
#	61				
Rec.	62				
Adj.	63				
	64				
Depth					
Time			9 39		
Hor. Ang.			"	78°00'	
			"	"	

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76L-268 CE 307 11-58

76L-298 CE 307 11-58

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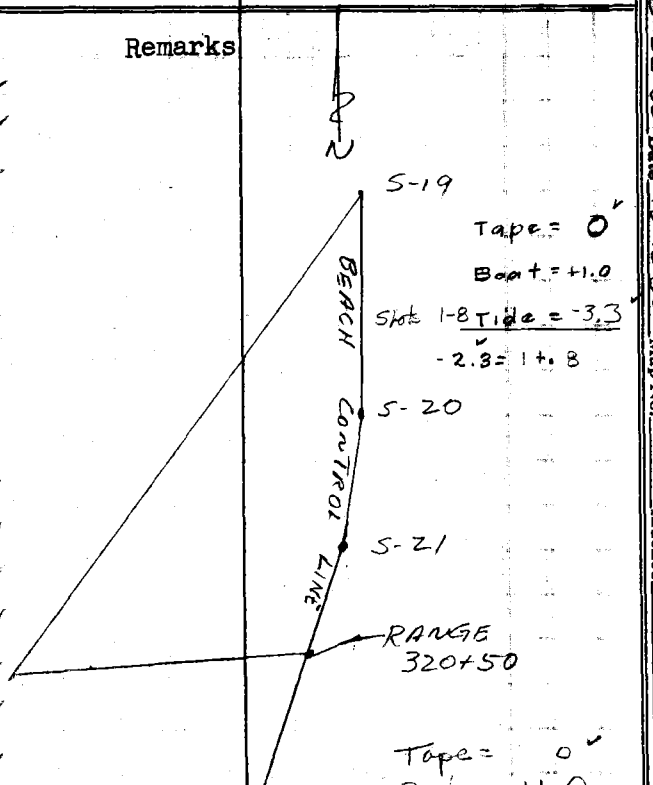
Profile No. ____ X-Sec. ____ Notes Red CWH Plotted CWH Job No. 0300.02 Division No. 11
Data 8-12-60 Date 10-17-60 Survey of BEACH EROSION STUDIES
Notes Chkd. JSH Checked JSH Survey by ____ Notes ____ Date ____
Date 8-22-60 Date 10-18-60 Map No. ____ Indexed W. E. OTT Date ____
F.B. 2804 Pg. 227

STATION Inst. At	Sight On	#	H.I. Depth Rec.	H.I. Depth Adj.	B.S.	F.S. Time	ELEV. Hor. Ang.	Remarks
S-19	S-20	1	115.3	113.0		8-54	62°-28'	2780'
		2	116.5	114.2			61°-55'	2708'
		3	107.0	104.7			61°-31'	2665'
		4	106.1	103.8			61°-06'	2612'
		5	111.6	109.3			60°-42'	2571'
		6	113.2	100.9			60°-20'	2530'
		7	108.5	106.2			60°-05'	2502'
		8	—	—		8-56	59°-37'	—
		9	—	—		9-07	56°-22'	—
		10	128.5	126.3			55°-01'	2038'
		11	142.7	140.5			53°-56'	1951'
		12	141.2	139.0			53°-06'	1889'
		13	139.2	137.0			52°-29'	1846'
		14	136.7	134.5			51°-29'	1777'
		15	131.5	129.1			50°-45'	1727'
		16	125.4	123.2			50°-14'	1693'
		17	118.8	116.6			49°-31'	1648'
		18	112.1	109.9			48°-45'	1599'
		19	110.8	108.6			48°-22'	1577'
		20	107.4	105.2			47°-40'	1537'



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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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F.B. 2864 Pg. 228 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 8-12-60 Date 10-17-60 No. X-Sec.
Survey by UHARRIET Notes SMITH Notes Chkd. J.S.H. Checked J.S.H.
Indexed H.E. OTT Date Date 8-22-60 Date 10-18-60 No.

STATION		B.S.	H.I.		F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
5-19	5-20	21	107.0	104.9		47°-09'	1508'	Tape = +.1 21 to 34; -.2 35 to 37
		22	105.3	103.2		46°-36'	1477'	Boat = +1.0
		23	101.3	99.2		45°-44'	1430'	Tide = -3.2
		24	96.9	94.8		45°-06'	1397'	-2.1 = 21 to 34
		25	93.5	91.4		44°-39'	1374'	-2.4 = 35 to 37
		26	89.9	87.8		44°-06'	1346'	
		27	81.7	79.6		43°-42'	1325'	
		28	76.9	74.8		42°-16'	1279'	
		29	74.8	72.7		42°-18'	1258'	
		30	76.3	74.2		41°-48'	1233'	
		31	80.8	78.7		41°-13'	1205'	
		32	85.2	83.1		40°-37'	1179'	
		33	88.1	86.0		39°-55'	1147'	
		34	89.8	87.7		39°-28'	1128'	
		35	89.1	86.7		38°-48'	1097'	Shots 38 to 40
		36	88.4	86.0		38°-08'	1071'	Tape = +.7
		37	87.3	84.9	9-11	37°-28'	1043'	Boat = +1.0
		38	71.5	70.2	9-36	34°-57'	941'	Tide = -3.0
		39	69.9	68.6		34°-03'	907'	-1.3 = 38 to 40
		40	63.7	62.4		33°-05'	870'	

76L-298 CE 307 11-58

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Profile No. ____ X-Sec. No. ____ Notes Red CWH Date 8-12-60 Notes Chkd. J.S.H. Date 8-22-60 Plotted CWH Date 10-17-60 Checked J.S.H. Date 10-18-60 Job No. 0500 02 Survey of BEACH EROSION STUDIES Survey by CHICKEN Map No. ____ Division No. 11 Notes Indexed ____ Date ____ Date ____ F.B. 2804 Pg. 229

STATION Inst. At	Sight On	#	B.S. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.		Remarks
5-19	5-20	41	52.0	50.7		32°-12'	838'	Tape = +.7
		42	42.8	41.5		31°-24'	810'	Boat = +1.0
		43	37.8	36.5		30°-42'	784'	Tide = -3.0
		44	35.4	34.1		30°-15'	769'	-1.3
		45	32.6	31.3		29°-34'	748'	
		46	30.6	29.3		28°-54'	724'	
		47	28.2	26.9		28°-04'	695'	
		48	26.8	25.5		27°-21'	672'	
		49	25.0	23.7		26°-47'	653'	
		50	22.4	21.1		25°-26'	608'	
		51	21.0	19.7		24°-40'	585'	
		52	19.8	18.5		23°-57'	563'	
		53	18.1	16.8		22°-43'	525'	
		54	16.2	14.9		21°-52'	500'	
		55	15.7	14.4		21°-12'	480'	
		56	14.0	12.7		20°-30'	458'	
		57	12.7	11.4		19°-39'	434'	
		58	11.8	10.5		18°-47'	408'	
		59	10.5	9.2		18°-08'	390'	
		60	9.8	8.5		17°-13'	363'	

RANGE 32045.0

76L-298 CE 307 11-58

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F.B. 2804 Pg. 230 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted C.WH. Profile
Survey of BEACH EROSION STUDIES Date 8-12-60 Date 10-12-60 No. X-Sec.
Survey by HARBOR Notes SMITH Notes Chkd. JSH Checked JSH
Indexed H. E. OH Date Date 8-22-60 Date 10-18-60 No.

STATION		B.S.	H.I.		F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		61	8.9	7.6		16°23'	340'	Tape = +.7
		62	8.0	6.7		15°50'	325'	Boat = +1.0
		63	7.1	5.8		15°03'	303'	Tide = -3.0
		64	6.4	5.1	9-39	14°19'	283'	-1.3
5-19	5-20							

Notes Ck'd by J.S.H.	Survey of Beach Erosion Studies
Map No.	JN ~~[illegible]~~ Tape Std. °F.
Office Work J.S.H.	Surveyed by Vearriet
Checked C.W.H.	Notes Elsinchard Date 7-19-60
Date 8-10-60	Indexed H. E. OH

F. B. 2904 PG. 231

TIDE GAUGE READINGS

JULY 19, 1960

DATUM - M.L.L.W.

TIME - P.S.T.

TIME P.S.T.	GAUGE READING M.L.L.W.
5:00 A.M.	3.0 ft.
5:30	3.4
6:00	3.7
6:30	3.9
7:00	4.0
7:30	4.1
8:00	4.0
8:30	3.9
9:00	3.8
9:30	3.6
10:00	3.3
10:30	3.0
11:00	2.8

Note: Any Additions or Changes on This Sheet Must 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.

75309S CE #247—7-53

F. B. 2804 PG. 232

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76L-298 CE 307 11-58

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Do not extend notes this side of this line. 5-22 79°0

STATION	B.S.	H.I.	F.S.	ELEV.	INST @ 322+00	SIGHT ON 319+00
		24 03			DATUM MEAN LOWER LOW WATER	319+00 INSHORE
T.P.	3 40	23 15	4 80	19 22		
319+00			4 2	19 5	CONTROL	LINE
			4 2	19 5	5' LT. BACK WALK	
			3 8	19 4		17' RT. TOP BLK.
T.P.			15 34	12 3	T.P.	29' RT. BTM BLK
	08	13 1				
			84	4 7		90° RT. Mean tide line
T.P.	16	7.2	7.5	5.6	T.P.	
319+00			3.4	3.8	18° 46'	98'
"			80	-0.8	24° 16'	127'
"			78	-0.6	30° 04'	160'
"			77	-0.5	34° 12'	184'
"			95	-2.3	41° 28'	231'
"			110	-3.8	45° 57'	264'
"			129	-5.7	51° 30'	309'
"			145	-7.3	57° 16'	365'
			163	-9.1	61° 30'	415'

Profile No. ____ Notes Red CWH Plotted CWH Job No. ____ Division No. 11
Data 8-12-60 Date 10-17-60 Survey of BEACH EROSION STUDIES
X-Sec. ____ Notes Chkd. JSH Checked JSH Survey by ____ Notes ____ Date 7-18-
No. ____ Date 8-22-60 Date 10-18-60 Map No. ____ Indexed ____ Date ____ H. ESOTT

F.B. 2504 PG. 233

F.B. 2804 Pg. 234 | 0300.02

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

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

Survey by LWD Notes J.C. GOODWIN Notes Chkd. _____ Checked _____ X-Sec.

Indexed H. E. OTT Date 8 Sept 11 Date _____ Date _____ No. _____

STATION	B.S.	H.I.	F.S.	ELEV.
		25.15		

76L-296 CE 307 11-58

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76L-288 CE 307 11-58

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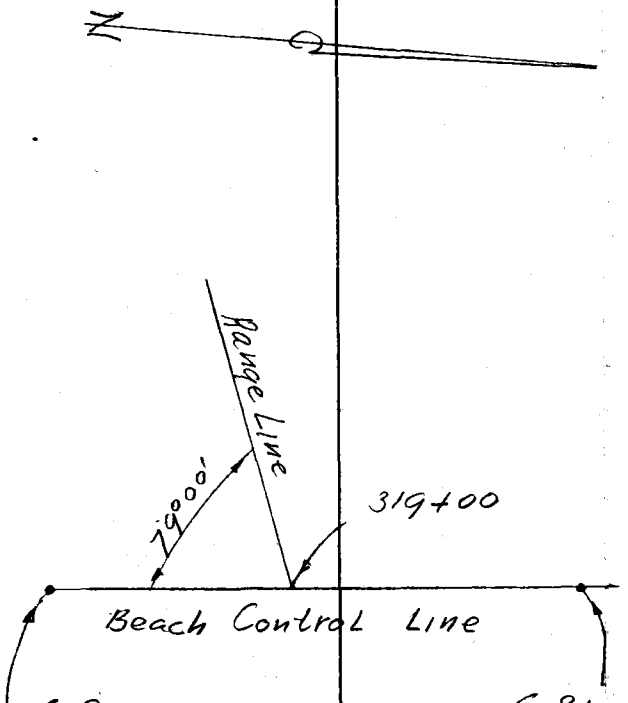
Do not extend notes this side of this line.

STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
		1		8 53	79° 00'		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
		8			"		
		9			"		
319+00	S-22	10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



Profile Notes Red CWH Plotted CWH Job No. Division No. 11
No. Date 8-12-60 Date 10-17-60 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. " " Checked JSH Survey by Williams Notes Accepted Date 7-19-60
No. Date 8-22-60 Date 10-18-60 Map No. Indexed Date

03300 02

F.B. 28004 Pg. 73

F.B. 2804 Pg. 236 | 0300.02

Job No. _____ Division No. 11 Notes Red CWH Plotted CWH Profile

Survey of Beach Erosion Studies Date 8-12-60 Date 10-17-60 No. _____

Survey by Uharriez Notes Teeboom Notes Chkd. J.S.H. Checked J.S.H. X-Sec.

Indexed W. E. OTT Date _____ Date 8-22-60 Date 10-18-60 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	Remarks
Inst. At 319+00					
Sight On 5-22					
	21				
	22				
	23				
	24				
	25				
	26				
	27				
	28				
	29				
	30				
	31				
	32				
	33				
	34				
	35				
	36				
	37				
	38				
	39				
	40				

Depth Rec. Adj. Time Hor. Ang. 79°00'

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	Sight On	#	Depth Rec. Adj.	Time	Hor.Ang.	Remarks	
		41			79° 00'		
		42			"		
		43			"		
		44			"		
		45			"		
		46			"		
		47		900	"		
319+00	5-22						

Profile Notes Red CWH Plotted CWH Job No. 030002 Division No. 11 F.B. 2804 PG. 237
No. X-Sec. Date 8-12-60 Date 10-17-60 Survey of Beach Erosion Studies
No. Notes Chkd. JCH Checked JCH Survey by Villa Park Notes Technical Date 7-19-60
Date 8-22-60 Date 10-18-60 Map No. Indexed B. E. OTT Date

F.B. 2804 Pg. 238 | 030002 Job No. | Division No. 11 | Notes Red | Plotted | Profile

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

Survey by Uhervet Notes Teeboom | Notes Chkd. | Checked | X-Sec.

Indexed H. E. On | Date | Date | Date | No.

76L-[illegible] CE-307 11-58

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

76L-298 CE 307 11-58

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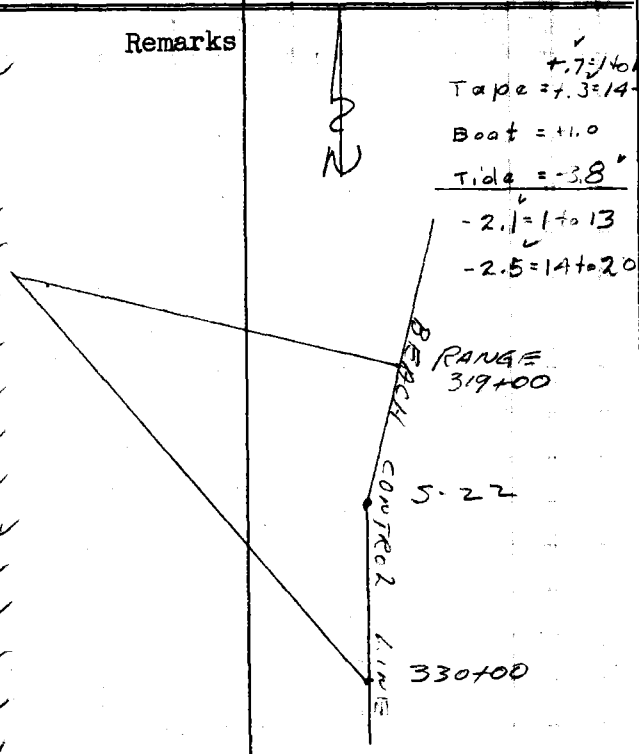
Profile No. ____ X-Sec. ____ Notes Red. CWH Date 8-12-60 Plotted CWH Date 10-17-60 Job No. 0300.02 Division No. 11 Survey of BEACH EROSION STUDIES Notes SATH Date 7-19-60 F.B. 2804 Pg. 23

Notes Chkd. JSH Date 8-23-60 Checked JSH Date 10-18-60 Survey by LIBERTY Map No. ____ Indexed H.E. OTT Date ____

STATION Inst. At	Sight On	#	B.S.	H.I. Depth Rec.	Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
330+00	5.22	1		153.2	151.1	8-53	59°-57'	1868'
		2		147.2	145.1		58°-47'	1790'
		3		137.7	135.6		57°-09'	1685'
		4		130.2	128.1		55°-57'	1617'
		5		124.5	122.9		55°-00'	1567'
		6		120.5	118.4		54°-27'	1538'
		7		115.4	113.3		53°-45'	1503'
		8		113.7	111.6		52°-56'	1460'
		9		120.1	118.0		51°-23'	1388'
		10		124.7	122.6		50°-06'	1332'
		11		123.9	121.8		49°-00'	1284'
		12		121.4	119.3		47°-51'	1239'
		13		118.6	116.5		46°-42'	1194'
		14		114.3	111.8		45°-45'	1159'
		15		109.8	107.3		44°-43'	1121'
		16		105.0	102.5		43°-40'	1084'
		17		100.2	97.7		42°-43'	1051'
		18		94.9	92.4		41°-49'	1023'
		19		90.2	87.7		40°-45'	988'
		20		86.4	83.9		39°-48'	958'



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.

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F.B. 2804 PG. 240
Job No. 0300.02 Division No. 11 Notes Red CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 8-12-60 Date 10-17-60 No. X-Sec.
Survey by HARRIET Notes SMITH N Notes Chkd. J.S.H. Checked J.S.H.
Indexed M. E. OTT Date Date 8-22-60 Date 10-18-60 No.

STATION Inst. At	Sight On	B.S. #	H.I. Rec.	H.I. Adj.	F.S. Time	ELEV. Hor. Ang.		Remarks
330+00	S-22	21	81.9	79.2		38°-41'	924'	+.1=21+030
		22	76.3	73.6		37°-33'	891'	Tape = +.5=31+040
		23	70.6	67.9		36°-28'	859'	Boat = +1.0
		24	64.7	62.0		35°-27'	831'	Tide = -3.8
		25	58.8	56.1		34°-26'	803'	-2.7 = 21+030
		26	50.8	48.1		32°-43'	758'	-2.3 = 31+040
		27	46.0	43.3		31°-05'	717'	
		28	42.8	40.1		30°-07'	693'	
		29	36.4	33.7		29°-10'	671'	
		30	30.8	28.1		28°-08'	645'	
		31	28.0	25.7		27°-22'	627'	
		32	25.6	23.3		26°-19'	603'	
		33	23.2	20.9		25°-13'	577'	
		34	20.9	18.6		23°-43'	544'	
		35	19.5	17.2		22°-45'	522'	
		36	17.6	15.3		21°-40'	499'	
		37	16.3	14.0		20°-33'	475'	
		38	14.7	12.4		19°-17'	448'	
		39	13.6	11.3		18°-06'	424'	
		40	12.3	10.0		16°-48'	396'	

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.

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Profile No. ____ X-Sec. ____ Notes Red CWH Plotted CWH Job No. 0300.02 Division No. 11 F.B. 2804 Pg. 244
Date 8-12-60 Date 10-17-60 Survey of BEACH EROSION STUDIES
Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible] Date 7-19-65
Date 8-22-60 Date 10-18-60 Map No. ____ Initial B. E. OH Date ____

STATION		B.S.	H.I.		F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Remarks	
		41	11.5	8.7		15°56'	378'	Tape = 0
		42	10.5	7.7		14°32'	351'	Boat = +1.0
		43	9.9	7.1		13°38'	333'	Tide = -3.8
		44	8.9	6.1		12°33'	312'	-2.8
		45	8.5	5.7		11°30'	291'	
		46	7.6	4.8		10°45'	276'	
		47	7.1	4.3	9:00	10°15'	266'	
330+00	5, 22							RANGE 319+00

F.B. 2804 Pg. 242 Job No. 0300.02 Division No. 11 Notes Red _____ Plotted _____ Profile

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

Survey by HARRIET Notes SMITH N Notes Chkd. _____ Checked _____ X-Sec.

Indexed H. E. OTT Date _____ Date _____ Date _____ No. _____

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

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.

76L-298 S & E #307—1-56

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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.

S-21 85°51'

STATION	B. S.	H. I.	F. S.	ELEV.		
					INST. @ S-20 312+01.58	SLOPE STAKE 317+00
		23.15				
		22.14		4.31		
B.M. S-21					B.M. S-21 ELEV. [illegible]	
" "	3.15	22.31		18.50		
			4.2	18.[illegible]	CONTROL LINE	
			4.2	15.[illegible]	4.6 LT. BACK WALL	
			3.8	18.[illegible]		15' RT. TOW BACK
T.P.			11.17	11.18	T.P.	30' RT. [illegible]
	02	11.4				
			67	47		81' Rt. Mean tide line
T.P.	24	7.9	59	5.5	T.P.	
317+00			51	2.8	10° 31'	94'
"			97	-0.8	12° 54'	117'
"			78	0.1	14° 50'	135'
"			91	-1.2	18° 15'	169'
"			103	-2.4	20° 43'	194'
"			124	-4.5	24° 13'	232'
"			140	-6.1	27° 17'	267'
"			161	-8.2	31° 00'	314'

DATUM
MEAN LOWER LOW WATER

317+00
INSHORE

Profile No. _____ Notes Red. CWH Plotted CWH Job No. [illegible] Division No. 11 F. B. [illegible] Pg. [illegible]
Date 8-12-60 Date 10-17-60 Survey of BEACH EROSION STUDIES
X-Sec. No. _____ Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes [illegible] Date [illegible]
Date 8-22-60 Date 10-18-60 Map No. _____ Indexed [illegible] Date _____

F. B. 2804 Pg. 244 | 0300102

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

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

Survey by LIND Notes J.C. Goodwin Notes Chkd ____ Checked ____ X-Sec.

Indexed H. E. OTT Date 4 Sept 11 Date ____ Date ____ No. ____

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

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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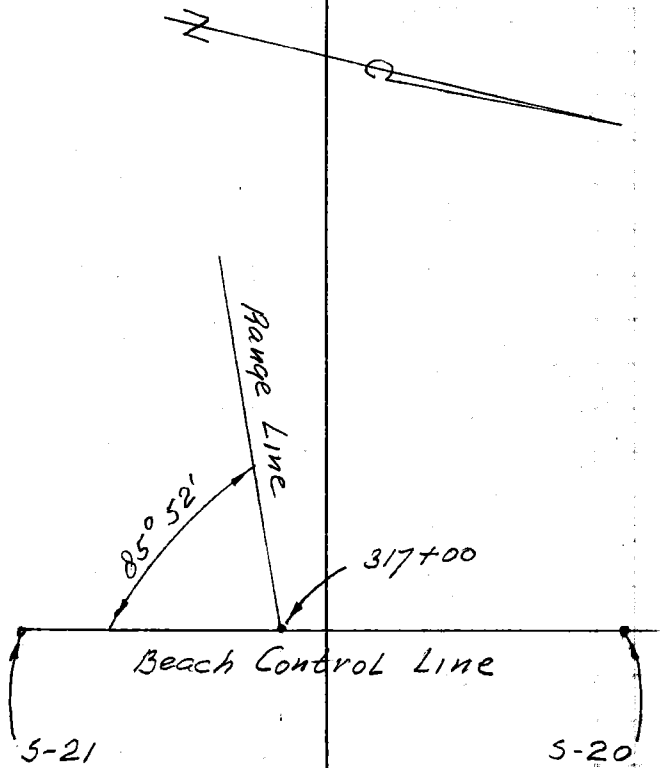
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	STATION Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
		1			9 12	85°52'	
		2				"	
		3				"	
		4				"	
		5				"	
		6				"	
		7				"	
		8				"	
317+00	5-21	9				"	
		10				"	
		11				"	
		12				"	
		13				"	
		14				"	
		15				"	
		16				"	
		17				"	
		18				"	
		19				"	
		20				"	



Profile Notes Red CWH Plotted C.W.H. Job No. 0.30002 Division No. 11
No. Date 8-12-60 Date 10-17-60 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. J.S.H. Checked J.S.H. Survey by Wagner Notes Posted Date 7-19-52
No. Date 8-27-60 Date 10-18-60 Map No. Indexed K.E.O.H. Date
F.B. 2804 Pg. 24

F.B. 2804 Pg. 246 | 030002

Job No. _____ Division No. 11 Notes Red CWH Plotted CWH Profile

Survey of Beach Erosion Studies Date 8-12-60 Date 10-17-60 No. _____

Survey by Charriet Notes Teeboom Notes Chkd. J.S.H. Checked J.S.H. X-Sec.

Indexed H. F. OTT Date _____ Date 8-22-60 Date 10-18-60 No. _____

STATION	B.S.	H.I.	F.S.	ELEV	Remarks
Inst. At 317+00					
Sight On 5-21					
	21				
	22				
	23				
	24				
	25				
	26				
	27				
	28				
	29				
	30				
	31				
	32				
	33				
	34				
	35				
	36				
	37				
	38				
	39				
	40				

Depth Rec. Adj. | Time | Hor. Ang. 85° 52'

Do not extend notes this side of this line.

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76L-298 CE 307 11-58

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 Inst. At	Sight On	B.S. #	H.I. Depth Rec.	Adj.	F.S. Time	ELEV. Hor.Ang.	Remarks	
		41				85° 52'		
		42				"		
		43				"		
		44				"		
		45				"		
		46				"		
		47				"		
		48				"		
		49				"		
317+00	S-21	50				"		
		51				"		
		52				"		
		53				"		
		54				"		
		55				"		
		56				"		
		57				"		
		58				"		
		59				"		
		60				"		

Profile No. 0300.02 Notes Red CWH Plotted CWH Job No. Division No. 11 F.B. 2804 Pg. 211
Data 8-12-60 Date 10-17-60 Survey of Beach Erosion Studies
X-Sec. No. Notes Chkd. Checked Survey by Hallinger Notes Date
Data 8-22-60 Date 10-18-60 Map No. Indexed B.E. Off Date

F.B. 2804 Pg. 248 0300.02

Job No. ____ Division No. 11 Notes Red CWH Plotted CWH Profile

Survey of Beach Erosion Studies Date 8-12-60 Date 10-17-60 No. ____

Survey by Uharriet Notes Teeboom Notes Chkd. J.S.H. Checked JSH X-Sec.

Indexed H. E. OTT Date ____ Date 8-22-60 Date 10-18-60 No. ____

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At 317+00					
Sight On S-21					
	61				
	62				
	63				
	64				
	65				
	66				
	67				
	68				
	69				
	70				
	71				
	72				
	73				
	74				
	75				
	76				
	77				
	78				

Depth # Rec. Adj. Time Hor. Ang. 85°52'

9 22

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-266 CE 307 11-58

76L-298 CE 307 11-58

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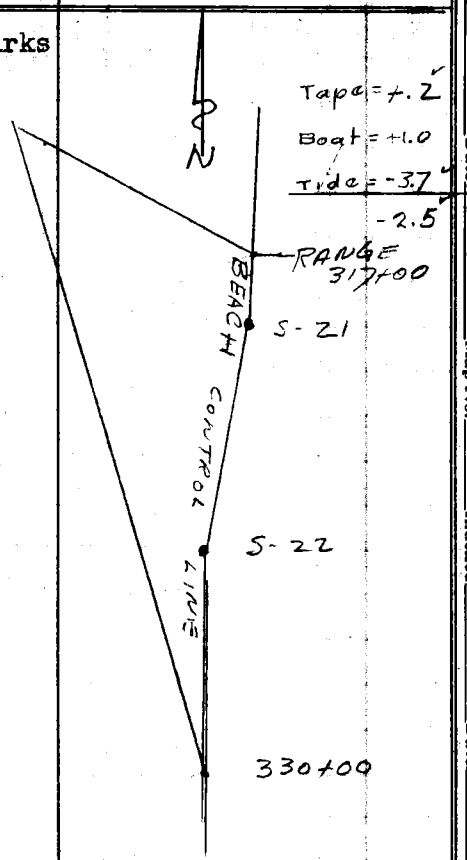
Do not extend notes this side of this line.

Profile No. ____ X-Sec. No. ____ Notes Red CWH Plotted CWH Job No. 0300.02 Division No. 11 F.B. 2804 PG. 2
Date 8-12-60 Date 10-17-60 Survey of BEACH EROSION STUDIES
Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible] Date 7-19-60
Date 8-22-60 Date 10-18-60 Map No. ____ Indexed H. E. CIV Date ____

STATION Inst. At	Sight On	B.S. #	H.I. Rec.	H.I. Adj.	F.S. Time	ELEV. Hor.Ang.		Remarks
330+00	S-22	1	291.2	288.7	9-12	69°-00'	3162'	
		2	282.5	280.0		67°-53'	3003'	
		3	269.5	267.0		67°-26'	2943'	
		4	266.0	263.5		67°-09'	2908'	
		5	260.7	258.2		66°-40'	2845'	
		6	252.0	249.5		66°-21'	2812'	
		7	242.7	240.2		66°-02'	2775'	
		8	243.0	240.5		65°-30'	2714'	
		9	222.2	219.7		65°-09'	2671'	
		10	209.4	206.9		64°-35'	2614'	
		11	215.2	212.7		64°-09'	2564'	
		12	209.3	206.8		63°-42'	2519'	
		13	194.9	192.4		63°-22'	2490'	
		14	193.4	190.9		62°-59'	2446'	
		15	180.6	178.1		62°-25'	2402'	
		16	174.4	171.9		62°-09'	2372'	
		17	177.5	175.0		61°-50'	2348'	
		18	180.5	178.0		61°-22'	2308'	
		19	186.7	184.2		60°-56'	2268'	
		20	198.5	196.0		60°-25'	2220'	



76L-298 CE 307 11-58

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F.B. 2804 Pg. 250 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 8-12-60 Date 10-17-60 No. X-Sec.
Survey by CHARNET Notes SMITH, N Notes Chkd. J.S.H. Checked J.S.H.
Indexed W. E. Date Date 8-22-60 Date 10-18-60 No.

STATION		B.S.	H.I.		F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
3301+00	5-22	21	203.6	201.1		59°55'	2190'	
		22	192.6	190.1		59°22'	2147'	
		23	184.2	181.7		58°59'	2118'	
		24	162.6	160.5		58°31'	2085'	
		25	154.1	152.0		58°09'	2054'	
		26	148.0	145.9		57°37'	2015'	
		27	142.7	140.6		57°11'	1984'	
		28	137.3	135.2		56°40'	1944'	
		29	135.2	133.1		55°57'	1896'	
		30	137.3	135.2		55°20'	1856'	
		31	145.2	143.1		54°21'	1801'	
		32	151.5	149.0		53°16'	1736'	
		33	149.8	147.3		52°24'	1687'	
		34	154.4	151.9		51°30'	1638'	
		35	159.8	157.3		50°32'	1589'	
		36	164.3	161.8		49°20'	1527'	
		37	161.4	159.2		48°29'	1485'	
		38	156.0	153.8		47°39'	1447'	
		39	161.3	149.1		46°56'	1416'	
		40	142.3	145.1		46°12'	1383'	

+.2 = 22+23
Tape = +.6 = 24+31
+.2 = 32+36
+.5 = 37+46
Boat = +1.0
Tide = -3.7

-2.5 = 22+23
-2.1 = 24+31
-2.5 = 32+36
-2.2 = 37+47

76L-298 CE 307 11-58

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Profile No. X-Sec. No. Notes Red. CMH Plotted CMH Job No. 0300.02 Division No. 11 F.B. 2804 Pg. 251
Date 8-12-60 Date 10-17-60 Survey of BEACH EROSION STUDIES
Notes Chkd. JSH Checked JSH Survey by UNIVERSITY Notes Journal Date 7-19-60
Date 8-22-60 Date 10-18-60 Map No. Indexed N E on Date

STATION Inst. At	Sight On	#	B.S.	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.		Remarks
330+00	S-22	41		144.0	141.8		45°33'	1357'	Tape = 0 = 47 to end
		42		139.9	137.7		44°56'	1331'	Boat = +1.0
		43		135.2	133.0		44°-05'	1295'	Tide = -3.7
		44		131.6	129.4		43°-11'	1258'	-2.7 = 47 to end
		45		127.5	125.3		42°-36'	1237'	
		46		122.0	119.8		41°44'	1203'	
		47		119.3	116.6		41°-08'	1181'	
		48		111.3	108.6		40°-20'	1151'	
		49		103.5	100.8		39°-20'	1116'	
		50		95.7	93.0		38°-24'	1084'	
		51		90.8	88.1		37°-38'	1056'	
		52		87.3	84.6		36°-39'	1022'	
		53		84.4	81.7		35°-18'	980'	
		54		82.8	80.1		34°-11'	944'	
		55		78.7	76.0		32°-49'	901'	
		56		72.3	69.6		31°-55'	875'	
		57		65.8	63.1		30°-58'	847'	
		58		60.1	57.4		29°-55'	818'	
		59		54.0	51.3		28°-51'	787'	
		60		46.8	44.1		27°-33'	750'	

RANGE 317+00

76L-298 CE 307 11-58

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F.B. 2804 Pg. 232 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 8-12-60 Date 10-17-60 No. X-Sec.
Survey by HARRIET SMITH Notes Notes Chkd. J.S.H. Checked J.S.H. No.
Indexed H.E. OTT Date Date 8-22-60 Date 10-18-60

STATION		B.S.	H.I.		F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
330+00	S-22	61	41.1	38.4		26°-21'	718'	
		62	35.1	32.4		25°-08'	685'	Tape = 0
		63	31.1	28.4		23°-51'	652'	Boat = +1.0
		64	28.3	25.6		22°-51'	627'	Tide = -3.7
		65	25.7	23.0		21°-30'	591'	-2.7
		66	23.9	21.2		20°-21'	563'	
		67	21.0	18.3		18°-47'	523'	
		68	19.5	16.8		17°-43'	497'	
		69	17.4	14.7		16°-29'	467'	
		70	16.5	13.8		15°-22'	442'	
		71	15.0	12.3		14°-23'	417'	
		72	13.6	10.9		13°-23'	394'	
		73	12.7	10.0		12°-22'	372'	
		74	11.7	9.0		11°-21'	348'	
		75	10.9	8.2		10°-12'	320'	
		76	9.9	7.2		09°-10'	297'	
		77	8.9	6.2		07°-58'	269'	
		78	7.5	4.8	9-22	06°-58'	247'	
		79						
		80						

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76L-298 S & E #307—1-56

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5-21 5-5

STATION	S. S.	H. I.	F. S.	ELEV.	INST. @ 5-20 312 + 01.58	SIGHT ON 316 + 00
		22.35				316 + 00 INSHORE
[illegible]	5 [illegible]	[illegible]	4 [illegible]	17 [illegible]		
[illegible]			4 2	17 7	CONTROL LINE	
			4 2	17 7	4' [illegible]	
			3 6	18 3		12' RT [illegible]
			7 4	14 3		13' RT [illegible]
			7 4	14 5		" " TOP "
[illegible]			10 96	10 93		[illegible]
	15	12.4				
			77	47		81° Rt Mean tide line
T.P.			62	62	T.P.	
316+00	22	84				
"			62	2.2	13° 18'	96'
"			88	-0.4	16° 06'	119'
"			92	-0.8	20° 34'	154'
"			103	-1.9	24° 18'	187'
"			12.1	-3.7	27° 29'	216'
"			13.5	-5.1	30° 41'	248'

Profile Notes Red. CWH Plotted [illegible] Job No. Division No. 11 F. B. [illegible] Pg. [illegible]
No. X-Sec. Date 8-12-60 Date 10-17-60 Survey of BEACH EROSION STUDIES
Notes Chkd. Checked Survey by Notes Date
No. Date 8-22-60 Date 11-19-60 Map No. Indexed H. E. Ott Date 19

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.		
					⊼ at. 312 + 01.58 (S-20)	sight. on. 316 +00
		~~2+89~~ 8.4				
316 +00			15.4	-7.0	34° 18' 286'	
"			16.8	-8.4	36° 43' 315'	

F. B. 2804 Pg. 23-4 Job No. 0300.02 Division No. 11 Notes Red. CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 8-12-60 Date 10-17-60 No. X-Sec.
Survey by CWD Notes J.C. Goodwin Notes Chkd. J.S.H. Checked J.S.H.
Indexed H. E. OTT Date 8 Sept 60 Date 8-22-60 Date 10-18-60 No.

76L-296 CE 307 11-58

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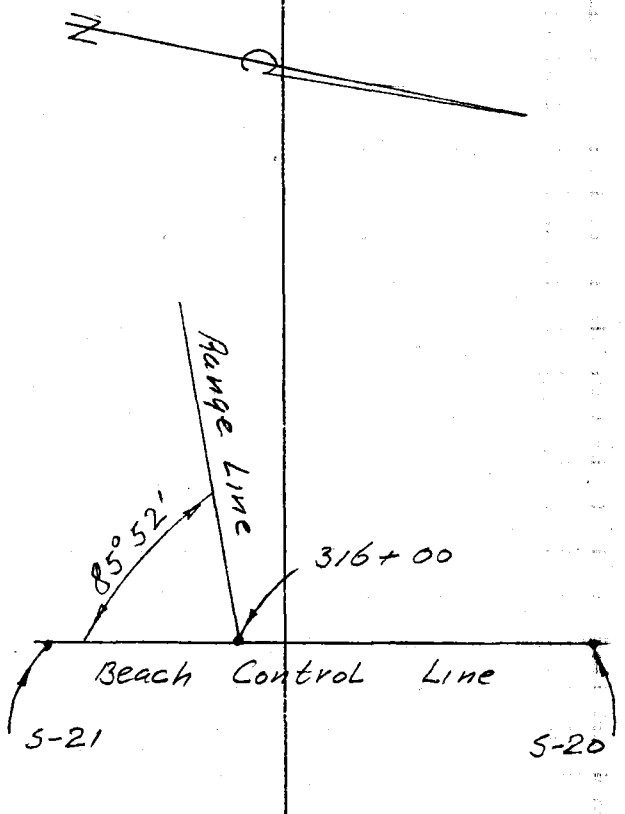
STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
		1		935	85°52'		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
		8			"		
316+00	5-21	9			"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



Profile Notes Red CWH Plotted CWH Job No. 030002 Division No. 11 F.B. 2804 Pg. 235
No. X-Sec. Date 8-12-60 Date 10-17-60 Survey of Beach Erosion Studies
No. Notes Chkd. J.S.H. Checked J.S.H. Survey by Chavvet Notes Edson Date 7-10-60
Date 8-22-60 Date 10-18-60 Map No. Indexed H. E. Ott Date

F.B. 2804 Pg. 256 | 0300.02

Job No. _____ Division No. 11 Notes Red CWH Plotted CWH Profile

Survey of Beach Erosion Studies Date 8-12-60 Date 10-17-60 No. _____

Survey by Vhorriet Notes Teeboom Notes Chkd. J.S.H. Checked J.S.H. X-Sec.

Indexed ~~M. E. OH~~ Date _____ Date 8-22-60 Date 10-18-60 No. _____

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At 316+00					
Sight On S-21					
	21			85° 52'	
	22			"	
	23			"	
	24			"	
	25			"	
	26			"	
	27			"	
	28			"	
	29			"	
	30			"	
	31			"	
	32			"	
	33			"	
	34			"	
	35			"	

Rec. Adj. Depth Time Hor. Ang.

76L-298 CE 307 11-58

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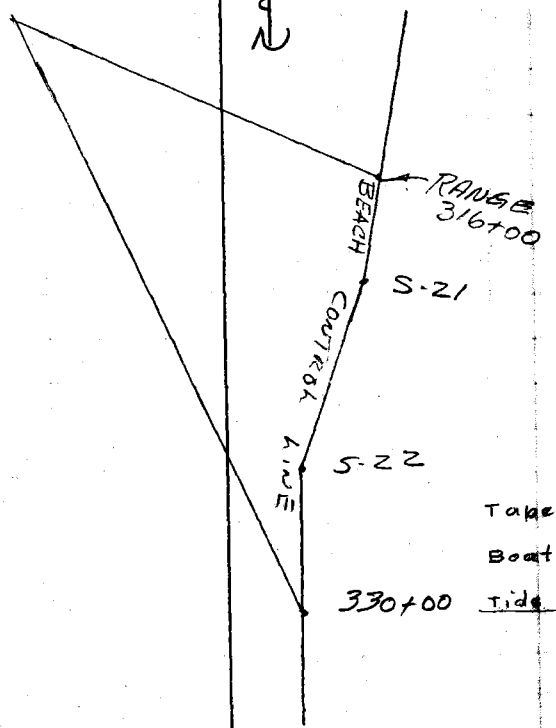
Name Rod CWH Plotted CWH Job No. 0300 0 Division No. 11 F.B. 2804 Pg. 257

Date 5-12-60 Date 10-17-60 Survey of BEACH EROSION STUDIES

X-Sec. Not Chkd. JSH Checked JSH Date 10-18-60 Map No. Survey by Notes Indexed Date 7-19-60

No. Date Date

STATION Inst. At	Sight On	#	H.I. Depth Rec.	Adj.	F.S. Time	Hor. Ang.	Elev.	Remarks
330+00	S-22	1	136.5	133.9	9-35	41°03'	1267'	
		2	127.8	125.2		39°24'	1204'	
		3	121.7	119.1	SHOT #4	38°-03'	1152'	
		5	108.4	105.8	MISSED	35°30'	1060'	
		6	100.2	97.6		34°-03'	1010'	
		7	93.5	90.9		32°55'	972'	
		8	87.1	84.5		32°03'	944'	
		9	81.1	78.5		31°-18'	920'	
		10	77.2	74.6		30°-39'	899'	
		11	71.3	68.7		29°55'	877'	
		12	66.4	63.8		29°-11'	854'	
		13	61.9	59.3		28°-21'	830'	
		14	56.9	54.3		27°33'	804'	
		15	49.8	47.2		26°-26'	771'	
		16	46.7	44.1		25°40'	748'	
		17	43.5	40.9		24°43'	722'	
		18	39.3	36.7		23°47'	698'	
		19	35.4	32.8		22°43'	668'	
		20	32.7	30.1		21°46'	641'	
		21	29.8	27.2		20°35'	607'	



Take = -.1

Boat = +1.0

Tide = -3.5

-2.6

Survey of BEACH EROSION STUDIES Notes Rcd. CWH Plotted
Surveyed by CHARRIET Notes SMITH Date 8-12-60 Date
Indexed H. E. OTT Date Notes Chkd. JSH Checked Date 8-22-60

Job No. 0300.02 Division No. 11 Page No. 238

330+00

S-22

22	26.8	24.2		19°40'	583'	Tape = -.1
23	25.2	22.6		18°47'	560'	Boat = +1.0
24	22.5	19.7		17°24'	523'	Tide = -3.5
25	20.3	17.7		16°18'	494'	-2.6
26	18.8	16.2		15°22'	471'	
27	17.7	15.1		14°33'	450'	
28	16.5	13.9		13°45'	431'	
29	15.6	13.0		13°05'	413'	
30	14.2	11.6		12°13'	391'	
31	13.2	10.6		11°21'	371'	
32	12.0	9.4		10°26'	347'	
33	10.9	8.3		09°31'	324'	
34	9.2	6.6		08°42'	304'	
35	8.1	5.5	9-39	07°47'	282'	

35 SHOT TOTALLED

SHOT #4 WAS MISSED.