Ck'd by

Survey of Beach Erosion Studies F. B. 2807 PG. 5
J.N. 0300.02 Topo Strl OF
Surveyed by Uharriet
Notes Uharriet Date 7-29-60
Indexed H. E. OTT

BEACH EROSION STUDIES

JULY 1960

J.N. 0300.02

STA. 37+50S TO STA. 6+20N

EF. F.B. 2100

arriet		Lind	Sappel
terson		Goodwin	Smiley
lks.		Wallace	Tuxford
nith, N.		Caro	Lieber
ler		Masuda	Hinzman
eboom			Blanchard
ommen — Sounder			
oemaker — Skipper			

[redacted] microfilmed. March '85

F. B. 2807 PG. 6

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

Do not extend notes this side of this line.

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

Notes Ck'd by J. S. H.	Survey of Beach Erosion Study
Map No.	IN 0388.04 Zone Std. of
Office Work J. S. H.	Surveyed by Charriet
Checked C. W. H.	Notes Blanchard Date 7-29-60
Date 8-9-60	Indexed H. E. Ott

F. B. 2807 PG. 7

TIDE GAUGE READINGS

JULY 29, 1960

DATUM - M.L.L.W.

TIME - P.S.T.

TIME P.S.T.	GAUGE READING M.L.L.W.
5:00 A.M.	1.7 ft.
5:30	1.3
6:00	1.3
6:30	1.2
7:00	1.4
7:30	1.5
8:00	1.7
8:30	2.0
9:00	2.4
9:30	2.8
10:00	3.2
10:30	3.7
11:00	4.0

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

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

763095 CE #247—7-59

F. B. 2807 PG. 8

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76L-298 9 & E #307—1-56

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LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 32+50		SIGHT ON 37+50
		19 60			DATUM MEAN LOWER LOW WATER		37+50 INSHORE
T.P.	[illegible]	19 [illegible]	6 [illegible]	12 [illegible]	NOTE: (ALL DIST. TAKEN FROM [illegible])		
37+50			4 6	15 2	[illegible]-CONTROL LINE-[illegible]		
			2 0	17 8	39' LT. FENCE FACE		
			5 1	14 7			78' RT. TOP BLK.
—			7 1	12 7			100' RT. [illegible]
			7 8	12 [illegible]			185' RT. TOP [illegible]
			8 5	11 3			205' RT. TOP BLK.
T.P.			11 84	7 85			
	110	9 05					ADJ. DIST.
37+50			33	57	21° 22'	248'	464'
T.P.	280	5.45	640	2 [illegible]	T.P.		
37+50			56	-0.2	32° 53'	323'	539'
"			76	-2.2	39° 30'	412'	628'
"			114	-6.0	43° 34'	476'	692'
"			139	-8.5	47° 00'	536'	752'
"			165	-11.1	50° 04'	597'	813'

Profile Notes Red. J.S.H. Plotted CWH Job No. Division No. 11 F. B. 7807 Pg. 9
No. Date 8-11-60 Date 10-31-60 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. CWH Checked [illegible] Survey by [illegible] Notes [illegible] Date 7-29-60
No. Date 8-19-60 Date 11-1-60 Map No. Indexed [illegible] Date

F. B. 2807 Pg. 10 | 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. GODWIN Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

Do not extend notes this side of this line.

76L-298 S & E #307—1-56

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76L-298 CE 307 11-58

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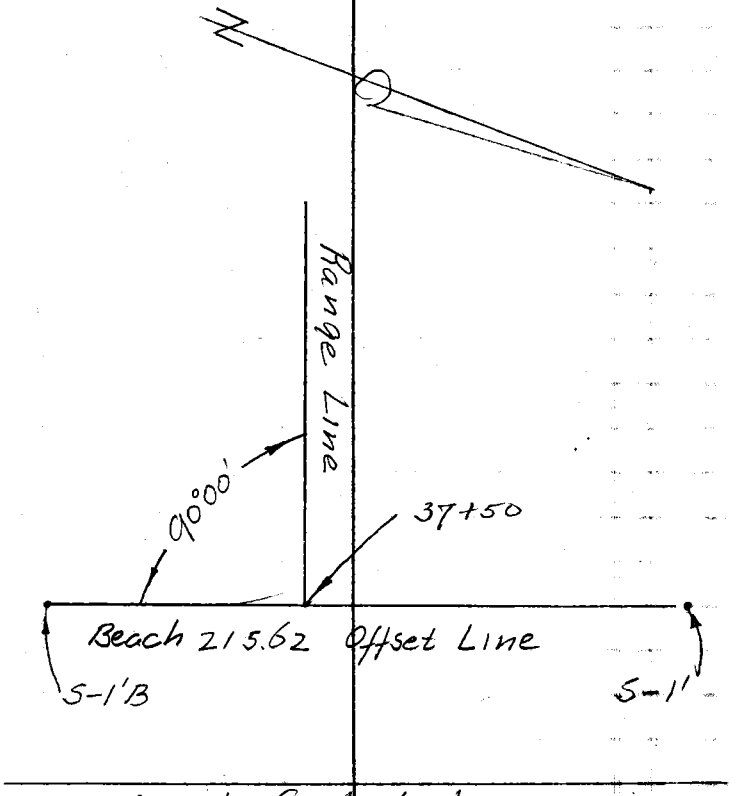
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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.
		1			517	90° 00'
		2				"
		3				"
		4				"
		5				"
		6				"
		7				"
37+50	S-1'B	8				"
		9				"
		10				"
		11				"
		12				"
		13				"
		14				"
		15				"
		16				"
		17				"
		18				"
		19				"
		20				"

Remarks



Profile Notes Red CWH Plotted CWH Job No. 0300.02 Division No. 11 F.B. 2607 PG. 11
Date 8-19-60 Date 10-31-60 Survey of Beach Erosion Studies
No. X-Sec. Notes Chkd. JSH Checked JSH Survey by Harriet Notes Checked Date 7-29-60
Date 8-26-60 Date 11-1-60 Map No. Indexed H.E. OH Date

F. B. 2807 Pg. 12 030002

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

Survey of Beach Erosion Studies Date 8-19-60 Date 10-31-60 No. ____

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

Indexed H. E. OTT Date ____ Date 8-26-60 Date 11-1-60 No. ____

STATION	B. S.	H. I.	F. S.	ELEV	Remarks
Inst. At 37+50	Sight On 5-1'B	Depth # Rec. Adj. 21 22 23 24 25 26 27 28	Time 5 21	Hor. Ang. 90° 00' " " " " " "	

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761-298 CE 307 11-58

76L-298 CE 307 11-56

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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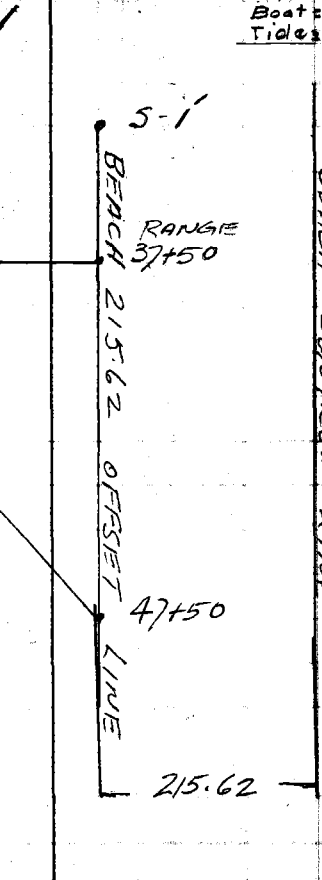
Profile No. X-Sec. Notes Red. CWH Plotted CWH Job No. 0300.02 Division No. 11 F.B. 287 Pg. 13
Date 8-19-60 Date 10-31-60 Survey of BEACH EROSION STUDIES
Notes Chkd. JCH Checked JH Survey by HACCIT Notes Smith Date 7-29-60
Date 8-26-60 Date 11-1-60 Map No. Recorded B. F. Ott Date

STATION Inst. At	Sight On	#	B.S.	H.I. Depth Rec.	Adj.	F.S. Time	ELEV. Hor. Ang.	Adj. Dist.	Remarks
47+50	S-1	1		29.4	29.5	5-17	66°-40'	2318	2,534'
		2		28.9	29.0		65°-24'	2184	2,400'
		3		28.2	28.3		64°-03'	2055	2,271'
		4		27.6	27.7		62°-25'	1914	2,130'
		5		27.5	27.6		61°-10'	1817	2,033'
		6		26.8	26.9		59°-34'	1702	1,918'
		7		26.6	26.7		58°-15'	1616	1,832'
		8		25.3	25.4		56°-11'	1493	1,709'
		9		25.2	25.3		54°-07'	1382	1,598'
		10		26.2	26.3		51°-56'	1277	1,493'
		11		25.5	25.6		49°-21'	1165	1,381'
		12		24.2	24.3		46°-09'	1041	1,257'
		13		23.3	23.4		44°-21'	978	1,194'
		14		21.7	21.8		42°-51'	928	1,144'
		15		20.5	20.6		41°-37'	888	1,104'
		16		20.4	20.5		40°-24'	851	1,067'
		17		18.8	18.9		39°-31'	825	1,041'
		18		18.0	18.1		38°-24'	793	1,009'
		19		17.1	17.2		37°-32'	768	984'
		20		16.6	16.7		36°-01'	727	943'

Tape = +.6
Boat = +1.0
Tides = -1.5
+.1



76L-298 CE 307 11-58

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Do not extend notes this side of this line.

F.B. 2807 Pg. 14 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 8-19-60 Date 10-31-60 No. X-Sec.
Survey by WHARRIET Notes SMITH N Notes Chkd. J.S.H. Checked J.S.H.
Indexed H. E. Ott Date Date 8-26-60 Date 11-1-60 No.

STATION		B.S.	H.I.		F.S.	ELEV			
Inst. At	Sight On	#	Depth Rec.	Depth Adj.	Time	Hor. Ang.		Adj. distance	Remarks
47+50	S-1	21	14.4	14.5		34°46'	694	910	Tape: +.6
		22	13.1	13.2		33°42'	667	883	Boat: +1.0
		23	12.5	12.6		33°10'	654	870	Tide: -1.5
		24	11.1	11.2		31°28'	612	828	+.1
		25	10.1	10.2		30°32'	590	806	
		26	9.4	9.5		29°53'	567	783	
		27	8.0	8.1		28°42'	547	763	
		28	—		5:21	27°52'			

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. @ 27+50	SIGHT ON 32+50
		19.79			(215.62 OFF: IFT)	32+50
T.P.	7	20	7.09	12.7	DATUM	INSHORE
				16.0	MEAN LOWER LOW WATER	
32+50			4.6	15.4	CONTROL LINE	
			2.8	17.6		34' Lt.
			5.3	14.2		90 RT.
			8.0	2		105 RT.
			1	11.6		185 RT.
				1		220
T.P.			11.58	8.76	T.P	
	0.99	9.76				ADJ. DIST.
32+50			4.1	57	27° 10' 257'	473'
T.P	3.04	5.95	6.95	2.81	T.P.	
32+50			4.5	(-0.7)	33° 27' 330'	546'
"			7.0	(-1.2)	37° 27' 383'	599'
"			9.1	(-3.3)	41° 25' 441'	657'
"			12.1	(-6.3)	44° 24' 490'	706'
"			15.0	(-9.2)	47° 36' 548'	764'
"			17.0	(-11.2)	49° 51' 593'	809'

Profile No. ____ Notes Red. CWB Plotted ____ Job No. ____ Division No. 11
X-Sec. No. ____ Date 5-19-60 Date ____ Survey of ____
Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date ____
Date 5-26-60 Date 11-1-60 Map No. ____ Indexed ____ Date ____

F. B. 2801 Pg. 15

F. B. 2807 Pg. 16 | 1300.02

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

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

Survey by LIND Notes J. G. 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

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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.

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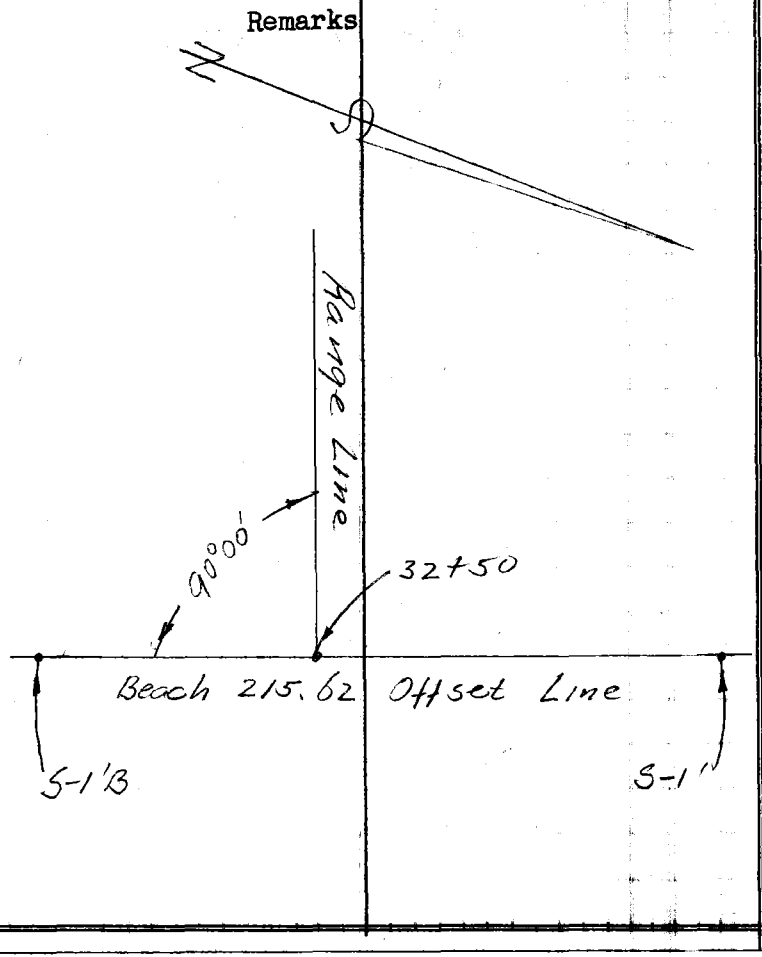
Profile No. ____ X-Sec. ____ Notes Red. CWH Plotted CWH Job No. 0300.02 Division No. 11
Date 8-19-60 Date 10-31-60 Survey of Beach Erosion Studies
Notes Chkd. CH Checked CH Survey by Harrison Notes Robson Date 7-26-60
No. ____ Date 8-26-60 Date 11-1-60 Map No. ____ Intersect. ____ Date ____
F.B. 287 Pg. 17

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
32+50	S-1'B	1		531	90° 00'	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
		8			"	
		9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	
		19		534	"	



F.B. 2807 Pg. 18 | Job No. 030002 | Division No. 11 | Notes Red CWH | Plotted CWH | Profile

Survey of Beach Erosion Studies | Date 8-19-60 | Date 10-31-60 | No.

Survey by Charnet | Notes Tee Boom | Notes Chkd. J.S.H. | Checked J.S.H. | X-Sec.

Indexed H. E. Ott | Date | Date 8-26-60 | Date 11-1-60 | No.

STATION	B.S.	H.I.	F.S.	ELEV	Remarks
Inst. At	Sight On	# Rec.	Depth Adj.	Time	Hor. Ang.
32+50					
	S-1'B				
		21			
		22			
		23			
		24			
		25			
		26			
		27			
		28			
			5		
					90°00'

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76L-298 CE 307 11-58

76L-298 CE 307 11-58

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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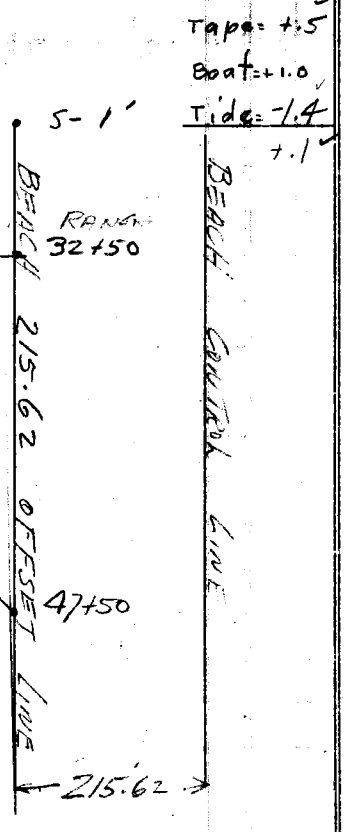
Profile Notes Red. GWH Plotted GWH Job No. 0300 Division No. 11 F.B. 28 Pg. 7
No. X-Sec. Date 8-19-60 Date 10-31-60 Survey of BEACH EROSION STUDIES
Notes Chkd. Checked Survey by Notes Date 7-29-60
No. Date 8-26-60 Date 11-1-60 Map No. Inferred

STATION Inst. At	Sight On	#	B.S.	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.	Adjusted Distance	Remarks
47+50	5-1'	1		28.6	28.7	5:31	55-19	2166	2,382'
		2		28.1	28.2		52-35	1961	2,177'
		3		27.0	27.1		49-35	1761	1,977'
		4		26.1	26.2		46-[illegible]	1581	1,797'
		5		25.3	25.4		45-[illegible]	1440	1,656'
		6		25.1	25.2		[illegible]	1290	1,506'
		7		24.2	24.3		[illegible]	1122	1,338'
		8		23.0	23.1		[illegible]	995	1,211'
		9		21.6	21.7		[illegible]	923	1,139'
		10		20.2	20.3		29-[illegible]	855	1,071'
		11		18.4	18.5		[illegible]	807	1,023'
		12		17.6	17.7		[illegible]	776	992'
		13		16.8	16.9		26-[illegible]	743	959'
		14		15.2	15.3		[illegible]	704	920'
		15		13.5	13.6		[illegible]	677	893'
		16		13.2	13.3		[illegible]	654	870'
		17		12.5	12.6		[illegible]	612	828'
		18		11.1	11.2		[illegible]	591	807'
		19		9.1	9.2	5:[illegible]	[illegible]-02	578	794'

Tape = +.5
Boat = +1.0
Tide = -1.4
+.1



F.B. 2807 PG. 20

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

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

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

Indexed B. L. Oh Date _____ Date _____ Date _____ No. _____

76L-298 CE 307 11-58

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L-298 S & E #307—1-56

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

Do not extend notes this side of this line.

S-2

STATION	B. S.	H. I.	F. B.	ELEV.	Line @ 32+50	Sight on 27+50
		20 36			(215.62 OFF SET)	27+50
T.P.	9 94	22 58	7 72	12 [illegible]	DATUM MEAN LOWER LOW WATER	INSHORE
27+50			6 [illegible]	18 1	MEAN CONTROL	LINE
			2 [illegible]	19 8		29 Lt. [illegible]
			8 [illegible]	14 2		85 Rt. [illegible]
			9 [illegible]	13 [illegible]		105 Rt. [illegible]
			10 2	12 [illegible]		140 Rt. [illegible]
			11 6	12 0		185 Rt. [illegible]
			10 9	11 7		240 Rt. TOP BK.
T.P.			11 [illegible]	10 99	T.P.	
	0 95	11.84				Adj. Dist.
27+50			6.1	57	29° 05'	278' 494'
T.P.	2 65	5.17	9.32	7.52	T.P.	
27+50			62	-1.0	35° 07'	352' 563'
"			78	-2.6	41° 50'	448' 664'
"			13.8	-8.6	48° 06'	557' 773'
"			17.0	-11.8	51° 10'	621' 837'

Profile Notes Red [illegible] Plotted CWH Job No. [illegible] Division No. [illegible]
No. Date 8-19-60 Date 10-31-60 Survey of BEACH [illegible] STUDIES
X-Sec. Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes [illegible] Date 7-29-60
No. Date 8-26-60 Date 11-1-60 Map No. Indexed H. E. OH Date

F. B. 28[illegible] Pg. 21

F. B. 2807 Pg. 22 | 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 Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L-298 S & E #307—1-56

76298 S & E #307—7-55

PLEASE RETURN TO
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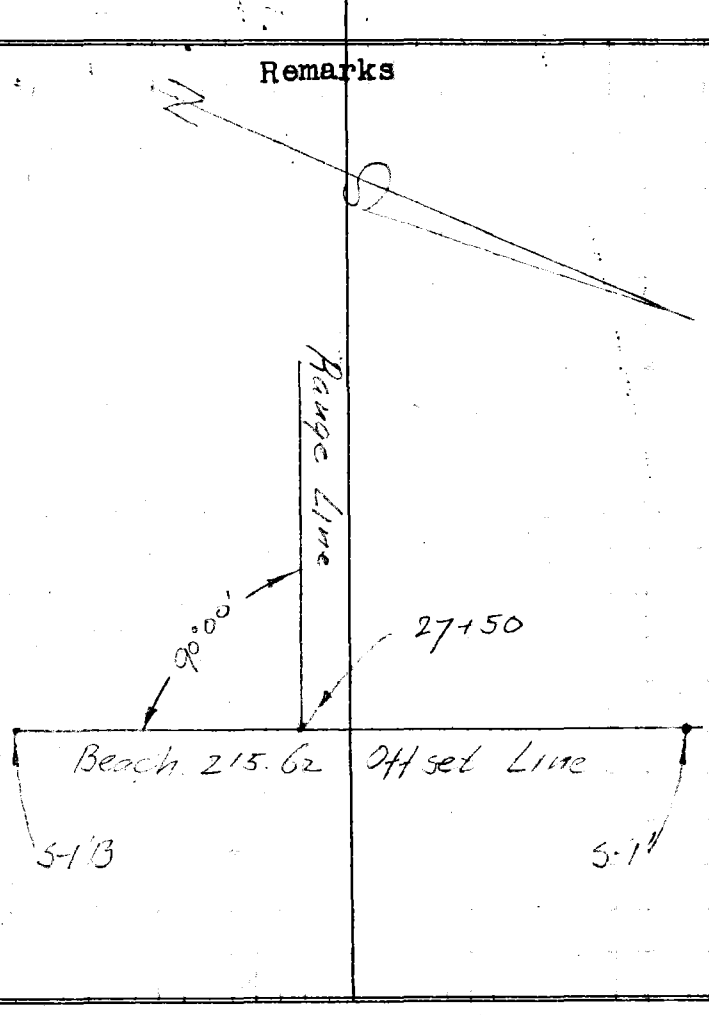
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Rec.	Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		1			5.43	90°00'	
		2					
		3					
		4					
		5					
		6					
		7					
27+50	5-1B	8					
		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. 2667 Pg. 22
No. Date 8-19-60 Date 10-31-60 Survey of Beach Photo 1017 Sec. Chas
X-Sec. Notes Chkd. J.S.H. Checked J.S.H. Survey by Mathiot Notes Rec'd Date 7-29-60
No. Date 8-25-60 Date 11-1-60 Map No. Indexed H. E. Ott Date

F. B. 2807 Pg. 24 | Job No. 0300.02 | Division No. 11 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Studies | Date 8-19-60 | Date 10-31-60 | No.

Survey by Uharriet H. E. Ott | Notes Tee boom | Notes Chkd. J.S.H. | Checked J.S.H. | X-Sec.

Indexed | Date | Date 8-26-60 | Date 11-1-60 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
27+50					Inst. Sight At
S-11B					On
	21				# Depth
	22				Rec. Adj.
	23				
	24				
	25				
			5.47		Time
					Hor. Ang.

Do not extend notes this side of this line.

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76288 S & E #307—7-55

76L-298 CE 307 11-58

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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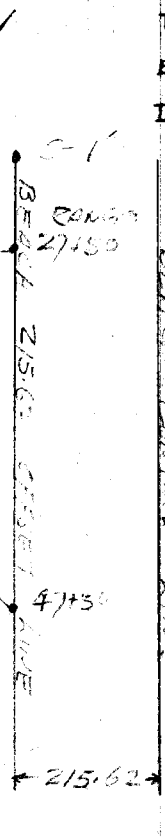
Do not extend notes this side of this line.

Profile No. X-Sec. No. Notes Red. CWH Plotted CWH Job No. 0300.02 Division No. 11
Date 8-19-60 Date 10-31-60 Survey of BEACH EROSION STUDIES
Notes Chkd. CCU Checked CCU Survey by [illegible] Notes [illegible] Date 7-29-60
Date 8-26-60 Date 11-1-60 Map No. Indexed H.B. OK Date
F.B. 280 Pg. 25

STATION Inst. At	Sight On	#	B.S.	H.I. Depth Rec.	H.I. Depth Adj.	F.S.	Time	ELEV.	Hor. Ang.	Adj. Dist.	Remarks
		1		28.5	28.6		5-43		45-20	2024	2,240'
		2		27.3	27.4				44-0	1932	2,148'
		3		26.9	27.0				4[illegible]	1788	2,004'
		4		26.3	26.4				[illegible]	1626	1,842'
		5		25.4	25.5				[illegible]	1430	1,646'
		6		25.0	25.1				[illegible]	1310	1,526'
		7		24.4	24.5				[illegible]	1162	1,378'
		8		23.3	23.4				[illegible]	1058	1,274'
		9		22.3	22.4				26-[illegible]	998	1,214'
		10		21.9	22.0				25-[illegible]	956	1,172'
		11		20.9	21.0				[illegible]	910	1,126'
		12		19.5	19.6				23-[illegible]	878	1,094'
		13		19.5	19.6				[illegible]	842	1,058'
		14		18.4	18.5				[illegible]	800	1,016'
		15		16.9	17.0				[illegible]	780	996'
		16		16.0	16.1				[illegible]	760	976'
		17		14.9	15.0				19-[illegible]	720	936'
		18		13.5	13.6				[illegible]	694	910'
		19		12.9	13.0				19-[illegible]	676	892'
		20		12.1	12.2				19-53	646	862'

Tape = +1.4
Boat = +1.0
Tide = -1.3
+.1



76L-298 CE 307 11-58

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F.B. 2807 PG. 26 | Job No. 0300.02 | Division No. 11 | Notes Red CWH Plotted CWH Profile No.
Survey of BEACH EROSION STUDIES Date 8-19-60 Date 10-31-60 X-Sec. No.
Survey by LITHARPET Notes SMITH N Notes Chkd. J.S.H. Checked J.S.H. No.
Indexed H.E. OTT Date Date 8-26-60 Date 11-1-60

STATION		B.S.	H.I.		F.S.	ELEV			
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Adj Dist.		Remarks
4745	5-1	21	11.0	11.1		[illegible]	626	842	Tape = +.4
		22	10.3	10.4		[illegible]	602	818	Boat = +1.0
		23	9.3	9.4		[illegible]	578	794	Tide = -1.3
		24	8.5	8.6		[illegible]	562	778	+.1
		25	7.6	7.7	541	[illegible]	540	756	

76L-295 S & E #307—1-56

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STATION	S. S.	H. I.	F. S.	ELEV.	INST. @ 17+50	SIGHT ON 22+50
		22 58			(215.62 OFF-SET)	22+50
T.P.	5 31	25 55	2 64	19 92	DATUM	INSHORE
					MEAN LOWER LOW WATER	
22-50			4 5	20 7	[illegible] CONTROL LINE [illegible]	
			3 8	21 5	17' LT. FENCE FACE	
			8 1	17 2		100' RT. BEL[illegible]	
			12 9	14 4		165' RT. TOP BRK.
T.P.	2 98	16 92	11 38	13 9		
			5 0	11 9		185' RT. BTM. BRK.
			5 7	11 2		250' RT. TOP. BRK.
T.P.			9 33	7 59	T.P.	
[illegible]	165	9.24				ADJ. DIST.
22+50			3.5	5 7	31° 07' 302'	518'
T.P.	312	5.99	647	2.77	T.P.	
22+50			44	1.5	35° 05' 351'	567'
"			59	-0.0	38° 35' 399'	615'
"			82	-2.3	43° 15' 470'	686'
"			114	-5.5	47° 02' 537'	753'
"			145	-8.6	49° 45' 591'	807'
"			170	-11.1	52° 32' 652'	868'

Profile No. ____ Notes Red. [illegible] Plotted [illegible] Job No. ____ Division No. ____
X-Sec. No. ____ Date 8-10-60 Date 10-31-60 Survey of BEACH EROSION STUDIES
Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes [illegible] Date 7-27-60
Date 8-26-60 Date 11-1-60 Map No. ____ Indexed H. E. OTT Date ____

F. B. 1107 Pg. 21

F. B. 7807 Pg. 28 | 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 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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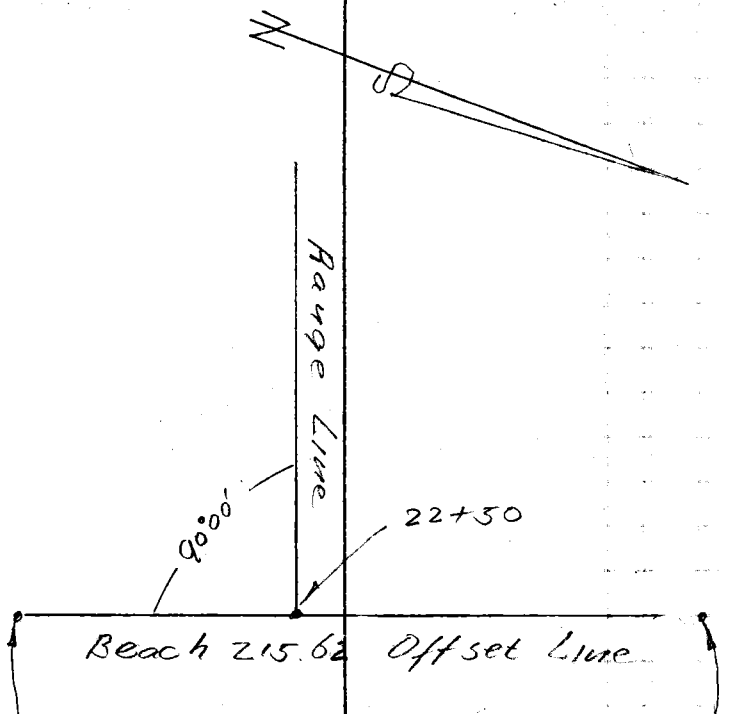
Do not extend notes this side of this line.

STATION		B.S.	H.I.	F.S.	ELEV.
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor.Ang.
		1		6 00	90° 00
		2			"
		3			"
		4			"
		5			"
		6			"
		7			"
		8			"
22+50	5-1'	9			"
		10			"
		11			"
		12			"
		13			"
		14			"
		15			"
		16			"
		17			"
		18			"
		19			"
		20			"

Remarks



Profile Notes Rod CWH Plotted CWH Job No. 03000 2 Division No. 11
No. Date 8-19-60 Date 10-31-60 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. JSH Checked JSH Survey by Phoenixville Notes Rehearsal Date 7-20-60
~~No. Date 8-26-60 Date 11-1-60 Map No.~~ ~~Indexed~~ H.E. OH ~~Date~~
F.B. 2807 Pg. 29

F.B. 2807 Pg. 30 | 030002

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

Survey of Beach Erosion Studies Date 8-19-60 Date 10-31-60 No. _____

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

Indexed H. E. Ott Date _____ Date 8-26-60 Date 11-1-60 No. _____

STATION	B.S.	H.I.	F.S.	ELEV	Remarks
Inst. At 22+50					
Sight On 5-1'					
	#	Depth Rec.	Adj.	Time	Hor. Ang.
	21				90°00'
	22				"
	23				"
	24			604	"

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76L-266 CE 307 11-58

76L-298 CE 307 11-58

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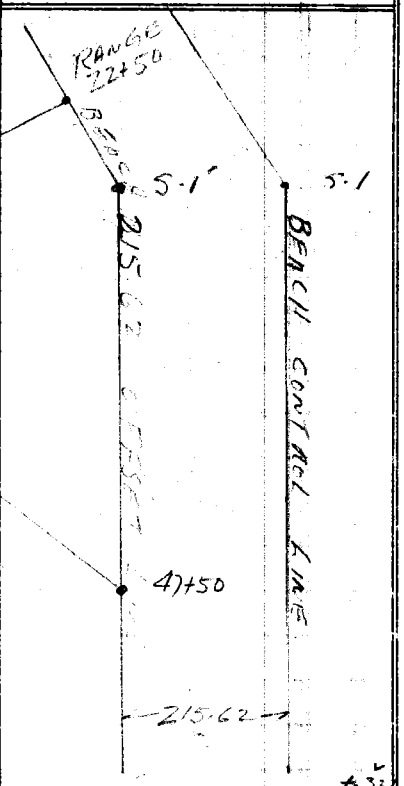
Profile No. ___ Notes Red CWH Plotted CWH Job No. 03000 02 Division No. 11 F.B. 2007
X-Sec. No. ___ Date 8-19-60 Date 10-31-60 Survey of BEACH EROSION STUDIES Pg. 31
Notes Chkd J.S.H. Checked J.S.H. Survey by HIGHT Notes SMITH Date 7-26-60
Date 8-26-60 Date 11-1-60 Map No. ___ Indexed H.E. Off Date ___

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.		ADJ DIST.	Remarks
47+50	S-1		29.0	29.0	6-00	40°-40'	2106'	2322'	
			27.0	27.0		38°-43'	1964'	2180'	
			26.6	26.6		36°-30'	1817'	2033'	
			25.8	25.8		34°-33'	1690'	1906'	
			25.2	25.2		32°-25'	1560'	1776'	
			24.8	24.8		30°-29'	1448'	1664'	
			23.9	23.9		28°-28'	1316'	1532'	
			23.5	23.5		26°-05'	1207'	1423'	
			23.0	23.0		24°-00'	1097'	1313'	
			21.9	21.9		22°-37'	1028'	1244'	
			21.0	20.8		21°-48'	988'	1204'	
			20.6	20.4		21°-02'	949'	1165'	
			19.3	19.1		20°-07'	904'	1120'	
			18.2	18.0		19°-39'	878'	1094'	
			17.8	17.6		19°-24'	853'	1069'	
			16.7	16.5		18°-16'	813'	1029'	
			15.5	15.3		17°-37'	783'	999'	
			14.9	14.7		16°-41'	739'	955'	
			13.5	13.3		16°-02'	708'	924'	
			12.5	12.3		15°-33'	685'	901'	



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

76L-298 CE 307 11-58

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F.B. 2807 Pg. 32 Job No. 0300 02 Division No. 11 Notes Red CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 8-19-60 Date 10-31-60 No. X-Sec.
Survey by Hydraulic Notes SMITH N Notes Chkd. J.S.H. Checked J.S.H. No.
Indexed R. E. Ott Date Date 8-26-60 Date 11-1-60 No.

STATION		B. S.	H. I.		F. S.	ELEV				
Inst. At	Sight On	#	Depth Rec.	Depth Adj.	Time	Hor. Ang.		ADJ DIST	Remarks	
47+50	5-1	21	11.9	11.7		14°34'	657'	873'		Tape = +.1
		22	10.8	10.6		14°10'	622'	838'		Boat = +1.0
		23	9.1	8.9		13°40'	599'	815'		Tide = -1.3
		24	7.8	7.6	6:24	13°11'	577'	793'		-.2

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 22+50	SIGHT ON 17+50
		16.92			215.62 OFF-SET	
		19.96	3.53	14.51	DATUM MEAN LOWER LOW WATER	17+50 INSHORE
17+50			1.2	18.8	CONTROL LINE	
			1.8	19.2	30' LT. FENCE FACE	
			4.0	16.0		100' RT. BEACH AREA
			5.0	15.0		197' RT. TOP BRK.
			7.3	12.7		220' RT. BTM. BRK.
			9.3	10.7		290' RT. TOP BRK.
T.P.			11.31	8.69		
	1.48	10.13				ADJ. DIST.
17+50			4.4	5.7	34° 05' 338'	554
T.P.	3.18	6.00	7.31	2.82	T.P.	
17+50			5.8	0.2	39° 26' 411'	627
"			8.8	-2.8	46° 05' 519'	735
"			11.2	-5.2	49° 00' 575'	791
"			16.0	-10.0	52° 07' 643'	859

Profile No. ____ Notes Red. CWH Plotted CWH Job No. ____ Division No. ____ F. B. 7807 Pg. 38
X-Sec. No. ____ Date 8-12-60 Date 10-31-60 Survey of BEACH EROSION STUDIES
Notes Chkd. ____ Checked ____ Survey by ____ Notes Taken ____ Date 7-29-60
Date 8-26-60 Date 11-1-60 Map No. ____ Indexed H. E. UTT Date ____

F. B. 2807 Pg. 34 | 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 Date Date Date No.

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

76L-298 S & E #307—1-56

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76L-388 CE 207 11-56

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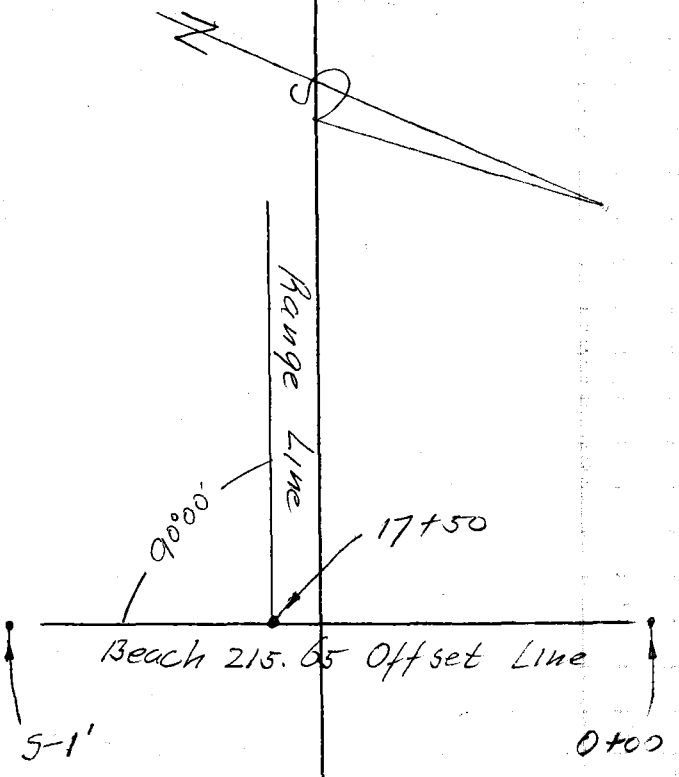
Profile Notes Red CWH Plotted CWH Job No. 030002 Division No. 11
No. Date 8-19-60 Date 10-31-60 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. JSH Checked JSH Survey by Harrier Notes Jackson Date 7-29-60
Date 8-26-60 Date 11-4-60 Map No. Inked by OR Date
F.B. 2807 Pg. 33

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



F.B. 2807 Pg. 36 | 0300.02

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

Survey of Beach Erosion Studies Date 8-1960 Date 10-31-60 No. _____

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

Indexed H. E. OTT Date _____ Date 8-26-60 Date 11-1-60 No. _____

76L-298 CE 307 11-58

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STATION	B. S.	H. I.	F S.	ELEV	Remarks
Inst. At 17+50					
Sight On 5-1'					
	# 21	Depth Rec.	Adj.	Time	Hor. Ang. 90° 00'
	22				"
	23				"
	24		5.16		"

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

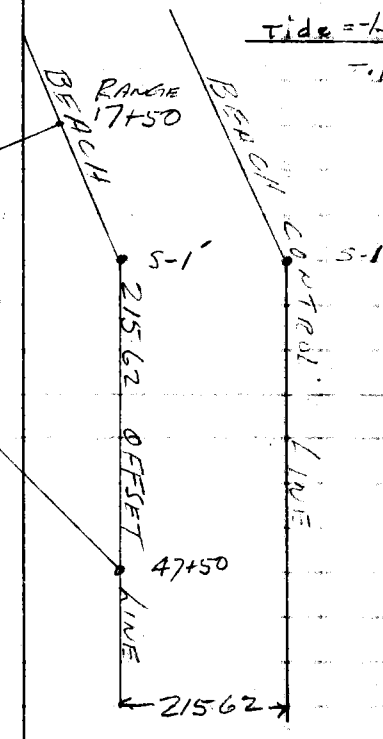
Do not extend notes this side of this line.

STATION		B.S.	H.I.		F.S.	ELEV.			
INST AT	SIGHT ON	#	DEPTH REC.	ADJ	TIME	HOR ANG			REMARKS
		1	28.3	28.2	6-12	37°-03'	2220'	2436'	
		2	27.4	27.3		35°-20'	2086'	2302'	
		3	27.4	27.3		33°-53'	1976'	2192'	
		4	26.4	26.3		32°-22'	1867'	2083'	
		5	25.7	25.6		30°-23'	1726'	1942'	
		6	24.7	24.6		28°-54'	1626'	1842'	
		7	24.3	24.2		27°-00'	1500'	1716'	
		8	23.7	23.6		25°-26'	1399'	1615'	
		9	23.5	23.4		24°-00'	1312'	1528'	
		10	22.5	22.4		22°-21'	1211'	1427'	
		11	21.9	21.8		20°-46'	1118'	1334'	
		12	20.2	20.1		19°-15'	1028'	1244'	
		13	19.5	19.4		18°-25'	980'	1196'	
		14	18.4	18.3		17°-30'	927'	1143'	
		15	17.3	17.2		17°-04'	902'	1118'	
		16	17.1	17.0		16°-31'	870'	1086'	
		17	16.6	16.5		15°-51'	832'	1048'	
		18	15.4	15.3		15°-17'	804'	1020'	
		19	14.7	14.6		14°-45'	772'	988'	
		20	13.9	13.8		14°-11'	742'	958'	

47+50

5-1'

Tape = +.2
Boat = +1.0
Tide = -1.3
-.1



Profile Notes Red CWH Plotted CWH Job No. 0300.02 Division No. 11
No. Date 8-19-60 Date 10-31-60 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. JSH Checked JSH Survey by HARRIET Notes SMITH Date 7-29-60
Date 8-26-60 Date 11-15-60 Map No. Indexed by OK Date

F.B. 2-207 Pg. 57

76L-298 CE 307 11-58

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F.B. 2807 Pg. 38 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted CWH Profile No.
Survey of BEACH EROSION STUDIES Date 8-19-60 Date 10-31-60 X-Sec. No.
Survey by WHARRIET Notes SM. TH N Notes Chkd. J.S.H. Checked J.S.H.
Indexed B.L. OTT Date Date 8-26-60 Date 11-1-60 No.

STATION	B.S.	H.I.	F.S.	ELEV			
Inst. At	Sight On	#	Depth Rec.	Depth Adj.	Time	Hor. Ang.	Remarks
47+50	S-1	21	13.0	12.9		13°43'	714' 930'
		22	11.5	11.4		13°15'	690' 906'
		23	10.4	10.3		12°42'	660' 876'
		24	9.7	9.6	6-16	12°12'	634' 850'

Tape = +.2
Boat = +1.0
Tide = -1.3
-.1

76L-298 S & E #307—1-56

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LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

5-1 9:00

STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 8+00	SIGHT ON 12+50
		19 96			215.62 OFF-set	12+50 INSHORE
T.P.	2 13	12 88	9 21	10 75	DATUM MEAN LOWER LOW WATER	
T.P.	4 53	17 20	0 21	12 67		
12+50			4 2	13 0	215.62-CONT ROL	LINE-OFFSET
			5 9	11 3		54° LT. BEACH AREA
			4 7	12 5		85° RT. BEACH AREA
			3 9	13 3		185° RT. BEACH AREA
			3 9	13 3		222 RT. TOP BER
			5 4	11 8		224 RT. BTM. BRK.
			5 4	11 8		285 RT. BEACH AREA
			5 2	12 0		320 RT. TOP BRK.
T.P. PROPOSED PRTY.			10 57	6 53	T.P.	
	015	6.68				ADJ. DIST.
12+50			1.0	~~4.7~~ 5.7	39° 48'	375' 591'
"			60	0.7	43° 52'	432' 648'
"			70	-0.3	46° 15'	470' 686'
"			81	-1.4	49° 05'	519' 735'
"			108	-4.1	52° 56'	596' 812'
"			140	-7.3	55° 53'	664' 880'
"			168	-10.1	59° 07'	752' 968'

Profile No. ____ Notes Red. CWH Plotted CWH Job No. ____ Division No. 11 F. B. 78[illegible] Pg. 30
X-Sec. No. ____ Date 8-12-60 Date 10-31-60 Survey of BEACH EROSION STUDIES
Notes Chkd. [illegible] Checked JSH Survey by [illegible] Notes [illegible] Date 7-29-60
Date 8-24-60 Date 11-1-60 Map No. ____ Indexed H. E. [illegible] Date

F. B. 2807 Pg. 40 | 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 | Notes Chkd. | Checked | X-Sec.

H. E. OTT

Indexed | Date | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.
12450		5.68		

76L-298 S & E #307—1-56

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76L-298 CE 307 11-58

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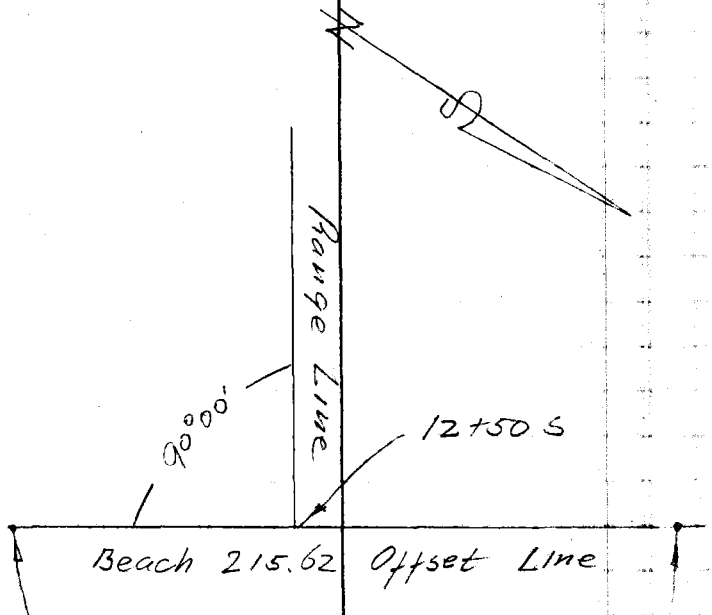
STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
		1			7.06	90° 00'	
		2				"	
		3				"	
		4				"	
		5				"	
		6				"	
		7				"	
12+50	5-1'	8				"	
		9				"	
		10				"	
		11				"	
		12				"	
		13				"	
		14				"	
		15				"	
		16				"	
		17				"	
		18				"	
		19				"	
		20				"	



Profile Notes Red CWH Plotted CWH Job No. 03000.02 Division No. 11
Date 8-19-60 Date 10-31-60 Survey of Beach Erosion Study Area
X-Sec. Notes Chkd. J.S.H. Checked J.S.H. Survey by Unknown Notes Date 7-26-60
No. Date 8-26-60 Date 11-1-60 Map No. Tracked Date
F.B. 2807 Pg. 41

F.B. 2807 Pg. 42 | 0300.02 Job No. | Division No. 11 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Studies | Date 8-19-60 | Date 10-31-60 | No.

Survey by Charriet | Notes Tee Boom | Notes Chkd. J.S.H | Checked J.S.H. | X-Sec.

Indexed H. E. OTT | Date | Date 8-26-60 | Date 11-1-60 | No.

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At 12+50	Sight On 5-1'				
		# Rec. 21	Adj.		
			Time 7:09	Hor. Ang. 90°00'	

76L-296 CE 307 11-58

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761-298 CE 307 11-58

R - 12+50

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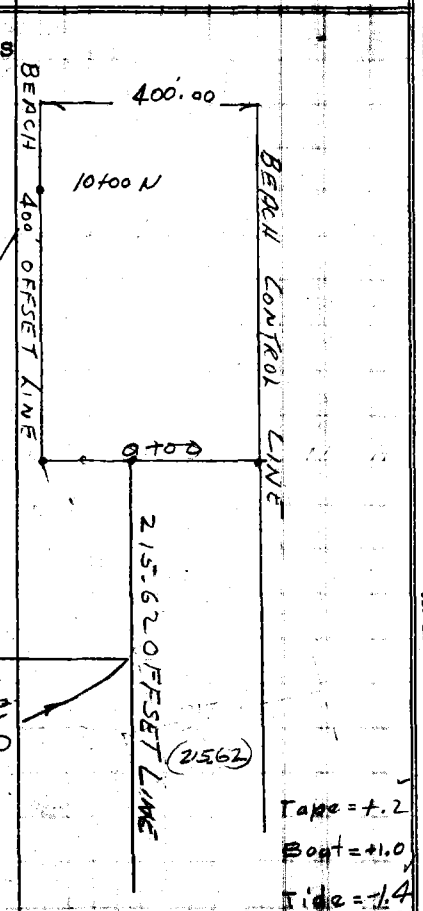
Profile No. X-Sec. Notes Red. CWH Plotted CWH Job No. 0300.02 Division No. 11 F.B. 2807
Date 8-19-60 Date 10-31-60 Survey of BEACH EROSION STUDIES Pg. 43
Notes Chkd. JSH Checked JSH Survey by CHARPA Notes SMITH Date 7-29-60
Date 8-26-60 Date 11-1-60 Map No. Index No. Sec.

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.		ADJ. DIST	Remarks
10+00 N	0+00	1	29.0	28.8	7-06	40°30'	1922	2,322	
		2	28.4	28.2		38°25'	1784	2,184	
		3	27.3	27.1					
		4	26.9	26.7					
		5	26.5	26.3		32°15'	1420	1,820	
		6	25.6	25.4		30°20'	1316	1,716	
		7	25.2	25.0		27°35'	1175	1,575	
		8	24.4	24.2		25°12'	1060	1,460	
		9	23.2	23.0		22°37'	938	1,338	
		10	22.2	22.0		21°15'	875	1,275	
		11	21.3	21.1		20°10'	826	1,226	
		12	20.4	20.2		19°11'	783	1,183	
		13	19.3	19.1		18°00'	731	1,131	
		14	17.4	17.2		17°03'	691	1,091	
		15	16.6	16.4		16°16'	657	1,057	RANGE 12+50
		16	15.5	15.3		15°25'	621	1,021	
		17	14.2	14.0		14°58'	601	1,001	
		18	14.1	13.9		14°27'	581	981	
		19	13.0	12.8		13°32'	542	942	
		20	11.1	10.9		13°07'	524	924	



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

76L-298 CE 307 11-58

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F.B. 2807 PG. 44 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 8-19-60 Date 10-31-60 No. X-Sec.
Survey by WHARFIET Notes 5-11 TH N Notes Chkd. J.S.H Checked J.S.H
Indexed H. E. OTT Date Date 8-26-60 Date 11-1-60 No.

STATION	B.S.	H.I.	F.S.	ELEV			
Inst. At / Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.		Adj. Dist.	Remarks
10+00 N	21	10.4 / 10.2	7-09	12.46	511	911	Tape = +.2 Boat = +1.0 Tide = -1.4 -.2

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. @ 12+50		SIGHT IN 8+00
		17 20			245.62 OFF-SET		8+00
T.P.	5 95	19 25	3 90	13 30			INSHORE
				16.8	NOTE: (ALL DISTS. TAKEN FROM STATION 12+50)		
			2 5	~~15.8~~	245.62 - CONT. COL LINE OFFSET		
				16.2	DATUM		
			3 1	~~15.2~~	MEAN LOWER LOW WATER		26° LT. BEACH AREA
			4 3	~~14.6~~ 13.8			85° RT. BEACH AREA
			4 5	~~13.6~~			185 RT. BEACH AREA
			6 5	~~12.8~~			245 RT. TOP BRK.
			8 4	~~11.4~~ 10.9			229 RT. BTM. BRK.
			8 1	~~12.2~~ 11.2			285 RT. BEACH AREA
			9 0	~~9.3~~ 10.3			307' RT. TOP BRK.
T.P.			11 72	7 53	T.P.		
FOR SUPPLEMENTARY	0 14	7 67					ADJ. DIST.
8+00			20	57		36° 39' 335'	551
T.P.	1 46	4.39	4.74	2.93	T.P.		
8+00			45	(-0.1)		41° 37' 400'	616
"			62	(-1.8)		46° 27' 473'	689
"			89	(-4.5)		49° 38' 529'	745
"			12.2	(-7.8)		51° 45' 571'	787
"			14.0	(-9.6)		52° 44' 591'	807
"			16.0	(-11.6)		55° 06' 645'	861

Profile Notes Red CWH Plotted CWH Job No. Division No. F. B. 1107 Pg. 41
No. X-Sec. Date 8-18-60 Date 10-31-60 Survey of Beach Erosion Studies
No. Notes Chkd. Checked Survey by Notes Date
Date 8-26-60 Date 11-1-60 Map No. Indexed H. & C.T. Date

F. B. 2807 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 J.C. GOODWIN | Notes Chkd. | Checked | X-Sec.

Indexed | Date | Date | Date | No.

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

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

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76L-298 S & E #307—1-56

76L-298 CE 307 11-56

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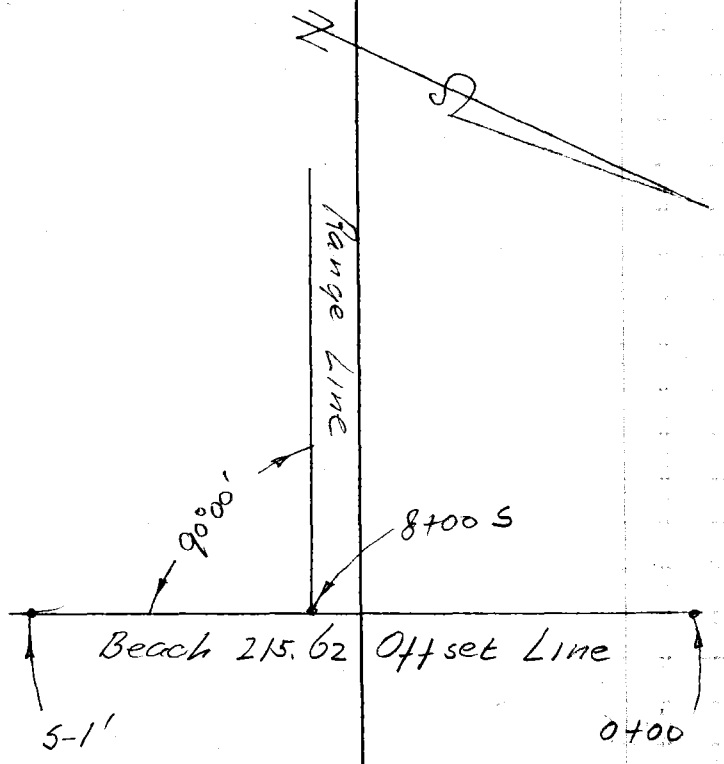
Do not extend notes this side of this line.

STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
		1		7:22	90°00'		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
8+00 S	5-1'	8			"		
		9			"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



Profile Notes Red C.W.H. Plotted C.W.H. Job No. 030002 Division No. 11 F.B. 2807 Pg. 47
No. X-Sec. Date 8-19-60 Date 10-31-60 Survey of Beach Erosion Studies
Notes Chkd. J.C.U. Checked J.C.U. Survey by Wharton Notes Terhune Date 7-29-60
Date 8-25-60 Date 11-1-60 Map No. Tracing H.B. Ott Date

F.B. 2807 Pg. 48 | 0300.02

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

Survey of Beach Erosion Studies Date 8-19-60 Date 10-31-60 No. _____

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

Indexed H. E. OTT Date _____ Date 8-26-60 Date 11-1-60 No. _____

STATION	B.S.	H.I.	F.S.	ELEV	Remarks
Inst. At	Sight On	# Rec.	Depth Adj.	Time	Hor. Ang.
	21			7:25	90°00'

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76L-298 CE 307 11-58

76L-298 CE 307 11-56

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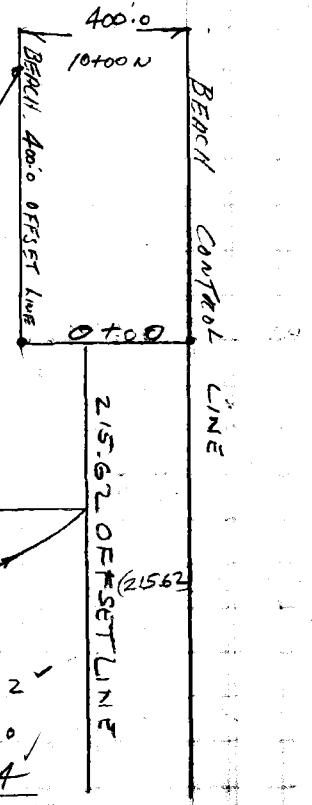
Profile No. ____ X-Sec. ____ Notes Red. CWH Plotted CWH Job No. 0300.02 Division No. 11 F.B. 2807 Pg. 49
Date 8-19-60 Date 10-31-60 Survey of BEACH EROSION STUDIES
Notes Chkd. JSH Checked JSH Survey by HARRIS Notes SMTM Date 7-29-60
Date 8-26-60 Date 11-1-60 Map No. M.E. 011

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.	ADJ. DIST.	Remarks
10+00 N	0+00	1	27.4	27.2	7-22	45°-53'	1856	2,256'
		2	27.2	27.0		44°-38'	1777	2,177'
		3	26.4	26.2		42°-10'	1631	2,031'
		4	26.2	26.0		40°-12'	1521	1,921'
		5	25.7	25.5		37°-50'	1399	1,799'
		6	25.3	251		34°-40'	1246	1,646'
		7	24.4	24.2		32°-14'	1136	1,536'
		8	23.9	23.7		29°-34'	1021	1,421'
		9	23.3	23.1		26°-46'	907	1,307'
		10	22.3	22.1		24°-40'	826	1,226'
		11	21.9	21.7		23°-14'	772	1,172'
		12	21.8	21.6		22°-11'	734	1,134'
		13	20.4	20.2		21°-11'	698	1,098'
		14	20.0	19.8		20°-26'	671	1,071'
		15	18.9	18.7		19°-30'	637	1,037'
		16	17.8	17.6		18°-51'	614	1,014'
		17	17.2	17.0		18°-05'	589	989'
		18	16.3	161		17°-15'	560	960'
		19	14.7	14.5		16°-25'	531	931'
		20	13.5	13.3		15°-35'	502	902'



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

F. B. 2807 Pg. 50 | Job No. 0300.02 | Division No. 11 | Notes Red CWH | Plotted CWH | Profile

Survey of BEACH EROSION STUDIES | Date 8-19-60 | Date 10-31-60 | No.

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

Indexed H. E. OTT | Date | Date 8-26-60 | Date 11-1-60 | No.

76L-298 CE 307 11-58

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STATION	B.S.	H.I.	F.S.	ELEV	Remarks
Inst. At 10+00 N	Sight On N-1A				
	# Rec. Adj. 21 12.2 120	Depth	Time 7-25	Hor. Ang. 14°58' 481	Adj. Dist 881

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

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	INST @ 8+00	SIGHT ON 4+00 S
		19 25			215.62 OFF-SET	4+00 S. INSHORE
T.P.	477	18 59	5 43	13 82	DATUM MEAN LOWER LOW WATER	
4+00 S.			3 9	14 7	2.48 CONTROL LINE	
			3 6	15 0	27' LT. BEACH AREA	
			4 9	13 7		100' RT. BEACH AREA
			4 1	14 2		200' RT. TOP BRK.
			6 7	11 9		218' RT. BT.M BRK.
			7 4	11 2		285' RT. TOP BRK.
T.P.			11 18	7 41		
	066	8.07				ADJ. DIST.
4+00 S			2.4	57	38° 54' 323'	539
T.P.	165	5.45	427	3.80	T.P.	
4+08 S			43	1.2	42° 26' 366'	582
"			61	-0.7	45° 44' 410'	626
"			75	-2.1	51° 06' 496'	712
"			114	-6.0	52° 46' 526'	742
			130	-7.6	54° 24' 559'	775
			165	-11.1	56° 39' 608'	324

Profile No. ____ Notes Red. CWH Plotted CWH Job No. ____ Division No. ____
X-Sec. No. ____ Date 8-18-60 Date 10-31-60 Survey of ____
Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date ____
Date 8-26-60 Date 11-1-60 Map No. ____ Indexed H. E. OTT Date ____

F. B. ____ Pg. 51

F. B. 7807 Pg. 52 | 0300-02

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

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

76L-298 S & E #307—1-56

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76L-298 CE 307 11-58

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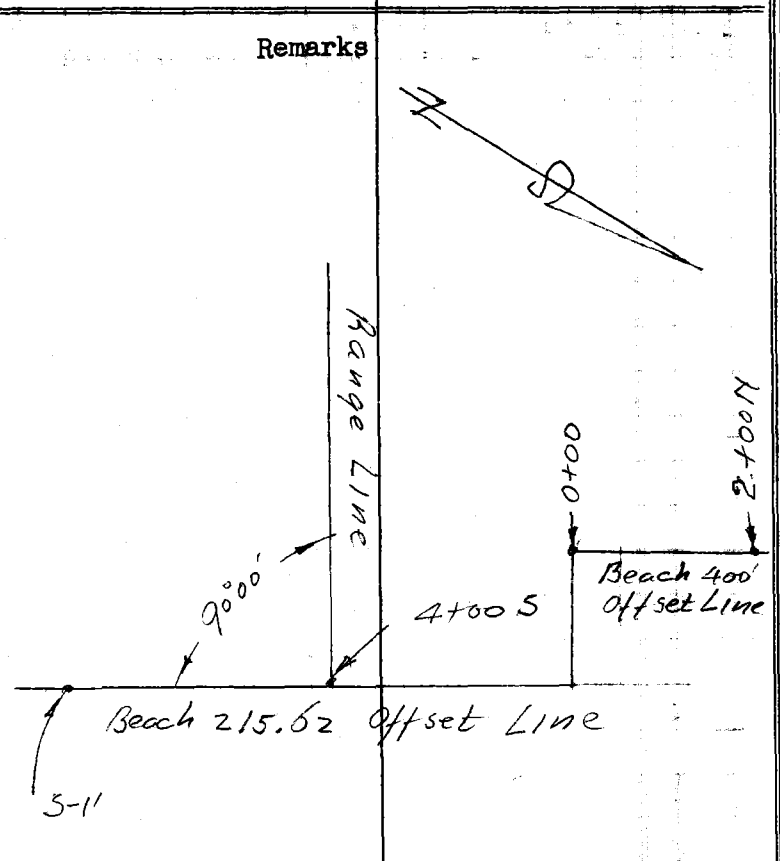
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red CWH Plotted CWH Job No. 0300.02 Division No. 4
Date 8-19-60 Date 10-31-60 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible] Date [illegible]
Date 8-24-60 Date 11-1-60 Map No. Date Date
F.B. 2807 Pg. 53

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
		1			7 36	90° 00'	
		2				"	
		3				"	
		4				"	
		5				"	
		6				"	
		7				"	
4+00 S	5-1'	8				"	
		9				"	
		10				"	
		11				"	
		12				"	
		13				"	
		14				"	
		15				"	
		16				"	
		17				"	
		18				"	
		19				"	
		20					



F.B. 2807 Pg. 54 | Job No. 0300.02 | Division No. 11 | Notes Red CWH | Plotted CWH | Profile

Survey of Beach Erosion Studies | Date 8-19-60 | Date 10-31-60 | No.

Survey by Uhorriet | Notes Tee boom | Notes Chkd. J.S.H. | Checked J.S.H | X-Sec.

Indexed H. E. Ott | Date | Date 8-26-60 | Date 11-1-60 | No.

STATION	B.S.	H.I.	F.S.	ELEV	Remarks
Inst. At 4+00 S					
Sight On 5-1'					
#	21 22 23				
Rec. Adj.					
Time			7 40		
Hor. Ang.				90° 00'	

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 CE 307 11-58

76L-296 CE 307 11-58

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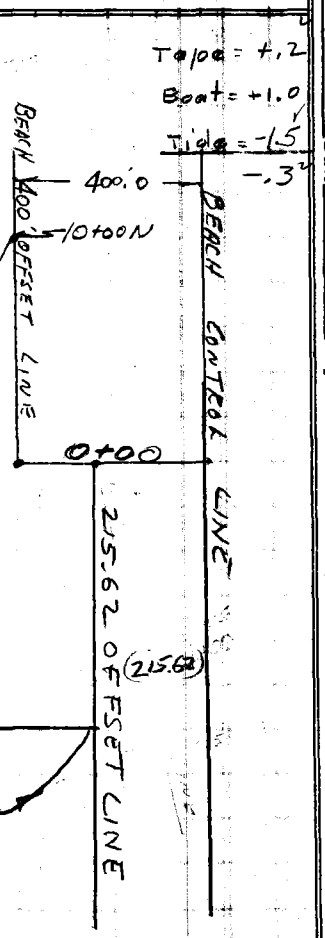
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED IN INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red CWH Plotted CWH Job No. 0300-02 Division No. 11
Date 8-19-60 Date 10-31-60 Survey of BEACH EXCESS STUDIES
X-Sec. Notes Chkd. JCH Checked JCH Survey by WHEELER Notes H. E. OTT Date 7-29-60
No. Date 8-26-60 Date 7-1-60 No. Traced Date
F.B. 2807 Pg. 55

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.		ADJ. DIST.	Remarks
10+00 N	0+00	1	27.9	27.6	7-36	54°-52'	1989	2,389'	
		2	27.3	27.0		52°-41'	1837	2,237'	
		3	26.4	26.1		50°-23'	1691	2,091'	
		4	26.1	25.8		47°-47'	1543	1,943'	
		5	25.7	25.4		45°-17'	1414	1,814'	
		6	25.3	25.0		42°-18'	1274	1,674'	
		7	24.5	24.2		38°-43'	1123	1,523'	
		8	23.7	23.4		35°-00'	980	1,380'	
		9	23.1	22.8		31°-50'	869	1,269'	
		10	22.0	21.7		28°-24'	757	1,157'	
		11	20.7	20.4		26°-11'	689	1,089'	
		12	19.1	18.8		24°-50'	648	1,048'	
		13	18.5	18.2		23°-38'	613	1,013'	
		14	17.0	16.7		22°-32'	581	981'	
		15	16.2	15.9		21°-34'	553	953'	
		16	15.2	14.9		20°-25'	521	921'	
		17	13.8	13.5		19°-33'	497	897'	
		18	12.7	12.4		18°-49'	477	877'	
		19	11.6	11.3		18°-12'	461	861'	
		20	11.0	10.7		17°-29'	441	841'	



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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F.B. 2867 Pg. 56 Job No. 0300.02 Division No. 11 Notes Red. CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 8-19-60 Date 10-31-60 No. X-Sec.
Survey by WHARFIT Notes SMITH M Notes Chkd. J.S.H. Checked J.S.H. No.
Indexed H. E. OTT Date Date 8-26-60 Date 11-1-60 No.

STATION		B. S.	H. I.		F. S.	ELEV				
Inst. At	Sight On	#	Depth Rec.	Depth Adj.	Time	Hor. Ang.		Adj. Dist.	Remarks	
		21	9.8	9.5		16°32'	416	816		Tape +.2
10+00	12-1A	22	8.4	8.1		15°51'	398	798		Boat = +1.0
		23	7.9	7.6	740	15°15'	382	782		Tide = -1.5
										-.3

76L-298 S & E #307—1-56

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Profile No. ____ Notes Red. CWH Plotted CWH Job No. ____ Division No. ____ F. B. 7407 Pg. 57
Date 8-19-60 Date 10-31-60 Survey of ____
X-Sec. No. ____ Notes Chkd. JSH Checked JSH Survey by ____ Notes ____ Date ____
Date 8-26-60 Date 11-1-60 Map No. ____ Entered M. & O.T.B. Date ____

STATION	B. S.	H. I.	F. S.	ELEV.	INS - D (215.62 OFF.) 4+00	SHOT ON (215.62 OFF) 0+00
		18.59			DATUM MEAN LOWER LOW WATER	0+00 INSHORE
	6.60	~~12~~ 12.85	5.34	13.25		
				15.4	NOTE: ALL DIST. TAKEN FROM MEAN LOW WATER	
0+00			4.5	~~14~~ 4	(400.00) CONTROL LINE - OFFSET	
				15.4		
			4.5	~~14~~ 4		200 Lt. BEACH AREA
			5.2	~~12~~ 7		100 Lt. BEACH AREA
				11.4		
			6.5	~~10~~ 4		100' RT. BTM. BLK.
			7.6	~~11~~ 3		200' RT. BEACH AREA
			6.8	~~12~~ 1		220' RT. TOP BLK.
			11.94	7.41 ~~6.91~~	T.P.	
T.P. FOR SWING DEPTH		9.12				ADJ. DIST.
	12.1	~~8~~ 12		6.7		
0+00		7.	2.4	~~7~~ 6.50	39° 58' 335'	551'
T.P.	0.67	~~8~~ 7.47	2.32	~~4~~ 7.80	T.P.	
0+00			4.9	~~7~~ 7.6	42° 55' 372'	588'
"			6.9	~~-0.4~~ 7.6	46° 34' 422'	638'
"			9.5	~~-2.0~~ 8	-2.0 51' 12' 498'	714'
"			13.2	~~-4.7~~ 7	-5.7 54° 34' 562'	778'
"			17.5	~~-11.0~~	56° 57' 615'	881'
				-10.0		

76L-298 S & E #307—1-56

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F. B. 2807 Pg. 58 Job No. 0300.02 Division No. 11 Notes Red J.S.H. Plotted J.S.H. Date 11-1-60 No. Profile
Survey of Beach Erosion Study Date 11-1-60 Notes Chkd. C.W.H. Checked C.W.H. Date 11-1-60 No. X-Sec.
Survey by Steck Notes Stack Date
Indexed H.E.C.

STATION	B. S.	H. I.	F. S.	ELEV.		
BM. 27-4	0 70	27 95		27 25	B.M. 27-4 EL = 27.253	Per. F.B. 2100-167
T. P.	2 62	19 02	11 55	16 40		0+00
						Inshore
Stadia Test Profile of 0+00 Section					Inst. @ 2+15.62	
0+00			+9 0	28 0	Old Control	
1+00			+0 1	19 1	Beach slope down	
2+15.62			4 7	14 3	2+15.62 Control line	
3+00			5 3	13 7	Low spot	
4+00			5 0	14 0	Top hump & @ 400' Control	
4+65			8 2	10 8	Brk	
T. P.	4 7	18 7	5 0	14 0	T.P. on 4+00 Inst. moved ahead to 4+00	
5+05			6 5	12 2	Top break	
5+40			12 4	6 3		

76L-298 CE 307 11-58

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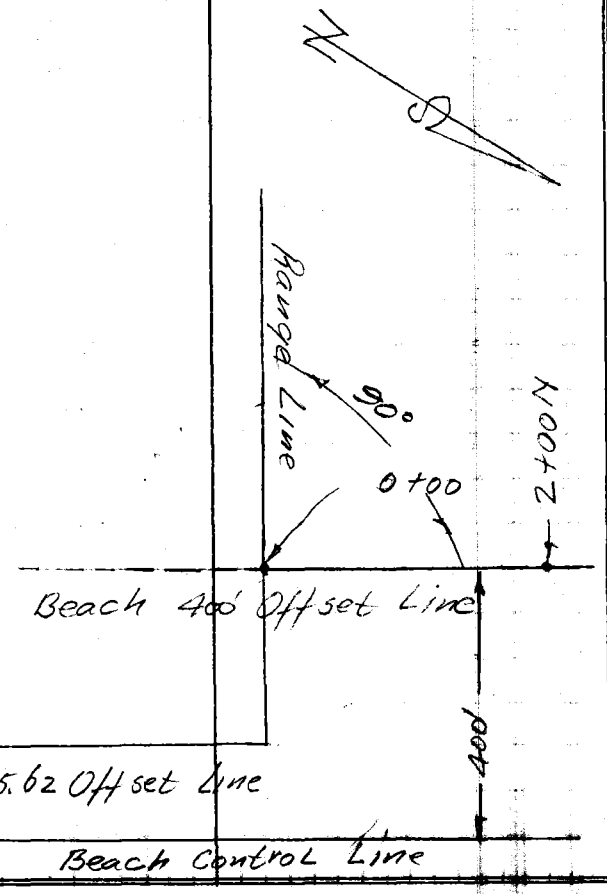
Profile Notes Red CWH Plotted CWH Job No. Division No. 11
Date 8-19-60 Date 10-31-60 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. JSH Checked JSH Survey by Unknown Notes Checked Date 7-29-60
No. Date 8-26-60 Date 11-1-60 Map No. Issue No. 1 Date Sub.

0500.02

F.B. 2807 Pg. 55

STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
		1		750	90° 00'		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
	N 00+72	7			"		
0+00		8			"		
		9			"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



F.B. 2807 Pg. 60 | 030a02

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

Survey of Beach Erosion Studies Date 8-19-60 Date 10-31-60 No. ____

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

Indexed ____ Date ____ Date 8-26-60 Date 11-1-60 No. ____

STATION	B.S.	H.I.	F.S.	ELEV	Remarks
Inst. At 0+00					
Sight On 2+00N					
#	Depth Rec.	Adj.	Time	Hor. Ang.	
21			7 54	90° 00'	
22			8 04	"	
23				"	
24				"	
25				"	
26				"	
27				"	
28				"	
29				"	
30				"	
31			8 05	"	

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76L-298 CE 307 11-58

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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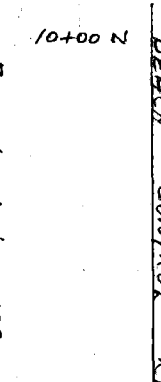
Profile Notes Red CHH Plotted CHH Job No. 0300.02 Division No. 11 F.B. 2907
No. Date 8-18-60 Date 10-31-60 Survey of BEACH ERosion STUDIES Pg. 61
X-Sec. Notes Chkd. JSH Checked JSH Survey by UHAPCHT Notes SA1,74,K Date 7-29-60

STATION		B. S.	H. I.	F. S.	ELEV.			
INST AT.	SIGHT ON	#	DEPTH REC. ADJ.	TIME	HOR. ANG		ADJ. DIST.	REMARKS
		1	28.8 28.3	7-50	63°-33'	2010	2,410'	
		2	27.4 26.9		61-00'	1804	2,204'	
		3	26.2 25.7		58°-49'	1652	2,052'	
		4	26.2 25.7		56°-57'	1537	1,937'	
10+00 N	0+00	5	25.3 24.8		53°-45'	1364	1,764'	
		6	24.8 24.3		51°-39'	1264	1,664'	
		7	24.7 24.2		48°-51'	1144	1,544'	
		8	23.8 23.3		45°-58'	1034	1,434'	
		9	23.1 22.6		43°-16'	941	1,341'	
		10	22.3 21.8		40°-45'	862	1,262'	
		11	21.9 21.4		38°-17'	789	1,189'	
		12	21.2 20.7		36°-02'	727	1,127'	
		13	19.8 19.3		34°-29'	687	1,087'	
		14	19.0 18.5		32°-45'	643	1,043'	
		15	18.4 17.9		31°-27'	612	1,012'	
		16	16.7 16.2		29°-56'	576	976'	
		17	16.0 15.5		29°-10'	558	958'	
		18	15.7 15.2		28°-25'	541	941'	
		19	14.9 14.4		-			
		20	14.4 13.9		26-10	491	891'	



Tape = +1.1
Boat = +1.0
Tide = -1.6
-.5

F.B. 2807 Pg. 62 | Job No. 0300.02 | Division No. 11 | Notes Red CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES | Date 8-19-60 Date 10-3-60 No. X-Sec.
Survey by UHARCHET Notes SMITH N | Notes Chkd. J.S.H. Checked J.S.H
Indexed H. E. OH Date | Date 8-26-60 Date 11-1-60 No.

*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.		Adj Dist.	Remarks	
10400 N	0700	21	12.8	12.2	7-54	25°-30'	477	877'		Tape +.1
		22	19.9	19.3	8-04	34°-02'	675	1,075'		Boat = +1.0
		23	18.1	17.5		31°-22'	610	1,010'		Tide = -1.7
		24	17.2	16.6		29°-53'	575	975'		-.6
		25	15.5	14.9		28°-02'	532	932'		
		26	14.6	14.0		26°-50'	508	908'		
		27	13.4	12.8		25°-38'	480	880'		
		28	12.0	11.4		24°-15'	450	850'		
		29	10.1	9.5		22°-52'	422	822'		
		30	8.2	7.6		21°-30'	394	794'		
		31	6.9	6.3	8-05	20°-40'	377	777'		

76L-298 S & E #307—1-56

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11-14

STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ (400 OFF) 0+00			SIGHT ON 400.00 OFF 2+00 N.
		19.85 ~~8.45~~		14.84	DATUM MEAN LOWER LOW WATER			2+00 N INSHORE
T.P.	3.05	~~14.70~~	5.01	~~13.84~~				
			4.3	14.4 ~~13.4~~	400' - CONTROL LINE - OFFSET			
			2.3	16.4 ~~15.4~~	200 Rt. BEACH AREA			
			4.9	~~12.8~~ 13.8	100 Rt. BEACH AREA			
			4.3	14.4 ~~13.4~~				20' Lt. TOP BRK.
			6.9	11.5 ~~10.5~~				64 Lt. BTM. BRK.
			6.1	12.9 ~~11.9~~				100' Lt. BEACH AREA
			5.7	13.0 ~~12.0~~				122' Lt. TOP BRK.
T.P. FOR NEW PRTY.		9.44 ~~8.44~~	10.42	8.28 ~~7.28~~	T.P.			
	1.16			6.7				
2+00 N.		8.04 ~~7.04~~	2.7	~~5.7~~ ~~5.72~~				ADJ. DIST.
	2.32		3.72	~~4.72~~	TP			
2+00 N.			6.5	~~0.5~~	+1.5	46° 41'	212'	612'
"			7.6	~~1.4~~	+.4	52° 21'	259'	659'
"			9.6	~~2.5~~	-1.6	57° 08'	310'	710'
"			12.0	~~4.9~~	-4.0	60° 07'	348'	748'
"			15.5	~~8.4~~	-7.5	63° 10'	395'	795'

Profile No. ____ Notes Red. CWH Plotted CWH Job No. ____ Division No. ____ F. B. 7 Pg. 62
X-Sec. No. ____ Date 8-18-60 Date 10-31-60 Survey of ____
Notes Chkd. JSH Checked JSH Survey by ____ Notes ____ Date ____
Date 8-26-60 Date 11-1-60 Map No. ____ Indexed H. & O. Date ____

F. B. 2807 Pg. 64 0302.02

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

Survey of BEACH EROSION STUDIES Date 8-19-60 Date 10-31-60 No.

Survey by AND Notes J. C. GOODWIN Notes Chkd. JSH Checked JSH X-Sec.

Indexed H. E. OTT Date Date 8-26-60 Date 11-1-60 No.

STATION	B. S.	H. I.	F. S.	ELEV.	
2+00		6.04	17.0	-9.9	TP 0+00 (400 OFF)
					64.35 421
					SIGN ON 2+00 (400 OFF) 821.1

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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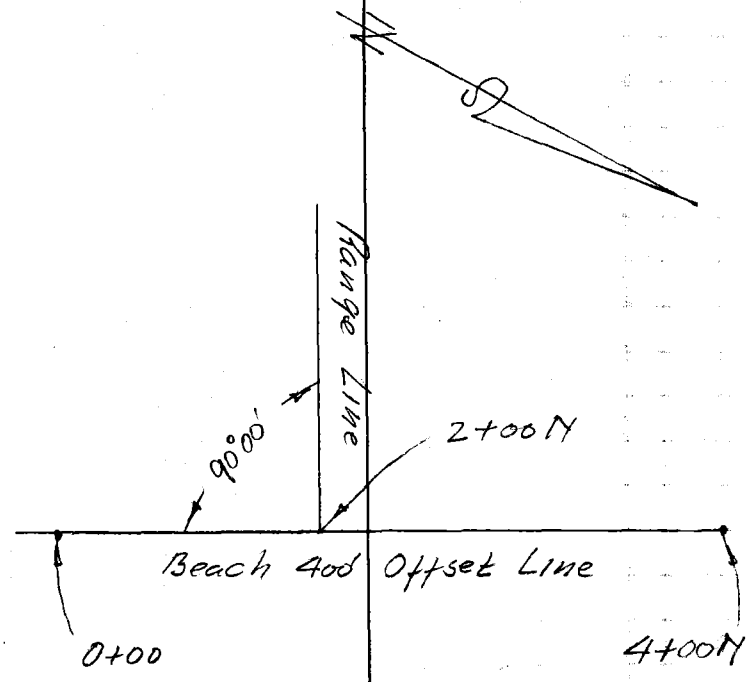
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
		1		8 15	90°00'	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
		8			"	
2+00N	0+00	9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	
		19			"	
		20			"	



Profile No. X-Sec. No. Notes Red CWH Plotted CWH Job No. Division No. 11
Date 8-19-60 Date 10-31-60 Survey of Beach Erosion Studies
Notes Chkd. JSH Checked JSH Survey by Howard Notes Returned Date 7-29-60
Date 8-26-60 Date 11-1-60 Map No.

0300.02

F.B. 2807 Pg. 65

F.B. 2807 Pg. 66 | Job No. 0300.02 | Division No. 11 | Notes Red CWH | Plotted CWH | Profile

Survey of Beach Erosion studies | Date 8-19-60 | Date 10-31-60 | No.

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

Indexed [redacted] OTT | Date | Date 8-26-60 | Date 11-1-60 | No.

STATION	B.S.	H.I.	F.S.	ELEV	Remarks
Inst. At 2+00 N					
Sight On 0+00					
# 21					
Depth Rec. Adj.					
Time 8 18					
Hor. Ang. 90° 00'					

Do not extend notes this side of this line.

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L-206 CE 307 11-58

76L-298 CE 307 11-58

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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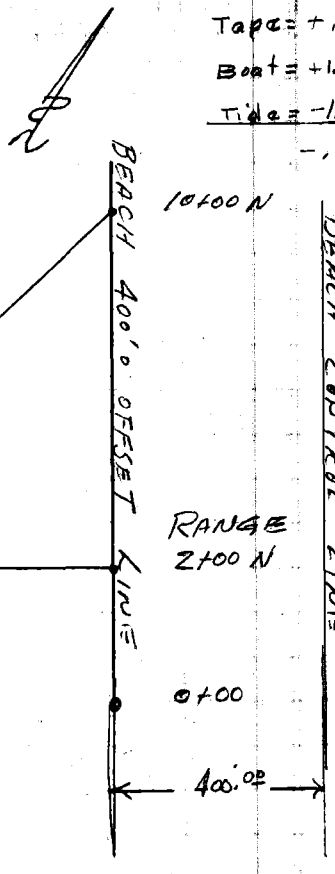
Do not extend notes this side of this line.

Profile No. X-Sec. No. Notes Red. CWH Plotted CWH Job No. 0300.02 Division No. 11
Date 8-19-60 Date 10-31-60 Survey of BEACH EROSION STUDIES
Notes Chkd. JSH Checked J.S.H. Survey by WHITPIET Notes CWH Date 7-29-60
Date 8-26-60 Date 11-1-60 Map No. Indexed by OK Date
F.B. 2807 Pg. 67

STATION Inst. At	Sight On	B.S.	H.I. #	Depth Rec.	Depth Adj.	F.S.	Time	ELEV. Hor. Ang.		ADJ. DIST.	Remarks
N 10+00	0+00		1	27.9	27.2		8-15	69°-22'	2,125	2,525	
			2	27.9	27.2			67°-20'	1,916	2,316	
			3	26.4	25.7			64°-55'	1,709	2,109	
			4	25.8	25.1			62°-21'	1,527	1,927	
			5	25.3	24.6			59°-30'	1,358	1,758	
			6	24.9	24.2			56°-49'	1,223	1,623	
			7	23.9	23.2			53°-23'	1,077	1,477	
			8	23.1	22.4			49°-04'	922	1,322	
			9	22.1	21.4			45°-09'	804	1,204	
			10	20.5	19.8			41°-55'	718	1,118	
			11	19.5	18.8			39°-28'	658	1,058	
			12	17.8	17.1			37°-25'	612	1,012	
			13	17.5	16.8			35°-48'	577	977	
			14	15.9	15.2			34°-05'	542	942	
			15	14.9	14.2			32°-49'	516	916	
			16	14.1	13.4			31°-48'	496	896	
			17	13.5	12.8			30°-18'	467	867	
			18	11.4	10.7			29°-02'	444	844	
			19	9.5	8.8			27°-28'	416	816	
			20	8.0	7.3			26°-48'	404	804	

Tape = +.2
Boat = +1.0
Tide = -1.9
-.7



F. B. 2807 PG. 68 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted CWH Profile

Survey of BEACH EROSION STUDIES Date 8-19-60 Date 10-31-60 No.

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

Indexed H. E. OTT Date Date 8-26-60 Date 11-1-60 No.

76L-298 CE 307 11-58

PLEASE RETURN TO
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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV	Inst. At	Sight On	Depth # Rec.	Adj.	Time	Hor. Ang.	Adj. Dist.	Remarks
					10+00 N							
						0+00						
							21	7.1	6.4	8-18	25°15'	378 ✓ 778 ✓

Tape = +.2
Boat = +1.0
Tide = -1.9 ✓
-.7 ✓

76L-298 S & E #307—1-56

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Do not extend notes this side of this line.

N-1A

STATION	B. S.	H. I.	F. B.	ELEV.				
		~~18.70~~			INSTD 400 OFF 3+00			SIGHT ON 4+00
		~~17.70~~						
	4 02	17.92 ~~16.92~~	4 00	13.9 ~~12.90~~		(400 OFF-SET)		4+00N INSHORE
						DATUM MEAN LOWER LOW WATER		
4+00N.			4 3	13.6 ~~12.6~~		40'-CONTROL LINE OFFSET		
			4 5	13.4 ~~12.4~~				100' Rt. SEAL AREA
			4 2	13.7 ~~12.7~~				200 Rt. SEAL AREA
			4 3	13.6 ~~12.6~~				
			4 4	13.5 ~~12.5~~				43' Lt. TOP BKK.
			5 8	12.1 ~~11.1~~				80' Lt. TOP BKK.
			5 7	12.2 ~~11.2~~				100' Lt. SEAL AREA
			5 4	12.5 ~~11.5~~				125' Lt. TOP BKK.
		8.04 ~~7.04~~	10 02	7.90 ~~6.90~~	T.P.			ADJ. DIST.
T.P. 4+00-N.	0 14		13	5.7		22° 30'	166'	566'
"			59	2.1 ~~1.1~~		28° 15'	215'	615'
"			79	~~0.9~~	+.1	34° 07'	271'	671'
"			9.2	~~-.2~~	-1.2	38° 40'	320'	720'
"			13.1	~~-4.1~~	-5.1	43° 36'	381'	781'
"			17.5	~~-8.5~~	-9.5	48° 06'	446'	846'

Profile Notes Red CWH Plotted CWH Job No. Division No.
No. X-Sec. Date 8-19-60 Date 10-31-60 Survey of
Notes Chkd. JSH Checked JSH Survey by Notes Date
No. Date 8-26-60 Date 11-1-60 Map No. Indexed B. F. JIT Date
F. B. Pg. 7

F. B. 2807 Pg. 70 | 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 Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

STATION	S. 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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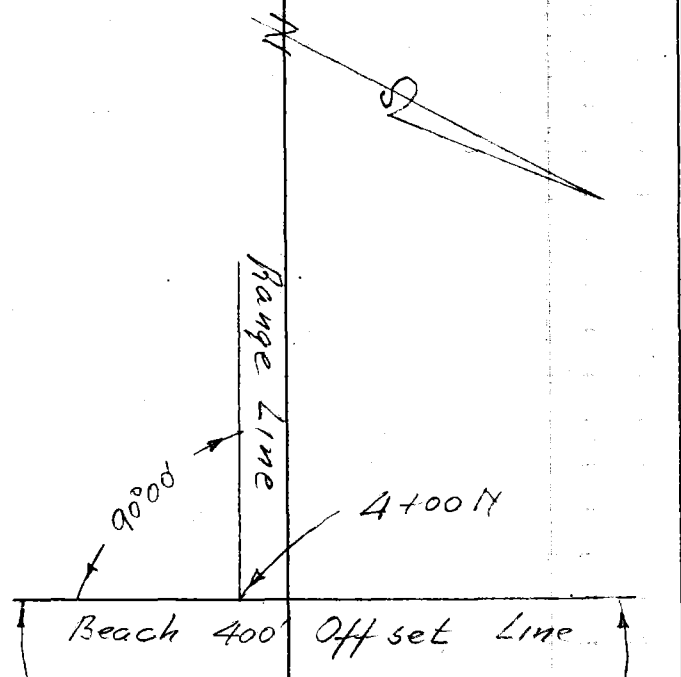
Do not extend notes this side of this line.

Profile No. ____ X-Sec. ____ Notes Red. CWH Plotted CWH Job No. ____ Division No. 11 F.B. 280'
Date 8-19-60 Date 10-31-60 Survey of 1 Beach Erosion Study Pg. 7
Notes Chkd. JSH Checked JSH Survey by Warring Notes Tobert Date 7-29-60
Date 8-26-60 Date 11-1-60 Map No. ____ Indexed ____ Date ____

0300.02

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
4+00 N	0+00	1		8 34	90° 00'	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
		8			"	
		9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	
		19			"	
		20			"	



F.B. 2807 Pg. 72 | Job No. 0300.02 | Division No. 11 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Studies | Date 8-19-60 | Date 10-31-60 | No.

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

Indexed H. E. OTT | Date | Date 8-26-60 | Date 11-1-60 | No.

STATION	B.S.	H.I.	F.S.	ELEV	Remarks
Inst. At 4+00 N					
Sight On 0+00					
# Rec. Adj.	21				
Time			837		
Hor. Ang.			90°00'		

761-298 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.

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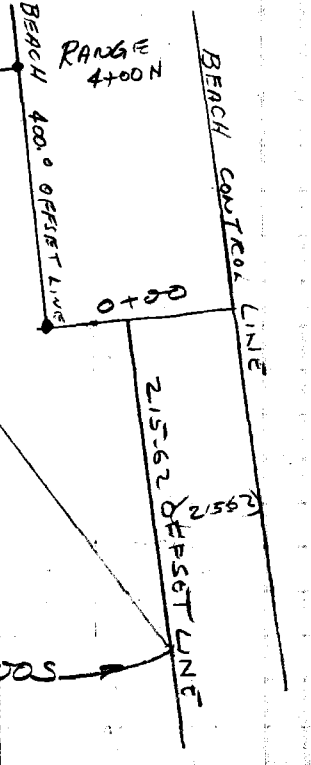
Profile No. ____ X-Sec. No. ____ Notes Red. CWH Plotted CWH Job No. 63002 Division No. 11 F.B. 2807 Pg. 73
Date 8-19-60 Date 10-31-60 Survey of BEACH EROSION STUDIES
Notes Chkd. JSH Checked JSH Survey by CHARPENTIER Notes EMOTT Date 7-29-60
Date 8-22-60 Date 11-1-60 Map No. ____ Interest ____ Date ____

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.		ADJ. DIST.	Remarks
		1	28.3	27.3	8-34	69°-57'	2192	2,408'	
		2	26.9	25.9		67°-37'	1942	2,158'	
		3	26.3	25.3		65°-32'	1758	1,974'	
		4	24.8	23.8		63°-07'	1578	1,794'	
		5	24.2	23.2		60°-57'	1440	1,656'	
		6	23.7	22.7		58°-20'	1297	1,513'	
	0+00	7	23.2	22.2		55°-28'	1162	1,378'	
		8	22.2	21.2		52°-16'	1034	1,250'	
		9	22.0	21.0		50°-54'	985	1,201'	
		10	21.9	20.9		49°-24'	934	1,150'	
		11	20.6	19.6		48°-02'	890	1,106'	
		12	19.5	18.5		46°-40'	848	1,064'	
		13	18.3	17.3		45°-53'	825	1,041'	
		14	18.1	17.1		44°-41'	791	1,007'	
		15	17.0	16.0		43°-28'	758	974'	
		16	15.9	14.9		42°-46'	740	956'	
		17	15.8	14.8		41°-43'	713	929'	
		18	14.3	13.3		40°-24'	681	897'	4+00S
		19	12.5	11.5		39°-31'	660	876'	
		20	11.7	10.7		38°-53'	645	861'	

Tapa = +1.1
Boat = +1.0
Tide = -2.1
-1.0



76L-298 CE 307 11-58

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F.B. 2807 Pg. 74 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 8-19-60 Date 10-31-60 No. X-Sec.
Survey by MARCIET Notes SOUTH Notes Chkd. JSH Checked JSH
Indexed H. E. OFF Date Date 8-26-60 Date 11-1-60 No.

STATION		B.S.	H.I.		F.S.	ELEV				
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Adj Dist.	Remarks	
4+00S	0+00	21	10.8'	9.8'	837	38°03'	626'	842'		Tape = +1 Boat = +1.0 Tide = -2.1 -1.0'

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.			
		17.92			INST @ 200.00 OFFSET 0+00		SIGHT ON 5+90 N.
					DATUM MEAN LOWER LOW WATER		5+80 N. INSHORE
5+90 N.				13.3			
			46	14.5	400' OFFSET		LINE
			34	16.1			100' N.
			12				200' N.
			49	13.0	26' L.	BRK	
			14	11.5	40' L.	BRK	
			28	11.1	100' L.		
			57	12.2	140' L.	Top. BRK	
		8.81					
T.P.	0.65		976	8.16			ADJ. DIST.
			68	2.0	22° 18'	238'	638'
			92	0.4	25° 15'	274'	674'
			110	-2.2	30° 44'	358'	758'
			152	6.8	34° 25'	397'	797'
			160	6.2	37° 33'	447'	847'
			172	8.4	39° 02'	470'	870'

Profile Notes Red CWH Plotted CWH Job No. [illegible] Division No. [illegible]
No. X-Sec. Date 8-18-60 Date 10-31-60 Survey of [illegible]
Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes Date [illegible]
No. Date 8-26-60 Date 11-1-60 Map No. Indexed M. E. OTT Date

F. B. 1807 Pg. [illegible]

F. B. 2307 Pg. 76 Job No. 032-02 Division No. 1 Notes Red. _____ Plotted _____ Profile

Survey of [illegible] Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L-298 S & E #307—1-56

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76L-298 CE 307 11-58

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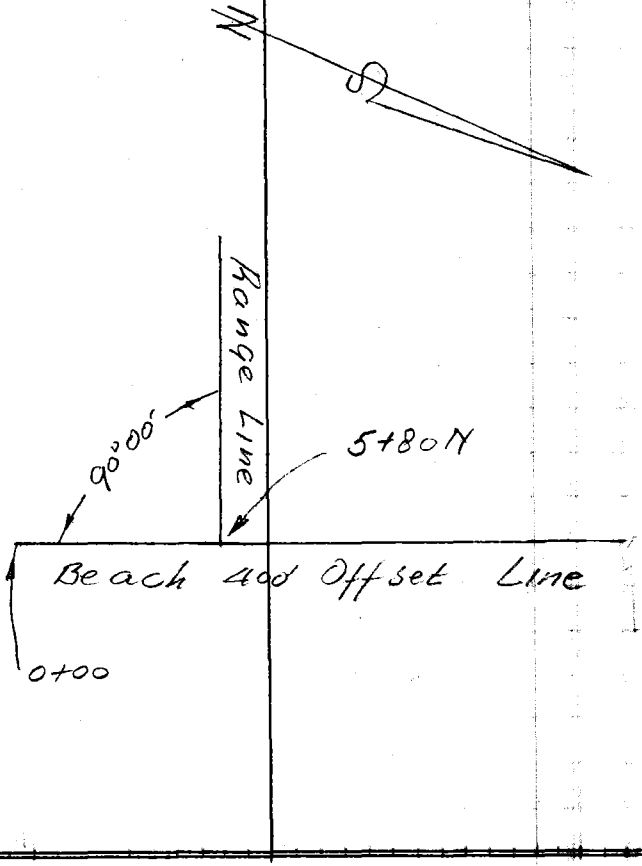
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK. WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile No. X-Sec. No. Notes Red CWH Plotted CWH Job No. 03000 02 Division No. 11 F.B. 2807 Pg. 77
Date 8-19-60 Date 10-31-60 Survey of Beach Erosion Studies
Notes Chkd. JSH Checked JSH Survey by [illegible] Notes Terrance Date 7-14-60
No. Date 8-26-60 Date 11-1-60 Map No. Tracing Date Date

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
		1		8 46	90°00'	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
5+80 N	0+00	8			"	
		9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	
		19			"	
		20			"	



F. B. 2807 Pg. 78 | 0300.02 Job No. | Division No. 11 | Notes Red CWH | Plotted CWH | Profile

Survey of Beach Erosion Studies | Date 8-19-60 | Date 10-31-60 | No. | X-Sec.

Survey by Charriet H. E. Ott | Notes Teeboom | Notes Chkd. JSH | Checked JSH

Indexed | Date | Date 8-26-60 | Date 11-1-60 | No.

STATION	B. S.	H. I.	F. S.	ELEV	Remarks
Inst. At 5+80					
Sight On 0+00					
	# 21	Depth Rec.	Adj.	Time	Hor. Ang.
	22				90°00'
	23			849	"
					"

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76L-296 CE 307 11-58

76L-298 CE 307 11-58

5+00

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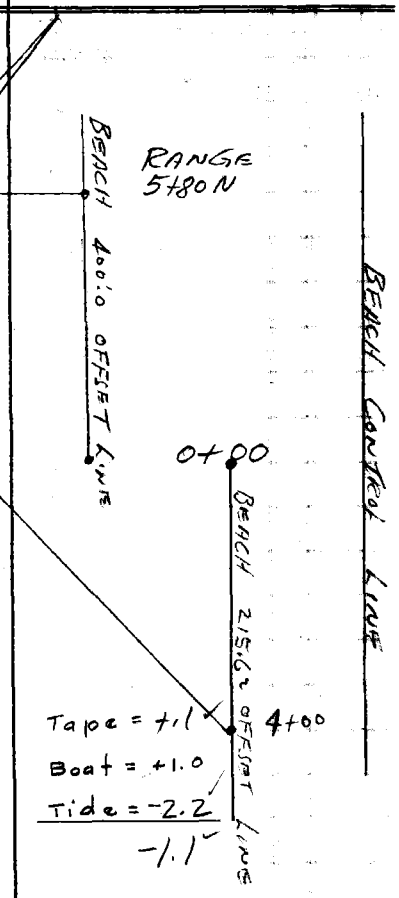
Profile No. ____ X-Sec. ____ Notes Red CWH Plotted CWH Job No. 0300.02 Division No. 11
Date 8-18-60 Date 10-31-60 Survey of BEACH EROSION STUDIES
Notes Chkd. JSH Checked JSH Survey by CHARPIET Notes SMITH Date 7-29-60
Date 8-26-60 Date 11-1-60 Map No. ____ Indexed ____ Date ____ H. E. OH

F.B. 2807 Page ____

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.	ADJ. DIST.	Remarks
4+00	0+00	1	27.7	26.6	8-46	64°-57'	2097	2,313'
		2	27.3	26.2		63°-24'	1957	2,173'
		3	26.6	25.5		61°-41'	1819	2,035'
		4	25.9	24.8		59°-44'	1680	1,896'
		5	25.6	24.5		58°-13'	1582	1,798'
		6	24.4	23.3		55°-40'	1435	1,651'
		7	24.1	23.0		53°-23'	1319	1,535'
		8	23.5	22.4		50°-53'	1205	1,421'
		9	23.2	22.1		49°-00'	1127	1,343'
		10	22.9	21.8		47°-30'	1069	1,285'
		11	22.3	21.2		45°-46'	1006	1,222'
		12	21.8	20.7		44°-09'	952	1,168'
		13	21.0	19.9		42°-29'	898	1,114'
		14	20.0	18.9		41°-03'	854	1,070'
		15	18.9	17.8		39°-53'	819	1,035'
		16	17.6	16.5		38°-31'	780	996'
		17	16.3	15.2		37°-31'	753	969'
		18	15.5	14.4		36-32	726	942'
		19	14.6	13.5		35-38	703	919'
		20	12.7	11.6		34°-34'	675	891'



F.B. 2807 Pg. 80 Job No. 0300-02 Division No. 11 Notes Red CWH Plotted CWH Profile

Survey of BEACH EROSION STUDIES Date 8-19-60 Date 10-31-60 No.

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

Indexed H. E. OTT Date Date 8-26-60 Date 11-1-60 No.

76L-288 CE 307 11-58

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Do not extend notes this side of this line.

STATION	Inst. At	Sight On	B.S.	#	Depth Rec.	Depth Adj.	H.I.	Time	F.S.	Hor. Ang.	ELEV	Adj. Dist.	Remarks
	4+005	0+00		21	10.7	9.6				33°38'		652	
				22	8.7	7.6				32°40'		628	
				23	6.7	5.6		8-49		31°46'		607	

Adj. Dist. 868' 844' 823'

Tide = +1.1
Boat = +1.0
Tide = -2.2
-1.1

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.			
		17.92 ~~16.94~~			INST. @ 400 OFF 6+00		6+20 H.
					DATUM MEAN LOWER LOW WATER		6+20 H. INSHORE
6+20° H.			20	13.9 ~~12.9~~ 14.0	400' OFFSET LINE		
			33	~~14.6~~		100' RT	
			10	16.9		200' RT	
			47	13.2 ~~12.2~~	160° LT		
		10.19	52	12.7 ~~11.7~~	1850 LT TOP BRK		
TR 802 Invert Entry	1.37	~~9.19~~	9.16	8.82 ~~7.82~~			
				7.4		Adj Dist	
			23	~~6.4~~	19° 53'	224' ✓	624' ✓
			55	4.7 ~~3.7~~	21° 23'	244' ✓	644' ✓
			87	1.3 ~~0.3~~	24° 42'	285' ✓	685' ✓
			155	-5.3 ~~-6.3~~	30° 11'	361' ✓	761' ✓
			145	-4.3 ~~-5.3~~	33° 00'	402' ✓	802' ✓
			174	-7.2 ~~-8.2~~	36° 21'	456' ✓	856' ✓

Profile Notes Red CHKH Plotted CHKH Job No. 0300-11 Division No. 11 F. B. 13607 PG. 81
No. X-Sec. Date 8-19-60 Date 10-31-60 Survey of [illegible] Notes [illegible]
No. Notes Chkd. JSH Checked JSH Survey by [illegible] Date [illegible]
Date 8-26-60 Date 11-1-60 Map No. Indexed H. E. Ott Date

F. B. 1807 Pg. 82 | Job No. 0300.07 | Division No. 11 | Notes Red. CWH | Plotted CWH | Profile

Survey of BEACH RESORT STUDIES | Date 8-19-60 | Date 10-31-60 | No.

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

Indexed 4 E OTT | Date | Date 8-26-60 | Date 11-1-60 | No.

STATION	B. S.	H. I.	F. S.	ELEV.
TP				
BM 27-4	1.20	28.22	0.30	27.92
			1.67	26.55
BM 11-4 EL = 14.55 EA. 2100-147				

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76L-298 S & E #307—1-56

F. B. 2807 PG. 83

Profile No. | Notes Red | Plotted | Job No. 0300.02 | Division No.
Date | Date | Survey of HYDRO SURVEYS
X-Sec. No. | Notes Chk'd. | Checked | Survey by | Notes | Date 3-9-77
Date | Date | Map No. | Indexed T.M. PALMER | Date AUG 11 1978

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J N. 0300.02

MANHATTAN BEACH
HYDRO SURVEYS

(BENCH LEVELS ON N-0+00 TO N 18+00)

Levels: S-9 To: S-12 (F.B. 2807-88)

Levels: 0+00 S To:

STATION	B. S.	H. I.	F. S.	ELEV.
		PARTY		
	J. BAZEN			
	E. SHOEMAKER			
	D. PETERSON			
	H. JACKSON			

76-L-298 CE 307 8-70

76-L-298 CE 307 8-70

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F. B. 2807 PG. 84 Job No. 330102 Division No. Notes Red Plotted Profile
Survey of HYDRO SURVEY Date Date No.
Survey by Notes D. Peterson Notes Chk'd. Checked X-Sec.
Indexed Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.	M.L.L.W.	
BM 27-4	0 00	27.25		27.25	BM 27-4 ELEV = 27.253 (M.L.L.W.)	
T.P.	10 61	37 14	0 72	26 53	U.S.C.&G.S. BR. DISK	IN N.E. COR.
T.P.	7 40	42 52	2 02	35 12	STD. OIL SALT WTR PUMP STA.	
					PER F.B. 2100-167	
N-1A	1 77	39 15	5 14	37 38	N-1A ELEV. = 37.39 (M.L.L.W	
T.P.	1 37	29 01	11 51	27 64	2½" BR. CAP, DN. 16" PER F.B.	
T.P.	5 00	24 29	9 73	19 28	2100-168.	
T.B.M.	5 02	24 16	5 14	19 14	B+ SPK N.W. TIE of N-0+00,	F.B. 2100-260
N 0+00			6 64	17 52	1x2 240.6' 0/s	
N 2+00			7 44	16 72	1x2 240.6 0/s	
N 4+00	7 27	20 81	10 62	13 54	1x2 240.6 0/s	
N 6+00			1 14	19 67	1x2 240.6 0/s	
"	3 77	16 11	8 47	12 34	LFT in rock grain 450' 0/s	
"	3 93	16 26	3 78	12 33	LFT06 in rock grain 550' 0/s	Re. F.B. 2100-203
N 8+00			3 91	12 35	1x2 450' 0/s	
N 10+00	5 24	15 62	5 88	10 38	" "	
N 12+00			5 00	10 62	" "	M.L.L.W
N 14+00			4 66	10 96	" "	
N 16+00			4 22	11 40	" "	
N 18+00			3 95	11 67	" "	
T.P.			0 51	15 11	1x2	

76-L-298 CE 307 8-70

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
T.P.	6 68	21 79	0 51	15 11	1x2	
T.P.	5 36	24 18	2 97	18 82	1x2	
T.P.	7 95	27 27	4 86	19 32	1x2	
BM 27-4			0 00	27 27	BM 27-4 EL=27.25	
				M.L.L.W.		
fd. S-9	503	22 11		17 08	S-9, L.&T., Control	line 180+00.00, F.B. 2100 -19 & 164.
185+00-S	568	22 06	573	16 38	L.&T.	" "
190+00-S	551	22 17	540	16 66	L.&T. 16.45	" "
fd. S-10	520	22 98	539	16 78	S-10, L.&T.	" " 191+50.00, F.B. 2100 -20 & 163.
195+00-S	523	21 79	542	16 56	L.&T. 16.23	" "
200+00-S	543	22 80	542	16 37	"	" "
205+00-S	523	~~24 41~~	562	16 18	"	" "
210+00-S	500	~~20 38~~	603	~~15 38~~	Painted "X"	" "
211+98.26-S	531	20 07	4 82	15 76	C.E. Tag.	" " 211+98.26, F.B. 2100 - 20
215+00-S	591	21 27	571	15 36	L.&T.	" "
220+00-S	574	21 93	508	16 09	" "	" "
225+00-S	545	22 04	534	16 54	" "	" "
225+77.16-S	543	22 06	547	16 57	C.E. Tag.	" " 225+77.16, F.B. 2100-21
230+00-S	547	21 89	558	16 42	L.&T.	" "
fd. S-11	538	21 96	531	16 58	S-11, L.&T.	" " 231+00.00, F.B. 2100-21
235+00-S	546	22 10	532	16 64	" "	" "

Profile Notes Red ____ Plotted ____ Job No. 2200.02 Division No. ____
No. ____ Date ____ Date ____ Survey of HYDRO SEQUENCE
X-Sec. Notes Chk'd. ____ Checked ____ Survey by BOZEAN Notes Checked Date 2-9-77
No. ____ Date ____ Date ____ Map No. ____ Indexed T.M. PALMER Date AUG 11 1978

F. B. 2807 PG. 85

76-L-298 CE 307 8-70

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
		2710				
240+00-S	528	2207	531	1679	L.&T.	Control line
241+00.72-S	562	2240	529	1678	C.E. Tag.	" " 241+00.72, F.B. 2100-21
245+00-S	542	2227	555	1685	L.&T.	" "
B.M.21-38	522	2238	611	1616	B.M. 21-38, El.=16.59	F.B. 2100-161, Mon. in H.H.
T.P.	308	1926	486	1652	1x2 Stak.	
T.B.M.	101	1556	510	1450	C.E. Tag in rock.	450' offset 248+82.0, F.B. 2807-88.
T.B.M.	021	1402	170	1381	" " " " "	498.22' offset 250+00, F.B. " "
T.P.	662	1483	581	821	1x2 Stak.	
" "	329	1726	092	1396	" "	
T.B.M.	461	1679	502	1218	C.E. Tag in curb.	536' offset 253+42.73, F.B. 2807-88
T.P	600	1900	379	1300	1x2 Stak.	
S-12	559	2144	315	1585	S-12, Bt. S.W.&T., F.B. 2807-88	
T.P.	520	2237	427	1787	1" I.P. in Parking lot wood tire stop.	
B.M. 21-38	615	2234	621	1616	B.M. 21-38, see above.	
T.P.	560	2245	546	1685		
T.P.	547	2234	558	1687		
T.P.	550	2229	555	1679		
T.P.	551	2234	549	1680		
T.P.			562	1669		

Con't. Pg. ~~89~~ 91

F.B. 2807 PG. 86 | Job No. 0300.02 | Division No. | Notes Red | Plotted | Profile
Survey of Hydrosurvey | Date | No. | X-Sec.
Survey by Engl. Sta. Carro | Notes | Notes Chk'd. | Checked | No.
Indexed | Date | Date | Date

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

Survey of Hydrosurvey F.B. 2807 Pg. 87
J.N. 0300.02 Crew SUP
Surveyed by English
Notes Carp Date 3-77
Indexed T.M. PALMERI AUG 1978

HYDROSURVEY

J.N. 0300.02

Range Lines.
2580+00-S
and
2537+10-S
(N. Side King Harbor)
New Offsets
for
Hydrosurvey

3-10-77
English
Carp
Stroud
Bradley

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

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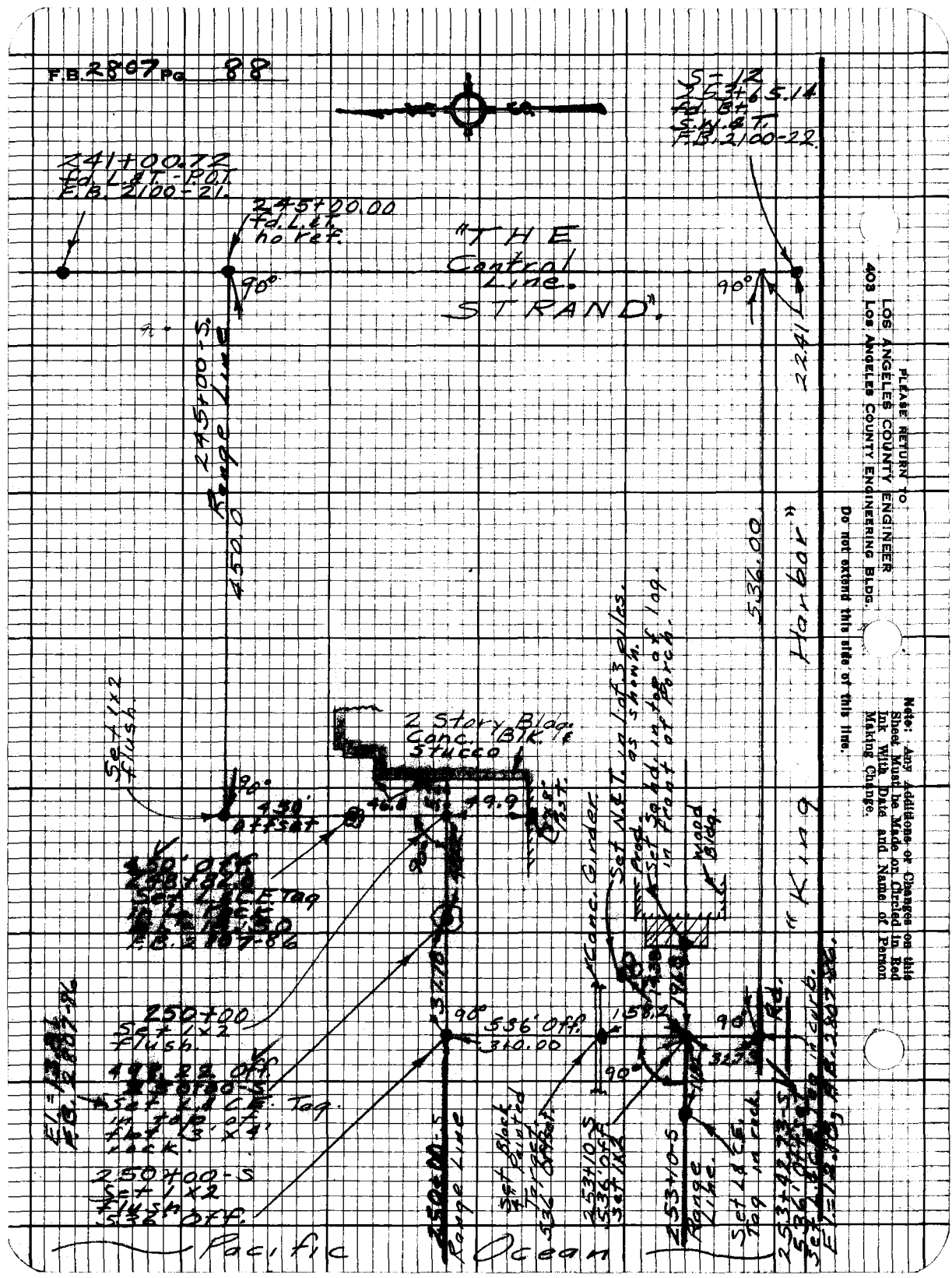
403 LOS ANGELES COUNTY ENGINEERING BLDG.

7R5008 6E-310 9-67

F.B. 2807 Pg. 88



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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76-1-298 CE 307 3-61

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	
		Cont.	from	Pg. 86	
					F.B. 2807-84 & F.B. 2100-2
0+00-N.&S.	519	2433		1914	240.62 offset, N.W. Tie, Bt. S.W. & T. in { Base Path.
2+00-S.	691	2424	700	1733	" " , 1x2
4+00-S.	611	2550	485	1939	" " "
6+00-S.	451	2507	494	2056	" " "
8+00-S.	555	2469	593	1914	" " Sq. Hd. S. & T.
10+00-S.	577	2567	479	1990	" " " " " "
12+50-S.	562	2675	454	2113	" " Painted "x" on Conc. B. P.
15+00-S.	329	2484	520	2155	" " Bt. S.W. & T. in Pavmt. " "
17+50-S.	571	2550	505	1979	" " Sq. Hd. S. & T. " " " "
20+00-S.	493	2547	496	2054	" " " " " " " " " "
22+50-S.	536	2522	561	1986	" " " " " " " " " "
25+00-S.	513	2469	566	1956	" " " " " " " " " "
26+11.39-S = B.					
26+15.57-S. = A	548	2499	518	1951	" " ⊥ Pt., S-1", Bt. S.W. & T., F.B. 2100-2
27+50-S.	613	2617	495	2004	" " Sq. Hd. S. & T. in Pavmt B. P.
30+00-S.	611	2739	489	2128	" " " " " " " " " "
32+50-S.	545	2822	462	2277	" " " " " " " " " "
35+00-S.	540	2854	508	2314	" " 1x2 in Sand
37+ 50-S.	582	2874	562	2292	" " " " "
40+00-S.	203	2452	625	2249	" " " " "

Profile No. X-Sec. No. Notes Red Date Notes Chkd. Date Plotted Date Checked Date Job No. 03000.02 Division No. Survey of PALMDALE Survey by ENGLISH Notes EG Date 3-14-37 Map No. Date AUG 1 1978

F.B. 2807 Pg. 89

76-L298 CE 307 3-61

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.		
		24 52				
S-1'C	673	23 88	737	17 15	2x2 in Sand,	S-1'C 42+42.93, F.B. 2100-212.
T.P.	669	30 20	037	23 51	1x2	
42+42.93-S	697	33 59	358	26 62	L. & T. in Conc Wlk.,	
45+00-S.	472	33 44	487	28 72	Sq. Hd. S. & T. in Pk.	Lot Pavm't.
B.M. 27-1 fd.	606	32 74	676	26 68	B.M. 27-1, El.=26.68,	F.B. 2100-167.
47+50 - S.	478	33 51	401	28 73	Sq. Hd. S. & T in Pk.	Lot Pavm't.
50+00 - S.	495	33 70	476	28 75	" " " " " "	" "
52+50 - S.	504	33 72	502	28 68	" " " " " "	" "
55+00 - S.	535	34 41	466	29 06	" " " " " "	" "
S-2	566	34 79	528	29 13	Bt. S. & W. El. 29.13	S-2 F.B. 2100-202.
57+50 - S.	569	35 31	517	29 62	Sm. Bt. S. & T. in Pk.	Lot Pavm't.
T.P.			559	29 72	" " " " "	" "

F.B. 2807 Pg. 90 | Job No. 0300.02 | Division No. | Notes Red | Plotted | Profile
Survey of Hydro Survey | Date | Date | No.
Survey by English Notes CARD | Notes Chkd. | Checked | X-Sec.
Indexed | Date | Date | No.

76-L 298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.		
		Con't.	from	Pg. 86		
T.P.	531	22 05		16 89		
T.P.	535	22 05	535	16 65		
T.P.	532	22 93	539	16 64		
T.P.	562	22 08	547	16 46		
T.P.	554	22 16	546	16 62		
T.P.	531	22 94	553	16 63		
T.P.	515	22 88	571	16 83		
T.P.	563	21 03	598	15 40		
T.P.	500	20 80	523	15 80	P.O.T., 211+98.26,	pg. 85
T.P.	611	21 53	538	15 42		
T.P.	554	21 77	530	16 23		
T.P.	531	21 71	537	16 40		
T.P.	538	21 96	513	16 58		
S-10			516	16 80	S-10, L.& T.,	see pg. 85.

Profile Notes Red ____ Plotted ____ Job No. 03000.02 Division No. ____
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes Carlo Date 3-30-77
No. ____ Date ____ Date ____ Map No. ____ Indexed J.M. PALMERI Date AUG 11 1971

F.B. 2807 PG. 91

F.B. 2807 Pg. 92 | Job No. ____ Division No. ____ Notes Red ____ Plotted ____ Profile

Survey of ____ Date ____ Date ____ No. ____

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

Indexed ____ Date ____ Date ____ Date ____ No. ____

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

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76-L298 CE 307 3-61

Notes Ck'd by	Survey of HYDROGRAPHIC	F. B. 2807 PG. 99
Map. No.	JN 0300.02 Tape — Std — °F	
Office Work	Surveyed by W. A. RICHARDS	
Checked	Notes W. A. R. Date 3-77	
Date	Indexed T.M. PALMERI AUG 11 1978	

J. N. 0300.02

HYDROGRAPHIC SURVEY

FROM PLAYA DEL REY AREA

TO REDONDO BEACH (KING HARBOR)

HOR. CONTROL REF.: C.S.B. 1726 DIV.# 2, 3, & 4

VERTICAL DATUM: M.L.L.W.

TIME REF.: PACIFIC STANDARD TIME

TIDE GAGE: TIDAL 8, L.A. OUTER HARBOR

RICHARDS	BAZEN	ENGLISH	DREIER	BROOKS
MOODY	SHOEMAKER	CARO	GOBLE	BANKSON
TURRILL	PETERSON	STROUD	SIEMAN	KROHN
BUSTRUM	JACKSON	BRADLEY		CROWDER

+ LIFEGUARDS FOR SWIMMERS

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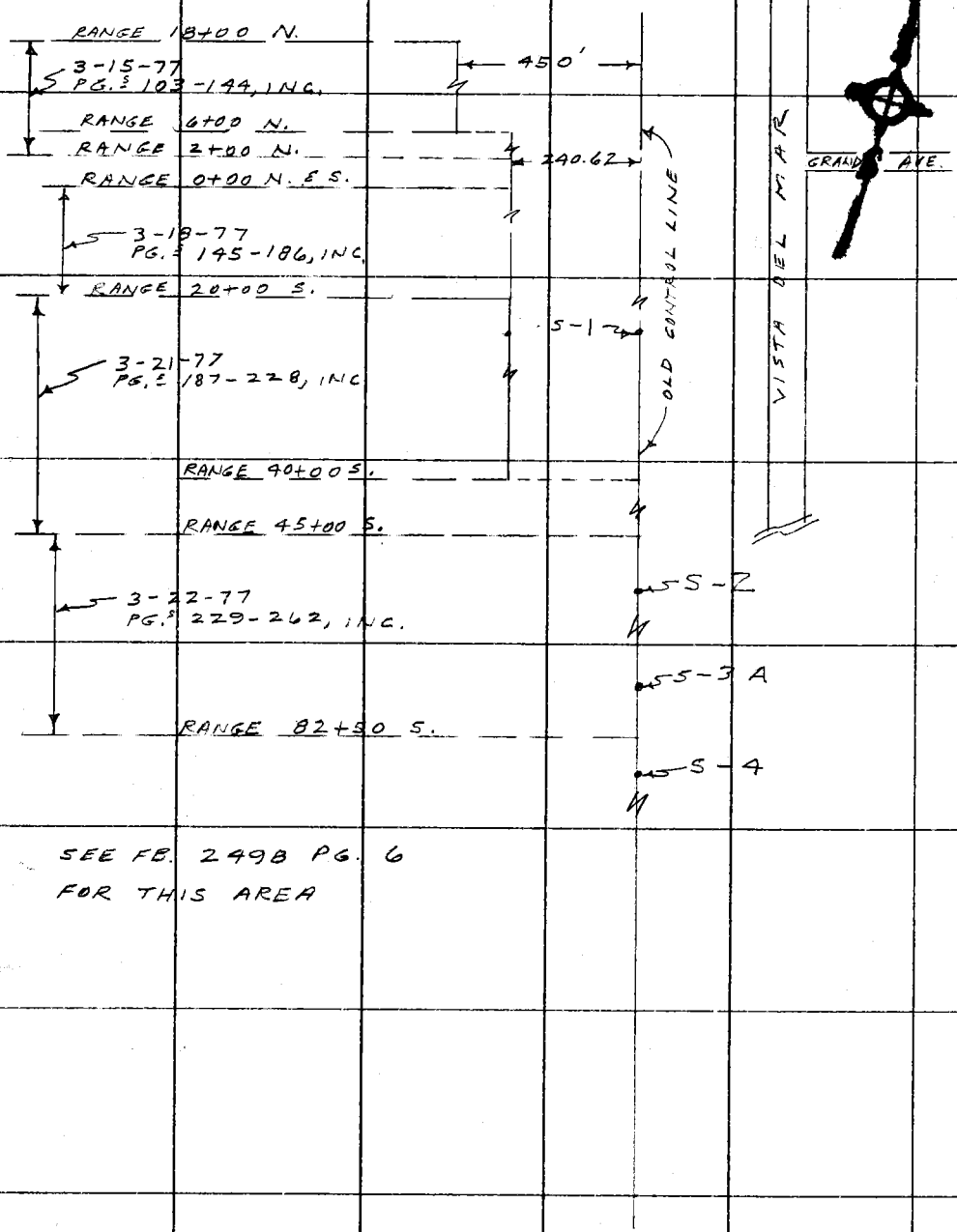
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-69

F. B. 2807 PG. 100

AREA INDEX MAP
(NO SCALE)



SEE FB. 2498 PG. 6
FOR THIS AREA

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

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76-L-298 CE 307 2-63

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	6:30 A.M.	3-15-77
					M.L.L.W.	Inshore 2+00-N.
2+00-N	206	18 78		16 72	1x2, Sand, 240.62 offset	
						F.B. 2807-84.
			045	18 33	21.0 R. edge Pavm't. Bike Path	
			57	131	62.0 L. top bank sand	
			80	108	62.5 L. toe "	"
			97	91	71.0 L.	"
	0 60	11 3	75	11 3	71.0 L. top 1x2	
			66	47	100 FT L. MHT	
			99	14	INST. AT 0+00 W.D.S. SIGHT ON 6+00 N. #1 326° 07' (33° 53') 134 + 240.62 = 375	
			131	- 18	#2 321 42 (38 18) 158	= 399
			139	- 26	#3 320 48 (39 12) 163	= 404
			145	- 32	#4 315 12 (44 48) 199	= 440
			148	- 35	#5 312 30 (47 30) 218	= 459
			139	- 26	#6 307 15 (52 45) 263	= 504
			130	- 17	#7 305 55 (54 05) 276	= 517
			118	- 05	#8 303 35 (56 25) 301	= 542
			129	- 16	#9 302 08 (57 52) 318	= 559
			125	- 12	#10 300° 20' (59° 40') 342	CONT = 583

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2807 Pg. 103
No. ____ Date ____ Date ____ Survey of HYDRO-SURVEYS-PLAY DEL REY
X-Sec. ____ Notes Chkd. ____ Checked ____ Survey by English Notes Carr Date 3-15-77
No. ____ Date ____ Date ____ Map No. ____ Indexed T.M. PALMER Date AUG 11 1978

76-L-298 CE 307 2-63

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

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Do not extend notes this side of this line.

F.B. 2807 PG. 104 | Job No. 03000.02 | Division No. 11 | Notes Red ____ | Plotted ____ | Profile ____
Survey of BEACH EROSION - PLAYA DEL REY | Date ____ | Date ____ | No. ____ | X-Sec. ____
Survey by ENGLISH & D. | Notes DREIER 3-15-77 | Notes Chkd. ____ | Checked ____
Indexed ____ | Date ____ | Date ____ | Date ____ | No. ____

STATION	B.S.	H.I.	F.S.	ELEV.				
		11 3				2+00 N		
			12 7	- 1 4	*11	301° 26'	(58° 34')	327+241 = 568
			13 0	- 1 7	*12	298 50	(61 10)	363 = 604
			13 5	- 2 2	*13	296 26	(63 34)	402 = 643
			14 0	- 2 7	14	295 03	(64 57)	428 = 669
			16 0	- 4 7	15	292 46	(67 14)	477 = 718
			17 1	- 5 8	16	290 11	(69 49)	544 = 785
			19 0	- 7 7	*17	286° 54'	(73° 06')	658 = 899

76L298 307 Cdb 12-62

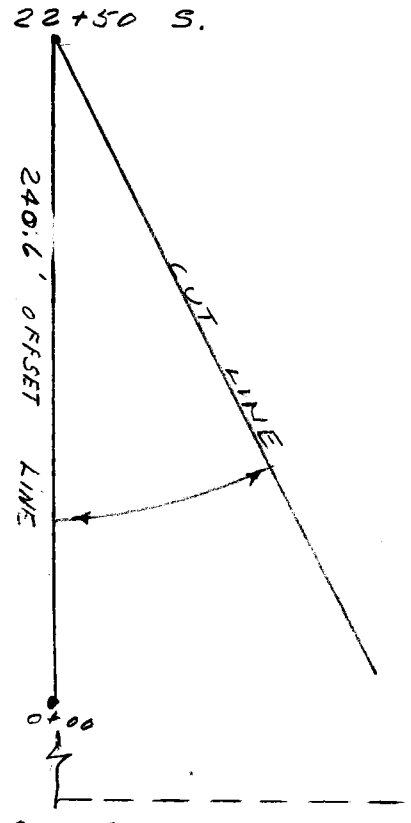
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
22+50 S.	0+00	7:49	1	302	05			
			2	302	54			
			3	303	46			
			4	304	42			
			5	305	47			
			6	306	31			
			7	307	41			
			8	308	43			
			9	309	53			
			10	311	15			
			11	312	44			
			12	314	19			
			13	315	54			
			14	317	52			
			15	319	55			
			16	321	57			
			17	325	21			
			18	328	40			
			19	331	41			
			20	334	44			

RANGE = 2+00 N.



Profile Notes Red. ____ Plotted ____ Job No. 2302.02 Division No. 11 F. B. 2807 Pg. 105
No. ____ Date ____ Date ____ Survey of BEACH EROSION PLAYA DEL REY
X-Sec. Notes Chkd. ____ Checked ____ Survey by R. HARRIS Notes R.T. Date 3-15-77
No. ____ Date ____ Date ____ Map No. ____ Index P.M. PALMERI Date AUG 11 1978

76L298 307 Cdb 12-62

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LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
22750	0+00		21	336	53			
			22	339	17			
			23	340	47			
			24	342	11			
			25	344	00			
			26	344	42			
			27	345	38			
			28	346	40			
		8:00	29	347	28			

F. B. 2807 Pg. 106 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of BEACH EROSION PLAYA DEL REY Date Date No. X-Sec.

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

Indexed Date Date Date No.

76-L-298 CE 307 2-63

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	7:00 A.M.	3-15-77
					M.L.L.W.	Inshore 4+00 - N.
		1878				240.62 OFF.
4+00-N	718	2072	524	1354	1X2, sand, F.B. 2807-84.	
			175	1897	12.0 R. edge conc. B.P.	
			81	126	78.5 L. top bk. sand	
			120	87	97.5 L.	
	-218	902	95	112	97.5 L. top 1X2	
			172	-82	*1 INST. AT 0+00 N 85 299° 48' (60° 12')	SIGHT ON 6+00 N. 698 + 241 = 939
			162	-72	2 300 55 (59° 05')	668 = 909
			140	-50	3 303 16 (56 44)	610 = 851
			108	-18	4 309 03 (50 57)	493 = 734
			117	-27	5 313 03 (46 57)	428 = 669
			129	-39	6 317° 28' (42 32)	367 = 608
			124	-34	7 321 47 (38 13)	315 = 556
			112	-22	8 325 38 (34 22)	274 = 515
			101	-11	9 328 43 (31 17)	243 = 484
			94	-04	10 332 26 (27 34)	209 = 450
			88	+02	11 335 13 (24 47)	185 = 426
			73	17	337° 59' (22° 01')	162 = 403
			43	47	151 FT. LEFT MHW	= 372
			22	68	110 " " SAND.	= 351

Profile No. X-Sec. No. Notes Red. Date Notes Chkd. Date Plotted Date Checked Date Job No. 2300.02 Division No. 11 Survey of BEACH EROSION PLAYA DEL REY Survey by ENGLISH Notes BEACH Date 3-15-77 Map No. Indexed T.M. PALMER Date AUG 11 1978 F.B. 2807 Pg. 107

F. B. 2807 Pg. 108 | 0300.02 Job No. _____ Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of BEACH EROSION-PLAYA DEL REY Date _____ Date _____ No. _____

Survey by ENGLISH & D. Notes DREIER 3-15-77 Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76-L-298 CE 307 2-63

PLEASE RETURN TO

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 Cdb 12-62

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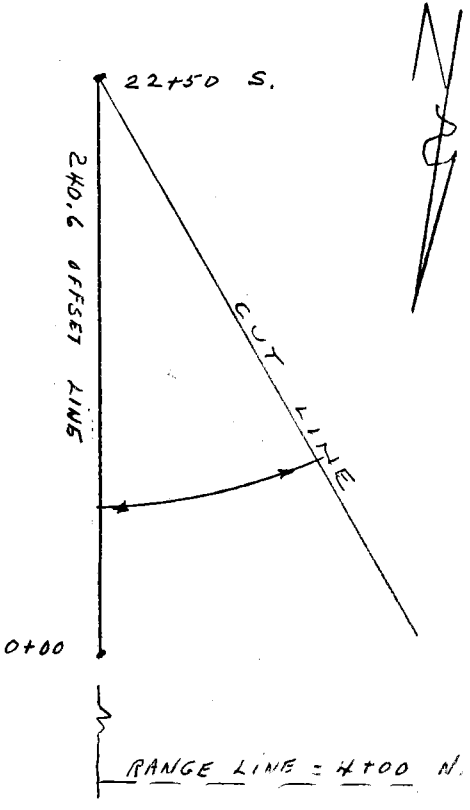
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
22+50 S	0+00	8:12	1	298	05			
			2	299	03			
			3	300	04			
			4	301	03			
			5	301	57			
			6	303	03			
			7	304	07			
			8	305	23			
			9	306	35			
			10	307	49			
			11	309	30			
			12	311	32			
			13	313	17			
			14	315	08			
			15	317	10			
			16	319	16			
			17	321	17			
			18	323	31			
			19	325	37			
			20	327	39			

RANGE LINE = 4+00 N.



Profile Notes Red ____ Plotted ____ Job No. 0360.02 Division No. 11 F.B. 2807 PG. 109
No. ____ Date ____ Date ____ Survey of BEACH EROSION PLAYA DEL REY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 3-15-77
No. ____ Date ____ Date ____ Map No. ____ Index T.M. PALMER Date ____ 1978

76L298 307 Cdb 12-62

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F. B. 2807 Pg. 110 Job No. 0300.02 Division No. 11 Notes Red. Plotted

Survey of BEACH EROSION PLAYA DEL REY Date Date No.

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

Indexed Date Date Profile

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
22+50	0+00		21	330	07			
			22	332	29			
			23	334	12			
			24	335	59			
			25	337	49			
			26	339	21			
			27	340	46			
			28	342	25			
			29	344	06			
			30	345	26			
		8:23	31	346	35			

76-L-298 CE 307 2-63

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STATION	B. S.	H. I.	F. S.	ELEV.	7:25 AM.	3-15-77
					M.L.L.W.	Inshore 5+80 - N. 240.62 Off.
		2072				
6+00 - N.	170	2137	105	1967	1X2, Sand, F.B. 2807-84.	
5+80 - N			243	1894	5.4 R. edge	Conc. B. P.
			74	140	83.5 L. top	bk. Sand.
			95	119	89.5 L. toe	" "
			123	91	127.0 L.	"
	000	114	100	114	127.0 L. top	1X2
5+70	(MOVED TO 5+70 TO CLEAR ROCKS)					
T.P.	174	734	580	56	INST. AT 0+00 N. & S., SIGHT ON 6+00 N.	
			26	47	134 FT. LEFT M.H.W.	
			65	08	#1 339° 23' (20° 37') 218 + 241	= 459
			85	-12	2 336 46 (23 14) 249	= 490
			89	-16	3 334 41 (25 19) 274	= 515
			81	-08	4 333 13 (26 47) 293	= 534
			105	-32	5 329 11 (30 49) 346	= 587
			98	-25	6 324 31 (35 29) 413	= 654
			100	-27	7 321 00 (39 00) 470	= 711
			113	-40	8 317 55 (42 05) 536	= 777
			121	-48	9 316 30 (43° 30') CONT. 550+241	= 791

Profile No. X-Sec. No. Notes Red. Date Notes Chkd. Date Plotted Date Checked Date Job No. 8300-02 Division No. 11 Survey of BEACH ELBOW - PLAYA DEL REY Survey by ENGLISH Notes 2400-DETAIL Date 3-15-77 Indexed T.M. PALMER Date AUG 11 1977 Map No. F.B. 2807 Pg. 111

76-L-298 CE 307 2-63

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F. B. 2807 Pg. 112 Job No. 0300.02 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of BEACH EROSION - PLAYA DEL REY Date ____ Date ____ No. ____
Survey by ENGLISH - Notes DREIER 3-15-77 Notes Chkd. ____ Checked ____ X-Sec. ____
Indexed ____ Date ____ Date ____ No. ____

STATION	B. S.	H. I.	F. S.	ELEV.				
		73						
			~~80~~		* 10	315° 14' = 44°	46'	575 + 241 = 816
			125	-52	11	311 34 = 48	26	654 = 895
			165	-92	12	307 31 = 52	29	755 = 996
			171	-98	13	———		
			175	-102	14	305° 35' = 54°	25'	811 = 1052

76L298 307 Cdb 12-62

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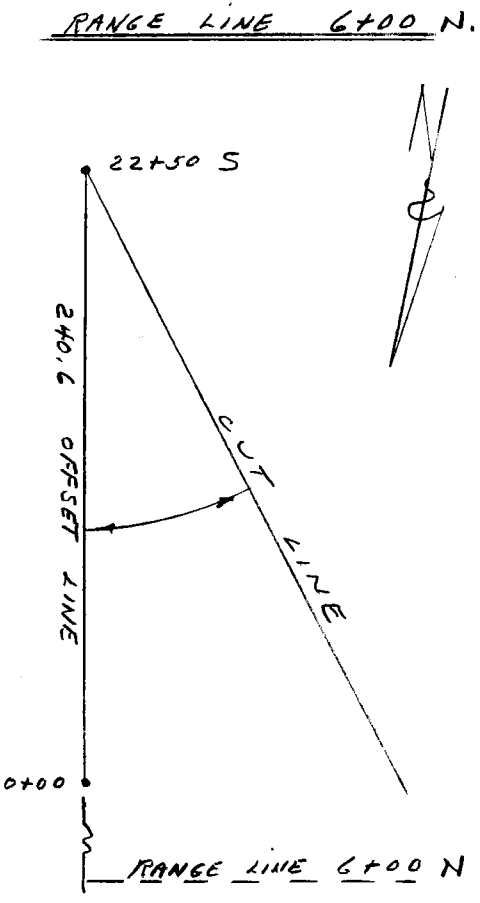
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
22+50S	0+00	8:39	~~1~~	~~300~~	~~62~~			
			~~2~~					
			~~3~~					
			~~4~~					
			~~5~~					
			6	306	15			
			7	307	05			
			8	308	23			
			9	310	10			
			10	311	54			
			11	313	44			
			12	315	36			
			13	317	28			
			14	319	42			
			15	322	06			
			16	324	36			
			17	327	38			
			18	330	31			
			19	333	04			
			20	335	04			



Profile Notes Red ____ Plotted ____ Job No. 13000.6 Division No. 11 F.B. 2807 Pg. 113
No. ____ Date ____ Date ____ Survey of BERNH EROSION PLAYA DEL REY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 3-15-77
No. ____ Date ____ Date ____ Map No. ____ Indexed T.M. PALMERI Date AUG 11 1978

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Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
22+50	0+00		21	337	41			
			22	339	16			
			23	340	47			
			24	342	14			
			25	343	16			
			26	344	13			
			27	345	18			
		8:48	28	345	56			

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

Plotted ____ Date ____ Checked ____ Date ____

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

Job No. 0300.02 Division No. 11

Survey of BEACH EROSION PLAYA DEL REY

Survey by RICHARDS Notes R.T.

Indexed ____ Date ____

F. B. 2807 Pg. 114

76-1-298 CE 307 3-61

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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.	7:45 A.M.	3-15-77
					M. L. L. W.	Inshore 6+20-N. 450 off.
		2137				
T.P.	695	1927	905	12.32	Rock	
6+20-S.			82	111	1x2, Sand	450' offset Ln.
			67	136	19.0 R. top bk.	Sand
	+ rod hand Level		24	217	202.0 R. bk	"
			042	1885	214.4 R. edge conc.	B. P.
MOVED TO 6+35 TO CLEAR ROCKS			131	62	97.0 L.	Sand
6+35	08	98 4	103	90	97.0 L. top 1x2	
T.P	188	736	432	548	INST. AT 0+00 N. & S.	SIGHT ON 6+00 N.
			162	-88	*1 312° 34' = 47° 26'	675 + 450 = 1125
			140	-66	2 314 06 = 45 54	640 = 1090
			127	-53	3 315 11 = 44 49	616 = 1066
			122	-48	4 316 38 43 22	586 = 1036
			118	-44	5 317 18 42 42	572 = 1022
			137	-63	6 320 20 39 40	514 = 964
			170	-96	7 321 37 38 23	491 = 941
			169	-95	8 320 53 39 07	504 = 954
			154	-80	9 324 21 35 39	445 = 895
			113	-39	10 327° 19' 32 41	398 = 848

Profile Notes Red ____ Plotted ____ Job No. 03000.02 Division No. 11 F.B. 2807 Pg. 115
No. ____ Date ____ Date ____ Survey of BEACH EROSION, PLAYA DEL REY
X-Sec. ____ Notes Chkd. ____ Checked ____ Survey by EUGLIGHT Noted CHIEF DEPUTY Date 3-15-77
No. ____ Date ____ Date ____ Map No. ____ Indexed T.M. PALMER Date AUG. 1 1978

F.B. 2807 Pg. 116 Job No. 0300.02 Division No. 11 Notes Red ____ Plotted ____ Profile

Survey of BEACH EROSION - PLAYA DEL REY Date ____ Date ____ No. ____

Survey by ENGLISH Notes DREIER 3-15-77 Notes Chkd. ____ Checked ____ X-Sec.

Indexed ____ Date ____ Date ____ Date ____ No. ____

76-L298 CE 307 3-61

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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.	
		7.36			
			9.1	-1.7	#11 328° 48' = 31° 12' 375 + 450 = 825
			7.8	-0.4	12 330° 16' = 29° 44' 354 = 804
			1.5	5.9	105 FT LEFT = 555
					MISSED M.H.W. (SORRY)

76-L-298 CE 307 2-63

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	8:00 AM.	3-15-77
					M.L.L.W.	Inshore 8+00 -N. 450.0 off.
		1927				
8+00-N.	691	1926	692	12 35	1X2, sand, F.B. 2807-84.	
			54	139	5.0 R. top brk.	Sand
			41	152	82.0 R. brk.	"
			129	1797	102.0 R. edge	Conc. B. P.
			120	73	70.0 L.	Sand
	-19	81	93	100	70.0 L. top	1X2
			34	47	100 FT. L m.H.W.	
					INST. AT 6+00N. SIGHT ON 12+00N	
			74	07	#1 323° 32 = 36° 28'	148+450 = 598
			98	-17	2 319 36 40	24 170 = 620
			110	-29	3 315 45 44	15 195 = 645
			120	-39	4 311 40 48	20 224 = 674
			120	-39	5 308 36 51	24 251 = 701
			117	-36	6 305 05 54	55 285 = 735
			108	-27	7 303 43 56	17 300 = 750
			108	-27	8 301 49 58	11 322 = 772
			112	-31	9 300 18 59	42 342 = 792
			118	-37	10 299 39 60	21 351 = 801

Profile No. X-Sec. No. | Notes Red. Date | Notes Chkd. Date | Plotted Date | Checked Date | Job No. 03000.0 | Division No. 11 | Survey of BEACH EROSION, PLAYA DEL REY | Survey by Engineer | Notes CAKO Date 3-15-77 | Map No. | Indexed T.M. PALMER Date AUG 11 1978 | F.B. 2807 | Pg. 117

F.B. 2807 Pg. 118 | 0300.02 Job No. Division No. 11 Notes Red Plotted Profile

Survey of BEACH EROSION - PLAYA DEL REY Date Date No.

Survey by ENGLISH - Notes DREIER 3-15-77 Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

76-L-298 CE 307 2-63

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	
		8 1			
			11 8	-3 7	11
			12 4	-4 3	12
			16 0	-7 9	13
			17 7	-9 6	14
					297° 41' =
					296 28
					292 35
					291 59 =
					62° 19'
					63 32
					67 25
					68° 01'
					361 + 450 = 831
					402 = 852
					460 = 930
					495 = 945

76L298 307 Cdb 12-62

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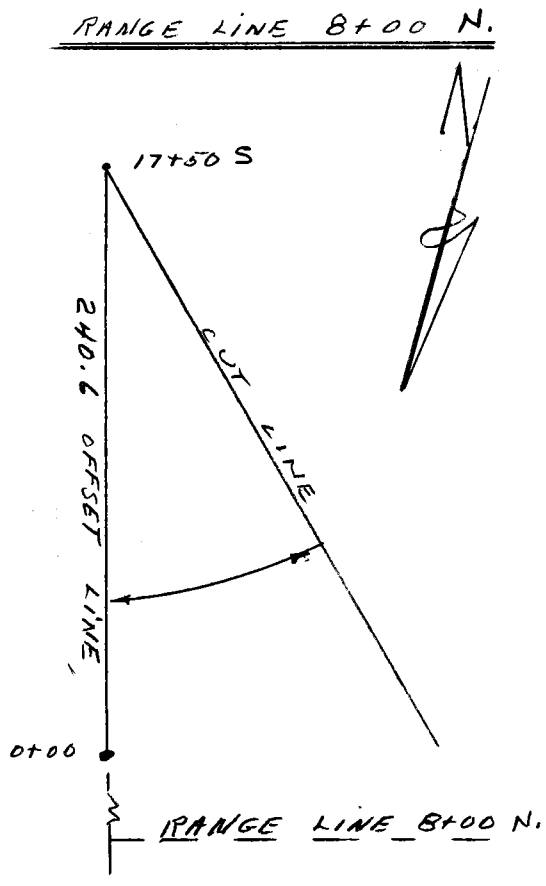
Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
17+50 S	0+00	9:00	1	294	45			
			2	295	35			
			3	296	24			
			4	297	13			
			5	298	03			
			6	298	54			
			7	300	03			
			8	300	57			
			9	302	04			
			10	303	24			
			11	304	25			
			12	305	41			
			13	307	10			
			14	308	32			
			15	309	54			
			16	311	22			
			17	313	09			
			18	314	57			
			19	316	21			
			20	318	16			



Profile Notes Red ____ Plotted ____ Job No. 300.02 Division No. 11 F.B. 307 Pg. 119

No. ____ Date ____ Date ____ Survey of BEACH EROSION PLAYA DEL REY

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 3-15-77

No. ____ Date ____ Date ____ Map No. ____ Indexed J.M. PALMERI Date AUG 11 1978

76L298 307 Cdb 12-62

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F. B. 2807 Pg. 120 Job No. 03002 Division No. 11 Notes Red. Plotted Profile No.

Survey of BEACH EROSION PLAYA DEL REY Date Date X-Sec. No.

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

Indexed Date Date

Inst. At	Sight On	Time	Angle No.	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
17+50	0+00		21	320	13			
			22	321	42			
			23	324	03			
			24	326	08			
			25	328	07			
			26	329	57			
			27	332	19			
			28	334	43			
			29	336	34			
			30	338	04			
			31	339	14			
			32	340	40			
			33	341	44			
			34	342	46			
			35	344	01			
		9:11	36	345	05			

76-L-298 CE 307 2-63

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	8:20 A.M.	3-15-77
					M.L.L.W.	Inshore 10+00-N. 450.0 Off.
		1926				
10+00-N.	.679	17 17	888	1038	1X2, sand, F.B.	2807-84.
			43	129	20.0 R. -	Dk. Sand
			15	157	65.0 R. top	" "
			251	1466	145.0 R. edge	conc. B.P.
			105	67	62.0 L.	Sand
	4 -137	7 7	81	91	62.0 L. top	1X2
					INST. AT 6+00 N., SIGHT ON 12+00 N.	
			188	-111	#1 305° 34 =	54° 26' 559 + 450 = 1009
			186	-109	2 306 50 =	53 10 534 = 984
			171	-94	3 309 38 =	50 22 483 = 933
			150	-73	4 311 31	48 29 452 = 902
			127	-50	5 315 35	44 25 392 = 842
			120	-43	6 317 07	42 53 371 = 821
			108	-31	7 318 53	41 07 349 = 799
			100	-23	8 321 11	38 49 322 = 772
			118	-41	9 324 09	35 51 289 = 739
			117	-40	10 327 39	32 21 253 = 703
			112	-35	11 328° 52' =	31° 08' 242 = 692

Profile Notes Red. Plotted Job No. 03000.02 Division No. 11 F.B. 2807 PG. 121
No. X-Sec. Date Date Survey of BEACH EROSION - PLAYA DEL REY
No. Notes Chkd. Checked Survey by English Notes CARO Date 3-15-77
Date Date Map No. Indexed T.M. PALMERI Date AUG 11 1977

76-L-298 CE 307 2-63

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
		77				
			105	-28	#12 331° 49' = 28°	11' 214 + 450 = 664
			95	-18	13 335 24 = 24	36 183 = 633
			82	-05	14 338° 13' = 21°	47' 160 = 610
			30	47	91 FT. LEFT MHW.	+ 450 = 541

F. B. 2807 PG. 122 | 030002 Job No. | Division No. 11 | Notes Red | Plotted | Profile
Survey of BEACH EROSION - PLAYA DEL REY | Date | Date | No. | X-Sec.
Survey by ENGLISH | Notes DREILER 3-15-77 | Notes Chkd. | Checked | No.
Indexed | Date | Date | Date

76L298 307 Cdb 12-62

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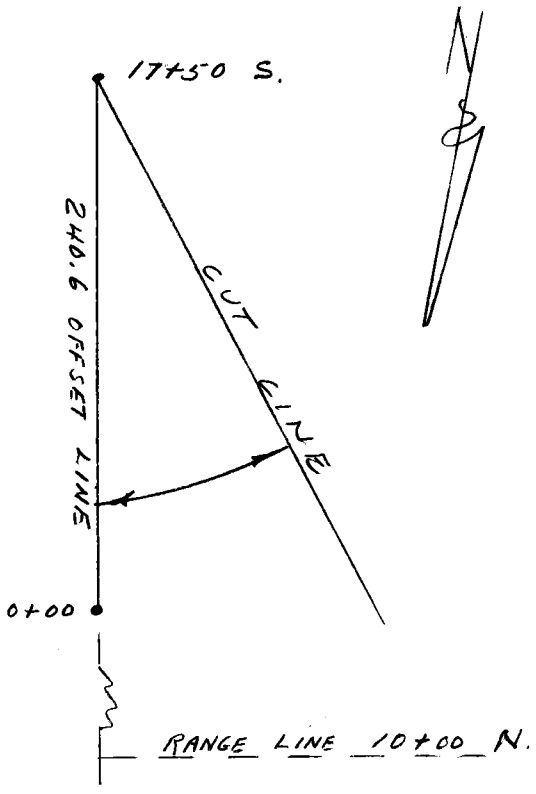
Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
17+50 S.	0+00	9:23	1	301	31			
			2	302	16			
			3	303	21			
			4	304	42			
			5	305	56			
			6	307	28			
			7	309	37			
			8	311	39			
			9	313	39			
			10	315	47			
			11	319	10			
			12	322	29			
			13	325	16			
			14	328	48			
			15	331	50			
			16	334	44			
			17	336	46			
			18	338	27			
			19	340	03			
			20	341	15			



Profile Notes Red. Plotted Job No. 4200.02 Division No. 11 F.B. 2807 Pg. 23
No. Date Date Survey of BEACH EROSION PLAYA DEL REY
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes R.T. Date 3-25-77
No. Date Date Map No. Indexed T.M. PALMERI Date AUG 11 1978

F. B. 2807 PG. 124 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION PLAYA DEL REY Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
17+50	0+00		21	342	27			
		9:32	22	343	33			

Do not extend notes this side of this line.

761298 307 Cdb 12-62

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76-L-298 CE 307 5-66

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

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STATION	B. S.	H. I.	F. S.	ELEV.	9.00 A.M.	3-15-77
					M.L.L.W.	Inshore
						12+00 -N.
		17 17				450.0 Off.
12+00 -N.	10 13	20 75	655	10 62	1x2, sand, F.B. 2807-84.	
			80	128	14.0 R. brk. Sand	
			50	158	31.0 R. " "	
			08	200	45.0 R. top " "	
			08	200	55.0 R " " "	
			62	146	79.0 R. bot. " "	
			630	1445	250.0 R. edge conc. B.P.	
			150	58	61.0 L. Sand	
	-1 30	7 2	123	85	61.0 L. top 1x2	
			25	47	81.0 L. M.H.W.	
			40	32	10 FTL. SAND.	
					INST. AT 6+00 N., SIGHT ON 12+00 N.	
			89	-17	#1 346° 12' = 13° 48' 147+450 = 597	
			106	-34	2 342 51 = 17 09 185 = 635	
			113	-41	3 339 07 20 53 229 = 679	
			116	-44	4 335 24 24 36' 275 = 725	
			102	-30	5 332 03 27 57 318 = 768	
			108	-36	6 329° 16' = 30° 44' 357 = 807	

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 23000.02 Division No. 11
X-Sec. No. ____ Notes Chk'd. ____ Date ____ Checked ____ Date ____ Survey of BEACH EROSION - PLAYA DEL REY
Survey by Engineer Notes Corr. Date 3-15-77 Map No. ____ Indexed ____ Date AUG 11 1978
T.M. PALMER

F.B. 2807 PG. 125

76-L-298 CE 307 5-66

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F. B. 2807 PG. 126 | Job No. 0300.02 | Division No. 11 | Notes Red ____ Plotted ____ Profile No. ____
Survey of BEACH EROSION-PLAYA DEL REY | Date ____ Date ____ X-Sec. No. ____
Survey by ENGLISH | Notes DREIER 3-15-77 | Notes Chk'd. ____ Checked ____
Indexed ____ Date ____ Date ____

STATION	B. S.	H. I.	F. S.	ELEV.		
		72				
			122	-50	#7 327° 13' = 32° 47'	386+450 = 836
			143	-71	8 325 22 34 38	414 = 864
			160	-88	9 323 47 36 13	439 = 889
			173	-101	10 322° 21' = 37° 39'	463 = 913

76L298 307 Cdb 12-62

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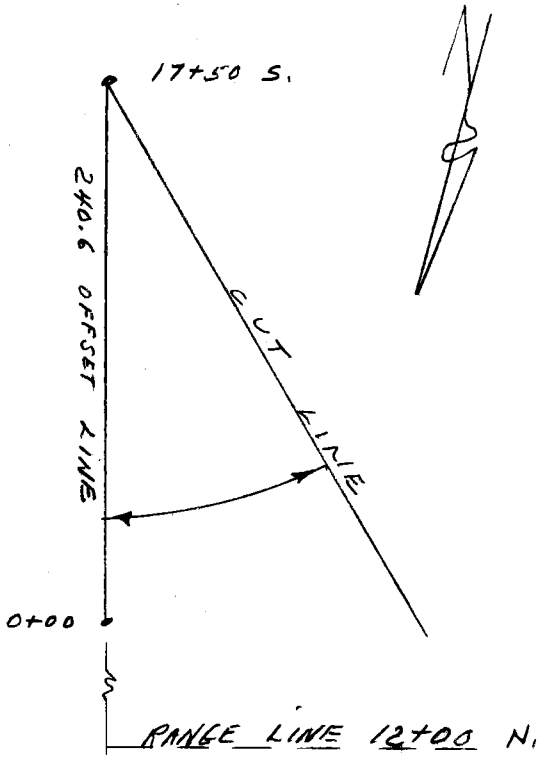
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
17+50 S	0+00	9:46	1	299	29			
			2	300	21			
			3	301	33			
			4	302	42			
			5	303	48			
			6	305	04			
			7	306	37			
			8	308	04			
			9	309	16			
			10	311	05			
			11	313	01			
			12	315	02			
			13	317	11			
			14	319	46			
			15	322	20			
			16	325	24			
			17	327	33			
			18	330	58			
			19	334	27			
			20	336	41			

RANGE LINE 12+00 N



Profile No.____ Notes Red.____ Plotted____ Job No. 6300-12 Division No. 11 F.B. 2807 Pg. 127
X-Sec. No.____ Date____ Notes Chkd.____ Date____ Checked____ Date____ Survey of BEACH & ROSLAN PLAN OF DEL REY
Survey by RICHARDS Notes R.T. Date AUG 1-7 1970
Map No.____ Date____ Indexed T.M. PALMERI Date____

76L298 307 Cdb 12-62

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Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
17+50	0+00		21	339	06			
			22	341	09			
			23	342	54			
			24	344	22			
			25	345	46			
			26	347	05			
		9:55	27	347	41			

F. B. 2807 Pg. 128 Job No. 2006.02 Division No. 11 Notes Red. Plotted

Survey of BEACH EROSION PLAYA DEL REY Date Date

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

Indexed Date Date

Profile No. X-Sec. No.

76-L-298 CE 307 5-66

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8+00

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	9:15 A.M.	3-15-77
					M.L.L.W.	Inshore 14+00-N. 450' Off.
		2075				
14+00-N	599	1695	979	1096	1X2, F.B. 2807-84.	
			50	125	Sand	450' off
			33	137	7.0 R. top bk.	Sand
			22	148	91.0 R.	"
			180	1515	126.0 R. edge	Conc. B.P.
			115	55	58.0 L.	Sand
	-21	62	87	83	58.0 L. top	1X2
					INST. AT 6+00N.	SIGHT ON 14+00
			129	-67	#1 332° 43' = 27° 17'	413+450 = 863
			150	-88	2 330 23 29 37	455 = 905
			168	-106	3 328 36 = 31 24	488 = 938
			122	-60	4 333 44 26 16	395 = 845
			102	-40	5 336 43 = 23 17	344 = 794
			86	-24	6 338 53 21 07	309 = 759
			75	-13	7 341 51 18 09	262 = 712
			90	-28	8 344 46 15 14	217 = 667
			90	-28	9 346 40 13 20	190 = 640
			83	-21	10 348 43 = 11° 17'	160 = 610

Profile No. ____ X-Sec. No. ____ Notes Red. ____ Date ____ Notes Chk'd. ____ Date ____ Plotted ____ Date ____ Checked ____ Date ____ Job No. 2307 Division No. 11 Survey of BEACH EROSION - PLAYA DEL REY Survey by Engineer Notes Carc Date 3-15-77 Map No. ____ Indexed J.M. PALMERI Date AUG 11 1978 F.B. 2807 Pg. 129

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.		
		62 47				
			68	-06	*11 350° 16' 9° 44'	137+450 = 587
			51	11	115 FT LEFT	+450 = 565
			15	47	72 " " MHW.	+450 = 522

F. B. 2807 Pg. 130 | Job No. 030002 | Division No. 11 | Notes Red ____ Plotted ____ Profile ____
Survey of BEACH EROSION-PLAYA DEL REY | Date ____ Date ____ No. ____
Survey by ENGLISH Notes DREIER 3-15-77 | Notes Chk'd. ____ Checked ____ X-Sec. ____
Indexed ____ Date ____ Date ____ No. ____

76L298 307 Cdb 12-62

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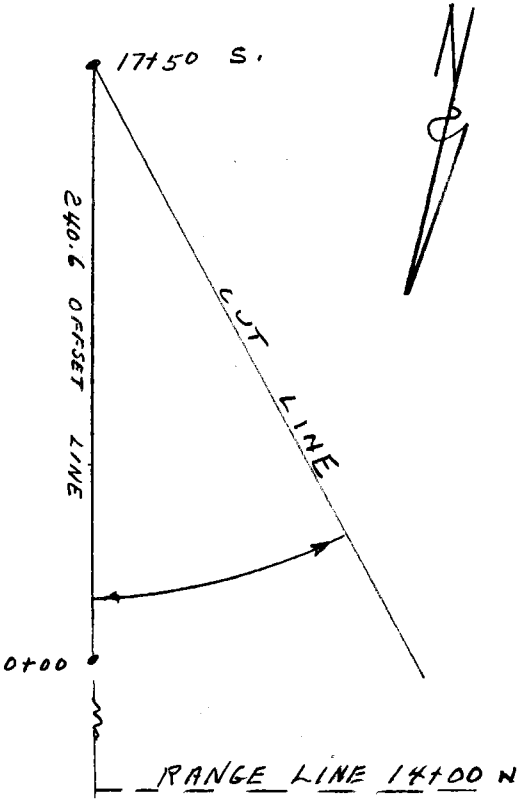
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
17+50 S.	0+00	10:08	1	302	37			
			2	304	14			
			3	305	51			
			4	307	15			
			5	308	15			
			6	309	57			
			7	311	36			
			8	313	42			
			9	315	27			
			10	317	13			
			11	319	24			
			12	321	01			
			13	323	19			
			14	325	57			
			15	328	29			
			16	331	38			
			17	334	41			
			18	336	55			
			19	338	59			
			20	341	10			

RANGE LINE 14+00 N



Profile Notes Red. ____ Plotted ____ Job No. 6300.02 Division No. 11 F.B. 2807 Pg. 13

No. ____ Date ____ Date ____ Survey of REACH EROSION PLAYA DEL REY

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes RT Date 3-15-77

No. ____ Date ____ Date ____ Map No. ____ Indexed T.M. PALMER Date AUG 11 1978

76L298 307 Cdb 12-62

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Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
17+50	0+00		21	343	00			
			22	344	53			
			23	346	41			
			24	347	26			
		10:16	25	348	36			

F. B. 2807 PG. 132

Job No. 0200.02 Division No. 11

Survey of BEACH EROSION PLAYA DEL REY

Survey by RICHARDS Notes R.T.

Indexed Date

Profile No. Plotted Date Checked Date

X-Sec. No. Notes Red. Date Notes Chkd. Date

76-L-298 CE 307 5-66

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

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STATION	B. S.	H. I.	F. S.	ELEV.	9.'30	3-15-77
					M.L.L.W.	Inshore 16+00-N. 450' Off.
		16 95				
16+00-N	522	16 62	555	11 40	1X2, F.B. 2807-84	
			50	11 6	Sand	450' off
			38	12 8	8.7 R. top bk.	Sand
	+rod		+094	17 56	187.0 R. edge Conc.	B.P.
			124	42	62.5 L.	Sand
	-1 80	55	93	73	62.5 L. top 1X2	
					CUT GUN AT 14+00	SIGHT ON 18+00
			08	47	60 FT L. M.H.W.	
			37	18	100 FT L.	
			46	09	#1 329° 49' = 30° 11'	116 + 450 = 566
			57	-02	2 326 17 = 33 43'	133 = 583
			65	-10	3 323 19 36 41	149 = 599
			75	-20	4 318 30 41 30	177 = 627
			87	-32	5 316 09 43 51	192 = 642
			98	-43	6 312 01 47 59	222 = 672
			102	-47	7 307 28 52 32	261 = 711
			104	-49	8 301 47 58° 13	323 = 773
			98	-43	9 299° 52' = 60 08	348 = 798

Profile No. X-Sec. No.
Notes Red Date Notes Chk'd Date
Plotted Date Checked Date
Job No. 030092 Division No. 11
Survey of BEACH EROSION - PLAYA DEL REY
Survey by English Notes Coro Date 3-15-77
Map No. Indexed T.M. PALMER Date AUG 14 1978
F.B. 2807 PG. 133

76-L-298 CE 307 5-66

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F. B. 2807 PG. 134 Job No. 0300.02 Division No. 11 Notes Red ____ Plotted ____ Profile No. ____
Survey of BEACH EROSION - PLAYA DEL REY Date ____ Date ____ X-Sec. No. ____
Survey by ENGLISH Notes DREIER 3-15-77 Notes Chk'd. ____ Checked ____
Indexed ____ Date ____ Date ____

STATION	B. S.	H. I.	F. S.	ELEV.					
		55							
			98	-43	#10	297° 53' =	62° 07'	378 + 450	= 828
			102	-47	11	296 08	63° 52'	408	= 858
			116	-61	12	294 18 =	65° 42'	443	= 893
			137	-82	13	292 47	67° 13'	476	= 926
			165	-110	14	290 48	69 12'	527	= 977
			172	-117	15	291 ? 07 =	68° 53'	518	= 968

76L298 307 Cdb 12-62

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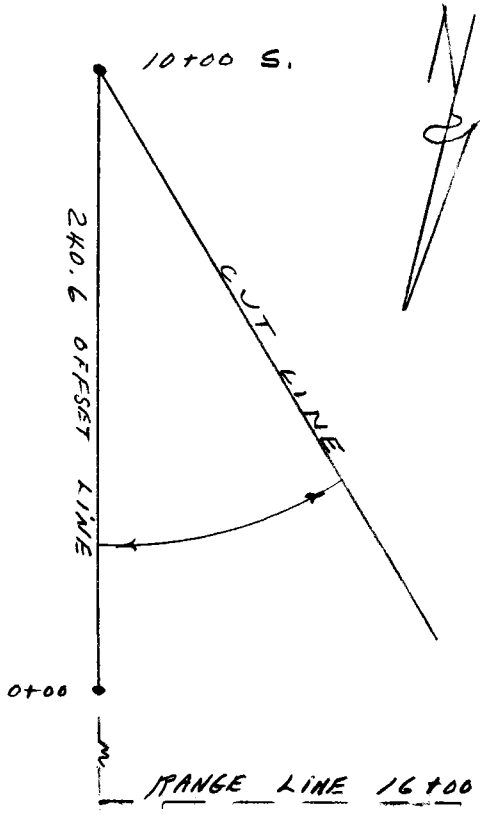
Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	FOR OFFICE USE ONLY LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
10+00 S.	0+00	10:56	1	297	42			
			2	298	49			
			3	300	10			
			4	301	26			
			5	302	43			
			6	304	09			
			7	306	01			
			8	308	20			
			9	310	52			
			10	312	16			
			11	314	20			
			12	316	16			
			13	318	18			
			14	320	24			
			15	322	51			
			16	324	53			
			17	326	47			
			18	329	19			
			19	331	51			
			20	334	21			

RANGE LINE 16+00 N.



Profile Notes Red. Plotted Job No. 2300.02 Division No. 11 F.B. 2807 PG. 135

No. Date Date Survey of BEACH EROSION PLAYA DEL REY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes R.T. Date 3-15-77

No. Date Date Map No. Indexed J.M. PALMERI Date AUG 11 1978

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Inst. At	Sight On	Time	Angle No.	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
10+00	0+00		21	335	58			
			22	337	52			
			23	339	45			
			24	341	26			
			25	342	38			
			26	343	58			
			27	345	07			
		11:04	28	345	45			

F. B. 2807 Pg. 136 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of BEACH EROSION PLAYA DEL REY Date Date No. X-Sec.

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

Indexed Date Date Date No.

76-L-298 CE 307 2-63

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

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STATION	B. S.	H. I.	F. S.	ELEV.	9:40 A.M.	3-15-77
					M.L.L.W.	Inshore 18+00-N. 450' off.
		16 62				
18+00 N	734	19 01	495	11 67	1X2, F.B. 2807-84.	
			73	11 7	Sand top bk.	450' off
			24	166	56.0 R. Sand	
			168	1733	144.0 R. edge conc. B.P.	
			144	46	53.2 L. Sand	
T.P.	1057	18 05	1153	748	53.2 L. top 1x2	
			638	11 67	1x2, F.B. 2807-84.	
	-230	5 2		748		
					CUT INST. AT 14+00 N., SIGHT ON 18+00	
			170	-118	#1 307° 09' = 52° 51'	528 + 450 = 978
			145	-93	2 309 44 50 16	481 = 931
			120	-68	3 312 45 = 47 15	433 = 883
			113	-61	4 314 29 45 31	407 = 857
			113	-61	5 316 45 = 43 15	376 = 826
			111	-59	6 320 39 39 21	328 = 778
			108	-56	7 323 20 36 40	298 = 748
			95	-43	8 327 14 32 46	257 = 707
			92	-40	9 330 06 = 29 54	230 = 680

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2807 Pg. 137
No. ____ Date ____ Date ____ Date ____ Survey of BEACH EROSION - PLAYA DEL REY
X-Sec. ____ Notes Chkd. ____ Checked ____ Survey by English Notes 6868 Date 3-15-77
No. ____ Date ____ Date ____ Map No. ____ Indexed M. PALMER Date AUG 11 1978

76-L-298 CE 307 2-63

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STATION	B. S.	H. I.	F. S.	ELEV.		
		52				
			81	-29	*10 335° 40' = 24 20'	181 + 450 = 631
			68	-16	11 339 08 = 20° 52'	152 = 602
			55	-03	12 344° 31' = 15° 29'	111 = 561
			27	25	82 FT LEFT SAND	
			05	47	53 FT. LEFT MHW	

F. B. 2807 PG. 138 | Job No. 030002 | Division No. 11 | Notes Red | Plotted | Profile
Survey of BEACH EROSION | Date | Date | No. X-Sec.
Survey by ENGLISH Notes DREIER 3-15-77 Notes Chkd. Checked
Indexed Date Date Date No.

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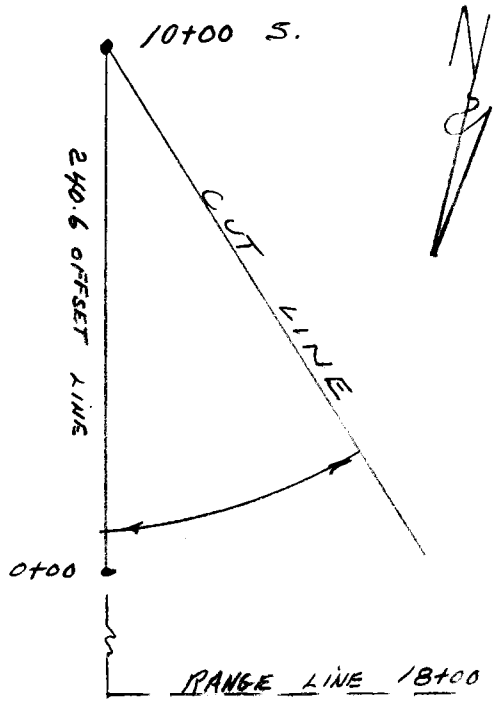
Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
10+00 S.	0+00	11:17	1	299	08			
			2	300	21			
			3	301	46			
			4	303	18			
			5	305	01			
			6	306	36			
			7	308	23			
			8	310	14			
			9	312	15			
			10	314	14			
			11	316	38			
			12	319	14			
			13	321	44			
			14	323	52			
			15	325	47			
			16	328	09			
			17	331	10			
			18	333	18			
			19	335	33			
			20	337	17			

RANGE LINE 18+00 N.



RANGE LINE 18+00 N.

Profile Notes Red. _____ Plotted _____ Job No. 300.62 Division No. 11 F. B. 2807 PG. 139

No. _____ Date _____ Date _____ Survey of BEACH EROSION PLAYA DEL REY

X-Sec. Notes Chkd. _____ Checked _____ Survey by RICHARDS Notes R.T. Date 1-26-78

No. _____ Date _____ Date _____ Map No. _____ Indexed T.M. PALMER Date _____

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Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
10+00	0+00		21	339	21			
			22	341	08			
			23	342	44			
			24	343	34			
		11:25	25	344	39			

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

Plotted ____ Date ____ Checked ____ Date ____

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

Division No. 11 Job No. 0100.02 Notes ____ Date ____

Survey of BEACH EROSION PLAYA DEL REY

Survey by RICHARDS Notes R.T.

Indexed ____ Date ____

F. B. 2807 Pg. 140

NOTES RED. JOB NO. 0300.02 SURVEY OF Hydrographic F.B. 2807 PG. 141
DATE SURVEY BY W.A. Richards
NOTES CHKD. NOTES BY H.R.S. DATE 3-22-77
DATE INDEXED T.M. PALMERI DATE AUG 11 1978

DESCRIPTION	ADJ. ELEV.	3RD RUN	2ND RUN	DIFF.	1ST RUN	B.M.
ELEV. DIFFERENCES @ TIDAL & FOR GAGE DATA REFERENCE					Inst. F.E Brooks Rec. H.R. Stock	

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

76S420 S & E-353 4-54

768420 S & E-353 4-54

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

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
Tidal 8	11.13				11.13	TIDAL #8 = 11.129 FB.3701-167
+4.02	+4.02					Precise B.M. #5-74
	15.15					US 2196; USC&G.S. "TIDALB
	−8.36					(LAHD)"; City L.A. 24-00010
Top of 12' Staff	6.79					STAMPED 8 14FT Above MLLW

Index of Tide Staff or "0" is 12.00 Lower

−5.21
+2.9
−2.3 staff index = −2.3 Lower Low

14.0
11.1
2.9 diff Calc.

By checking diff. bet Gage reading & staff repeatedly it appears the "0" Ref Line of Gage = 6.0 on tide Staff.
− 2.3
Gage Ref. = + 3.7 MLLW

JOB NO. 0300.02 SURVEY OF Hydrographic
SURVEY BY K.A. Richards
NOTES BY H.P. Sprock DATE 3-22-77
INDEXED DATE
NOTES RED DATE
NOTES CHKD DATE

F.B. 2807 PG. 142

76-L-298 CE 307 2-63

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STATION	B. S.	H. I.	F. S.	ELEV.	6:30 A.M. M.L.L.W.	3-18-77 Inshore 0+00-S. 240.62 Offset
	230	21 44		1914	Bt. S.&T., F.B. 2807-89	
0+00-N&S.			39	175	1X2, Sand	240.62 offset
			222	1922	39.0 L. edge Pavm't. Bike Path	
			70	144	51.0 R. top bank Sand	
			111	103	52.0 R. toe "	"
			119	95	55.0 R.	"
	-142	108	92	122	55.0 R. top 1X2	
			09	99	55.0 RT. AT 9:15 & ERRODING	
					CUT INST. AT 2+00 N, SIGHT	SOUTH
			61	47	#1 23° 48' 88	+ 241 = 329
			79	29	2 28 05 107	= 348
			127	-19	3 37 12 152	LARGE UNDERWATER ROCK BETWEEN # 2 & # 3 = 393
			115	-07	4 32 02 125	CAME BACK IN NEAR ROCK = 366
			144	-36	5 44 30 197	= 438
			153	-45	6 51 20 250	= 491
			161	-53	7 56 26 301	= 542
			163	-55	8 58 57 332	= 573
			163	-55	9 61 28 368	= 609

Profile No. X-Sec. No.
Notes Red. Date
Notes Chkd. Date
Plotted Date
Checked Date
Job No. 0300.02
Division No. 11
Survey of Hydro Survey
Survey by Emplist Notes Copy Date 3-18-77
Map No. Indexed T.M. PALMER Date AUG 11 1978

F.B. 2807 Pg. 145

76-L-298 CE 307 2-63

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.				
		108						
			170	-62	#10	64°	31'	420 + 241 = 661
			171	-63	11	66°	16'	455 = 696
			172	-64	12	69°	30'	483 = 724

F.B. 2807 Pg. 146 Job No. 0300.02 Division No. Notes Red Plotted Profile
Survey of HYDRO SURVEY Date Date No. X-Sec.
Survey by Notes DREIER 3-18-77 Notes Chkd. Checked
Indexed Date Date Date No.

76L298 307 Cdb 12-62

PLEASE RETURN TO

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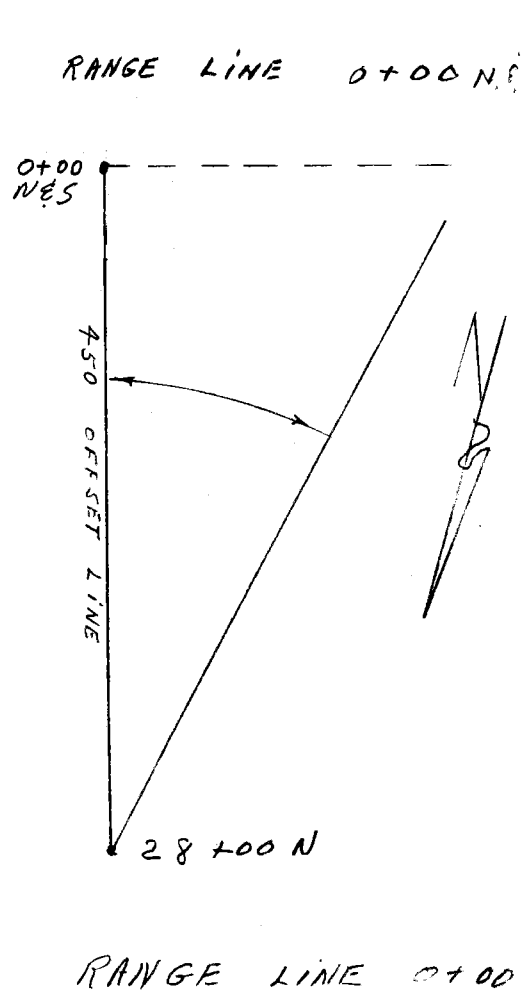
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
28+00 N	N&S 0+00	7:45	1	57	54			
			2	56	57			
			3	55	49			
			4	54	38			
			5	53	19			
			6	51	55			
			7	50	54			
			8	49	27			
			9	47	51			
			10	46	10			
			11	43	57			
			12	41	48			
			13	39	50			
			14	37	26			
			15	35	18			
			16	32	12			
			17	29	43			
			18	27	46			
			19	26	12			
			20	23	56			



Profile No.____ Notes Red.____ Plotted____ Job No. 100.02 Division No. 11

X-Sec. No.____ Date____ Date____ Survey of BEACH EROSION PLAYA DEL REY

Notes Chkd.____ Checked____ Survey by RICHARDS Notes P.T. Date 3-18-77

Date____ Date____ Map No.____ Indexed T.M. PALMER Date AUG 11 1978

F. B. 2807 PG. 147

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
28+00N	N.S. 0+00		21	21	54			
			22	19	35			
			23	17	36			
			24	15	53			
			25	14	15			
			26	12	25			
			27	10	54			
			28	9	37			
			29	8	56			
			30	7	59			
			31	6	54			
			32	5	47			
			33	4	41			
		7:56	34	3	39			

F. B. 2807 Pg. 148 Job No. 2300.02 Division No. 11 Notes Red. Plotted. Profile

Survey of BEACH EROSION PLAYA DEL REY Date Notes Chkd. Date. Checked. Date. No. X-Sec.

Survey by RICHARDS Notes R.T. Date. Indexed. Date. No.

76-L-298 CE 307 2-63

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION	B. S.	H. I.	F. S.	ELEV.	6:50 A.M.	3-18-77
					M.L.L.W.	Inshore
						2+00 - S.
		21 44				240.62 Offset
2+00 S.	282	20 15	411	1733	1 X 2, F.B. 2807 - 89.	& Sand
			141	1874	33.5 L. edge Pavmt.	B. F.
			68	134	50.0 R. brk.	Sand
			113	89	82.0 R.	"
	-05	109	88	114	82.0 R. top	1 X 2
		47			CUT INST AT	2+00 N., SIGHT S.
			158	-49	#1 50° 13'	481+241 = 722
			136	-27	2 46 27	421 = 662
			138	-29	3 43 42	382 = 623
			133	-24	4 40 38	343 = 584
			129	-20	5 37 22	305 = 546
			125	-16	6 33 38	266 = 507
			132	-23	7 28 16	215 = 456
			129	-20	8 24 26	182 = 423
			98	11	9 20 56	153 = 394
			76	33	10 17 20	125 = 366
			62	47	11 15 45 113	M.H.W. = 354

Profile Notes Red ____ Plotted ____ Job No. E300.02 Division No. 11
No. ____ Date ____ Date ____ Date ____ Survey of HYDRO SURVEY
X-Sec. ____ Notes Chkd. ____ Checked ____ Survey by English Notes Corp. Date 3-18-77
No. ____ Date ____ Date ____ Map No. ____ Indexed T.M. PALMER Date AUG 1 1978

F.B. 2807 Pg. 149

F. B. 2807 PG. 150 | Job No. 0300.02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of HYDO SURVEY Date _____ Date _____ No. _____

Survey by DREIER Notes DREIER 3-18-77 Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76-L-298 CE 307 2-63

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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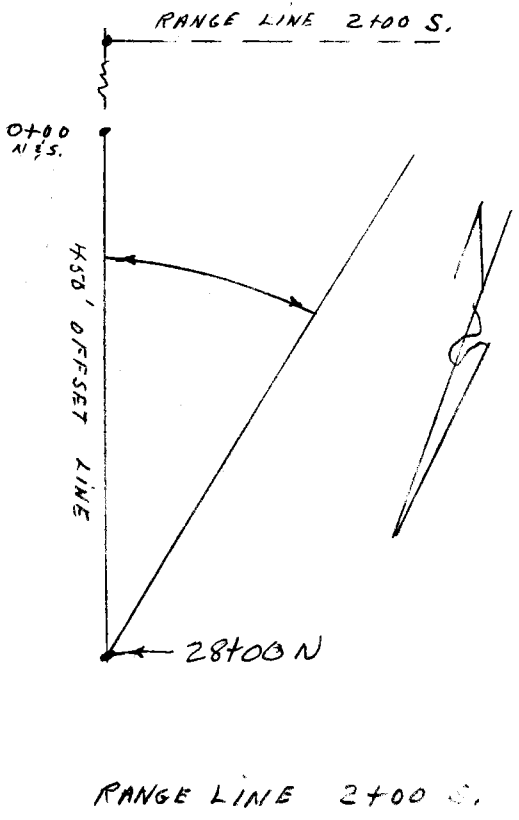
Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
28+00 N	0+00 N & S.	8:12	1	57	23			
			2	56	18			
			3	55	00			
			4	53	25			
			5	51	54			
			6	49	46			
			7	47	58			
			8	45	50			
			9	43	33			
			10	40	48			
			11	38	28			
			12	35	38			
			13	32	38			
			14	29	01			
			15	24	56			
			16	21	38			
			17	18	10			
			18	15	14			
			19	12	45			
			20	11	42			



Profile No.____ Notes Red.____ Date____ Plotted____ Date____ Job No. 0300.02 Division No. 11 F. B. 2807 Pg. 151
X-Sec. No.____ Notes Chkd.____ Date____ Checked____ Date____ Survey of BEACH EROSION PLAYA DEL REY
Survey by RICHARDS Notes R.T. Date 3-18-77 Map No.____ Indexed____ Date____ T.M. PALMER Date AUG 11 1978

76L298 307 Cdb 12-62

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Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
28+06	0+00 N&S.		21	10	10			
			22	09	18			
			23	08	14			
			24	07	10			
			25	06	07			
			26	05	15			
			27	04	22			
		8:22	28	03	46			

F. B. 2807 Pg. 152

Job No. 0900.02 Division No. 11 Notes Red. Plotted Profile

Survey of BEACH EROSION PLAYA DEL REY Date Date No. X-Sec.

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

Indexed Date Date Date No.

76-L-298 CE 307 2-63

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	7:15 A.M.	3-18-77
					M.L.L.W.	Inshore 4+00-S.
		2015				240.62 offset
4+00-S.	133	2072	076	19 39	1x2, F.B. 2807-89. & Sand	
			071	20 01	24.0 L. edge Pavm't, B. P.	
			59	148	46.0 R. brk. Sand	
			118	89	82.0 R. "	
	-14	102	91	116	82.0 R. top 1x2	
					CUT INST AT 2+00N, SIGHT SOUTH	
			68	34	#1 11° 53'	126+241 = 367
			82	20	2 13° 46'	147 = 388
			108	-06	3 16° 30'	178 = 419
			129	-27	4 20° 50'	228 = 469
			135	-33	5 23 10	257 = 498
			135	-33	6 23 57	267 = 508
			136	-34	7 29 33	340 = 581 (SWIMMER OFF LINE 15' RIGHT)
			124	-22	8 32 54	388 = 629
			128	-26	9 36° 46	448 = 689

Profile No. ____ X-Sec. No. ____ Notes Red ____ Date ____ Notes Chkd. ____ Date ____ Plotted ____ Date ____ Checked ____ Date ____ Job No. 0300.02 Division No. 11 Survey of HYDRO SURVEY Survey by ~~ENGLISH~~ J.W. PALMER Date 3-18-77 Map No. ____ Indexed ____ Date ~~AUG 11 1978~~

F.B. 2807 Pg. 153

F. B. 2807 Pg. 154 | Job No. 0300.02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of HYDO SURVEY Date _____ Date _____ No. _____

Survey by DREIER Notes DREIER 3-18-77 Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

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78-L-298 CE 307 2-63

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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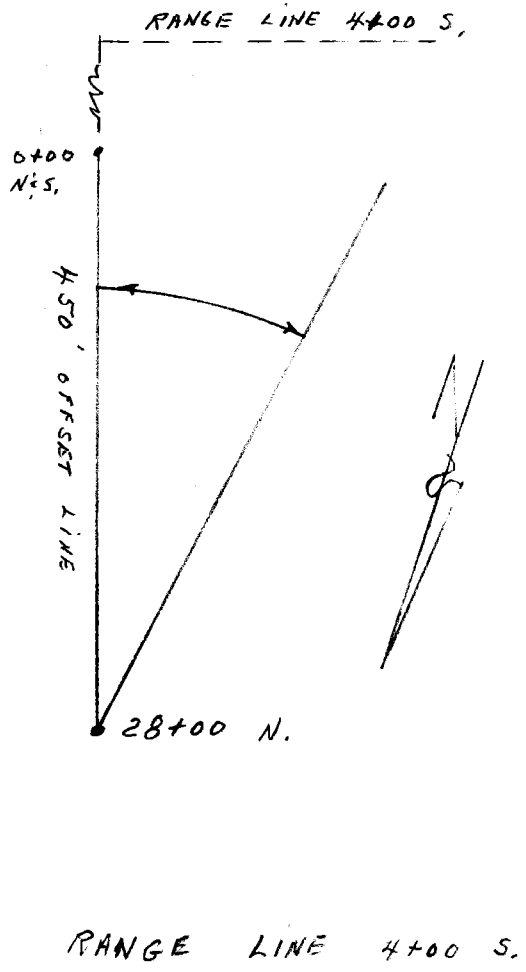
Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
28+00 N	0+00 N&S	8:43	1	54	45			
			2	52	50			
			3	50	47			
			4	48	21			
			5	46	15			
			6	43	54			
			7	41	18			
			8	38	10			
			9	34	45			
			10	31	10			
			11	28	15			
			12	24	08			
			13	20	02			
			14	16	20			
			15	13	45			
			16	11	14			
			17	9	54			
			18	8	31			
			19	7	08			
			20	6	11			



Profile Notes Red. ____ Plotted ____ Job No. 2300.00 Division No. 11
No. ____ Date ____ Date ____ Survey of BEACH EROSION PLAYA DEL REY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 3-18-77
No. ____ Date ____ Date ____ Map No. ____ Indexed T.M. PALMER Date AUG 11 1978

F. B. 2807 PG. 155

F. B. 2807 Pg. 156 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION PLAYA DEL REY Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

761.298 307 Cdb 12-62

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Do not extend notes this side of this line.

Inst. At Don't Punch	Sight On Don't Punch	Time Don't Punch	Angle No Don't Punch	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
28+00	0+00 N&S		21	5	20			
		8:50	22	4	26			

76-L-298 CE 307 2-63

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	7:30 A.M.	3-18-77
					M.L.L.W.	Inshore 6+00-S.
		2072				240.62 off.
6+00-S.	107	2163	016	2056	1X2, F.B. 2807-89.	
			15	201	Sand	240.62 off
			111	2052	15.0 L. edge	Pavmt B.P.
			95	121	65.0 R. brk.	Sand
			138	78	83.0 R.	"
	-08	95	113	103	83.0 R. top 1X2	
			42	47	100 R MHW	
					CUT INST AT 2+00 N SIGHT S.	
			144	-49	*1 32° 28'	509+241 = 750
			152	-57	2 24 59	373 = 614
			152	-57	3 21 48	320 = 561
			135	-40	4 18 14	264 = 505
			121	-26	5 15 52	227 = 468
			110	-15	6 13 15	188 = 429
			80	15	7 11 08	157 = 398
			67	28	8 9 26	133 = 374
			48	47	105 FT RIGHT MHW.	= 346

Profile No. X-Sec. No. Notes Red Date Notes Chkd. Date Plotted Date Checked Date Job No. 030002 Division No. 11 Survey of HYDO SURVEY Survey by English Noted Caro Date 3-18-77 Map No. Indexed J.M. PALMERI Date AUG 11 1978 F.B. 2807 Pg. 157

F. B. 2807 Pg. 158 Job No. 0300.02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of HYDRO SURVEY Date _____ Date _____ No. _____

Survey by DREIER Notes DREIER 3-18-77 Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76-L-298 CE 307 2-63

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76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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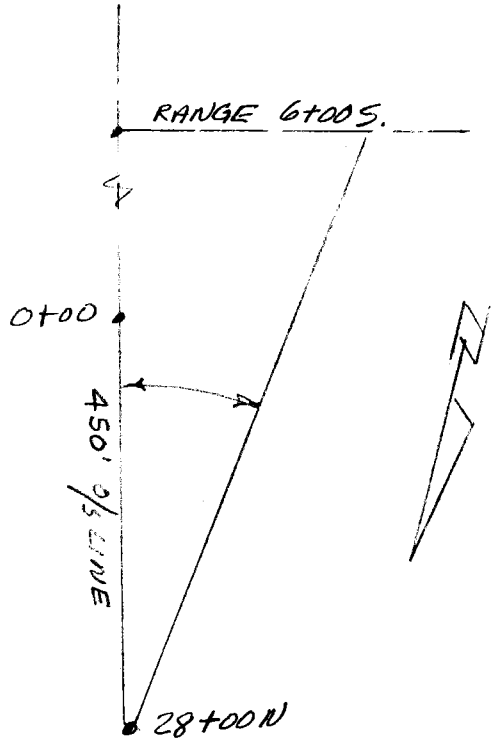
Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	FOR OFFICE USE ONLY LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
28+00N	0+00N	9:03	1	54	25			
			2	53	26			
			3	52	32			
			4	50	37			
			5	48	57			
			6	47	20			
			7	45	30			
			8	43	38			
			9	41	09			
			10	38	12			
			11	35	30			
			12	31	59			
			13	28	39			
			14	26	37			
			15	23	55			
			16	21	33			
			17	19	20			
			18	16	33			
			19	14	40			
			20	12	45			



RANGE LINE 6+00 S.

Profile No.____ Notes Red.____ Plotted.____ Job No. 0300.02 Division No. 11 F. B. 2807 Pg. 159

X-Sec. No.____ Date____ Notes Chkd.____ Date____ Checked____ Date____ Survey of BEACH EROSION PLAYA DEL REY

Survey by PALMARDS Notes R.T. Date 3-18-77

Map No.____ Indexed J.M. PALMER Date AUG 11 1978

76L298 307 Cdb 12-62

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Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
28+00	0+00 N.		21	11	03			
			22	9	45			
			23	8	45			
			24	7	50			
			25	7	05			
			26	6	20			
			27	5	33			
			28	4	35			
			29	3	30			
		9:12	30	2	55			

F. B. 2807 Pg. 160 Job No. 0300.02 Division No. 11 Notes Red. Plotted. Profile

Survey of BEACH EROSION PLAYA DEL REY Date Date X-Sec.

Survey by RICHARDS Notes R.T. Notes Chkd. Checked. No.

Indexed Date Date Date No.

76-L-296 CE 307 2-63

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	7:45 A.M.	3-18-77
					M.L.L.W.	Inshore 8+00-S.
		21 63				240.62 Off.
8+00 S.	233	21 47	249	1914	S.& T. in Pavm't., F.B. 2807-89.	
			200	1947	5.0 L. edge Pavm't. B. P.	
			109	106	81.0 R. brk.	Sand
			135	80	96.0 R.	"
	-180	92	105	110	96.0 R. top	1x2
			45	47	124 (28) M.H.W. cut (6)	INST. AT 6+00 S., SIGHT W
			59	33	1 33° 58'	135+241 = 376
			76	162	2 40 00	168 = 409
			86	06	3 42 17	182 = 423
			105	-13	4 47 46	220 = 461
			108	-16	5 53 19'	268 = 509
			122	-30	6 57 33	315 = 556
			140	-48	7 63 32	402 = 643
			134	-42	8 66 30	460 = 701
			127	-35	9 69 28	534 = 775
			140	-48	10 71° 15'	589 = 830

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2807 Pg. 161
No. ____ Date ____ Date ____ Survey of HYDO SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes T.W. PALMER Date 3-18-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date AUG 11 1978

F. B. 2807 PG. 162 | Job No. 0300.02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of HYDO SURVEY Date _____ Date _____ No. _____

Survey by _____ Notes DREIER 3-18-77 Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

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76-L-298 CE 307 2-63

76L298 307 Cdb 12-62

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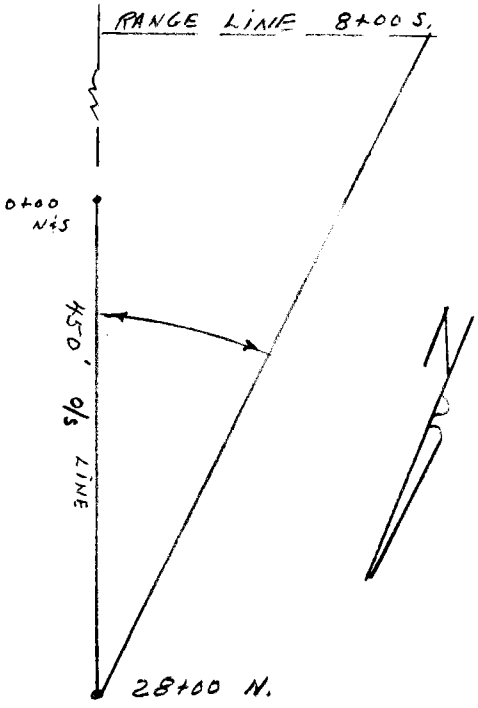
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
28+00 N.	0+00 N+S	9:23	1	53	35			
			2	52	15			
			3	50	40			
			4	48	58			
			5	47	13			
			6	45	30			
			7	43	46			
			8	42	12			
			9	40	23			
			10	38	32			
			11	35	40			
			12	32	53			
			13	30	16			
			14	27	34			
			15	24	56			
			16	21	43			
			17	18	36			
			18	15	45			
			19	13	14			
			20	11	11			



RANGE LINE 8+00 S.

Profile No.____ Date____ X-Sec. No.____ Date____

Notes Red.____ Date____ Notes Chkd.____ Date____

Plotted____ Date____ Checked____ Date____

Job No. 6300.02 Division No. 11 Survey of BEACH EROSION PLAN DEL REY Map No.____ Indexed____

Survey by RICHARDS Notes P.T. Date 3/8/70 T.M. PALMER Date____

F. B. 2807 PG. 163

76L298 307 Cdb 12-62

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Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
28+00 N	0+00 N.S		21	9	52			
			22	8	40			
			23	7	39			
			24	6	43			
			25	6	01			
			26	5	18			
			27	4	44			
		9:31	28	4	11			

F. B. 2807 Pg. 164 Job No. 030002 Division No. 11 Notes Red. Plotted Profile

Survey of BEACH EROSION PLAYA DEL REY Date Date No. X-Sec.

Survey by RICHARDS Notes Notes Chkd. Checked

Indexed Date Date Date No.

76-L-298 CE 307 5-66

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	8:00 A.M.	3-18-77
					M.L.L.W.	Inshore 10+00 -S.
		2147				240.62 off.
10+00S.	105	2095	157	1990	S.&T. in Bike Path, F.B. 2807-89.	
			112	1983	4.0 L. edge Pavm't. B.P.	
			30	180	34.0 L. brk. Sand	
			116	94	88.0 L.	"
	-21	95	94	116	88.0 L. top	1X2
					CUT INST. AT 6+00S, SIGHT SOUTH	
			150	-55	#1 55° 06'	573 + 241 = 814
			147	-52	2 52 45	526 = 767
			146	-51	3 49 22	466 = 707
			140	-45	4 45 46	411 = 652
			130	-35	5 42° 31'	367 = 608
			111	-16	6 38 02	313 = 554
			104	-09	7 31 09	242 = 483
			96	-01	8 25 14	189 = 430
			70	+25	9 22° 09'	163 = 404
			48	47	132 FT. R. M.H.W.	= 373

Profile No. ____ X-Sec. No. ____ Notes Red ____ Date ____ Notes Chk'd ____ Date ____ Plotted ____ Date ____ Checked ____ Date ____ Job No. 0300.02 Survey of HYDRO SURVEY Survey by English Notes Caro Map No. ____ Division No. 11 Date 3-18-77 Indexed T.M. PALMER Date AUG 11 1978

F.B. 2807 PG. 165

F. B. 2807 PG. 166 Job No. 0300.02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of HYDO SURVEY Date _____ Date _____ No. _____

Survey by DREIER Notes DREIER 3-18-77 Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

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76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

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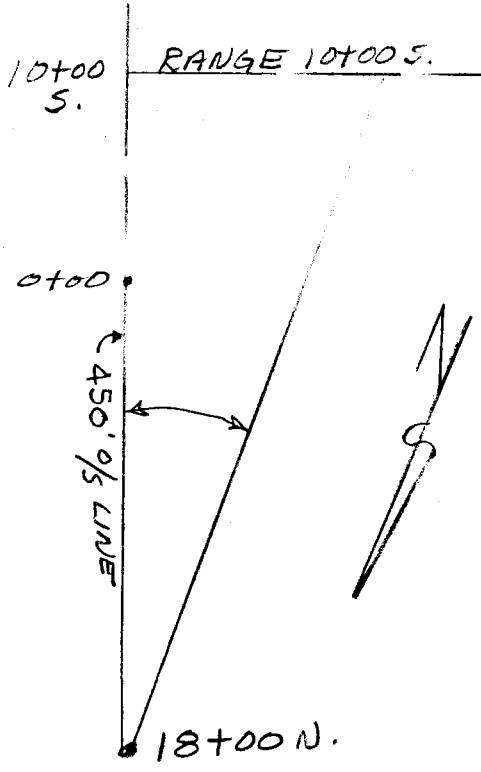
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
18+00 N	0+00 N	9:55	1	59	38			
			2	58	20			
			3	56	58			
			4	55	34			
			5	54	08			
			6	52	58			
			7	51	40			
			8	50	20			
			9	48	53			
			10	46	51			
			11	44	48			
			12	42	20			
			13	39	34			
			14	37	08			
			15	34	36			
			16	31	48			
			17	28	30			
			18	25	38			
			19	23	03			
			20	21	03			



RANGE LINE 10+00 S.

Profile Notes Red. Plotted Job No. 0300.02 Division No. 11 F. B. 2867 Pg. 167
No. Date Date Survey of BEACH EROSION PLAYA DEL REY
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes Date 3-14-78
No. Date Date Map No. Indexed J.M. PALMER Date

76L298 307 Cdb 12-62

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

Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
18+00N	0+00 N		21	19	02			
			22	17	25			
			23	15	58			
			24	14	46			
			25	13	26			
			26	12	09			
			27	10	30			
			28	9	16			
			29	8	16			
			30	7	20			
			31	6	24			
		10:04	32	5	29			

F. B. 2807 Pg. 168 Job No. 0100.02 Division No. 11 Notes Red. Plotted. Profile No.

Survey of BEACH EROSION PLAYA DEL REY Date Date X-Sec. No.

Survey by RICHARDS Notes Notes Chkd. Checked.

Indexed Date Date Date

76-L-298 CE 307 2-63

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	8:15 A.M	3-18-77
					M.L.L.W.	Inshore 12+50-S.
		2095				
T.P.	230	2291	034	2061		240.62 Off.
12+50-S.			178	2113	"X" painted, F.B. 2807-89	
			249	2042	1.5 L. E. edge Pavm't. B.F.	
			267	2024	15.4 L. W. " " " "	
			48	181	34.4 L. brk sand	
			84	145	52.4 L. top bk. "	
			107	122	54.0 L. toe " "	
			139	90	84.0 L "	
	-05	105	119	110	84.0 L. top 1x2	
			58	47	125 ft. L. M.H.W	
					CUT INST, AT 6+00 S	
			81	24	#1 12° 39'	146 + 241 = 387
			101	04	2 14 31	168 = 409
			135	-30	3 16 55	198 = 439
			130	-25	4 19 50	234 = 475
			140	-35	5 21 06	251 = 492
			122	-17	6 24 25	295 = 536
			128	-23	7 28 34	354 = 595
			138	-33	8 32 16	410 = 651

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 11
No. ____ Date ____ Date ____ Date ____ Survey of HYDO SURVEY
X-Sec. Notes Chk'd ____ Checked ____ Survey by English Notes Case Date 3-18-77
No. ____ Date ____ Date ____ Map No. ____ Indexed T.M. PALMER Date AUG 11 1978

F.B. 2807 Pg. 162

76-L-298 CE 307 2-63

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F. B. 2807 PG. 170 Job No. 03002 Division No. 11 Notes Red ____ Date ____ Plotted ____ Date ____ Profile No. ____
Survey of Hybo SURVEY Notes Chkd. ____ Date ____ Checked ____ Date ____ X-Sec. No. ____
Survey by DREIER Notes DREIER 3-18-77 Date ____
Indexed ____ Date ____

STATION	B. S.	H. I.	F. S.	ELEV.				
		105						
			150	-45	#9	35° 42'		467+241 = 768
			161	-56	10	38 50		523 = 764 RIGHT
			166	-61	11	41° 39'	SWIMMER OFF LINE 10 FT.	
								578 = 819

76L298 307 Cdb 12-62

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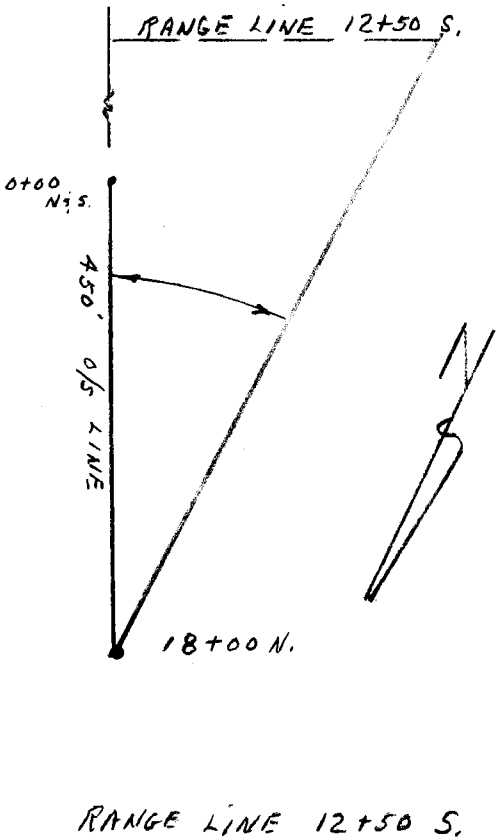
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
18+00 N.	0+00 N½S.	10:15	1	56	50			
			2	55	16			
			3	54	04			
			4	52	53			
			5	51	15			
			6	49	53			
			7	48	14			
			8	46	21			
			9	44	35			
			10	42	43			
			11	40	23			
			12	37	52			
			13	35	39			
			14	33	13			
			15	30	10			
			16	27	35			
			17	25	05			
			18	22	02			
			19	20	03			
			20	17	20			



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 2307.6 Division No. 11 F. B. 2807 Pg. 171
X-Sec. No. ____ Date ____ Date ____ Survey of REACH EROSION PLAYA DEL REY
Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by RICHARDS Notes ____ Date 3-18-77
Map No. ____ Index ~~F.M. PALMER~~ Date ~~AUG 11 1970~~

76L298 307 Cdb 12-62

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Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
18+00 N	0+00 N45.		21	15	47			
			22	14	31			
			23	13	10			
			24	12	05			
			25	11	05			
			26	9	50			
			27	8	59			
			28	8	09			
			29	7	07			
			30	6	22			
			31	5	40			
		10:24	32	4	52			

F. B. 2807 Pg. 172 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of BEACH EROSION PLAYA DEL REY Date Date No. X-Sec.

Survey by RICHARDS Notes Notes Chkd. Checked

Indexed Notes Date Date Date No.

76-L-298 CE 307 2-63

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
					M.L.L.W.	Inshore 15+00-S.
		2291				240.62 Off.
15+00-S	030	2185	136	21 55	Bt. S.W. & T. in Bike Bth., F.B. 2807-89	
			064	2124	15.0 R. edge Pavm't.	B.P.
			11	208	19.0 R. top bk.	sand
			60	159	36.0 R. toe "	"
			78	141	50.0 R. "	"
			100	119	54.0 R. "	"
			132	87	82.0 R.	"
	-120	92	115	104	82.0 R. top 1x2	
					CUT INST AT 6+00S, SIGHT SOUTH	
			147	-55	#1 33° 49'	603 +241 = 844
			145	-53	2 30 49	537 = 778
			168	-76	3 27 35	470 LOOKED OK = 711
			138	-46	4 24 24	408 = 649
			148	-56	5 21 00	345 = 586
			154	-62	6 18 55	308 = 549
			148	-56	7 17 50	290 = 531
			125	-33	8 14 47	238 = 479
			102	-10	9 13 18	213 = 454

Profile No. ____ Notes Red ____ Plotted ____
X-Sec. No. ____ Date ____ Date ____
Notes Chkd. ____ Checked ____
Date ____ Date ____
Job No. 0300.02 Division No. 11
Survey of HYDE SURVEY
Survey by English Notes Carp Date 3-15-81
Map No. ____ Indexed T.M. PALMER Date ____
F. B. 2807 Pg. 173

76-L-298 CE 307 2-63

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F.B. 2807 Pg. 174 | Job No. 03002 | Division No. 11 | Notes Red ____ Date ____ | Plotted ____ Date ____ | Profile No. ____
Survey of HYDO SURVEY | Notes Chkd. DREIER 3-18-77 Date ____ | Checked ____ Date ____ | X-Sec. No. ____
Survey by DREIER | Notes ____ Date ____
Indexed ____

STATION	B.S.	H.I.	F.S.	ELEV.		
		9.2				
			84	08	±10 11° 18'	180 + 241 = 421
			66	26	±11 9° 32'	151 = 392
			45	47	122 FT. L.M.H.W.	= 363

76L298 307 Cdb 12-62

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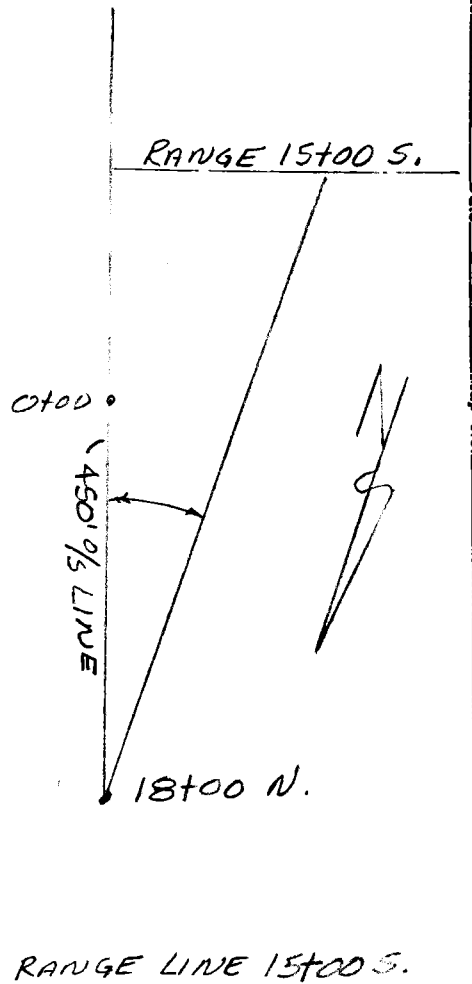
Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
18+00 N	0+00	10:38	1	56	25			
			2	55	27			
			3	54	17			
			4	53	02			
			5	51	38			
			6	50	19			
			7	48	28			
			8	46	25			
			9	44	47			
			10	43	03			
			11	41	41			
			12	39	55			
			13	37	55			
			14	35	45			
			15	33	43			
			16	31	32			
			17	28	55			
			18	26	32			
			19	24	23			
			20	22	20			



Profile No. ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 200 62 Division No. 11 Survey of BEACH EROSION PLAYA DEL REY

X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by R. RICHARDS Notes ____ Date 3-18-77 AUG 11 1978

Map No. ____ Date ____ Indexed T.M. PALMERI Date ____

F. B. 2807 Pg. 175

76L298 307 Cdb 12-62

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Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
18+00 N	0+00 N		21	20	01			
			22	17	58			
			23	15	54			
			24	13	59			
			25	12	32			
			26	11	35			
			27	10	45			
			28	9	50			
			29	9	08			
			30	8	11			
			31	7	35			
			32	6	53			
			33	6	24			
			34	5	44			
		10:49	35	5	14			

F. B. 2807 Pg. 176 Job No. 0300.02 Division No. 11 Notes Red. Plotted. Profile

Survey of BEACH EROSION PLAYA DEL REY Date Date No. X-Sec.

Survey by RICHARDS Notes Notes Chkd. Checked. No.

Indexed Date Date Date

76-L-298 CE 307 2-63

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
					M.L.L.W.	Inshore 17+50 - S.
		2185				240.62 Offset.
17+50S.	359	2338	206	1979	S.&T. in Bike Path. F.B. 2807-89.	
			380	1958	12.0 (R) edge Pavm't. B.P.	258
			45	189	77.0 R. top bk. Sand	318
			84	150	79.0 R. toe " "	320
			163	71	120.0 R. "	361
	-20	76	138	96	120.0 R. top 1×2	
			29	47	144 R M.H.W	= 385 (20+00)
					CUT INST AT 15+00S. SIGHT SOUTH	
			46	30	#1 34° 10'	170+241 = 411
			65	11	2 40 35	214 = 455
			80	-04	3 45 30	254 = 495
			100	-24	4 50 03	298 = 539
			114	-38	5 53' 40'	340 = 581
			128	-52	6 57 34	393 = 634
			133	-57	7 61 39	463 = 704
			138	-62	8 65 26	547 = 788
			130	-54	9 69 03	653 = 894
			162	-86	10 71 44	757 = 998

Profile Notes Red ____ Plotted ____ Job No. 03 00.02 Division No. 11 F.B. 2807 Pg. 177
No. ____ X-Sec. ____ Date ____ Date ____ Survey of HYDO SURVEY
No. ____ Notes Clkd ____ Checked ____ Survey by English Notes C. Date 3 Jul 1 1970
Date ____ Date ____ Map No. ____ Indexed M. PALMERT Date ____

F. B. 2807 Pg. 178 | 0300.02 Job No. _____ Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of HYDO SURVEY Date _____ Date _____ No. _____

Survey by DREIER et al, Notes DREIER 3-18-77 Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 2-63

76L298 307 Cdb 12-62

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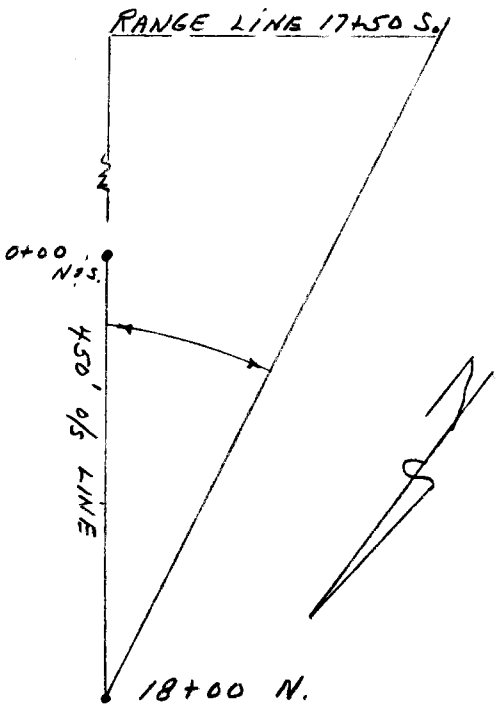
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
18+00 N.	0+00 N&S.	11:10	1	52	40			
			2	51	27			
			3	50	30			
			4	49	04			
			5	47	35			
			6	45	58			
			7	44	28			
			8	43	19			
			9	41	31			
			10	39	24			
			11	37	29			
			12	35	55			
			13	33	59			
			14	32	03			
			15	29	39			
			16	27	32			
			17	24	55			
			18	22	40			
			19	20	48			
			20	18	47			



RANGE LINE 17+50 S.

Profile Notes Red. Plotted Job No. 1300.01 Division No. 11 F. B. 2807 Pg. 179

No. Date Date Date Survey of RALPH EKASIAN PLAYA DEL REY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes J.M. PALMER Date 3-18-77

No. Date Date Map No. Indexed Date

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
18+00 N.	0+00 N&S.		21	17	23			
			22	15	20			
			23	13	18			
			24	11	50			
			25	10	32			
			26	9	38			
			27	8	44			
			28	7	54			
			29	6	57			
			30	6	07			
		11:20	31	5	47			

F. B. 2807 Pg. 180 Job No. 830002 Division No. 11 Notes Red. Plotted Profile No.

Survey of BEACH EROSION - PLAYA DEL RAY Date Date X-Sec. No.

Survey by RICHARDS Notes Notes Chkd. Checked

Indexed Notes Date Date

76-L-298 CE 307 2-63

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	9:30 A.M.	3-18-77
		23.38			M.L.L.W.	Ins Hole
T.P.	330	16.36	1032	1306	1X2	20+00-S.
			— —	— —		240.62 Offset
20+00-S.	+ rod		+318	2054	S&T. in Bike Path. F.B. 2807-89.	
	" "		+392	2028	10.0 R. edge Pavm't	B.P. 251'
	" "		+44	208	19.0 R. brk.	Sand 260
	" "		+39	203	72.0 R. top bk.	" 313
			52	112	76.0 R. toe "	" 317
			84	80	97.0 R.	" 338
	-190	82	63	101	97.0 R. top 1X2	20+00
					CUT INST. AT 15+00 S, SIGHT SOUTH	
			180	-98	#1 56° 45'	763+241 = 1004
			175	-93	2 55 51	737 = 978
			150	-68	3 53 46	682 = 923
			150	-68	4 50 15	601 = 842
			123	-41	5 46 50	533 = 774
			118	-36	6 45 42	512 = 753
			117	-35	7 41 33	443 = 684
			112	-30	8 37 47	388 = 629
			120	-38	9 31 00	300 = 541
			112	-30	10 27 19	258 = 499

Profile No. X-Sec. No.
Notes Red Date
Notes Clkd Date
Plotted Date
Checked Date
Job No. 0300.02
Survey of Hydro Survey
Survey by Engineer Notes Date 3-18-77
Map No. Indexed T.M. PALMERI Date AUG 11 1978
Division No.
F.B. 2807 Pg. 181

76-L-298 CE 307 2-63

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
		82				
			94	-12	±11 24° 06'	224+241 = 465
			83	-01	12 21 49'	200 = 441
			61	21	13 18° 34'	168 = 409
			35	47	127 FT RIGHT M.H.W	= 368
			23	59	115 FT " SAND	= 356

F. B. 2807 Pg. 182 | 0300.02 Job No. Division No. 11 Notes Red Plotted Profile
Survey of HYDO SURVEY Date Date No. X-Sec.
Survey by DREIER Notes DREIER 3-18-77 Notes Chkd. Checked
Indexed Date Date Date No.

76L298 307 Cdb 12-62

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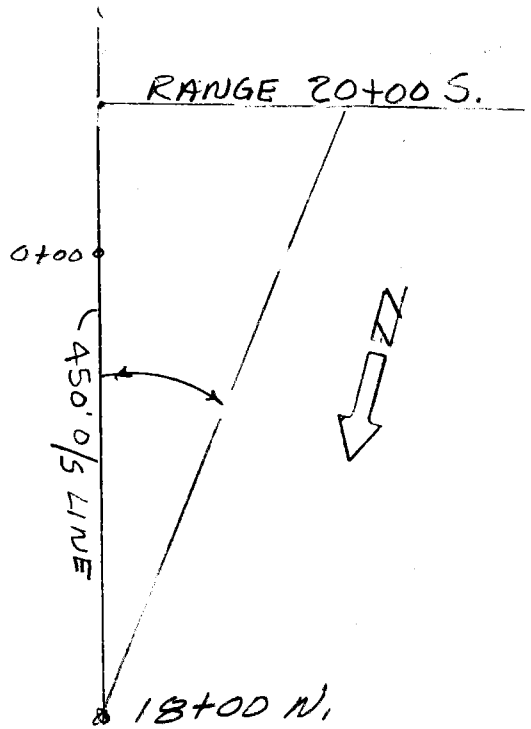
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
18+00 N	0+00 N	11:32	1	51	09			
			2	49	29			
			3	47	41			
			4	45	50			
			5	44	09			
			6	42	32			
			7	40	56			
			8	39	10			
			9	37	37			
			10	35	40			
			11	33	45			
			12	32	06			
			13	30	20			
			14	27	59			
			15	25	57			
			16	24	15			
			17	21	40			
			18	18	57			
			19	16	06			
			20	13	41			



RANGE LINE 20+00 S.

Profile Notes Red. Plotted Job No. 6300.02 Division No. 11

No. Date Date Survey of BEACH EROSION - PLAYA DEL REY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes M. PALMERI Date 3-18-77

No. Date Date Map No. Indexed Date AUG 11 1978

F. B. 2807 Pg. 183

76L298 307 Cdb 12-62

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

Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
18+00 N	0+00		21	12	05			
			22	10	42			
			23	9	44			
			24	8	48			
			25	8	15			
			26	7	35			
			27	7	05			
			28	6	28			
			29	5	57			
			30	5	32			
		11:42	31	4	53			

F. B. 2807 Pg. 184 Job No. 63004 Division No. 11 Notes Red. Plotted Profile

Survey of BEACH EROSION PLAYA DEL REY Date Date No. X-Sec.

Survey by RICHARDS Notes Notes Chkd. Checked

Indexed Date Date Date No.

EUGENE DIETZGEN CO.
MILWAUKEE
Stage Readings
Stage Readings
Stage Readings

			1.87	19 69	7.7	R. edge	Paum't	B. P. 249
			18	198	17.0	R. brk.		Sand 258
			10	206	63.0	R. top	bk.	" 304
			103	113	66.0	R. toe	"	" 307
			117	99	89.0	R.		" 330
	+02	10.1	117	99	89.0	R. top	1x2	
			14	87	100.0	R SAND		
			54	47	41 26° 39'			
					CUT INST. AT 20+005, SIGHT SOUTH, 25+005		MHW	
			80	21	2 30° 41'		148 +241	= 389
			94	07	3 34° 09'		170	= 411
			120	-19	4 40 34		214	= 455
			135	-34	5 46 49		266	= 507
			155	-54	6 52 46		329	= 570
			164	-63	7 56 44		381	= 622
			170	-69	8 61 07		453	= 694
			177	-76	9 64 21		521	= 762

Job No. 0300.02 Division No. 11
Survey of Hydro Survey
Survey by [redacted] Note [redacted] Date 3-21-73
Map No. Index RM PALMERI Date AUG 11 1978
F.B. 2807 Pg. 187

F. B. 2807 Pg. 188 | Job No. 030002 Division No. 11 Notes Red

Survey of HYDRO-SURVEY Date

Survey by ENGLISH-DRELER Notes Notes Chkd.

Indexed Date Date

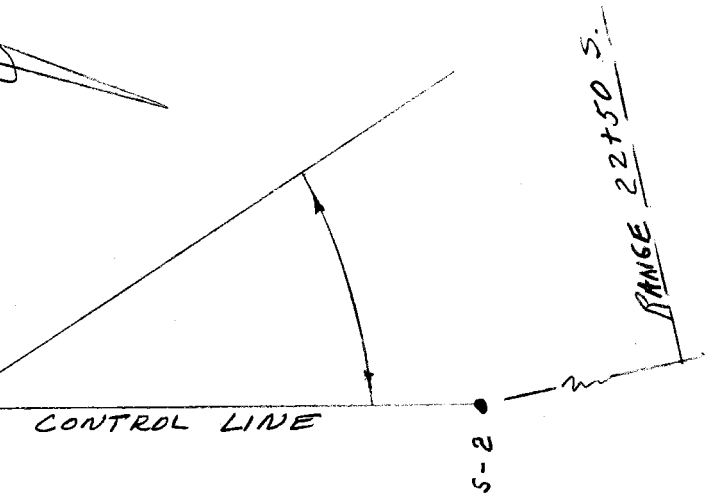
ed _____ Job No. 6300.02 Division No. 11 | F. B. 2807 Pg. 189

Survey of BEACH EROSION PLAYA DEL REY

ked _____ Survey by RICHARDS Notes _____ Date 3-21-77

Map No. _____ Indexed T.M. PALMERI Date _____

AUG 11 1978



4	307	31																					
5	309	01																					
6	310	59																					
7	313	02																					
8	315	30																					
9	317	55																					
10	319	35																					
11	322	15																					
12	324	40																					
13	327	15																					
14	329	40																					
15	332	05																					
16	335	27																					
17	338	23																					
18	340	53																					
19	342	13																					
20	343	15																					

F. B. 2807 PG. 190 Job No. 0300.02 Division No. 11 Notes Red.

Survey of BEACH EROSION PLAYA DEL REY Date

Survey by RICHARDS Notes Notes Chkd.

Indexed Date Date

			212	1944	5.6 R. edge Pavm't.		B.P.	247
			16	200	14.0 R.	brk.	Sand	255
			13	203	48.0 R. top	bk.	"	289
			49	167	54.0 R. toe	"	"	295
			166	50	136.0 R.		"	377
			136	80	136.0 R.	top	1X2	
	150	2106		1956	CUT INST AT 20+00 S. SIGHT TO S., 25+00			
T.P.	028	9.91	11.43	963				
			172	-73	#1 50° 37'		609 +241	= 850
			156	-57	2 47 20		542	= 783
			140	-41	3 44 22		489	= 770
			130	-31	4 39 49		417	= 658
			116	-17	5 36 33		371	= 612
			120	-21	6 26 50		253	= 494
			111	-12	7 22 22		206	= 447
			86	13	8 19 15		175	= 416
			72	27	9 17 16		155	= 396

(OVER)

Job No. 03300.02 Division No.

Survey of Hydro-Survey

Map No. Index J.M. PALMERI Date AUG 17

F.B. 2807 Pg. 91

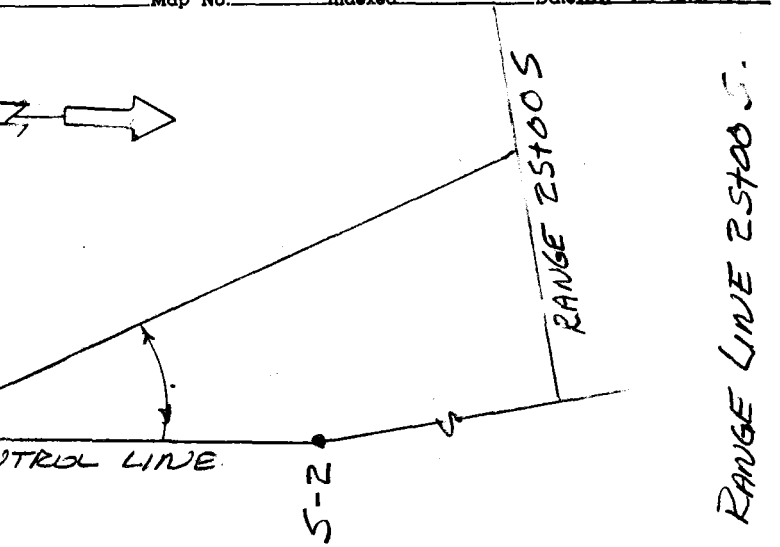
F.B. 2807 Pg. 192 | 130002 Job No. Division No. 11 Notes Red

Survey of HYDRO-SURVEY Date

Survey by ENGLISH-DREIER Notes Notes Chkd.

Indexed Date Date

ed Job No. 0300.02 Division No. 11 F. B. 2807 Pg. 193
Survey of BEACH EROSION PLAYA DEL REY
cked Survey by RICHARX Notes Date 3-21-77
Map No. Indexed J.M. PALMERI Date AUG 11 1978



F. B. 2807 PG. 194 Job No. 0300.02 Division No. 11 Notes Red.

Survey of BEACH EROSION PLAYA DEL REY Date

Survey by RICHARDS Notes Notes Chkd.

Indexed Date Date

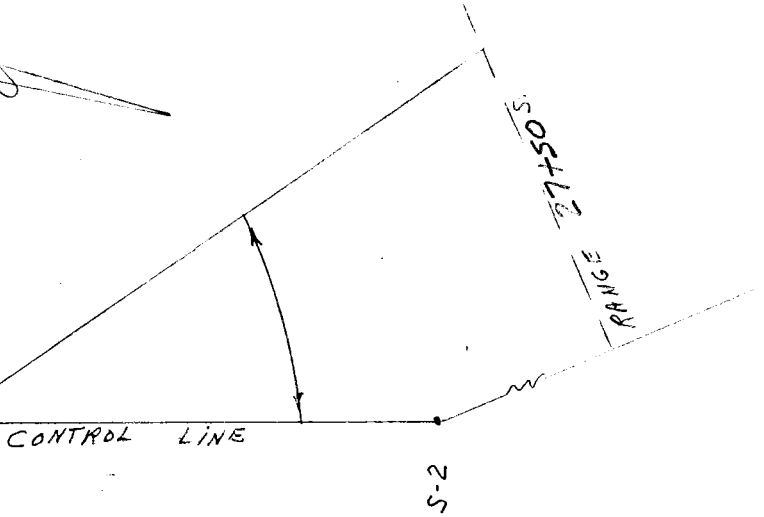
												8.59				
												27	26	25	24	
												346	345	344	343	
												27	47	37	48	

			185	1998	2.0 R. edge Pavm't.	B.P.	243
			10	208	12.0 R. brk.	Sand	253
			20	198	39.0 R. top Bk.	"	280
			93	125	59.0 R. toe "	"	300
T.P.	566	1705	1044	1139	1X2		
			111	60	132.0 R.	Sand	378
			87	84	132.0 R. top 1X2		
					CUT INST. AT 25+00 S, SIGHT SLY		
	142	2146		2004	S.&T		
T.P.	039	9,47	1238	908	100 FT RIGHT FLUSH WITH SAND		
			48	47	137 FT. " M.H.W.	=	378
			59	36	#1 31° 40'	154 + 241 =	395
			81	14	2 36 12	183 =	424
			112	-17	3 42 05	226 =	467
			116	-21	4 48 11	279 =	520
			122	-27	5 53 11	334 =	575
			114	-19	6 58 52	414 =	655

Job No. 03200.02 Division No.
Survey of Hydrosurvey
Surveyed by Engineering Science Date 3/21-22
Map No. Indexed M. PALMERI Date AUG 11 1978
F.B. 2807 Pg. 195

F. B. 2807 Pg. 196 | 030002
Job No. _____ Division No. 11 Notes Red _____
Survey of HYDRO-SURVEY Date _____
Survey by _____ Notes _____ Notes Chkd. _____
Indexed _____ Date _____ Date _____

ed Job No 2300.02 Division No. 11 F. B. 2807 Pg. 197
Survey of BEACH EROSION PLAYA DEL REY
ked Survey by [illegible] Notes Date AUG 1977
Map No. Indexed J.M. PALMERI Date



| | | |

F. B. 2807 PG. 198 Job No. 0300.02 Division No. 11 Notes Red.

Survey of BEACH EROSION PLAYA DEL REY Date

Survey by RICHARDS Notes Notes Chkd.

Indexed Date Date

													9:24			
													26	25	24	
													346	345	343	
													19	09	55	

" "		+405	21 14	3.5	R. edge Pavm't.	B.P.	245
" "		+39	21 0	14.5	R. top bk.	Sand	256
		41	130	16.0	R toe "	"	257
		106	65	98.0	R.	"	339
-04	89	78	93	98.0	R top 1x2		

CUT INST. AT 25+005, SIGHT ON S'LY

130	-41	1 43° 07'	468 +241	=	709
112	-23	2 38 00	391	=	632
110	-21	3 35 30	357	=	598
103	-14	4 30 06	290	=	531
115	-26	5 22 14	204	=	445
100	-11	6 17 48	161	=	402
75	+14	7 15 19	137	=	378
42	47	109 FT RIGHT MHW.		=	350
26	63	98. FT RIGHT AT 11:15 AM		=	339

Job No. 8302.02 Division No.
Survey of Hydro Survey
Surveyed
Survey by English Note Keeper Date 3-24-77
Map No. Indexed T.M. PALMER Date 10-11-78
F. B. 2807 Pg. 199

F. B. 2807 Pg. 200 Job No. 030002 Division No. 11 Notes Red

Survey of HYDRO-SURVEY Date

Survey by Notes Notes Chkd.

Indexed Date Date

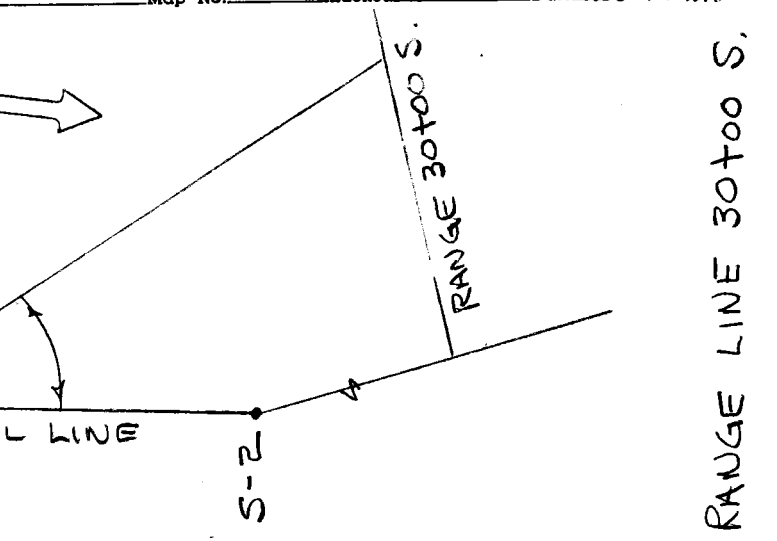
F. B. 2807 Pg. 201

ed Job No. 300.02 Division No. 11

Survey of BEACH EROSION PLAYA DEL REY

ked Survey by [illegible] Notes Date

Map No. Indexed J.M. PALMER Date AUG 11 1972



RANGE LINE 30+00 S.

4	301	49																			
5	303	34																			
6	304	58																			
7	306	31																			
8	308	08																			
9	309	23																			
10	311	02																			
11	312	53																			
12	314	04																			
13	316	28																			
14	318	25																			
15	320	45																			
16	323	00																			
17	325	20																			
18	327	49																			
19	330	18																			
20	332	55																			

F. B. 2807 PG. 202 Job No. R700.02 Division No. 11 Notes Red.

Survey of BEACH EROSION PLAYA DEL REY Date

Survey by RICHARDS Notes Notes Chkd.

Indexed Date Date

										9.46							
										30	29	28	27	26	25	24	
										346	345	45	344	342	341	340	
										17	32	06	16	47	40	22	

	" "		+518	2269	2.4	R. edge	Pavm't. B.	P.24
	" "		+51	226	11.0	R. top	Bk.	Sand 252
			37	138	15.0	R. toe	"	" 256
			95	80	70.0	R.		" 311
	+02	90	87	88	70.0	R. top	1X2	
			43	47	91.0	R.	M. HW	" 332
					CUT INST. AT 30+00 S., SIGHT ON 35+00 S			
			66	24	#1	24° 06'	112 + 241	= 353
			88	02	2	27° 54'	132	= 373
			113	-23	3	37 52	194	= 435
			126	-36	4	45 17	252	= 493
			138	-48	5	49° 54'	297	= 538
			138	-48	6	54 42	353	= 594
			154	-64	7	59 08	418	= 659
			163	-73	8	61° 16'	456	= 697

Job No. 03300.02 Division No. 11
Survey of HYDROSURVEY
Survey by [illegible] Date 3-21-77
Map No. Indexed T.M. PALMER Date AUG 11 1977
F.B. 2807 Pg. 203

F.B. 2807 Pg. 204 Job No. 030002 Division No. 11 Notes Red

Survey of HYDED-SURVEY Date

Survey by Notes Notes Chkd.

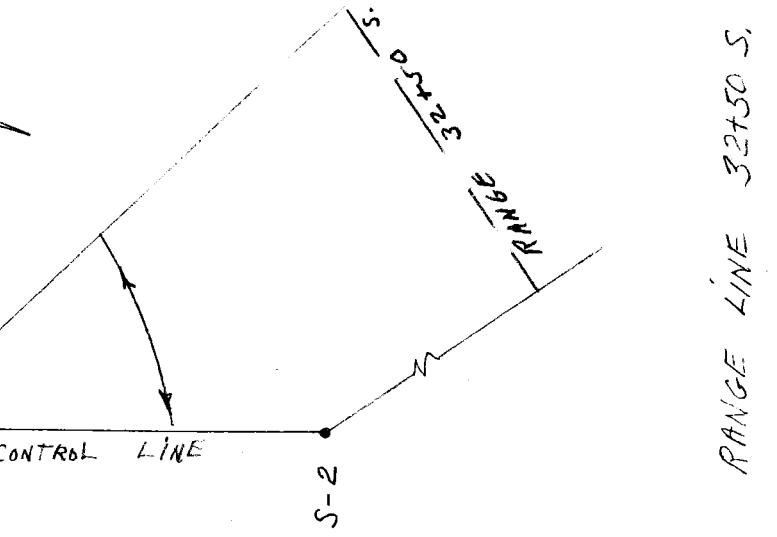
Indexed Date Date

ed_____ Job No. 8300.02 Division No. 11 | F. B. 2857 Pg. 205

Survey of BEACH EROSION PLAYA DEL REY

ked_____ Survey by RICHARDS Notes T.M. PALMER Date 8-21-77

Map No._____ Indexed_____ Date AUG 1 1 1978



4	311	01																		
5	313	05																		
6	315	17																		
7	317	35																		
8	319	48																		
9	321	52																		
10	324	05																		
11	326	38																		
12	328	36																		
13	331	05																		
14	333	34																		
15	336	57																		
16	339	20																		
17	341	23																		
18	342	54																		
19	343	58																		
20	344	58																		

F. B. 2807 PG. 206 Job. No. 2300.02 Division No. 11 Notes Red.

Survey of BEACH EROSION PLAYA DEL REY Date

Survey by RICHARDS Notes Notes Chkd.

Indexed Date Date

												10;21			
												27	26	25	24
												349	348	348	347
												16	46	19	49

			10	229	Sand	240.62 offset
			092	2296	2.0 L. edge Pavm't. B.P.	243
			12	227	14.0 R. top bk. Sand	255
T.P.	248	15 57	1079	1309	1 x 2	
			27	121	19.0 R. toe bk.	" 260
			100	56	100.0 R.	" 341
			73	83	100.0 R. top 1 x 2 (LOST)	
	18	99		81	37+50S. TOP. 1X2 FROM NEXT STATION PAGE	
					CUT INST. AT 30+00S, SIGHT ON 35+00S	
			148	-49	#1 43° 12'	470+241 = 711
			140	-41	2 38 20	395 = 636
			138	-39	3 34 18	341 = 582
			130	-31	4 27 52	264 = 505
			117	-18	5 23 37	219 = 460
			108	-09	6 18 06	163 = 404
			89	10	7 15 30	139 = 380
			75	-24	8 13 22	119 = 360

(OVER)

Job No. 0300.02 Division No.
Survey of HIGHWAY SURVEY
Survey by [redacted] 3-24-77
Map No. Indexed
Date AUG 11 1976
F.B. 2807 Pg. 207

F.B. 2807 Pg. 208 | Job No. 030002 Division No. 11 Notes Red

Survey of HYDRO-SURVEY Date

Survey by Notes Notes Chkd.

Indexed Date Date

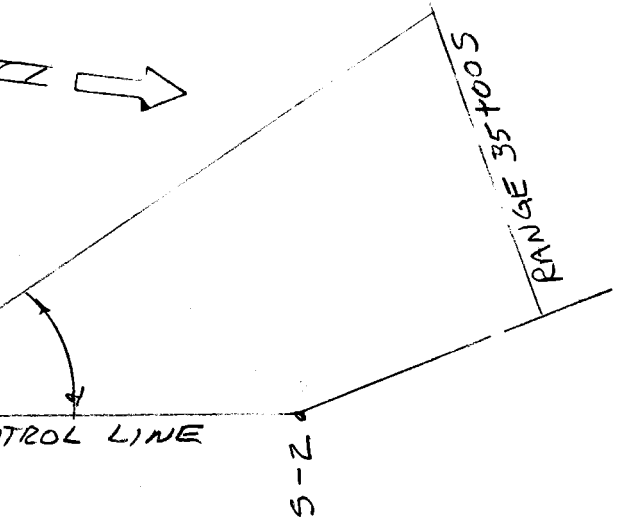
T.P.	1 44	109	0 00	95	71.5 RIGHT & FLUSHT WITH SAND 31
			2 82 F	81	37+595 TOP IX2 84 FT RIGHT

ed Job No. 2300.02 Division No. 11 F. B. 2807 Pg. 209

Survey of BEACH EROSION NAJA DEL REY

ked Survey by [illegible] Notes Date [illegible]

Map No. Indexed T.M. PALMER Date AUG 11 1978



RANGE LINE 35+00 S.

| | | |

F. B. 2807 PG. 210 Job No. 0300.02 Division No. 11 Notes Red.

Survey of BEACH EROSION PLAYA DEL REY Date

Survey by RICHARDS Notes Notes Chkd.

Indexed Date Date

													10:47			
													26	25	24	
													347	347	346	
													55	32	48	

	" "		813	2297	6.5	L. edge	Pavmt. B. P 244
	" "		79	227	5.6	R. top	ok 247
			20	128	11.5	R. toe	" Sand 253
			95	53	84.0	R.	" 325
	+023	83	67	81	84.0	R. top	1x2
			36	47	91	R	M.H.W. 332
					CUT INST. AT 35+00 S. & BACKSIGHT 30+00 S.		
			58	25	#1	23° 15'	107 +241 = 348
			84	-01	2	27 26	130 = 371
			87	-04	3	32 11	157 = 398
			96	-13	4	38 22	198 = 439
			97	-14	5	43 50	240 = 481
			110	-27	6	49 24	292 = 533
			123	-40	7	54 18	348 = 589
			140	-57	8	57 53	398 = 639
			152	-69	9	61 59	470 = 711

Job No. 8300.02 Division No. 11
Survey of Hydrosurvey
Survey by Eastern Note Book No. [illegible]
Map No. Indexed T.M. PALMER Date
F.B. 2807 Pg. 211

F. B. 2807 PG. 212 | 030002
Job No. _____ Division No. 11 _____ Notes Red _____
Survey of HYDRO-SURVEY _____ Date _____
Survey by _____ Notes _____ Notes Chkd. _____
Indexed _____ Date _____ Date _____

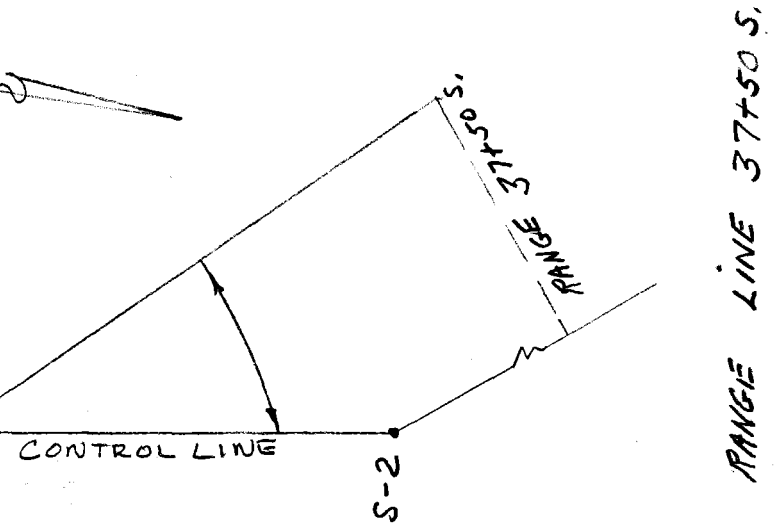
ed Job No. 2300.02 Division No. 11 F. B. 2807 Pg. 213

Survey of BEACH EROSION PLAYA DEL REY

cked Survey by [illegible] Notes T.M. PALMER Date [illegible]

Map No. Indexed Date

AUG 11 1978



4	309	12																					
5	310	59																					
6	313	04																					
7	314	59																					
8	317	14																					
9	318	47																					
10	321	12																					
11	323	12																					
12	325	18																					
13	327	39																					
14	330	19																					
15	332	21																					
16	334	34																					
17	336	54																					
18	339	32																					
19	341	19																					
20	342	46																					

F. B. 2807 PG. 214 Job No. 0300.02 Division No. 11 Notes Red.

Survey of BEACH EROSION PLAYA DEL REY Date

Survey by RICHARDS Notes Notes Chkd.

Indexed Date Date

															11.12		
															25	24	
															348	347	
															06	11	

	" "		+776	2370	10.8 L. edge	Pavmt. B.P.	230
	" "		+59	218	10.3 R. top	bk. sand	451
			39	120	15.5 R toe	" "	257
			102	57	64.0 R.	"	305
	02	82	75	84	64.0 R. top	1×2 "	

CUT INST. AT 35+00S. & BACKSIGHT 30+00S

139	-57	1	43° 31'		475 + 241	= 716
124	-42	2	38 10		393	= 634
148	-66	3	33 05		326	= 567
140	-58	4	27 11		257	= 498
114	-32	5	20 32	187	* SHOULD HAVE BEEN LARGER OFF LINE TO LEFT	
99	-17	6	18 15		165	= 406
98	-16	7	13 12		117	= 358
60	22	8	10 38		94	= 335
35	47	75 FT RIGHT on H.W.				= 316

Job No. 0300.02 Division No. 11
Survey of Hydrosurvey Date 3-21-77
Survey by [illegible] Noted [illegible] Date
Map No. Indexed T.M. PALMER Date AUG 11 1978

F.B. 2807 Pg. 215

F. B. 2807 PG. 216 | Job No. 0300,02 Division No. 11 Notes Red

Survey of Date

Survey by Notes Notes Chkd.

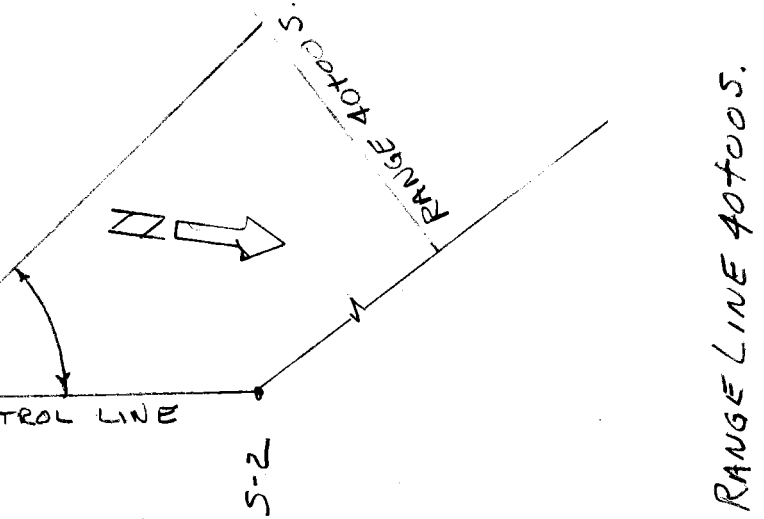
Indexed Date Date

d_____ Job No 0300.02 Division No. 11 | F. B. 2807 Pg. 217

Survey of BEACH EROSION PLAYA DEL REY

ked_____ Survey by [illegible] Notes_____ Date 11/77

Map No._____ Indexed T.M. PALMERI Date ~~AUG 1 1 1978~~



RANGE LINE 40 TO 05.

4	306	25																					
5	308	00																					
6	309	57																					
7	311	48																					
8	313	42																					
9	316	32																					
10	318	50																					
11	321	15																					
12	323	58																					
13	326	25																					
14	328	39																					
15	330	54																					
16	333	14																					
17	335	33																					
18	337	43																					
19	339	54																					
20	341	12																					

F. B. 2807 PG. 218 Job No. 2800.02 Division No. 11 Notes Red.

Survey of BEACH EROSION PLAYA DEL REY Date

Survey by RICHARDS Notes Notes Chkd.

Indexed Date Date

												11:35				
												27	26	25	24	
												347	347	346	345	
												48	06	22	46	

			092	1992	190.9 R.	edge	conc.	B.P.
			56	152	245.0 R.		brk.	Sand.
			88	120	262.0 R.		"	"
			121	87	314.0 R.			"
	-262	86	96	112	314.0 R.	top	1X2	
			39	47	342 R	M.H.W		

CUT INST. AT 40+00 S., BACKSIGHT ON 37+50 S.

66	20	#1	26° 34'	125	+241	= 366
89	-03	2	30 47	149		= 390
94	-08	3	36 04	182		= 423
108	-22	4	40 42	215		= 456
114	-28	5	46 10	260		= 501
127	-41	6	50 20	301		= 542
138	-52	7	53 56	343		= 584
140	-54	8	57 16	359		= 630
140	-54	9	59 12	419		= 660
165	-79	10	60 48	447		= 688
183	-97	11	62° 19'	477		= 718

Job No. 03000.02 Division No. F.B. 2807 #219

Surveyed Survey of HydroSurvey

Worked Survey by Elliott Noted Date 3-21-77

Map No. Indexed R.M. PALMIERI Date AUG 11 1978

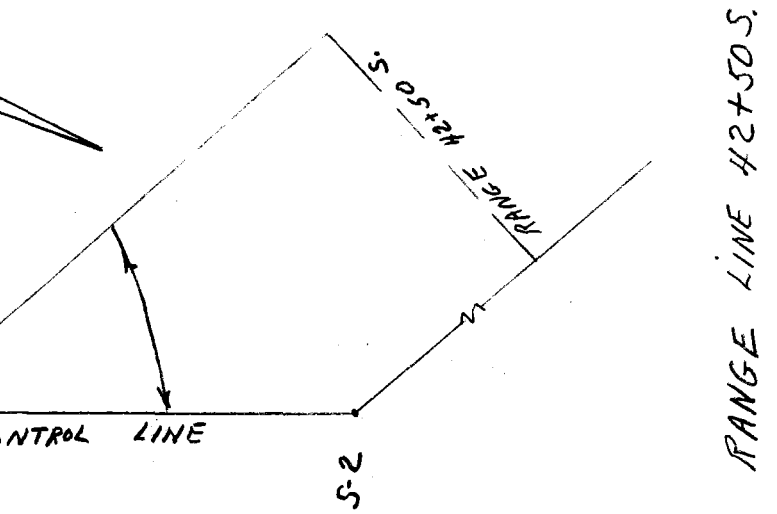
F.B. 2807 Pg. 220 | Job No. 030002 Division No. 11 Notes Red

Survey of HYDRO-SURVEY Date

Survey by Notes Notes Chkd.

Indexed Date Date

ed	Job No. 0300.07	Division No.		F. B. 2801	Pg. 221
	Survey of BEACH EROSION PLAN DEL REY				
ked	Survey by	Notes		Date AUG 11 1978	
	Map No.	Indexed L. M. PALMER		Date	



4	303	44																					
5	305	09																					
6	307	23																					
7	309	19																					
8	311	14																					
9	313	02																					
10	315	25																					
11	318	17																					
12	320	29																					
13	323	24																					
14	325	57																					
15	329	03																					
16	331	35																					
17	334	20																					
18	337	01																					
19	338	39																					
20	340	09																					

F. B. 2807 PG. 222 Job No. 0300.02 Division No. 11 Notes Red.

Survey of BEACH EROSION PLAYA DEL REY Date

Survey by RICHARDS Notes Notes Chkd.

Indexed Date Date

			000	2200	50.0 R. edge	conc. B. P.
			09	211	50.0 R.	Sand
			57	163	231.0 R.	brk. "
			97	123	248.0 R.	" "
			138	82	325.0 R.	"
-23	84		113	107	325.0 R.	top 1X2
					CUT INST. AT 40+00 S., BACKSIGHT ON 37+50 S.	
			191	-107	1 52° 12'	645
			165	-81	2 49 03	576
			148	-64	3 43 29	474
			133	-49	4 39 00	405
			108	-24	5 35 20	354
			99	-15	6 31 30	306
			94	-10	7 25 42	241
			91	-07	8 20 46	190
			95	-11	9 18 14	165
			88	04	10 16 12	145

OVER

Job No. 0300.02 Division No. 11 F.B. 2807 Pg. 23

Survey of Hydrosurvey

Survey by English Noted Card Date 3-21-77

Map No. Indexed M. PALMER Date AUG 11 1978

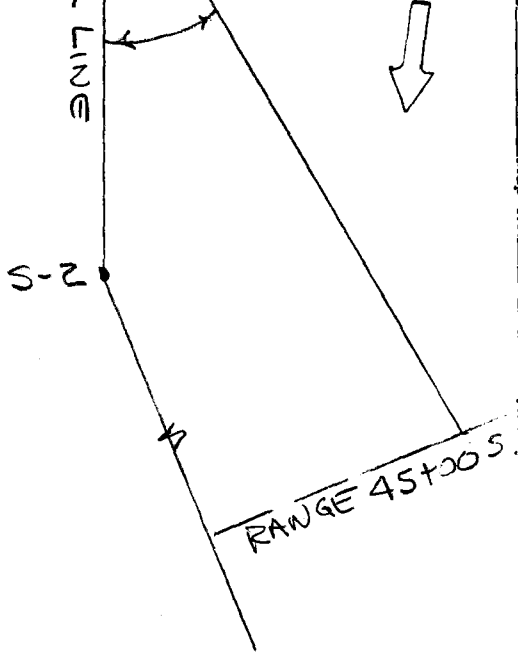
F. B. 2807 PG. 224 Job No. 0300.02 Division No. 11 Notes Red

Survey of HYDB SURVEY Date

Survey by DREIER Notes DREIER 3-21-77 Notes Chkd.

Indexed Date Date

			4	298	57			
			5	300	39			
			6	302	20			
			7	303	58			
			8	305	59			
			9	307	43			
			10	310	11			
			11	312	43			
			12	315	30			
			13	318	23			
			14	321	15			
			15	324	41			
			16	328	08			
			17	331	45			
			18	334	53			
			19	337	14			
			20	338	32			



RANGE LINE 45+00 S

Job No. 0300.03 Division No. 11 F. B. 2807 Pg. 225
Survey of BEACH EROSION PHASE PRE PET
Survey by [illegible] Notes
Date AUG 11 1978
Indexed T. M. PALMERI Date
Map No.

F. B. 2807 PG. 226 Job No. ~~2300.01~~ Division No. 11 Notes Red.

Survey of BEACH EROSION PLAYA DEL REY Date

Survey by RICHARDS Notes Notes Chkd.

Indexed Date Date

											12:21						
											28	27	26	25	24		
											346	345	344	344	343		
											04	30	52	07	00		

EUGENE DIETZGEN CO.
MILLIMETER
Mon March 21, 1977
The March 22,
Graph Red Line Tri Mullaw
Mon 3-21-77 H. Goldman
Observer
Time
Observer
10:00 +0.6
11:00 +0.3
12:00 -0.3
13:00 -1.4
14:00 -2.4
15:00 -2.6
16:00 -2.2
12:00 +0.4
13:00 +0.0
14:00 -1.2 W.

76-L-298 CE 307 2-63

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	7:00 A.M. 3-22-77	
		22 00			M.L.L.W.	Inshore
T.P.	839	29 10	129	2071	1×2	47+50 - S.
B.M.27-1	707	33 75	242	26 68	B.M.27-1, EL=26.68, F.B.2100-167.	Control Line
47+50 -S.			502	28 23	S.&T. in Parking lot. F.B. 2807-90	
T.P.	154	24 44	1085	2290	1×2	
			417	2027	99.0 R. edge Conc.	Bike Path
			83	161	253.0 R. top brk.	Sand
	032	17 15	761	1683	1×2	
			33	139	255.0 R.	brk. Sand
			114	58	321.0 R.	"
	+16	10 1	87	85	321.0 R top 1×2	
			54	47	324 R m.HW.	
			77	24	CUT IN ST. AT 45+00 S., SIGHT ON 47+50 S.	
					*1 54° 31' 351'	
			87	14	2 55° 40' 366	
			121	-20	3 56 40 380	
			130	-29	4 59 04 417	
			119	-18	5 61 53 468	
			140	-39	6 66 11 566	
			131	-30	7 69 24 665	
			137	-36	8 68 09 623	
			141	-40	9 71 15 736	
			152	-51	10 72 42 803'	

Profile Notes Red. Plotted Job No. 3300.02 Division No. 11 F.B. 2807 Pg. 229
No. X-Sec. Date Date Survey of Hydrosurvey
Notes Chkd. Checked Survey by English Notes by J.M. PALMER Date 3-22-77
Date Date Map No. Indexed Date AUG 11 1977

F. B. 2807 Pg. 230 | 030002 Job No. _____ Division No. 11 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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403 Los Angeles County Engineering Bldg.

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

76-L-298 CE 307 2-63

76L298 307 Cdb 12-62

PLEASE RETURN TO

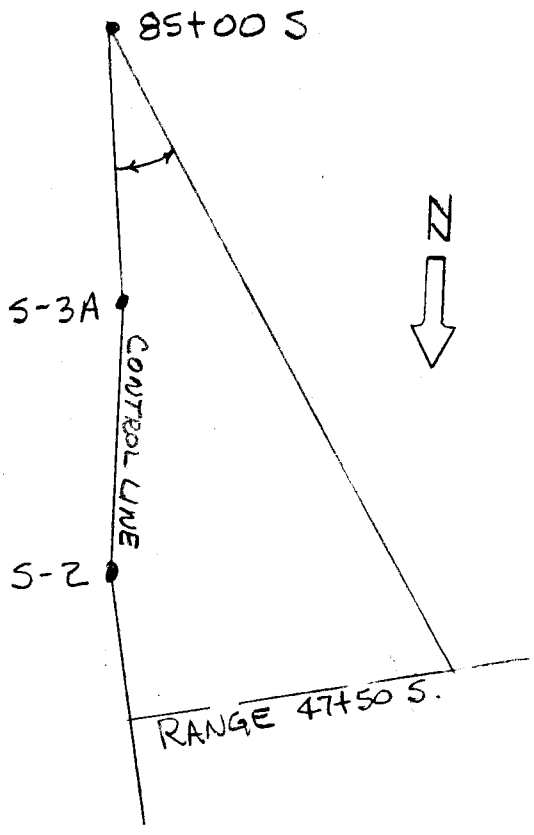
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	FOR OFFICE USE ONLY LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
85+00 S	S-3A	8:02	1	302	53			
			2	303	40			
			3	305	09			
			4	307	18			
			5	309	04			
			6	311	05			
			7	312	28			
			8	314	45			
			9	317	01			
			10	319	19			
			11	322	17			
			12	325	32			
			13	328	45			
			14	332	48			
			15	336	26			
			16	339	30			
			17	341	27			
			18	343	16			
			19	344	41			
			20	346	04			



RANGE LINE 47+50 S.

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 2000 A.L. Division No. 11

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

Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by RICHARDS Notes T.M. PALMER Date 3-22-77

Map No. ____ Date ____ Indexed ____ Date AUG 11 1978

F. B. ____ Pg. 231

F. B. 2807 Pg. 232 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION PLAYA DEL REY Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

761.298 307 Cdb 12-62

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Inst. At Don't Punch	Sight On Don't Punch	Time Don't Punch	Angle No Don't Punch	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
85+00 S	S-3A		21	346	58			
			22	348	30			
			23	350	06			
		8:13	24	351	10			

76-1 298 CE 307 3-61

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	7:30 A.M.	3-22-77
					M.L.L.W.	Inshore
		17 15				52+50-S.
T. P.	963	21 12	566	1149	1×2	Control Line
52+50-S.			— —	28 68	S.&T. in Parking lot.	F.B. 2807-90.
			002	21 10	60.6 R. edge	Conc. B. P.
			39	172	170.0 R.	brk. Sand
			58	153	274.6 R. top	brk "
			150	61	342.0 R.	"
	+01	92	120	91	342.0 R. top	1×2
					CUT INST AT 45+00S, SIGHT ON 47+50S	
			142	-50	*1 45° 04'	751'
			139	-47	2 41 29	663'
			138	-46	3 39 43	623'
			127	-35	4 35 17	531'
			102	-10	5 32 40	481'
			98	-06	6 30 29	441'
			90	02	7 27 56	398'
			75	37	8 26 39	376'
			59	33	9 25 40	360'
			45	47	352 FT RIGHT MH.W.	

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____
No. ____ Date ____ Date ____ Survey of Engineering Survey
X-Sec. ____ Notes Chkd. ____ Checked ____ Survey by ____ Note Corp Date 3-22-1977
No. ____ Date ____ Date ____ Map No. ____ Indexed F.M. PALMER Date ____

F.B. 2807 Pg. 233

F.B. 2807 Pg. 234 | 030002

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

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L298 CE 307 3-61

76L298 307 Cdb 12-62

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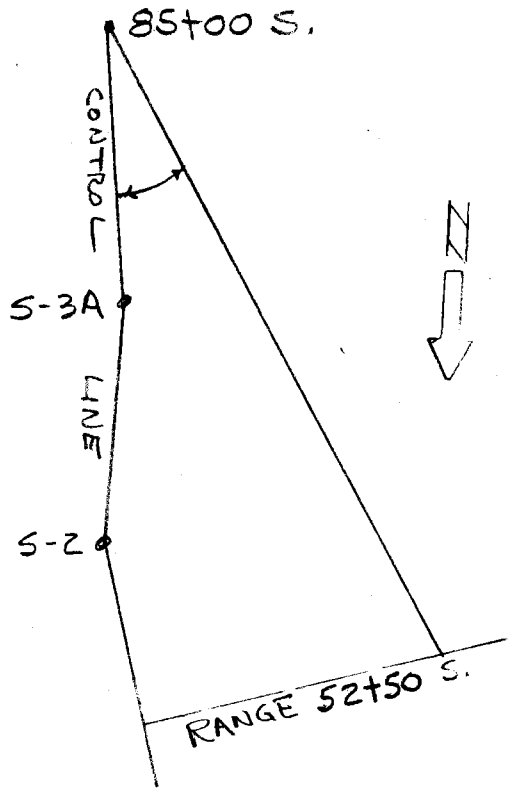
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
85+00 S	S-3A	8:45	1	301	12			
			2	302	19			
			3	303	20			
			4	304	50			
			5	306	20			
			6	308	06			
			7	309	55			
			8	312	27			
			9	315	59			
			10	319	54			
			11	325	17			
			12	330	11			
			13	334	36			
			14	337	49			
			15	340	05			
			16	341	02			
			17	342	57			
			18	344	47			
			19	346	22			
			20	347	53			



RANGE LINE 52+50 S

Profile Notes Red ____ Plotted ____ Job No. 2360.02 Division No. 11 F. B. 2607 Pg. 235
No. ____ Date ____ Date ____ Survey of BEACH EROSION PLAYA DEL REY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes J.M. PALMER Date 3-22-77
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date AUG 11 1978

F. B. 2807 Pg. 236 Job No. 050002 Division No. 11 Notes Red. Plotted Profile

Survey of BEACH EROSION PLAYA DEL REY Date Date No.

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

Indexed Date Date Date No.

Inst. At	Don't Punch	Sight On	Don't Punch	Time	Don't Punch	Angle No	Don't Punch	Hor. Angle Deg.	Min.	For Office Use Only Range Line Deg.	Min.	Card No.
	85+00		S-3A		8:54		21		348		50	

761.298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76-L-298 CE 307 S-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED IKK, 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.	8:00 A.M. 3-22-77	
					M.L.L.W.	Inshore
		21 12				57+50.S
T.P.	700	2234	578	1534	1X2	Control Line
57+50-S			— —	29 62	Bt. S.B.T., Pvmt., F.B. 2807-90.	
			055	2179	65.4R. edge conc. B.P.	
			54	169	171.0 R.	brk. sand
			69	154	290.0 R. top	" "
			167	56	363.0 R.	"
	06	88	141	82	363.0R top 1X2	
					CUT INST. AT 52+50S, SIGHT ON 57+50 S	
			41	47	373 FT. RIGHT M.H.W.	
			57	31	381 " " SAND	
			64	24	1 39° 44'	394'
			90	-02	2 40 57	411
			102	-14	3 43 04	442
			102	-14	4 45 02	472
			102	-14	5 47 30	513
			103	-15	6 50 17	564
			118	-30	7 53 10	623
			130	-42	8 55 16	670
			140	-52	9 56 56	711
			154	-66	10 58' 52'	763

Profile Notes Rel. Plotted
No. Date Date Job No. 0300.02 Division No.
X-Sec. Notes Chk'd. Checked Survey of Hydrosurvey
No. Date Date Survey by English Nos. 2807 Date 3-22-77
Map No. Indexed J.M. PALMER Date AUG 11 1978

F. B. 2807 PG. 237

F. B. 2807 Pg. 238 | Job No. 030002 Division No. 11 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

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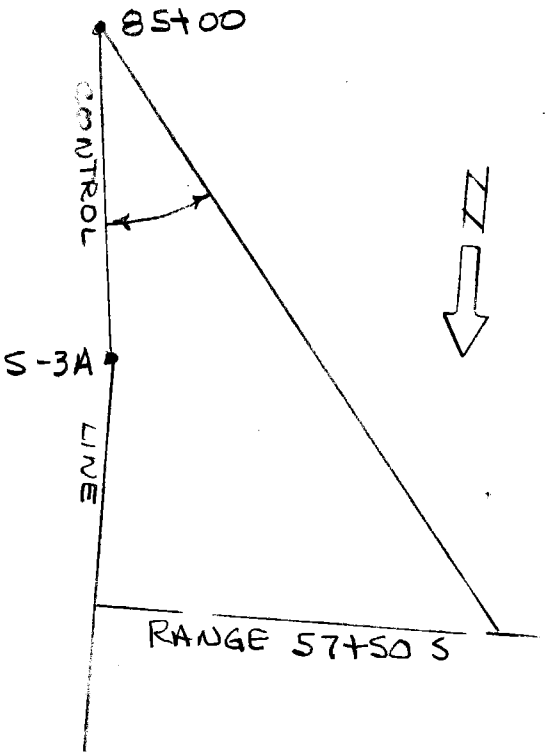
Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
85+00 S	S-3A	9:07	1	301	10			
			2	301	47			
			3	303	40			
			4	305	08			
			5	307	09			
			6	309	41			
			7	312	30			
			8	315	32			
			9	318	27			
			10	322	42			
			11	325	53			
			12	328	25			
			13	332	16			
			14	335	15			
			15	337	32			
			16	338	51			
			17	340	20			
			18	342	18			
			19	343	55			
			20	345	16			



RANGE LINE 57+50 S.

Profile Notes Red. Plotted Job No. 23002 Division No. 11 F. B. 2807 Pg. 239
No. Date Date Survey of REACH EROSION PLAYA DEL REY
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes Date 3-22-77
No. Date Date Map No. Indexed T.M. PALMER Date AUG 1 1978

F. B. 2807 Pg. 240 Job No. 12300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION PLAYA DEL REY Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

761298 307 Cdb 12-62

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

Inst. At Don't Punch	Sight On Don't Punch	Time Don't Punch	Angle No Don't Punch	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
85+00 S	S-3A		21	346	37			
			22	348	08			
		9:18	23	349	05			

76-1-298 CE 307 3-61

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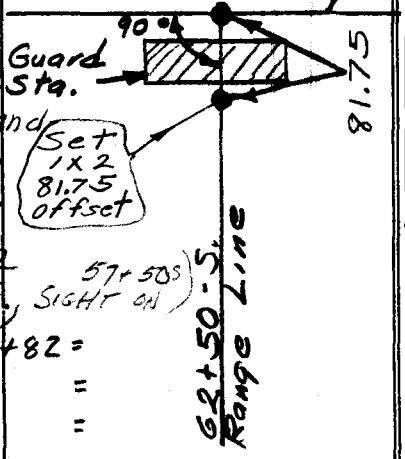
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	8:30 A.M.	3-22-77
					M.L.L.W.	Inshore 62+50-S. Control line
		2234				
T.P. 62+50-S.	441	2029	646	1588	1x2	
			— —	— —	Spk. in Pavm't.	
			254	1775	70.2 R. flr. G. Sta.	Guard Sta.
			53	150	286.0 R. top brk sand	
			95	105	291.0 R. " "	
			144	59	337.0 R. "	
	+02	90	115	88	337.0 R. top 1x2	
					CUT INST. AT 52+50-S, SIGHT ON 57+50S	
			150	-60	#1 41° 05' 872	+82 =
			150	-60	2 38 38 799	=
			156	-66	3 35 14 706	=
			137	-47	4 31 37 616	=
			147	-57	5 28 39 546	=
			136	-46	6 26 41 503	=
			108	-18	7 24 02 446	=
			93	-03	8 22° 48' 420	=
			70	20	9 21 55 402	=
			43	47	346 FT RIGHT M.H.W.	=



Profile No. X-Sec. No. Notes Red Date Notes Chkd. Date Plotted Date Checked Date Job No. 03000.02 Division No. Survey of Hydrosurvey Survey by English Map No. Indexed T.M. PALMER Notes Carcobe Date 3-22-77 Date AUG 1 1977 F.B. 2807 Pg. 241

F. B. 2807 Pg. 242 | Job No. 0300.02 Division No. 11 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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76-L298 CE 307 3-61

76L298 307 Cdb 12-62

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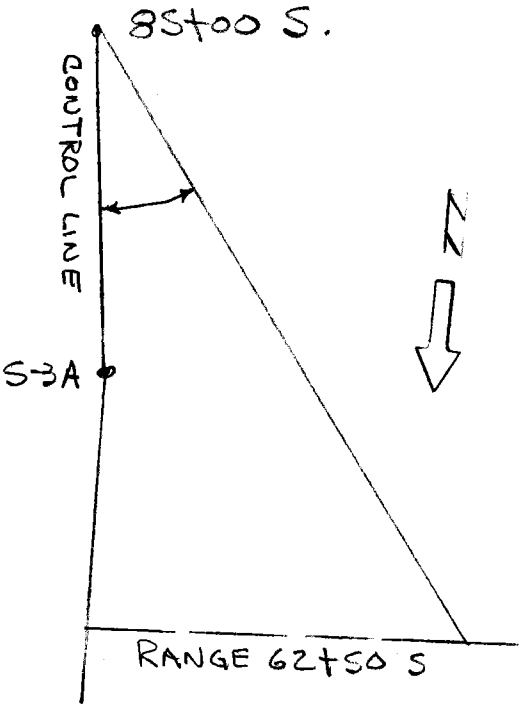
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
85+00 S	S-3A	9:48	1	296	22			
			2	297	19			
			3	297	51			
			4	299	11			
			5	301	08			
			6	302	37			
			7	304	28			
			8	306	05			
			9	307	55			
			10	310	02			
			11	311	11			
			12	312	13			
			13	314	05			
			14	316	27			
			15	320	45			
			16	324	42			
			17	327	35			
			18	331	51			
			19	334	41			
			20	336	20			



RANGE LINE 62+50 S.

Profile Notes Red. Plotted Job No. 0340.02 Division No. 11 F. B. 2807 PG. 243
No. Date Date Survey of PERKIN EXTension PLAYA DEL REY
X-Sec. Notes Chkd. Checked Survey by RICHARD Notes Date 3-22-77
No. Date Date Map No. Indexed T.M. PALMER Date AUG 11 1978

76L298 307 Cdb 12-62

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Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
85+00 S	S-3A		21	338	21			
			22	339	19			
			23	341	22			
			24	342	52			
			25	346	11			
		9:56	26	349	01			

F. B. 2867 Pg. 244 Job No. 0300.02 Division No. 11 Notes Red. Plotted No.

Survey of BEACH EROSION PLAYA DEL REY Date Date X-Sec.

Survey by RICHARDS Notes Notes Chkd. Checked No.

Indexed Date Date Date

76-I-298 CE 307 3-61

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	9:00 A.M.	3-22-77
					M.L.L.W.	Inshore
		2029				67+50-S.
T.P.	446	2020	455	1574	1x2	Control line
67+50-S			— —	— —	Bike Path, "x" Painted	
			01	201	53.0R. toe bk.	Sand
			39	163	163.0R. "	"
			47	155	262.0R. top "	"
			135	67	345.5R.	"
	01	95	108	94	345.5R. top 1x2	
			48	47	364.18 R. MHW	
					CUT INST AT 62+50S, BACKSIGHT 57+50S.	
			70	25	#1 37° 24'	382'
			80	15	2 39 04	406
			105	-10	3 39 52	418
			114	-19	4 42 10	453
			125	-30	5 44 51	497
			132	-37	6 47 26	544
			146	-51	7 50 06	598
			148	-53	8 52 26	650
			140	-45	9 55 50	737

Profile No. ____ X-Sec. No. ____ Notes Red ____ Date ____ Notes Chkd. ____ Date ____ Plotted ____ Date ____ Checked ____ Date ____ Job No. 8300.02 Division No. ____ Survey of Hydrosurvey Survey by Engrs. Notes Crew Date 3-22-77 Map No. ____ Indexed T.M. PALMER Date AUG 11 1978 F. B. 2807 Pg. 245

F. B. 2807 Pg. 246 | Job No. 0300.02 Division No. 11 Notes Red _____ Plotted _____ **Profile**

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76-L298 CE 307 3-61

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 Cdb 12-62

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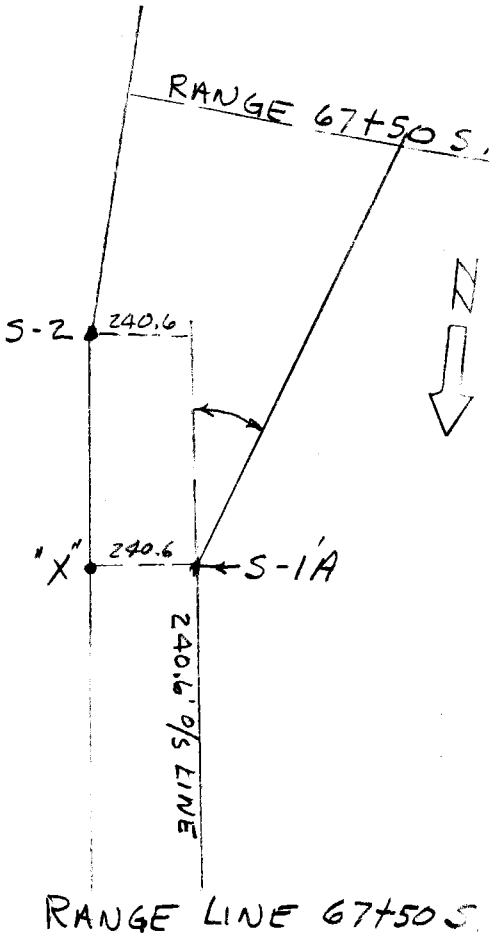
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
S-1A	S-2	10:35	1	62	33			
			2	60	46			
			3	58	58			
			4	57	30			
			5	55	28			
			6	53	14			
			7	51	12			
			8	48	58			
			9	46	42			
			10	44	25			
			11	42	06			
			12	40	00			
			13	37	15			
			14	33	57			
			15	30	48			
			16	27	58			
			17	25	11			
			18	22	59			
			19	20	36			
			20	19	06			



Profile Notes Red. ____ Plotted ____ Job No. 0300.01 Division No. 11 F. B. 2807 PG. 247

No. ____ Date ____ Date ____ Survey of BEACH EROSION PLAYA DEL REY

X-Sec. Notes Chkd. ____ Checked ____ Survey by PILMARS Notes T.M. PALMERI Date 3-22-77

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date AUG 11 1978

76L298 307 Cdb 12-62

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Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
S-1A	S-2		21	17	51			
			22	16	20			
			23	15	15			
			24	14	02			
			25	12	53			
			26	12	02			
			27	11	07			
		10:43	28	10	22			

F. B. 2807 Pg. 248 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of BEACH EROSION PLAYA DEL REY Date Date No.

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

Indexed Date Date Date No.

76-1-298 CE 307 3-61

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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.	9:15 A.M.	3-22-77
					M.L.L.W.	Inshore
		2020				72+50-S.
T.P.	456	2004	472	1548	1x2	Control line.
72+50S.			— —	— —	Bike Path	"x" Painted
			06	194	56.0 R. toe bk.	Sand
			50	150	148.0 R.	"
			51	149	231.0 R. top brk.	"
			147	53	319.0 R.	"
	0.5	88	117	83	319.0 R. top 1x2	(BACKSIGHT ON 57+50)
		"			CUT INST. AT 62-50S, SIGHT ON 67+50S	
			128	-40	#1 35° 00'	700'
			114	-26	2 32 06	627
			119	-31	3 29 10	558
			130	-42	4 26 19	495
			115	-27	5 23 49	441
			90	-02	6 23 00	424
			82	-06	7 20 40	377
			60	22	8 19° 33'	355
			41	47	336 FT. R. M.H.W.	

Profile Notes Red ____ Plotted ____ Job No. 6300.02 Division No. ____ F. B. 2807 Pg. 249
No. ____ Date ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. ____ Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date AUG 22 1977
No. ____ Date ____ Date ____ Map No. ____ Indexed T.M. PALMER Date ____

F.B. 2807 Pg. 250 Job No. Division No. Notes Red Plotted Profile

Survey of Date Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

76-L298 CE 307 S-61

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

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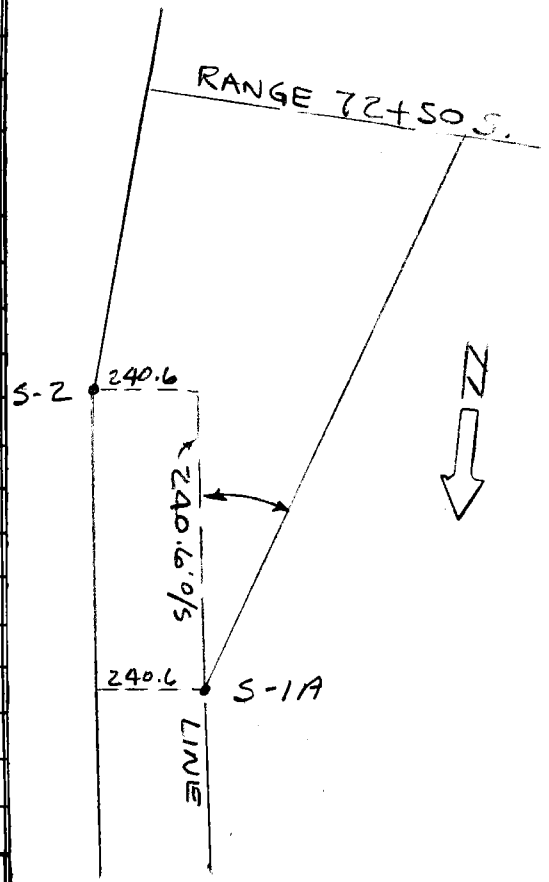
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
S-1A	S-2	10:55	1	56	33			
			2	55	04			
			3	53	34			
			4	52	01			
			5	50	20			
			6	48	30			
			7	46	08			
			8	43	52			
			9	41	03			
			10	38	38			
			11	36	05			
			12	33	50			
			13	31	30			
			14	29	27			
			15	27	32			
			16	25	15			
			17	23	20			
			18	21	30			
			19	19	01			
			20	17	43			



Profile Notes Red. ____ Plotted ____ Job No. 0200.02 Division No. 11 F. B. 2807 Pg. 251

No. ____ Date ____ Date ____ Survey of BEACH EROSION PLAYA DEL REY

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes ____ Date 3-22-77

No. ____ Date ____ Date ____ Map No. ____ Indexed T.M. PALMER Date AUG 1 1978

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Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
S-1A	S-2		21	16	31			
			22	14	57			
			23	13	37			
			24	12	39			
			25	11	56			
			26	11	05			
			27	10	19			
			28	9	38			
		11:03	29	9	04			

F. B. 2807 Pg. 252 Job No. 2300.62 Division No. 11

Survey of BEACH EROSION PLAYA DEL REY

Survey by RICHARDS

Indexed

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date Notes Chkd. Date

Notes Date

76-I-298 CE 307 3-61

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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.	10:00 A.M.	3-22-77
					M.L.L.W.	Inshore
		2004				77+50-S.
T.P.	416	1983	437	1567	1x2	Control Line
77+50-S.			— —	— —	Bike Path, Painted "x".	
			01	197	55.0 R. toe	bk. Sand
			48	150	148.0 R.	"
			57	141	237.0 R. top	brk. "
			134	64	291.0 R.	"
	-042	88	106	92	291.0 R. top	1x2
			41	47	360 R. MHW	
					CUT INST. AT 72+50S. SIGHT ON 77+50S	
			61	27	#1 33° 13'	335
			77	11	2 34 67	352 ?
			104	-16	3 35 43	368
			126	-38	4 38 22	405
			109	-21	5 41 05	446
			144	-56	6 44 25	502
			153	-65	7 47 42	564
			163	-75	8 51° 18'	642
					9 LOST IN FOG	
					10	

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____ F. B. 2807 Pg. 253
No. ____ Date ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. ____ Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date Apr 21 1978
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____
T.M. PALMER

F.B. 2807 Pg. 254 | 0300.02 Job No. Division No. 11 Notes Red Plotted **Profile**

Survey of HYDRO-SURVEYS Date Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

76-L298 CE 307 3-61

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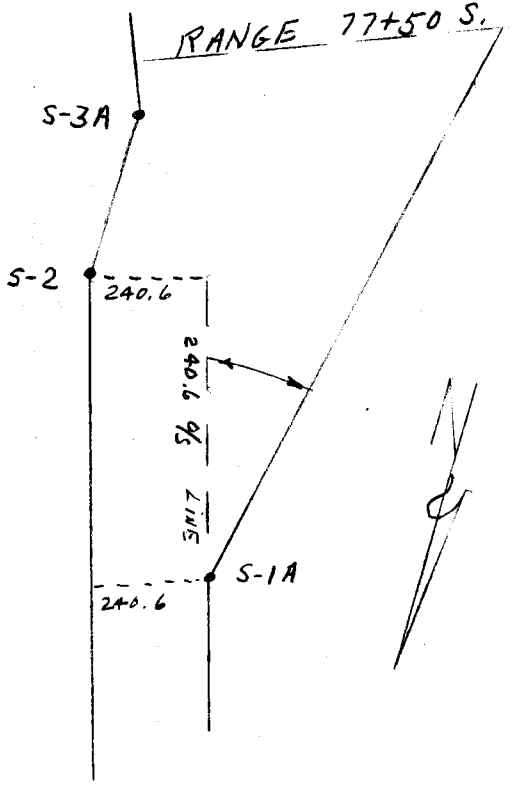
Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
S-1A	S-2	11:19	1	51	37			
			2	50	22			
			3	49	16			
			4	48	05			
			5	46	47			
			6	45	07			
			7	43	49			
			8	42	32			
			9	40	55			
			10	39	12			
			11	37	31			
			12	35	50			
			13	34	07			
			14	32	29			
			15	30	39			
			16	28	28			
			17	26	43			
			18	24	40			
			19	23	20			
			20	21	38			



RANGE LINE 77+50 S.

Profile Notes Red. Plotted Job No. 43802 Division No. 11 F. B. 2807 Pg. 255

No. Date Date Survey of REACH FROSTAN PLAYA DEL REY

X-Sec. Notes Chkd. Checked Survey by PUBLICS Notes Date 8-3-77

No. Date Date Map No. Indexed T.M. PALMER Date AUG 7 1978

76L298 307 Cdb 12-62

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LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
S-1A	S-2		21	20	17			
			22	19	02			
			23	17	57			
			24	17	02			
			25	15	48			
			26	14	52			
			27	13	48			
			28	12	48			
			29	11	56			
			30	11	02			
			31	10	17			
			32	9	38			
			33	9	02			
			34	8	25			
			35	7	42			
		11:29	36	6	58			

F. B. 2807 Pg. 256 Job No. 6201.02 Division No. 11 Notes Red. Plotted Profile

Survey of BEACH EROSION PLAYA DEL REY Date Date No. X-Sec.

Survey by RICHARDS Notes Notes Chkd. Checked

Indexed Date Date Date No.

76-L298 CE 307 3-61

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	10.15 A.M.	3-22-77
					M.L.L.W.	Inshore
		1983				82+50-S.
T.P.	465	1963	485	1499	1x2	Control Line.
82+50-S.			— —	— —	Bike Path, Painted "x".	
			00	196	72.0 R. toe	bk. Sand
			69	127	161.0 R.	brk. "
			73	123	240.0 R. top	" "
			114	82	279.0 R.	"
	-21	87	88	108	279.0 R. top	1x2
			40	47	301 FT. R. M.H.W.	
					CUT INST. ON 77+50 S., SIGHT ON 82+50 S	
			70	17	#1 32° 45'	322'
			90	-03	2 34 43	346
			106	-19	3 35 38	358
			130	-43	4 38 22	396
			143	-56	5 41 50	448
			156	-69	6 44 48	497
			145	-58	7 47 19	542
			132	-45	8 50 06	598
			135	-48	9 53 02	664
			140	-53	10 54° 50'	710

3-23-77

Profile Notes Red ____ Plotted ____ Job No. 8002 Division No. ____ F. B. 3807 Pg. 257
No. ____ Date ____ Date ____ Date ____ Survey of Engineering Survey 3-22-77
X-Sec. ____ Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed T.M. PALMER Date 1-1-

F.B. 2807 Pg. 258 | 030002 Job No. Division No. 11 Notes Red Plotted Profile

Survey of HYDRO-SURVEY Date Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

Do not extend notes this side of this line.

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

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76-L298 CE 307 3-61

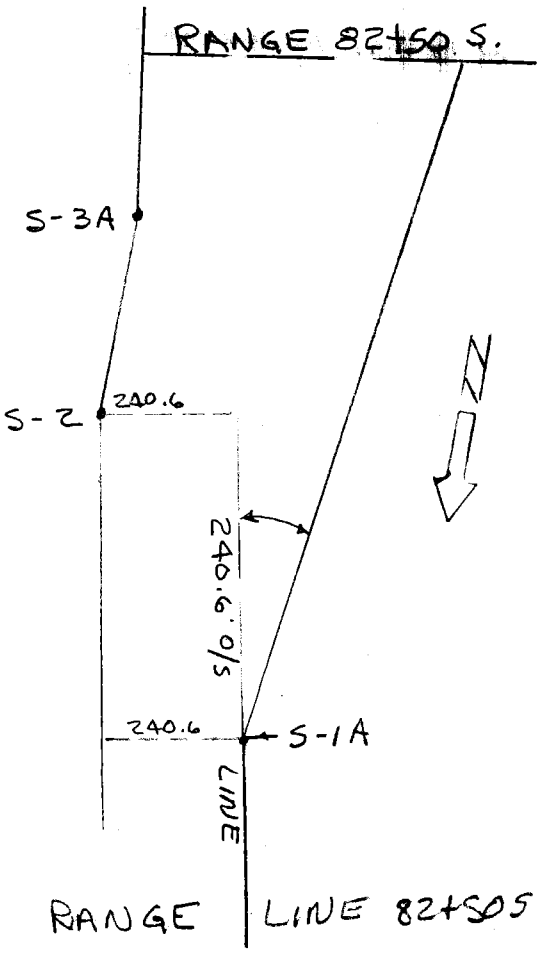
76L298 307 Cdb 12-62

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

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

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
S-1A	S-2	11:40	1	46	30			
			2	44	54			
			3	43	28			
			4	41	51			
			5	40	15			
			6	38	28			
			7	36	57			
			8	35	25			
			9	33	21			
BROKE	STYLUS	11:44	10	30	48			
		11:57	11	28	54			
			12	26	36			
			13	24	20			
			14	21	40			
			15	19	41			
			16	17	28			
			17	15	34			
			18	13	56			
			19	12	39			
			20	11	31			



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 3300 Division No. ____ F. B. 307 Pg. 259
X-Sec. ____ Date ____ Date ____ Survey of BEAH EROSION PLAIN OFL REV
Notes Chkd. ____ Checked ____ Survey by R. HARPER Notes ____ Date AUG 1 1978
No. ____ Date ____ Date ____ Map No. ____ Indexed T.M. PALMER Date ____

F. B. 2807 PG. 260 | Job No. 0300 B2 Division No. 11 Notes Red. Plotted Profile

Survey of BEACH EROSION PLAYA DEL REY Date Date No.

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

Indexed Date Date Date No.

761298 307 Cdb 12-62

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LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Inst. At Don't Punch	Sight On Don't Punch	Time Don't Punch	Angle No Don't Punch	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
S-14	S-2		21	10	38			
			22	9	37			
			23	9	04			
			24	8	25			
			25	7	43			
		12'02	26	7	28			

BOOK CLOSED!

SEE FB. 2807 PG. 228

FOR TIDE GAGE READING FOR
3-22-77