Notes Ck'd by

Work

Survey of HYDROGRAPHIC SURVEYS F.B. 7816 Pg. 5

IN 0300.02 Tape — Std — °F

Surveyed by W. A. RICHARDS

Notes W. A. R. Date 1-60

Indexed [redacted]

J. N. 0300.02

HYDROGRAPHIC SURVEYS

DONDO BEACH TO MALIBU COVE

TUM = M. L. L. W.

IZONTAL AND VERTICAL CONTROL REF = F.B. 2100

OM RANGE LINE 290+65 S. TO 428+19 S., INC.

URVEY INDEX NO. 5190

| | | | |
|---|---|---|---|
| HARDS | BRAZEN | CURTIS | MYERS |
| LKS | TURRILL | KAPPE | LEGAULT |
| PER | BUSTRUND | RODRIGUEZ | NUNEZ |
| NKSON | | LIEBER | MERINO |
| LIER | | | |

Microfilmed June 85

F.B. 2816 Pg. 6

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 this side of this line.

| | | | | | |
|---|---|---|---|---|---|
| Profile No. | Notes Red | Plotted | Job No. 0300.02 | Division No. 11 | F.B. 2816 PG. 7 |
| | Date | Date | Survey of Hyd. Sur. Redondo to Malaga Cove | | |
| X-Sec. No. | Notes Chk'd. | Checked | Survey by Curtis | Notes A.J.C. | Date 2-10-69 |
| | Date | Date | Map No. | Indexed R.L. GALLI | Date |

J.N. 0300.02

Hydrographic Survey.

Redondo Beach Pier

To

Malaga Cove

Swimmers -

Paul Matthies

Russ Payne

Curtis

Kapp

Rodriguez

Lieber

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

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

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 Los Angeles County Engineering Bldg.

Do not extend notes this side of this line.

76-L-298 CE 307 5-66

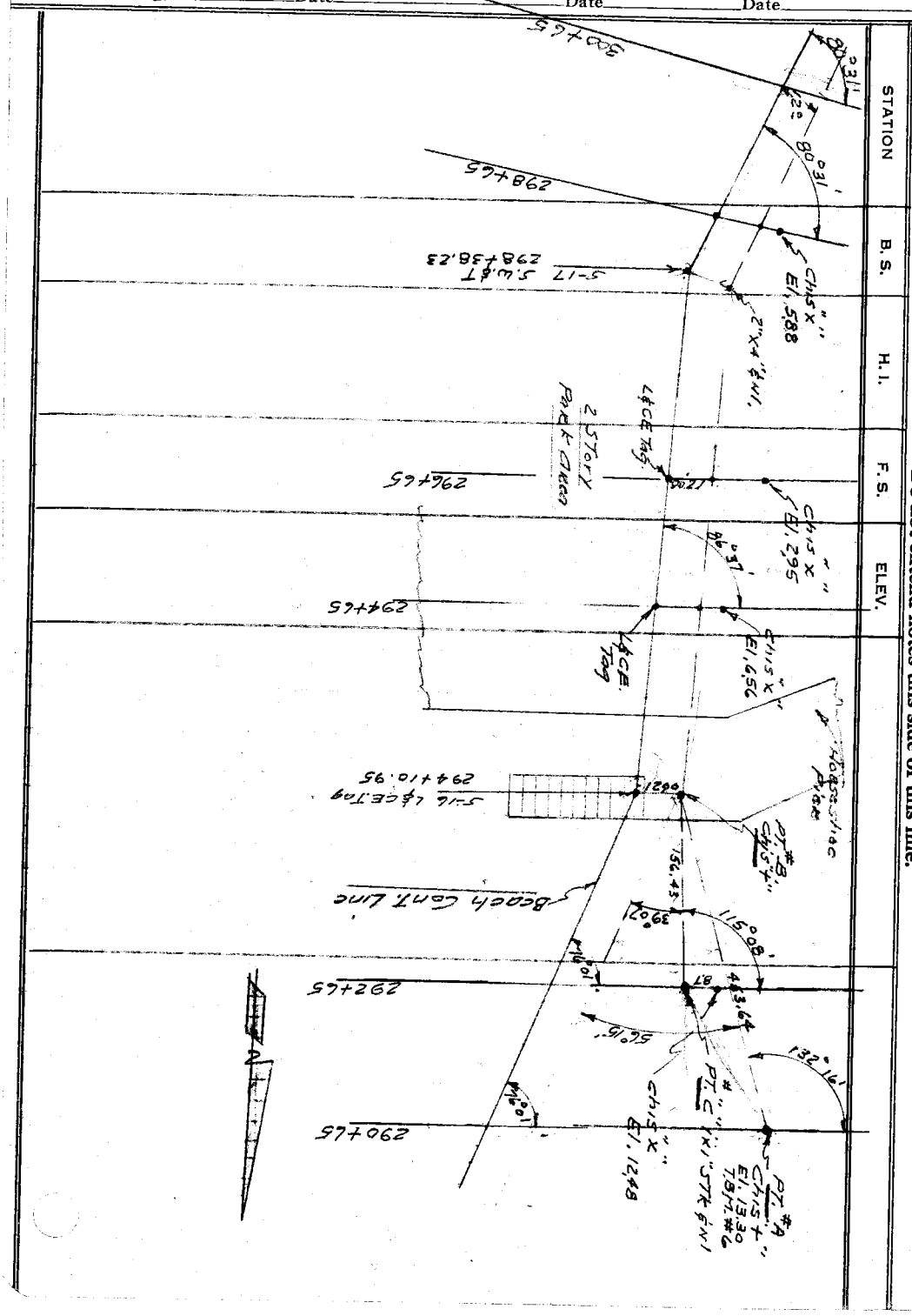
F. B. 2816 PG. 2 8

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

Survey of Beach Cont. Redondo To Malaga Cove Date _____ Date _____ No. _____

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

Indexed B.L. GALLI Date _____ Date _____ Date _____ No. _____




76-L-298 CE 307 5-66

PLEASE RETURN TO

**LOS ANGELES COUNTY ENGINEER**

403 LOS ANGELES COUNTY ENGINEERING BLDG.

**Do not extend notes this side of this line.**

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

| | | |
|---|---|---|
| Notes Ck'd by | Survey of BEACH EROSION | F.B. 2100 Pg. 241 |
| Map No. | JN 0300.02 Tape 0223 Std. 68 °F | |
| Office Work | Surveyed by K. MYERS | |
| Checked | Notes K.M. Date 1-16-69 | |
| Date | Indexed | |

# BEACH EROSION STUDY

## J.N. 0300.02

## JAN 1969

SKETCHS SHOWING RELOCATION OF BEACH CONTROL LINE
& STA. S-16

PARTY:
K. MYERS
D. LE GAULT
B. NUNEZ
G. MERINO

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

Do not extend this side of this line.

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

CE #210 9-68

76-L-298 CE 307 5-66

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. | STA. 290+65 | RIGHT |
|---|---|---|---|---|---|---|
| TRANSIT @ PT. #B. | | | | | Sight @ Point "A" Angle Left. | |
| | | | | | Measurements START @ PT #. A | |
| T.B.M #6 | | | | 13.30 | T.B.M. #6 El. 1330 F.B. 2100-247 "Chis + on Rock Top Breakwater on Range Line 296+65 | |
| 1 | | | | 12.5 | | 18' Rt, Top Rk. Breakwater |
| T.P. | | H.I. | | 6.38 | T.P. | |
| | 2.2 | 8.6 | | | | |
| | | | | | Angle to Left | |
| 1 | | | 15.5 | -6.1 | 6°17' | ± Bot. Rock Breakwater- |
| 2 | | | 24.5 | -15.9 | 8°45' | |
| | | | | | DATUM - M.L.L.W. | |

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____ F.B. 2816 PG. 9
No. ____ Date ____ Date ____ Survey of Beach Cont. - Redondo to Malaga Cove.
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 2-10-69
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 2816 PG. 10 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

Survey by_____ Notes_____ Notes Chk'd._____ Checked_____ X-Sec.

Indexed_____ Date_____ Date_____ Date_____ No._____

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

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 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

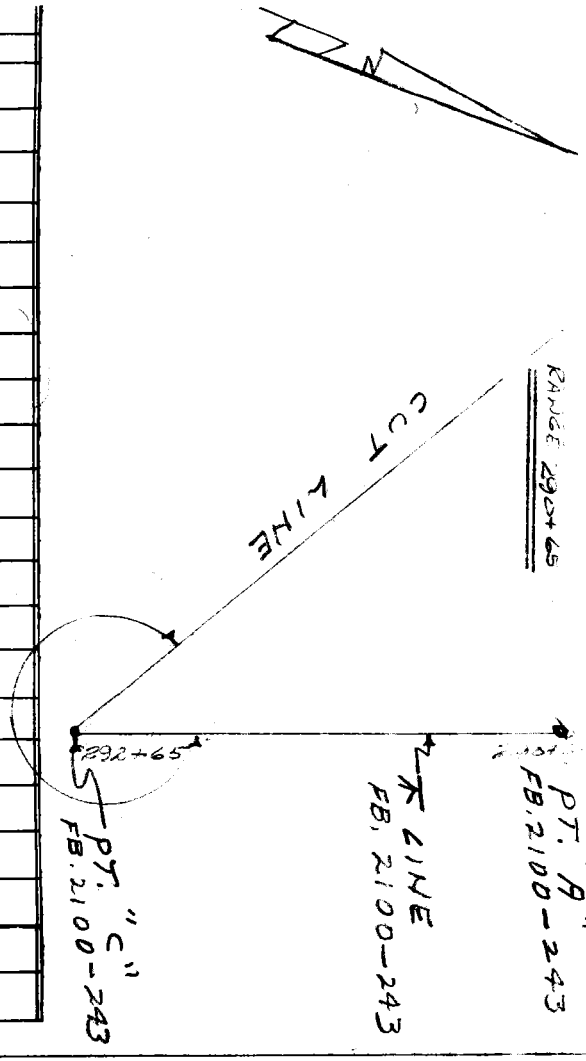
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | MIN. | CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 292+65 | 290+65 | 9:09 | 1 | 327 | 35 | | | |
| | | | 2 | 328 | 01 | | | |
| | | | 3 | 328 | 25 | | | |
| | | | 4 | 328 | 56 | | | |
| | | | 5 | 329 | 28 | | | |
| | | | 6 | 329 | 59 | | | |
| | | | 7 | 330 | 38 | | | |
| | | | 8 | 331 | 25 | | | |
| | | | 9 | 331 | 58 | | | |
| | | | 10 | 332 | 41 | | | |
| | | | 11 | 333 | 47 | | | |
| | | | 12 | 334 | 09 | | | |
| | | | 13 | 335 | 13 | | | |
| | | | 14 | 336 | 21 | | | |
| | | | 15 | 337 | 20 | | | |
| | | | 16 | 338 | 44 | | | |
| | | | 17 | 339 | 59 | | | |
| | | | 18 | 341 | 44 | | | |
| | | | 19 | 343 | 23 | | | |
| | | 9:12 | 20 | 345 | 33 | | | |




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

No. _____ Date _____ Date _____ Survey of HYDROGRAPHIC SURVEY

X-Sec. Notes Chkd. _____ Checked _____ Survey by _____ Notes TOLLER Date 2-10-69

No. _____ Date _____ Date _____ Map No. _____ Indexed _____ Date _____

F. B. [illegible] PG. 11

F. B. 2316 PG. 12 | Job No. 030002 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDROGRAPHIC SURVEY Date 2-10-69 Date _____ No. _____

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

Indexed [redacted] 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 | | | | | |
| 292+65 | 290+65 | | 21 | | | | | |
| | | | 22 | | | | | |

Do not extend notes this side of this line.

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

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

76L298 307 Gdb 12-62

76-L-298 CE 307 5-66

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. | STA. 292+65 | RIGHT |
|---|---|---|---|---|---|---|
| TRANSIT @ PT. #B - Sight @ PT. "C" (Angles Left) Meas. Taken from PT. #C. | | | | | | |
| Measurements Start @ PT. #C angle | | | | | | |
| T.B.M. #5 | | | | 12.48 | T.B.M. #5 EL. 1248 F.B. 2100-2.46 chis "X" on Rock I 87' West of 1 "X1" on R.L. 292+65 That is I 170' NWly 5-16 | |
| 1 | | | | 4.4 | | 12' Rt Top Rk. Breakwater |
| T.P. | | H.I. | | 5.87 | T.P. | |
| | 2.9 | 8.8 | | | | |
| | | | | | Angle to Left | |
| 2 | | | 12.1 | - 3.3 | 32°32' | Bot. Rk. Breakwater [illegible] |
| 3 | | | 14.5 | - 5.7 | 38°00' | |
| 4 | | | 16.8 | - 8.0 | 41°03' | |

DATUM - M.L.L.W.

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. 11 E.B. 2816 Pg. 13
No. ____ Date ____ Date ____ Survey of Beach Cont. Redondo to Malaga Cove.
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes [illegible] Date [illegible]
No. ____ Date ____ Date ____ Map No. ____ Indexed [illegible] Date [illegible]

F.B. 2816 PG. 14 Job No. Division No. Notes Red Plotted Profile

Survey of Date Date No.

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

Indexed Date Date Date No.

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

Do not extend notes this side of this line.

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

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

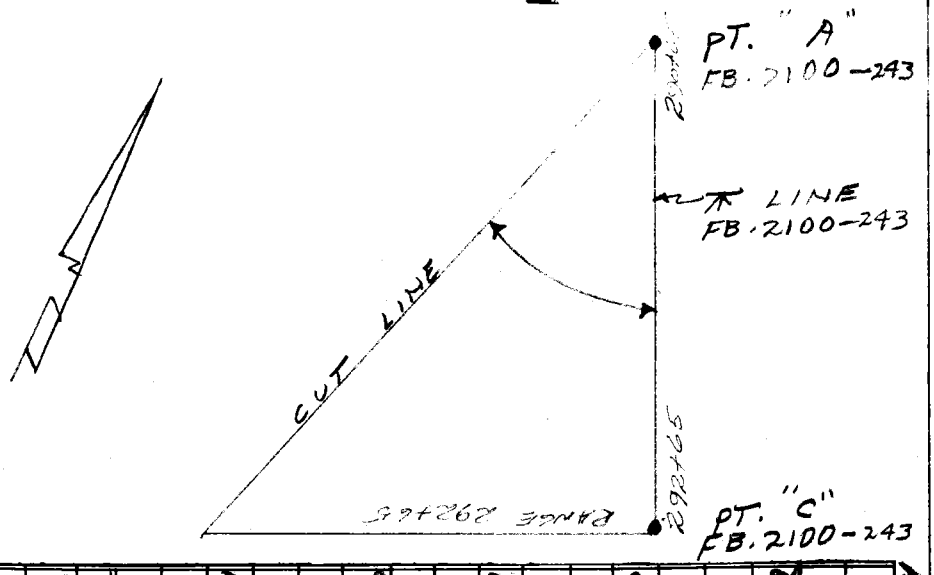
76-L-298 CE 307 5-66

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 030 Division No. 11 F. B. [illegible] Pg. 15

X-Sec. No. _____ Date _____ Date _____ Survey of [illegible]

Notes Chkd. _____ Checked _____ Survey by _____ Notes TULLIER Date 2-10-69

Date _____ Date _____ Map No. _____ Indexed [redacted] Date _____




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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE DEG. | FOR OFFICE USE ONLY LINE MIN. | CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 290+65 | 292+65 | 9:29 | 1 | 134 | 58 | | | |
| | | | 2 | 134 | 37 | | | |
| | | | 3 | 134 | 17 | | | 2926512 |
| | | | 4 | 133 | 53 | | | |
| | | | 5 | 133 | 27 | | | |
| | | | 6 | 133 | 01 | | | 2926514 |
| | | | 7 | 132 | 47 | | | |
| | | | 8 | 132 | 31 | | | |
| | | | 9 | 131 | 56 | | | 2926516 |
| | | | 10 | 131 | 29 | | | |
| | | | 11 | 131 | 04 | | | |
| | | | 12 | 130 | 26 | | | 2926518 |
| | | | 13 | 129 | 44 | | | |
| | | | 14 | 129 | 11 | | | |
| | | | 15 | 128 | 29 | | | 2926520 |
| | | | 16 | 127 | 10 | | | |
| | | | 17 | 126 | 05 | | | |
| | | | 18 | 124 | 51 | | | 2926522 |
| | | | 19 | 123 | 20 | | | |
| | | | 20 | 121 | 15 | | | |
| | | | | 118 | 27 | | | 2926524 |

76L298 307 Cdb 12-62

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 290465 | 292465 | | 21 | ~~118~~ | ~~27~~ | | | |
| | | | 22 | 115 | 01 | | | |
| | | | 23 | 111 | 32 | | | |
| | | | 24 | 106 | 06 | | | 2926526 |
| | | | 25 | 96 | 45 | | | |
| | | | 26 | 84 | 33 | | | |
| | | | 27 | 71 | 33 | | | 2926528 |
| | | | 28 | 56 | 59 | | | |
| | | 9:36 | 29 | 42 | 08 | | | |
| | | | | 00 | 00 | | | 2926530 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 2926532 |

F. B. 2816 PG. 16

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

Survey of HYDROGRAPHIC SURVEY Date 2-10-69 Date No.

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

Indexed R.G. GALLI Date Date No.

76-L-298 CE 307 5-66

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. | Sta. 294+65 | Right |
|---|---|---|---|---|---|---|
| TRANSIT @ | | | | | | |
| | Measurements Taken from Pt. @ Beach Cont. Line | | | | | |
| T.B.M. #4 | | | | 19.77 | T.B.M. #4 El. 19.77 F.B. 2100-246 Chis't in Cor. Conc. base Parking Garage & 10' No. of Range Line 294+65 | |
| 1 | | | | 18.9 | 18 "West - Top Rock Sea wall | |
| T.P. | | | | 12.41 | TP | |
| T.P. | | | | 6.57 | T.P. | |
| 2 | | H.I. | | 0.0 | 55 'West - Bot. Rock Sea-wall & Sand | |
| | 0.8 | 7.4 | | | Transit @ 12' offset S-17 To Line back | |
| | | | | | Sight @ PT "B" "Angle Left" | |
| | | | | | Angle | |
| 3 | | | 7.4 | 0.0 | 8°39' | |
| 4 | | | 8.0 | -0.6 | 15°00' | |
| 5 | | | 11.1 | -3.7 | 27°35' | |
| 6 | | | 13.7 | -6.4 | 33°52' | |

DATUM - M.L.L.W.

Profile Notes Red ____ Plotted ____ Job No. 300.02 Division No. 11
No. ____ Date ____ Date ____ Survey of Beach Cont. Redondo To Malaga Cove
X-Sec. Notes Chk'd. ____ Checked ____ Survey by Curtis Notes A.S.C. Date 2-10-69
No. ____ Date ____ Date ____ Map No. ____ Indexed E.L. GALLI Date ____

F. B. 2816 PG. 17

F. B. 2816 PG. 18 Job No. Division No. Notes Red Plotted Profile

Survey of Date Date No.

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

Indexed Date Date Date No.

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

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

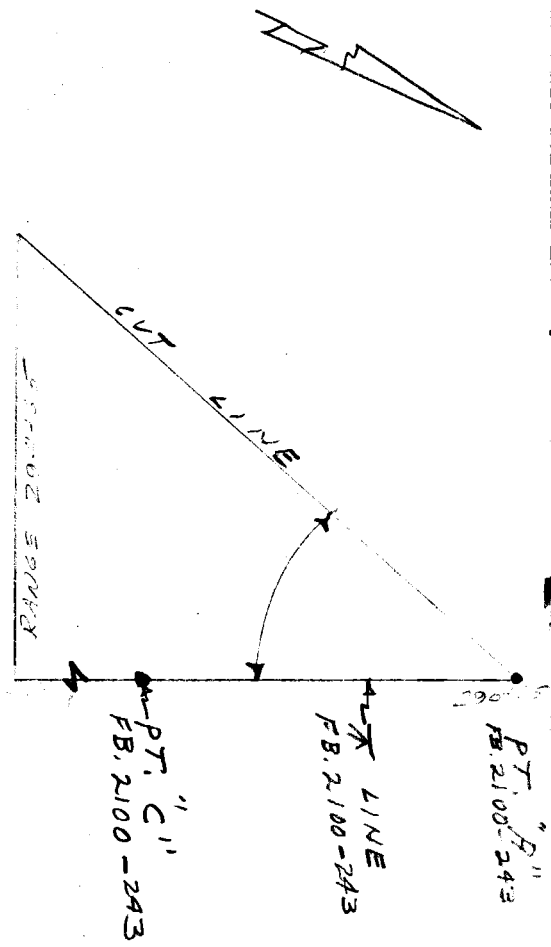
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 290+65 | 292+65 | 10:08 | 1 | 127 | 49 | | | |
| | | | 2 | 126 | 58 | | | |
| | | | 3 | 125 | 51 | | | 2946514 |
| | | | 4 | 125 | 14 | | | |
| | | | 5 | 124 | 42 | | | |
| | | | 6 | 124 | 09 | | | 2946516 |
| | | | 7 | 123 | 36 | | | |
| | | | 8 | 122 | 55 | | | |
| | | | 9 | 122 | 19 | | | 2946518 |
| | | | 10 | 121 | 32 | | | |
| | | | 11 | 120 | 08 | | | |
| | | | 12 | 119 | 03 | | | 2946520 |
| | | | 13 | 117 | 45 | | | |
| | | | 14 | 116 | 23 | | | |
| | | | 15 | 115 | 00 | | | 2946522 |
| | | | 16 | 112 | 45 | | | |
| | | | 17 | 111 | 15 | | | |
| | | | 18 | 109 | 10 | | | 2946524 |
| | | | 19 | 106 | 50 | | | |
| | | | 20 | 104 | 38 | | | |
| | | | | 101 | 30 | | | 2946526 |




Profile Notes Red. Plotted Job No. 3000-7 Division No. 11 F. B. 2816 Pg. 19

No. Date Date Survey of HYDROGRAPHIC SURVEY

X-Sec. Notes Chkd. Checked Survey by Notes TOLLIER Date 2-10-60

No. Date Date Map No. Indexed [redacted] Date

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 290+65 | 292+65 | | 21 | ~~101~~ | ~~30~~ | | | |
| | | | 22 | 96 | 23 | | | |
| | | | 23 | 92 | 22 | | | |
| | | | 24 | 88 | 37 | | | 2946528 |
| | | | 25 | [illegible] | [illegible] | | | |
| | | | 26 | 75 | 45 | | | |
| | | | 27 | 68 | 43 | | | 2946530 |
| | | | 28 | 60 | 22 | | | |
| | | | 29 | 51 | 39 | | | |
| | | | 30 | 45 | 07 | | | 2946532 |
| | | 10:15 | 31 | 37 | 38 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 2946534 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 2946536 |

F. B. 2816 PG. 20

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

Survey of HYDROGRAPHIC SURVEY Date 2-10-69 Date No.

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

Indexed C. J. GALLI Date Date No.

76-L-298 CE 307 5-66

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. | [illegible] | |
|---|---|---|---|---|---|---|
| TRANSIT @ | | | | | | |
| Measurements Start @ PT. on Beach Cont. Line | | | | | | |
| TB.M. #3 | | | | 18.54 | T.B.M. #3 Chis "X" on Rock - F.B. 2100-4 | 15' W. by R.L. 296+65 |
| | 2.90 | 21.44 | | | | |
| 1 | | | 2.4 | 16.1 | 11° West - Top Rock Sea wall | |
| 2 | | | 21.0 | 0.4 | 50° " - Bot. " " " & Sand | |
| T.B.M. | | | 18.49 | 2.95 | T.B.M. Chis "X" on Rock. | |
| — | | H.I. | | | Transit @ 12' offset S-17 To Line back | |
| | 1.45 | 4.4 | | | Sight @ PT "B" (angle Left) | |
| | | | | | angle | |
| 3 | | | 5.4 | -1.0 | 16°30' | |
| 4 | | | 4.4 | -0.0 | 26°30' | |
| 5 | | | 5.0 | -0.6 | 33°45' | |
| 6 | | | 6.4 | -2.0 | 43°45' | |
| 7 | | | 8.1 | -3.7 | 53°46' | |
| 8 | | | 12.2 | -7.8 | 61°50' | |
| 9 | | | 16.8 | -12.4 | 65°15' | |
| | | | | | DATUM - M.L.L.W. | |

Profile Notes Red ____ Plotted ____ Job No. 03-[illegible]-02 Division No. 11 F.B. 2816 Pg. 21
No. ____ Date ____ Date ____ Survey of Beach Control - Redondo To Malaga Cove
X-Sec. Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date 2-10-[illegible]
No. ____ Date ____ Date ____ Map No. ____ Indexed [illegible] Date ____

F. B. 2816 PG. 22 Job No. Division No. Notes Red Plotted Profile

Survey of Date Date No.

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

Indexed Date Date Date No.

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

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 5-66

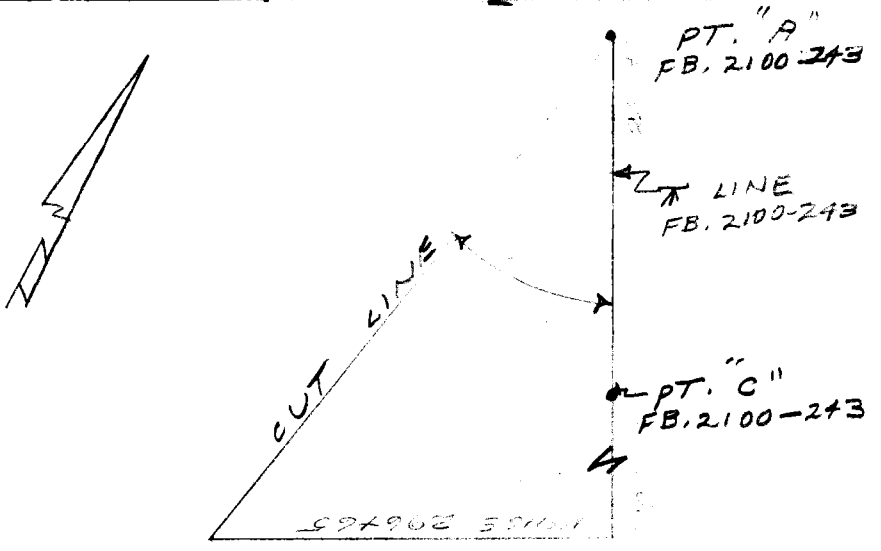
F. B. 2815 Pg. 23

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

Date _____ Date _____ Survey of HYDROGRAPHIC SURVEY

X-Sec. No. _____ Notes Chkd. _____ Checked _____ Survey by _____ Notes TULLIER Date 2-10-69

Date _____ Date _____ Map No. _____ Indexed [redacted] Date _____




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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE DEG. | LINE MIN. | CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 2-10-69 | 2-10-69 | 10:30 | 1 | 124 | 60 | | | |
| | | | 2 | 124 | 02 | | | |
| | | | 3 | 123 | 26 | | | 2966516 |
| | | | 4 | 121 | 37 | | | |
| | | | 5 | 120 | 26 | | | |
| | | | 6 | 119 | 21 | | | 2966518 |
| | | | 7 | 118 | 14 | | | |
| | | | 8 | 116 | 53 | | | |
| | | | 9 | 115 | 33 | | | 2966520 |
| | | | 10 | 114 | 26 | | | |
| | | | 11 | 113 | 13 | | | |
| | | | 12 | 111 | 51 | | | 2966522 |
| | | | 13 | 110 | 36 | | | |
| | | | 14 | 109 | 11 | | | |
| | | | 15 | 107 | 08 | | | 2966524 |
| | | | 16 | 105 | 29 | | | |
| | | | 17 | 103 | 47 | | | |
| | | | 18 | 102 | 06 | | | 2966526 |
| | | | 19 | 100 | 11 | | | |
| | | | 20 | 97 | 50 | | | |
| | | | | 95 | 50 | | | 2966528 |

76L298 307 Cdb 12-62

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 290+65 | [illegible] | | ~~21~~ | ~~95~~ | ~~50~~ | | | |
| | | | 22 | 92 | 53 | | | |
| | | | 23 | 95 | 44 | | | |
| | | | 24 | 87 | 25 | | | 2966530 |
| | | | 25 | 84 | 14 | | | |
| | | | 26 | 81 | 27 | | | |
| | | | 27 | 77 | 32 | | | 2966532 |
| | | | 28 | 73 | 32 | | | |
| | | | 29 | 69 | 19 | | | |
| | | | 30 | 66 | 2[illegible] | | | 2966534 |
| | | | 31 | 63 | 19 | | | |
| | | | 32 | [illegible] | 32 | | | |
| | | 10:37 | 33 | 57 | 53 | | | 2966536 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 2966538 |

F. B. 2816 Pg. 24 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDROGRAPHIC SURVEY Date 2-10-69 Date No. X-Sec.

Survey by Notes TULLIER Notes Chkd. Checked

Indexed [illegible] Date Date No.

76-L-298 CE 307 5-66

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. | Sta. 298+65 | |
|---|---|---|---|---|---|---|
| Transit @ | | | | | | |
| Measurements Taken from Pt. on Beach Cont. Line | | | | | | |
| T.B.M. #2 | | | | 19.88 | T.B.M. #2 El. 19.88 1"x1" stk. 12' W Range (FB. 2100-246) Line 298+65 | |
| | 1.93 | 21.81 | | | | |
| 1 | | | 1.9 | 19.9 | Top Rock Berm 12 West | |
| 2 | | | 17.9 | 3.9 | Bot. " " Sand 43 West | |
| T.B.M. | | H.I. 6.8 | 15.93 | 5.88 | T.B.M. Chis "X" on Rock by [illegible] | |
| | 0.87 | | | | | |
| | | | | | Transit on 12' offset Rt. Sta 300+65 | |
| | | | | | Sight on 12' offset Rt. Sta. 298+65 Angle | |
| 3 | | | 7.1 | -0.3 | 17°50' | 82' |
| 4 | | | 7.4 | -0.6 | 30°40' | 122' |
| 5 | | | 8.1 | -1.3 | 39°30' | 159' |
| 6 | | | 9.8 | -3.0 | 49°15' | 210' |
| 7 | | | 12.8 | -6.0 | 57°25' | 232' |
| 8 | | | 17.5 | -10.7 | 62°27' | 278' |

DATUM - M.L.L.W.

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of Beach Cont. Extends to Malaga Cove
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 2-15
No. ____ Date ____ Date ____ Map No. ____ Indexed [redacted] Date ____

F.B. 2816 PG. 25

F. B. 2816 PG. 26 | Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

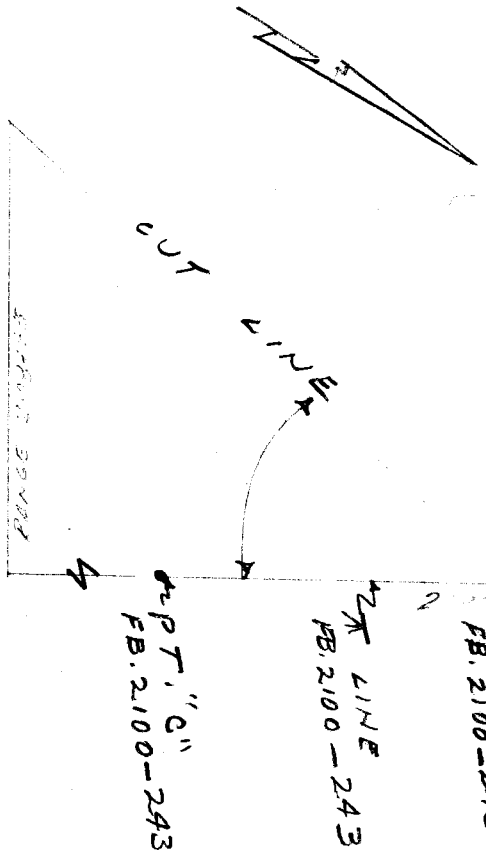
LOS ANGELES COUNTY SURVEYOR

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 | | | | | |
| [illegible] | [illegible] | 10:50 | 1 | 119 | 50 | | | |
| | | | 2 | 118 | 47 | | | |
| | | | 3 | 117 | 39 | | | 2986518 |
| | | | 4 | 116 | 45 | | | |
| | | | 5 | 115 | 31 | | | |
| | | | 6 | 114 | 09 | | | 2986520 |
| | | | 7 | 112 | 48 | | | |
| | | | 8 | 111 | 26 | | | |
| | | | 9 | 109 | 35 | | | 2986522 |
| | | | 10 | 108 | 29 | | | |
| | | | 11 | 107 | 20 | | | |
| | | | 12 | 105 | 37 | | | 2986524 |
| | | | 13 | 104 | 25 | | | |
| | | | 14 | 102 | 42 | | | |
| | | | 15 | 101 | 30 | | | 2986526 |
| | | | 16 | 100 | 29 | | | |
| | | | 17 | 98 | 48 | | | |
| | | | 18 | 96 | 57 | | | 2986528 |
| | | | 19 | 94 | 48 | | | |
| | | | 20 | 92 | 52 | | | |
| | | | | 91 | 09 | | | 2986530 |




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

X-Sec. No.____ Date____ Notes Chkd.____ Date____ Checked____ Survey of [illegible] Date 2-10-69

Date____ Map No.____ Date____ Survey by____ Notes [illegible] Indexed [illegible] Date____

F. B. 2816 PG 27

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 290+65 | 292+65 | | ~~21~~ | ~~91~~ | ~~09~~ | | | |
| | | | 22 | 88 | 34 | | | |
| | | | 23 | 86 | 12 | | | |
| | | | 24 | 83 | 56 | | | 2986532 |
| | | | 25 | 81 | 59 | | | |
| | | | 26 | 79 | 54 | | | |
| | | | 27 | 76 | 54 | | | 2986534 |
| | | | 28 | 72 | 54 | | | |
| | | | 29 | 68 | 42 | | | |
| | | | 30 | 66 | 02 | | | 2986536 |
| | | | 31 | 64 | 23 | | | |
| | | 10:57 | 32 | 62 | 45 | | | |
| | | | | 00 | 00 | | | 2986538 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 2986540 |

F. B. 2816 PG. 28

Job No. 300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDROGRAPHIC SURVEY Date 2-12-69 Date No.

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

Indexed G.G. GALLI Date Date No.

76-L-298 CE 307 5-66

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. | Sta. 300+65 |
|---|---|---|---|---|---|
| Transit @ Measurements Taken from Beach Control Line | | | | | |
| T.B.M #1 | | | | 19.08 | T.B.M. #1 El. 19.08 F.B. 2100-246 G.E. Tag in Rock, No of Range Line 300+65 |
| 1 | | | | 17.1 | 12' Rt Top Rock Break Water |
| 2 | | | | 5.3 | 40' Rt Bot " " Sand |
| T.B.M. | | H.I. | | 4.87 | T.B.M. El. 4.87 Chis "+" on Rock 2° No. of Line |
| — | 1.4. | 6.3° | | | Transit @ 12' offset Rt @ Sta 298+65 |
| | | | | | Sight @ 12' offset Rt. Sta 300+65 (Range Right) |
| | | | | | Angle |
| 3 | | | 69 | −0.6 | 16°32' |
| 4 | | | 8.0 | −1.7 | 25°20' |
| 5 | | | 8.9 | −2.6 | 33°23' |
| 6 | | | 9.3 | −3.0 | 40°38' |
| 7 | | | 10.4 | −4.1 | 46°06' |
| 8 | | | 13.3 | −7.0 | 51°10' |
| 9 | | | 18.0 | −11.7 | 54°40' |

DATUM – M.L.L.W.

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. 4 F.B. 2816 PG. 29
No. ____ Date ____ Date ____ Survey of Beach Cove Redondo To Malaga Cove
X-Sec. Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date 2-10-69
No. ____ Date ____ Date ____ Map No. ____ Indexed [illegible] Date ____

F. B. 2816 PG. 30

Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

Survey by_____ Notes_____ Notes Chk'd._____ Checked_____ X-Sec.

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

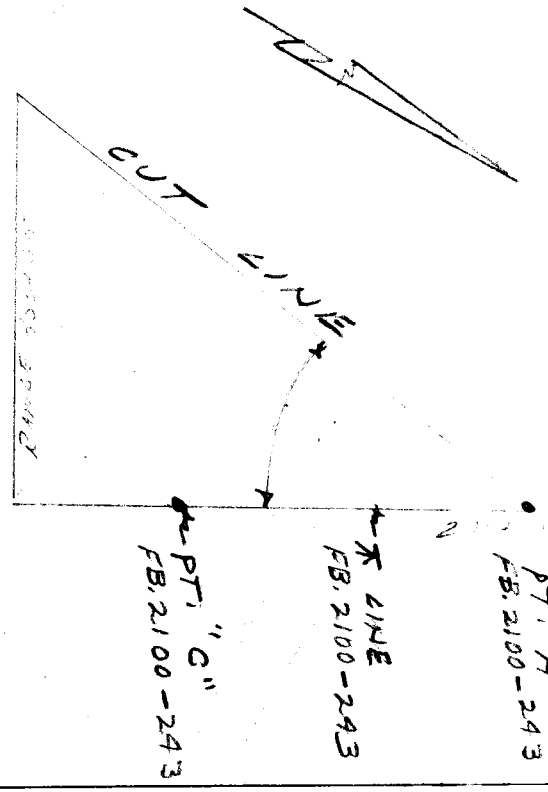
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | FOR OFFICE USE ONLY RANGE LINE MIN. | CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 293-65 | 293-[illegible] | 11:[illegible] | 1 | 109 | 05 | | | |
| | | | 2 | 107 | 41 | | | |
| | | | 3 | 106 | 35 | | | 3006518 |
| | | | 4 | 103 | 42 | | | |
| | | | 5 | 101 | 20 | | | |
| | | | 6 | 99 | 2[illegible] | | | 3006520 |
| | | | 7 | 97 | 14 | | | |
| | | | 8 | 95 | 45 | | | |
| | | | 9 | 94 | 02 | | | 3006522 |
| | | | 10 | 92 | 38 | | | |
| | | | 11 | 90 | 38 | | | |
| | | | 12 | 88 | 41 | | | 3006524 |
| | | | 13 | 86 | 17 | | | |
| | | | 14 | 84 | 06 | | | |
| | | | 15 | 82 | 15 | | | 3006526 |
| | | | 16 | 79 | 38 | | | |
| | | | 17 | 76 | 29 | | | |
| | | | 18 | 73 | 08 | | | 3006528 |
| | | | 19 | 70 | 36 | | | |
| | | 11:20 | 20 | 67 | 09 | | | |
| | | | | 00 | 00 | | | 3006530 |

SEE NEXT PG. FOR ADDITIONAL SHOTS




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

No. ____ Date ____ Date ____ Survey of ____

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

No. ____ Date ____ Date ____ Map No. ____ Indexed G. G. GALLI Date ____

F. B. ____ Pg. 31

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

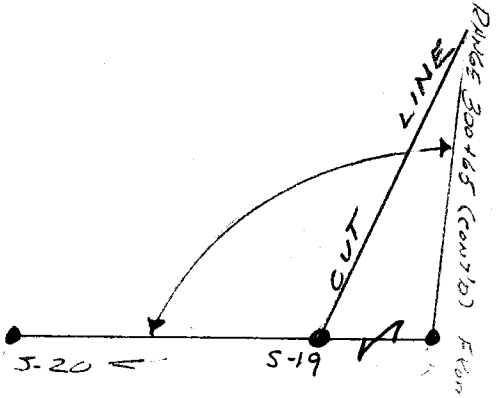
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| S-19 | S-20 | 11:51 | 1 | 101 | 32 | | | |
| | | | 2 | 103 | 23 | | | |
| | | | 3 | 105 | 21 | | | |
| | | | 4 | 108 | 22 | | | |
| | | | 5 | 110 | 20 | | | |
| | | | 6 | 112 | 56 | | | |
| | | | 7 | 114 | 51 | | | |
| | | | 8 | 117 | 10 | | | |
| | | | 9 | 119 | 03 | | | |
| | | | 10 | 121 | 03 | | | |
| | | | 11 | 123 | 19 | | | |
| | | | 12 | 125 | 29 | | | |
| | | 11:53 | 13 | 127 | 47 | | | |

Don't Punch




F. B. 2816 PG. 32

Job No. 53002 Division No. 11 Notes Red. Plotted Profile

Survey of Hydrographic Survey Date Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed B.B. CALLI Date Date No.

| | | |
|---|---|---|
| Notes Ck'd by | Survey of HYDROGRAPHIC SURVEY | F. B. 2816 PG. 33 |
| Map No. | JN 0300.02 Tape Std °F | |
| Office Work | Surveyed by M.A. RICHARDS | |
| Checked | Notes HARRIET Date 2-10-69 | |
| Date | Indexed [redacted] | |

# TIDE GAGE READINGS
## FEB. 10, 1969

| TIME (P.S.T.) | TIDE (M.L.L.W.) |
|---|---|
| 6:00 | 3.3 |
| 6:30 | 2.9 |
| 7:00 | 2.5 |
| 7:30 | 2.0 |
| 8:00 | 1.7 |
| 8:30 | 1.3 |
| 9:00 | 1.1 |
| 9:30 | 0.9 |
| 10:00 | 0.8 |
| 10:30 | 0.6 |
| 11:00 | 0.7 |
| 11:30 | 0.8 |
| 12:00 | 0.9 |
| 12:30 | 1.1 |
| 1:00 | 1.3 |
| 1:30 | 1.5 |
| 2:00 | 1.7 |

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

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

Do not extend this side of this line.

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

76F309S CE#310 3-68

F. B. 2816 PG. 34




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

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

Do not extend this side of this line.

76-L-298 CE 307 5-66

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. | LT. 302+14S R.T. |
|---|---|---|---|---|---|
| B.M. S-19 | | | | 21 56 | B.M. S-19 EL. = 21.565 F.B. 2100-29 & 158 |
| T.P. | | | | 1572 | BR. CP. MON. RE. 2177 0² DN. IN MAC. PVMT. |
| | | | | 115 | 27° top Bk. |
| | | | | 129 | 84° @ BLDG. |
| 302+14S | | | | 1051 | STA |
| | | | | 104 | 10° top |
| - T.P | | | | 776 | 23° 1x2 T.P. |
| T.P. | | H.I. | | 6.00 | T.P. |
| | 1.7 | 7.7 | | | [illegible] @ STA 302+14 [illegible] |
| | | | | | Angle |
| 1 | | | 4.9 | + 2.8 | 8° [illegible] |
| 2 | | | 8.0 | - 0.3 | 13° 14' |
| 3 | | | 9.1 | - 1.4 | 16° 53' |
| 4 | | | 9.1 | - 1.4 | 21° 32' |
| 5 | | | 9.7 | - 2.0 | 25° 10' |
| 6 | | | 11.7 | - 4.0 | 29° 30' |
| 7 | | | 14.9 | - 7.2 | 33° 23' |
| 8 | | | 17.7 | - 10.0 | 36° 35' |

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300 02 Division No. 11 F.B. 2816 PG. 35
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY (REDONDO)
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 2-4-69
No. ____ Date ____ Date ____ Map No. ____ Indexed [redacted] Date ____

F. B. 2816 PG. 36 | Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76-L-298 CE 307 5-66

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

**Do not extend notes this side of this line.**

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

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

DATUM
MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

PLEASE RETURN TO

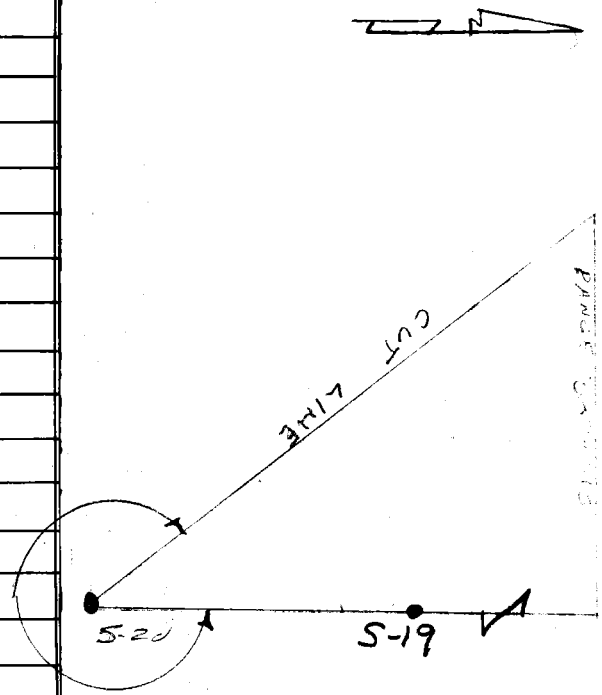
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | FOR OFFICE USE ONLY RANGE LINE MIN. | FOR OFFICE USE ONLY CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 5-20 | 5-19 | 9:57 | 1 | 284 | 44 | | | |
| | | | 2 | 285 | 34 | | | |
| | | | 3 | 286 | 21 | | | |
| | | | 4 | 287 | 14 | | | |
| | | | 5 | 288 | 09 | | | |
| | | | 6 | 289 | 19 | | | |
| | | | 7 | 290 | 25 | | | |
| | | | 8 | 291 | 22 | | | |
| | | | 9 | 292 | 21 | | | |
| | | | 10 | 293 | 15 | | | |
| | | | 11 | 294 | 30 | | | |
| | | | 12 | 295 | 52 | | | |
| | | | 13 | 297 | 35 | | | |
| | | | 14 | 299 | 29 | | | |
| | | | 15 | 301 | 10 | | | |
| | | | 16 | 303 | 21 | | | |
| | | | 17 | 305 | 35 | | | |
| | | | 18 | 307 | 35 | | | |
| | | | 19 | 309 | 13 | | | |
| | | | 20 | 312 | 09 | | | |




Profile Notes Red. Plotted Job No. 03 Division No. 11 F. B. 2916 Pg. 37

No. Date Date Survey of

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

No. Date Date Map No. Indexed [redacted] Date

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

F. B. 2316 Pg. 38 Job No. 30002 Division No. 11 Notes Red. Plotted Profile

Survey of HYDROGRAPHIC SURVEY Date 2-4-69 Date No.

Survey by [redacted] Notes TABLES Notes Chkd. Checked X-Sec.

Indexed [redacted] Date Date Date No.

| 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 | | | | | |
| 5-20 | 5-19 | | 21 | 315 | 13 | | | |
| | | | 22 | 317 | 45 | | | |
| | | | 23 | 320 | 55 | | | |
| | | | 24 | 322 | 47 | | | |
| | | | 25 | 324 | 27 | | | |
| | | | 26 | 326 | 24 | | | |
| | | | 27 | 328 | 21 | | | |
| | | | 28 | 331 | 31 | | | |
| | | | 29 | 334 | 33 | | | |
| | | | 30 | 336 | 45 | | | |
| | | | 31 | 339 | 33 | | | |
| | | 10:05 | 32 | 342 | 33 | | | |

76-L-298 CE 307 5-66

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. | LT 304 + 65 RT |
|---|---|---|---|---|---|
| T.P. | | | | 776 | |
| | | | | 115 | 52° TOP BRK |
| | | | | 113 | 74° BOT BRK |
| T.P. | | | | 9.85 | 83° T.P. 1X2 |
| 304+65S | | | | 16.33 | 5/4 |
| | | | | 199 | 28 BOT. BRK. |
| — | | | | 2241 | 39 top cb. |
| BM 5-19 | | | | 21.57 | B.M. 5-19 EL.= 21.565 F.B. 2100-29-158 |
| " | | H.I. | | 6.50 | 1"x2" T.P. 102' Bk. [illegible] |
| | 2.0 | [illegible] | | | TRANSIT @ [illegible] Sight @ 302+14 (Angle Left) |
| | | | | | Angle |
| 1 | | | [illegible] | [illegible] | 42° 17' |
| 2 | | | 9.5 | -1.0 | [illegible] |
| 3 | | | 10.0 | -1.5 | 51° 45' |
| 4 | | | 11.2 | -2.7 | 55° 45' |
| 5 | | | 12.3 | -3.8 | 58° 04' |
| 6 | | | 15.3 | -6.8 | 60° 05' |
| 7 | | | 17.5 | -7.0 | 61° 07' |

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300 Division No. 11 F.B. 2816 Pg. 39
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY (REDONDO)
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 2-4-69
No. ____ Date ____ Date ____ Map No. ____ Indexed [redacted] Date ____

F. B. 2816 PG. 40 | Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

Survey by_____ Notes_____ Notes Chk'd._____ Checked_____ X-Sec.

Indexed_____ Date_____ Date_____ Date_____ No._____

76-L-298 CE 307 5-66

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. |
|---|---|---|---|---|
| | | | | |

DATUM
MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

PLEASE RETURN TO

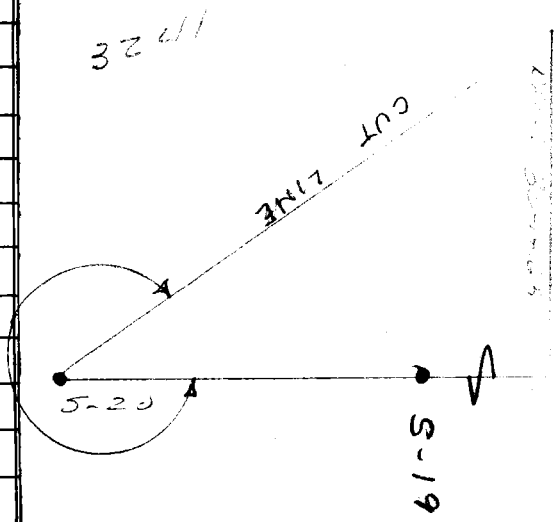
LOS ANGELES COUNTY SURVEYOR

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 | | | | | |
| 5-20 | 5-10 | 10:18 | 1 | 302 | 30 | | | |
| | | | 2 | 302 | 45 | | | |
| | | | 3 | 307 | 50 | | | |
| | | | 4 | 311 | 14 | | | |
| | | | 5 | 313 | 13 | | | |
| | | | 6 | 315 | 02 | | | |
| | | | 7 | 317 | 20 | | | |
| | | | 8 | 319 | 36 | | | |
| | | | 9 | 322 | 24 | | | |
| | | | 10 | 327 | 10 | | | |
| | | | 11 | 331 | 95 | | | |
| | | | 12 | 336 | 10 | | | |
| | | 10:21 | 13 | 340 | 37 | | | |




Profile Notes Red____ Plotted____ Job No.____ Division No.____

No.____ Date____ Date____ Survey of____

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

No.____ Date____ Date____ Map No.____ Indexed____ Date____

F. B. 2816 PG 41

F. B. 2916 Pg. 42 | Job No. 830002 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDROGRAPHIC SURVEY Date 3-7-49 Date _____ No. _____

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

Indexed [redacted] GALLI 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 | | | | | |
| 5-20 | 5-19 | | | | | | | |

**Do not extend notes this side of this line.**

761.298 307 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.

| | |
|---|---|
| Notes Ck'd by | Survey of HYDROGRAPHIC SURVEY |
| Map No. | JN 0300.02 Tape Std °F |
| Office Work | Surveyed by W. A. RICHARDS |
| Checked | Notes VHARRIET Date 2-4-69 |
| Date | Indexed |

F. B. 2816 PG. 43

TIDE GAGE READINGS
FEB. 4, 1969

| TIME (P.S.T.) | TIDE (M.L.L.W.) |
|---|---|
| 6:00 | 2.7 |
| 6:30 | 3.2 |
| 7:00 | 3.8 |
| 7:30 | 4.2 |
| 8:00 | 4.6 |
| 8:30 | 5.1 |
| 9:00 | 5.3 |
| 9:30 | 5.5 |
| 10:00 | 5.5 |
| 10:30 | 5.4 |
| 11:00 | 5.2 |
| 11:30 | 4.6 |
| 12:00 | 4.2 |
| 12:30 | 3.5 |
| 1:00 | 2.8 |
| 1:30 | 2.1 |
| 2:00 | 1.4 |

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

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

Do not extend this side of this line.

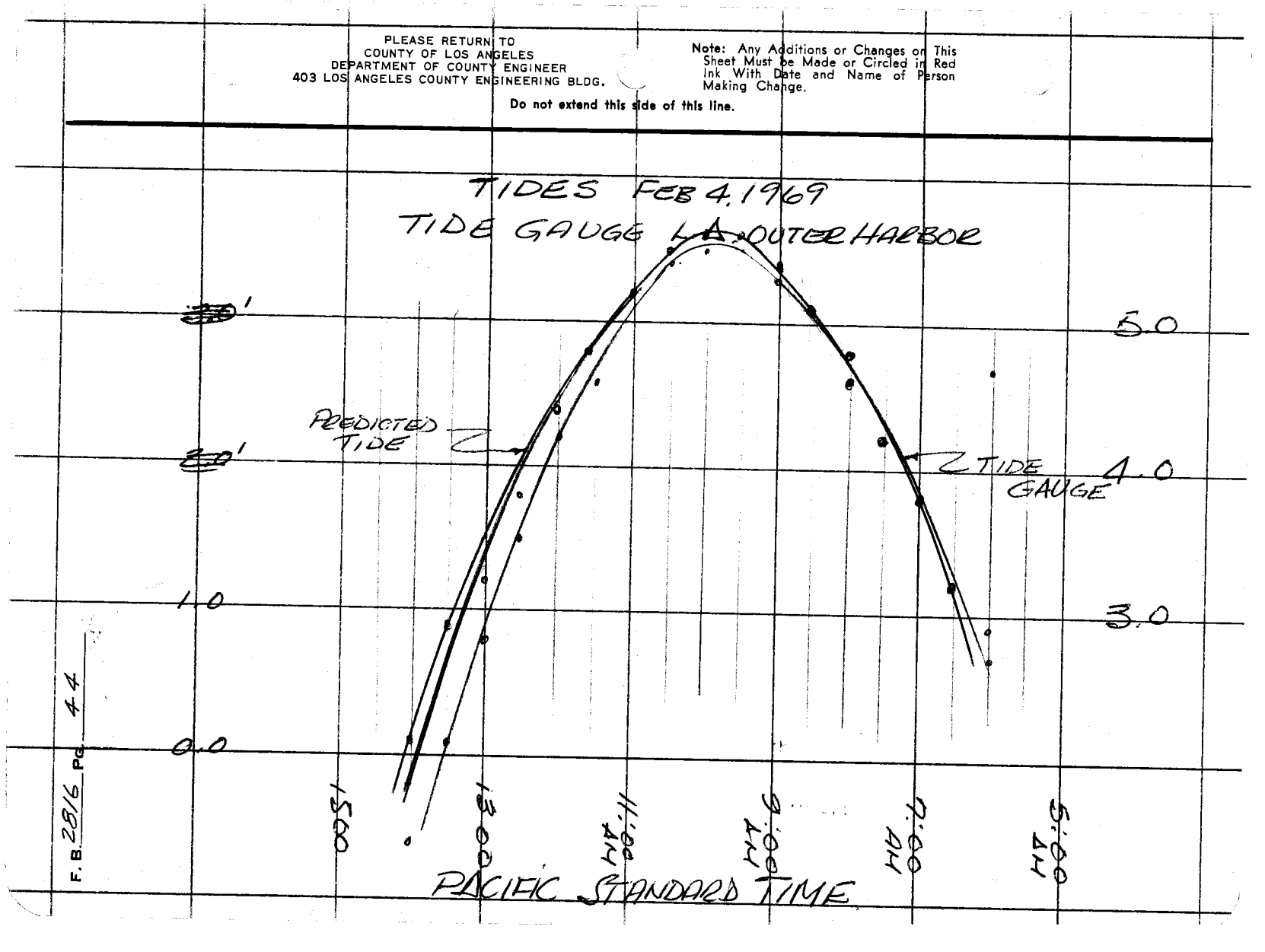
PLEASE RETURN TO
COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-68

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

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

Do not extend this side of this line.




F. B. 2816 PG. 44

76-L-298 CE 307 2-63

17.40

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. | LT. 306 + 65 S RT. | |
|---|---|---|---|---|---|---|
| B.M. S-19 | | | | 21 56 | B.M. S-19 EL = 21.565 | F.B. 2100-29 & 158 |
| | | | | | BR. CP. MON. R.E. 2177 | 0² DN. IN MAC. PVMT. |
| 306+65 S | | | | 20 92 | SPK. & T (T.P.) | ℄ |
| " | | | | 20 81 | | 6 4' T.C. @ ED. SER. RD |
| " | | | | 18 5 | | 16' BOT. BRK |
| " | | | | 12 7 | | 55' " " |
| " | | | | 8.7 | | 100' SAND |
| | | | | 20 92 | SPK. & T (T.P.) | ℄ |
| " | | | | 4.0 | TP. | 140' Sand |
| | 3.5 | H.I. 7.5 | | | TRANSIT @ S-20 Sight @ S-19 (Angles Lt.) | |
| | | | | | angle | |
| 1 | | | 8.1 | -0.6 | 18° 19' | |
| 2 | | | 9.2 | -1.7 | 21° 00' | |
| 3 | | | 11.0 | -3.5 | 26° 04' | |
| 4 | | | 11.8 | -4.3 | 31° 07' | |
| 5 | | | 13.5 | -6.0 | 36° 10' | |

DATUM
MEAN LOWER LOW WATER

Profile No. ___ Notes Red ___ Date ___ Plotted ___ Date ___ Job No. 0300.02 Division No. 11 Survey of BEACH EROSION STUDY (REDONDO) Survey by ___ Notes ___ Date 1-27-67 Map No. ___ Indexed ___ Date ___

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

F.B. 2816 Pg. 45

F.B. 2816 PG. 46 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. |
|---|---|---|---|---|
| | | | | |

DATUM
MEAN LOWER LOW WATER

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

78-L-298 CE 307 2-63

76L298 307 Cdb 12-62

PLEASE RETURN TO

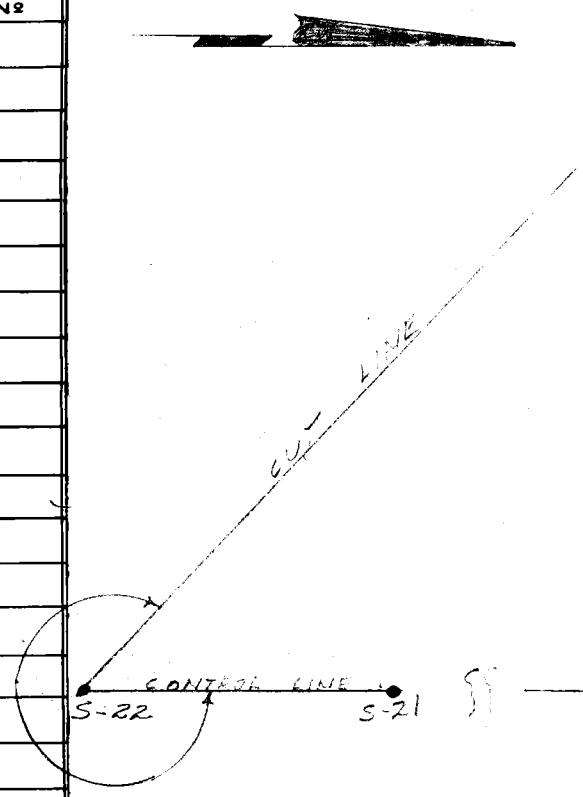
LOS ANGELES COUNTY SURVEYOR

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 LINE DEG. | FOR OFFICE USE ONLY RANGE LINE MIN. | FOR OFFICE USE ONLY CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| S-22 | S-21 | 7:57 | 1 | 311 | 26 | | | |
| | | | 2 | 312 | 19 | | | |
| | | | 3 | 313 | 32 | | | |
| | | | 4 | 314 | 55 | | | |
| | | | 5 | 315 | 58½ | | | |
| | | | 6 | 317 | 56 | | | |
| | | | 7 | 319 | 17 | | | |
| | | | 8 | 320 | 59 | | | |
| | | | 9 | 322 | 15 | | | |
| | | | 10 | 324 | 05 | | | |
| | | | 11 | 325 | 18 | | | |
| | | | 12 | 326 | 25 | | | |
| | | | 13 | 327 | 46 | | | |
| | | | 14 | 329 | 07 | | | |
| | | | 15 | 330 | 12 | | | |
| | | | 16 | 331 | 13 | | | |
| | | | 17 | 332 | 25 | | | |
| | | | 18 | 333 | 42 | | | |
| | | | 19 | 334 | 46 | | | |
| | | | 20 | 336 | 02 | | | |




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

No.____ Date____ Date____ Survey of HYDROGRAPHIC SURVEY

X-Sec. Notes Chkd.____ Checked____ Survey by____ Notes TOLLIER Date 1-28-69

No.____ Date____ Date____ Map No.____ Indexed [redacted] Date____

F. B. 2816 Pg. 47

F. B. 2816 PG. 48 Job No. 030002 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDROGRAPHIC SURVEY Date 1-28-69 Date _____ No. _____

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

Indexed R.E. GALLI Date _____ Date _____ Date _____ No. _____

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT DON'T PUNCH | SIGHT ON DON'T PUNCH | TIME DON'T PUNCH | ANGLE Nº DON'T PUNCH | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | FOR OFFICE USE ONLY RANGE LINE MIN. | FOR OFFICE USE ONLY CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| [illegible] | [illegible] | 8:03 | 21 | 388 | [illegible] | | | |

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. | LT 308+65 S RT |
|---|---|---|---|---|---|
| 306+65 S | | | | 20 92 | SPK. ET (T.P.) ℄ |
| 308+65 S | | | | 19 04 | SPK. (T.P.) ℄ |
| " | | | | 18 89 | 6² EDGE PVMT |
| " | | | | 11 8 | 55' BOT. BRK. |
| " | | | | 8 4 | 100' |
| " | | | | 19 04 | SPK. (T.P.) ℄ |
| | | | | 2.6 | T.P. 140' Sand |
| — | 4.3 | 4.1. 6.9 | | | TRANSIT SET @ S-20 Sight @ S-19 (Angles Left) |
| | | | | | angle |
| | | | 8.0 | -1.1 | 27°04' |
| | | | 9.8 | -2.9 | 33°0' |
| | | ? | 10.2 | -3.3 | 38°10' |
| | | | 10.6 | -3.7 | 43°56' |
| | | | 11.8 | -4.9 | 46°55' |
| | | | 16.5 | -9.6 | 52°13 |

DATUM
MEAN LOWER LOW WATER

Profile No. ___ Notes Red ___ Plotted ___ Job No. 0300.02 Division No. 11
X-Sec. No. ___ Date ___ Date ___ Survey of BEACH EROSION STUDY (REDONDO)
Notes Chkd. ___ Checked ___ Survey by ___ Notes ___ Date 1-27-67
Date ___ Date ___ Map No. ___ Indexed [redacted] Date ___

F. B. 2816 Pg 49

F.B. 2816 PG. 50 | 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. |
|---|---|---|---|---|
| | | | | |

DATUM
MEAN LOWER LOW WATER

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

PLEASE RETURN TO

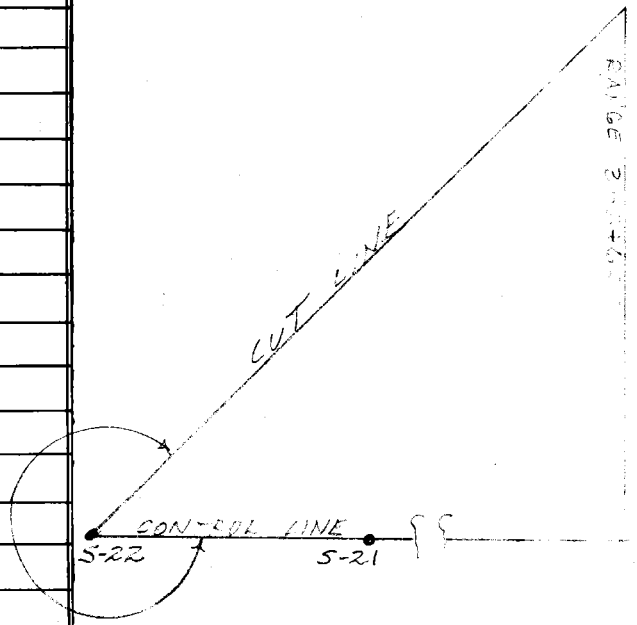
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | FOR OFFICE USE ONLY RANGE LINE MIN. | FOR OFFICE USE ONLY CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| S-22 | S-21 | 8:39 | 1 | 281 | 18 | | | |
| | | | 2 | [illegible] | 12 | | | |
| | | | 3 | [illegible] | 5 | | | |
| | | | 4 | [illegible] | 41 | | | |
| | | | 5 | [illegible] | 32 | | | |
| | | | 6 | 295 | 20 | | | |
| | | | 7 | 296 | 16 | | | |
| | | | 8 | 297 | 34 | | | |
| | | | 9 | 298 | 22 | | | |
| | | | 10 | [illegible] | 17 | | | |
| | | | 11 | [illegible] | 17 | | | |
| | | | 12 | 301 | 16 | | | |
| | | | 13 | 302 | 30 | | | |
| | | | 14 | 303 | 48 | | | |
| | | | 15 | 304 | 25 | | | |
| | | | 16 | 305 | 12 | | | |
| | | | 17 | 307 | 44 | | | |
| | | | 18 | 308 | 49 | | | |
| | | | 19 | 309 | 41 | | | |
| | | | 20 | 310 | 37 | | | |




Profile Notes Red. ____ Plotted ____ Job No. [illegible] Division No. [illegible]

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Note [illegible] Date [illegible]

No. ____ Date ____ Date ____ Map No. ____ Indexed [redacted] Date ____

F. B. 28 16 Pg. 51

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. 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-22 | S-21 | | 21 | 311 | 11 | | | |
| | | | 22 | 311 | 51 | | | |
| | | | 23 | 312 | 17 | | | |
| | | | 24 | 312 | 16 | | | |
| | | | 25 | 314 | [illegible] | | | |
| | | | [illegible] | 314 | 16 | | | |
| | | | 27 | 317 | [illegible] | | | |
| | | | 28 | 318 | 40 | | | |
| | | | 29 | 319 | 50 | | | |
| | | | 30 | 320 | [illegible] | | | |
| | | | 31 | 321 | [illegible] | | | |
| | | | 32 | 323 | 18 | | | |
| | | | 33 | [illegible] | [illegible] | | | |
| | | | [illegible] | 326 | 14 | | | |
| | | | 35 | [illegible] | [illegible] | | | |
| | | | 36 | 329 | 28 | | | |
| | | | 37 | 330 | 53 | | | |
| | | | 38 | 332 | 17 | | | |
| | | | 39 | 334 | 13 | | | |
| | | | 40 | 335 | 18 | | | |

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date 1-23-69 Notes Chkd. Date

Division No. 11 Job No. 03002

Survey of HYDROGRAPHIC SURVEY

Survey by Notes TULLIER

Indexed [redacted] Date

F. B. 2814 Pg. 52

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 | | | | | |
| [illegible] | [illegible] | | 1 | 336 | 24 | | | |
| | | | 2 | 357 | 21 | | | |
| | | [illegible] | 3 | 333 | 30 | | | |

CONTINUED

Profile Notes Red. ____ Plotted ____ Job No. [illegible] Division No. ____ F. B. [illegible] PG. 53

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

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

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2316 PG. 54 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.______

| 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 |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

Do not extend notes this side of this line.

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

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

76L298 307 Cdb 12-62

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.

(3)

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LT. 310+65 S RT. |
|---|---|---|---|---|---|
| 308+65 S | | | | 19 04 | SPK. (T.P.) ℄ |
| 310+65 S | | | | 18 09 | SPK. (T.P.) ℄ |
| " | | | | 17 94 | 6⅝ T.C. @ SER. RD. |
| " | | | | 8 3 | 72' SAND |
| " | | | | 5 3 | 100' " |
| " | | | | 18 09 | SPK. (T.P.) ℄ |
| | | | | 1.8 | T.P. 127' sand. |
| | 4.7 | H.I. 6.5 | | | TRANSIT @ S-20 - Sight @ S-19 (angles Left) |
| | | | | | Angle |
| 1 | | | 7.9 | -1.4 | 48° 55' |
| 2 | | | 8.7 | -2.2 | 56° 09' |
| 3 | | | 7.8 | -1.3 | 61° 40' |
| 4 | | | 9.3 | -2.8 | 67° 07' |
| 5 | | | 11.7 | -5.2 | 70° 18' |
| 6 | | | 14.5 | -8.0 | 72° 11' |

RAIN DROPS

DATUM
MEAN LOWER LOW WATER

Profile No. ____ X-Sec. No. ____ Notes Red ____ Date ____ Notes Chkd. ____ Date ____ Plotted ____ Date ____ Checked ____ Date ____ Job No. 0300.04 Division No. 11 Survey of BEACH EROSION STUDY (REDONDO) Survey by ____ Map No. ____ Notes ____ Indexed ____ Date ____ Date 1-27-67

F. B. 2816 Pg. 55

F. B. 2816 PG. 56 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. |
|---|---|---|---|---|
| | | | | |

DATUM
MEAN LOWER LOW WATER

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

78-L-298 CE 307 2-63

76L298 307 Cdb 12-62

PLEASE RETURN TO

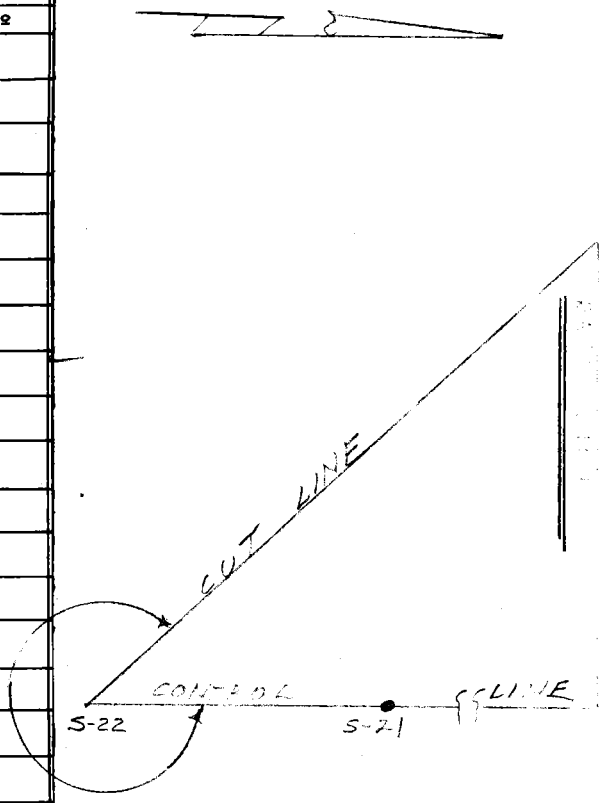
LOS ANGELES COUNTY SURVEYOR

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 LINE DEG. | FOR OFFICE USE ONLY RANGE LINE MIN. | FOR OFFICE USE ONLY CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| S-22 | S-21 | 9:21 | 1 | [illegible] | 11 | | | |
| | | | 2 | [illegible] | [illegible] | | | |
| | | | 3 | [illegible] | [illegible] | | | |
| | | | 4 | [illegible] | [illegible] | | | |
| | | | 5 | [illegible] | [illegible] | | | |
| | | | 6 | [illegible] | [illegible] | | | |
| | | | 7 | [illegible] | [illegible] | | | |
| | | | 8 | [illegible] | 58 | | | |
| | | | 9 | [illegible] | [illegible] | | | |
| | | | 10 | [illegible] | [illegible] | | | |
| | | | 11 | 300 | 03 | | | |
| | | | 12 | 301 | 00 | | | |
| | | | 13 | 301 | 40 | | | |
| | | | 14 | 302 | [illegible] | | | |
| | | | 15 | 302 | 49 | | | |
| | | | 16 | 303 | [illegible] | | | |
| | | | 17 | 303 | [illegible] | | | |
| | | | 18 | 304 | 13 | | | |
| | | | 19 | 305 | 02 | | | |
| | | | 20 | 305 | 56 | | | |




Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. 11 F. B. 28[illegible] Pg. 57

No. ____ Date ____ Date ____ Survey of HYDROGRAPHIC SURVEY

X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes TULLIER Date 1-28-69

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2816 PG. 58 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDROGRAPHIC SURVEY Date 1-23-69 Date _____ No. _____

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

Indexed [redacted] GALLI Date _____ Date _____ Date _____ No. _____

76L298 307 Gdb 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 DON'T PUNCH | SIGHT ON DON'T PUNCH | TIME DON'T PUNCH | ANGLE Nº DON'T PUNCH | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE DEG. | FOR OFFICE USE ONLY LINE MIN. | FOR OFFICE USE ONLY CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| S-22 | S-21 | | 21 | 306 | 30 | | | |
| | | | 22 | 307 | 19 | | | |
| | | | 23 | 307 | 55 | | | |
| | | | 24 | 303 | 49 | | | |
| | | | 25 | 309 | 30 | | | |
| | | | 26 | 310 | 08 | | | |
| | | | 27 | 310 | 20 | | | |
| | | | 28 | 312 | 00 | | | |
| | | | 29 | 310 | 00 | | | |
| | | | 30 | 314 | 20 | | | |
| | | | 31 | 315 | 23 | | | |
| | | | 32 | 316 | 12 | | | |
| | | | 33 | 317 | 19 | | | |
| | | | 34 | 318 | 15 | | | |
| | | | 35 | 319 | 13 | | | |
| | | | 36 | 320 | 19 | | | |
| | | | 37 | 321 | 40 | | | |
| | | | 38 | 322 | 58 | | | |
| | | | 39 | 324 | 02 | | | |
| | | | 40 | 329 | 53 | | | |

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

X-Sec. No. _____ Notes Chkd. _____ Date _____ Checked _____ Date _____ Survey by _____ Notes [illegible] Date 1-25-69

Map No. _____ Indexed [redacted] Date _____

F. B. [illegible] Pg. 59

CONTINUED

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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE DEG. | LINE MIN. | CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| [illegible] | [illegible] | | [illegible] | [illegible] | [illegible] | | | |
| | | | [illegible] | 327 | [illegible] | | | |
| | | | [illegible] | [illegible] | [illegible] | | | |
| | | | [illegible] | [illegible] | [illegible] | | | |
| | | | [illegible] | [illegible] | 49 | | | |
| | | | [illegible] | 332 | [illegible] | | | |
| | | | [illegible] | [illegible] | [illegible] | | | |
| | | | [illegible] | 335 | [illegible] | | | |
| | | | [illegible] | [illegible] | 36 | | | |
| | | | [illegible] | [illegible] | [illegible] | | | |
| | | | [illegible] | [illegible] | [illegible] | | | |
| | | | [illegible] | [illegible] | [illegible] | | | |
| | | | [illegible] | [illegible] | [illegible] | | | |
| | | | [illegible] | [illegible] | 33 | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

76L298 307 Cdb 12-62

F. B. 2814 PG. 60

| | | | | |
|---|---|---|---|---|
| Job No. | Division No. | Notes Red. | Plotted | Profile No. |
| Survey of | | Date | Date | |
| Survey by | 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 № (Don't Punch) | Hor. Angle Deg. | Hor. Angle Min. | For Office Use Only: Range Line Deg. | For Office Use Only: Range Line Min. | For Office Use Only: Card № |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

Do not extend notes this side of this line.

76L298 307 Cdb 12-62

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

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

76-L-298 CE 307 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. | LT. 312 +65 S RT. |
|---|---|---|---|---|---|
| 310+65 S | | | | 18 09 | SPK. (T.P.) ℄ |
| B.M. S-20 | | | | 17 38 | B.M. S-20 EL. = 17.400 F.B. 2100-30 & 158 |
| | | | | | BT. SPK. SET IN CONC. IN BR. CAP DN. 3" IN |
| | | | | | MAC. PVMT. 3' W. OF BASE CONC. WALL. |
| 312+65 S | | | | 17 19 | SPK. (T.P.) ℄ |
| " | | | | 17 00 | 7.5 ED. RD. T.C. |
| " | | | | 15 3 | 24.5 TOP BRK |
| " | | | | 10 0 | 51' BOT. BRK |
| " | | | | 8 5 | 70' TOP BRK |
| " | | | | 4.6 | T.P. 100' M.H.W. |
| " | | | | 17 19 | SPK. (T.P.) ℄ |
| " | | H.I. | | 0.0 | 135' sand |
| | 0.9 | 5.5 | | | TRANSIT @ 317+00 Sight on S-20 (angles To Left) |
| | | | | | angle |
| 1 | | | 6.8 | -1.3 | 20° 25' |
| 2 | | | 7.0 | -1.5 | 25° 50' |
| 3 | | | 7.5 | -2.0 | 30° 32' |
| 4 | | | 7.4 | -1.9 | 34° 40' |
| 5 | | | 10.7 | -5.2 | 38° 33' |
| 6 | | | 15.8 | -10.3 | 44° 22' |

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2816 Pg. 61
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY (REDONDO)
X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date 1-27-69
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2816 PG. 62

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. |
|---|---|---|---|---|
| | | | | |

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

MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

PLEASE RETURN TO

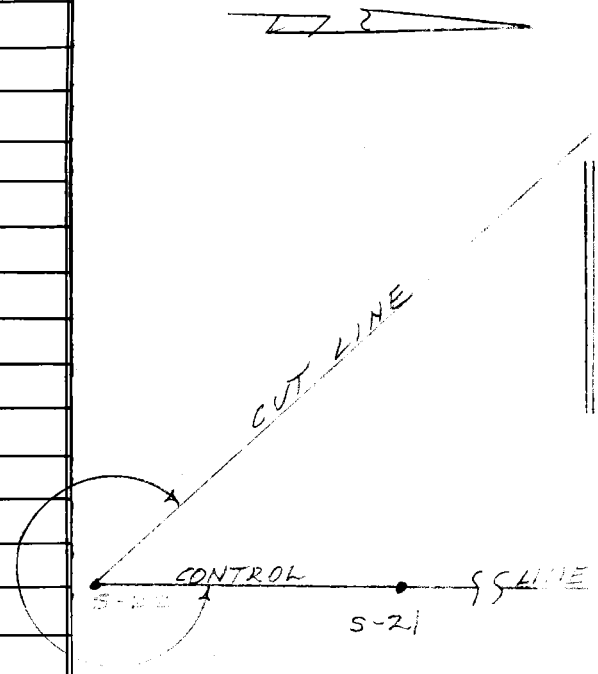
LOS ANGELES COUNTY SURVEYOR

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 | | | | | |
| | | 9:57 | 1 | 285 | 56 | | | |
| | | | 2 | 286 | 41 | | | |
| | | | 3 | 287 | 30 | | | |
| | | | 4 | 288 | 20 | | | |
| | | | 5 | 289 | 10 | | | |
| | | | 6 | 290 | 22 | | | |
| | | | 7 | 291 | 32 | | | |
| | | | 8 | 292 | 40 | | | |
| | | | 9 | 293 | 1 | | | |
| | | | 10 | 294 | 21 | | | |
| | | | 11 | 295 | 30 | | | |
| | | | 12 | 296 | 41 | | | |
| | | | 13 | 297 | 49 | | | |
| | | | 14 | 298 | 33 | | | |
| | | | 15 | 299 | 17 | | | |
| | | | 16 | 297 | 19 | | | |
| | | | 17 | 298 | 30 | | | |
| | | | 18 | 299 | 32 | | | |
| | | | 19 | 300 | 55 | | | |
| | | | 20 | 301 | 30 | | | |




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

No. Date Date Survey of HYDROGRAPHIC SURVEY

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

No. Date Date Map No. Indexed [redacted] Date

F. B. PG. 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 LINE DEG. | RANGE LINE MIN. | CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| S-20 | S-21 | | 21 | 302 | 08 | | | |
| | | | 22 | 303 | 03 | | | |
| | | | 23 | 303 | 56 | | | |
| | | | 24 | 305 | 12 | | | |
| | | | 25 | 306 | 28 | | | |
| | | | 26 | 307 | 34 | | | |
| | | | 27 | 308 | 21 | | | |
| | | | 28 | 309 | 18 | | | |
| | | | 29 | 31[illegible] | 01 | | | |
| | | | 30 | 31[illegible] | 40 | | | |
| | | | 31 | 315 | 57 | | | |
| | | | 32 | 318 | 13 | | | |
| | | | 33 | 317 | [illegible] | | | |
| | | | 34 | 320 | [illegible] | | | |
| | | | 35 | 32[illegible] | [illegible] | | | |
| | | | 36 | 32[illegible] | [illegible] | | | |
| | | | 37 | 323 | 46 | | | |
| | | | 38 | 324 | 37 | | | |
| | | | 39 | 325 | 25 | | | |
| | | | 40 | 326 | 05 | | | |

F. B. 2816 PG. 64

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

Survey of HYDROGRAPHIC SURVEY Date 1-25-69 Date No.

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

Indexed [redacted] Date Date Date No.

76L298 307 Cdb 12-62

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

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

**Do not extend notes this side of this line.**

312+65 S, CONT

| 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 | | | | | |
| | | | 41 | 320 | 57 | | | |
| | | | 42 | [illegible] | 53 | | | |
| | | [illegible] | 43 | 329 | 32 | | | |
| | | 10:12 | 1 | 225 | 15 | | | |
| | | | 2 | [illegible] | 3[illegible] | | | |
| | | | 3 | [illegible] | 30 | | | |
| | | | 4 | [illegible] | 51 | | | |
| | | | 5 | [illegible] | 31 | | | |
| | | | 6 | [illegible] | 28 | | | |
| | | | 7 | [illegible] | 50 | | | |
| | | | 8 | [illegible] | [illegible] | | | |
| | | | 9 | [illegible] | 23 | | | |
| | | | 10 | [illegible] | [illegible] | | | |
| | | | 11 | [illegible] | 38 | | | |
| | | | 12 | [illegible] | 42 | | | |
| | | | 13 | [illegible] | 47 | | | |
| | | | 14 | [illegible] | 50 | | | |
| | | 10:5 | 15 | [illegible] | 57 | | | |
| | | | | | | | | |
| | | | | | | | | |

PARTIAL RE-RUN OF THIS RANGE LINE

Profile Notes Red____ Plotted____ Job No.____ Division No.____ F. B. ____ Pg. 65

No.____ Date____ Date____ Survey of____

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

No.____ Date____ Date____ Map No.____ Indexed____ Date____

F. B. 2816 PG. 66 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.

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

**Do not extend notes this side of this line.**

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

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

761.298 307 Cdb 12-62

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. | LT. 314 +65 S RT. |
|---|---|---|---|---|---|
| 312+65 S | | | | 17 19 | SPK. (T.P.) ℄ |
| 314+65 S | | | | 17 51 | SPK. (T.P.) ℄ |
| " | | | | 17 18 | 9.5 EDGE PVMT. |
| " | | | | 16 7 | 19' TOP BRK. |
| " | | | | 13 7 | 33' BOT BRK |
| " | | | | 11.0 | 63 TOP BRK |
| " | | | | 6 5 | 100' SAND |
| " | | | | 4.6 | T.P. 114° M.H.W. |
| " | | H.I. | | 17 51 | SPK. (T.P.) ℄ |
| | 1.1 | 5.7 | | | |
| | | | | | TRANSIT SET @ 317+00 Sight on S-20 (Angles Left) |
| | | | | | angle |
| 1 | | | 5.3 | 0.4 | 41° 45' |
| 2 | | | 6.3 | -0.6 | 48° 30' |
| 3 | | | 8.2 | -2.5 | 55° 16' |
| 4 | | | 12.1 | -6.4 | 60° 38' |
| 5 | | | 14.9 | -9.2 | 64° 21' |
| 6 | | | 17.1 | -11.4 | 67° 31' |

DATUM
MEAN LOWER LOW WATER

Profile No. ___ Notes Red ___ Plotted ___ Job No. 0300.02 Division No. 11
Date ___ Date ___ Survey of BEACH EROSION STUDY (REDONDO)
X-Sec. No. ___ Notes Chkd. ___ Checked ___ Survey by ___ Notes ___ Date 1-27-69
Date ___ Date ___ Map No. ___ Indexed [redacted] Date ___

F.B. 2816 Pg. 67

F.B. 2816 PG. 68 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. |
|---|---|---|---|---|
| | | | | |

DATUM
MEAN LOWER LOW WATER

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

78-L-298 CE 307 2-63

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

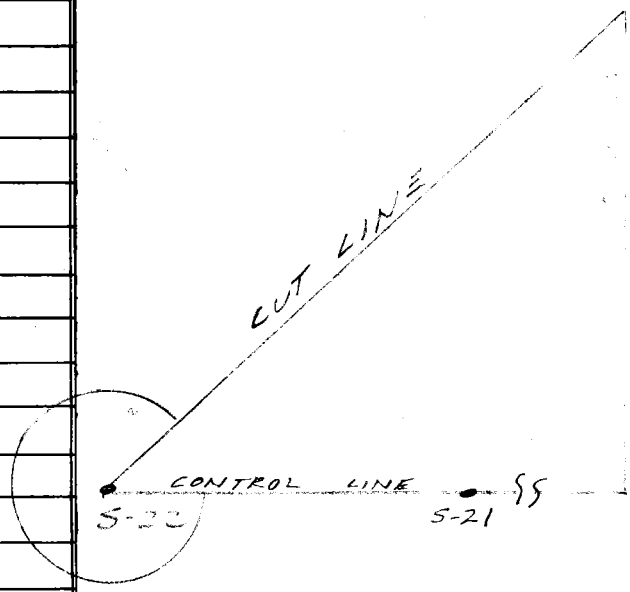
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.**

314+65 S,

| 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 | | | | | |
| [illegible] | [illegible] | 11:01 | 1 | 281 | 27 | | | |
| | | | 2 | 282 | 16 | | | |
| | | | 3 | 283 | 02 | | | |
| | | | 4 | 282 | 57 | | | |
| | | | 5 | 283 | 47 | | | |
| | | | 6 | 284 | 36 | | | |
| | | | 7 | 285 | 13 | | | |
| | | | 8 | 285 | 49 | | | |
| | | | 9 | 287 | 23 | | | |
| | | | 10 | 290 | 04 | | | |
| | | | 11 | 290 | 41 | | | |
| | | | 12 | 292 | 19 | | | |
| | | | 13 | 293 | 16 | | | |
| | | | 14 | 293 | 16 | | | |
| | | | 15 | 295 | 25 | | | |
| | | | 16 | 296 | 24 | | | |
| | | | 17 | 296 | 46 | | | |
| | | | 18 | 298 | 02 | | | |
| | | | 19 | 298 | 46 | | | |
| | | | 20 | 299 | 40 | | | |




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

No. Date Date Survey of [illegible] SURVEY

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

No. Date Date Map No. Indexed [illegible] Date

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

F. B. 2814 Pg. 70 Job No. 030202 Division No. 11 Notes Red. Plotted

Survey of HYDROGRAPHIC SURVEY Date 1-23-69 Date

Survey by [redacted] Notes TULLIER Notes Chkd. Checked

Indexed Date Date

Profile No. X-Sec. No.

| 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-22 | S-21 | | 21 | 300 | 23 | | | |
| | | | 22 | 301 | 30 | | | |
| | | | 23 | 302 | 30 | | | |
| | | | 24 | 303 | 30 | | | |
| | | | 25 | 305 | 05 | | | |
| | | | 26 | 306 | 26 | | | |
| | | | 27 | 307 | 47 | | | |
| | | | 28 | 309 | 44 | | | |
| | | | 29 | 311 | 32 | | | |
| | | | 30 | 312 | 45 | | | |
| | | | 31 | 314 | 04 | | | |
| | | | 32 | 315 | 41 | | | |
| | | | 33 | 316 | 58 | | | |
| | | | 34 | 318 | 47 | | | |
| | | | 35 | 320 | 45 | | | |
| | | | 36 | 322 | 10 | | | |
| | | | 37 | 324 | 21 | | | |
| | | | 38 | 326 | 05 | | | |
| | | | 39 | 328 | 39 | | | |
| | | | 40 | 331 | 40 | | | |

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.**

314+ 65 S., CON'T.

| 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-22 | S-21 | | 71 | 332 | 46 | | | |
| | | 11:12 | 72 | 335 | 27 | | | |

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

No.____ Date____ Date____ Survey of____

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

No.____ Date____ Date____ Map No.____ Indexed____ Date____

F. B. Pg. 71

F. B. PG. 72 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.____

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

**Do not extend notes this side of this line.**

76L298 307 Cdb 12-62

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

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

| | |
|---|---|
| Notes Ck'd by | Survey of HYDROGRAPHIC SURVEY |
| Map No. | JN Tape Std °F |
| Office Work | Surveyed by M.A. PALMER |
| Checked | Notes CHANNEL Date 1-28-69 |
| Date | Indexed |

F. B. 2816 PG. 73

TIDE GAGE READINGS
JAN. 28, 1969

| TIME (P.S.T.) | TIDE (M.L.L.W.) |
|---|---|
| 6:00 | 5.3 |
| 6:30 | 5.2 |
| 7:00 | 5.1 |
| 7:30 | 4.7 |
| 8:00 | 4.4 |
| 8:30 | 4.0 |
| 9:00 | 3.5 |
| 9:30 | 2.9 |
| 10:00 | 2.4 |
| 10:30 | 2.0 |
| 11:00 | 1.5 |
| 11:30 | 1.1 |
| 12:00 | 0.7 |
| 12:30 | 0.4 |
| 1:00 | 0.2 |
| 1:30 | 0.1 |
| 2:00 | 0.2 |

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

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

Do not extend this side of this line.

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

76F309S CE#310 3-68

F. B. 2816 PG. 74




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

Do not extend this side of this line.

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

76-L-298 CE 307 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. | LT. 315+10 S | | RT. |
|---|---|---|---|---|---|---|---|
| 314+65 S | | | | 17 51 | SPK. (T.P.) | | ℄ |
| 315+10 S | | | | 17 62 | SPK. (T.P.) | | ℄ |
| " | | | | 17 26 | | | 9.8 TC. @ ED. SER. RD |
| " | | | | 13 9 | | | 30' BOT. BRK |
| " | | | | 10 7 | | | 60' SAND |
| " | | | | 7 2 | | | 88' " |
| 315+10 S | | | | 17 62 | SPK. (T.P.) | | ℄ |
| | | | | 4.6 | | | 125' sand |
| | | H.I. | | 2.2 | T.P. | | 155 " |
| | 28 | 5.0 | | | TRANSIT SET @ S-20 Sight on S-21 (Angles Right) | | |
| | | | | | Angle | | |
| 1 | | | 4.8 | 0.2 | 34°25' | 223' | |
| 2 | | | 5.6 | -0.6 | 39°43' | 275' | |
| 3 | | | 8.2 | -3.2 | 44°59' | 335' | |
| 4 | | | 12.1 | -7.1 | 51°30' | 430' | |
| 5 | | | 16.0 | -11.0 | 54°32' | 486' | |
| 6 | | | 17.5 | -12.5 | 55°45' | 511' | |

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 0300.02 Division No. 11 Survey of BEACH EROSION STUDY (REDONDO) Survey by ____ Notes ____ Date 1-27-62 Map No. ____ Indexed ____ Date ____

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

F.B. 2816 Pg. 75

F.B. 2816 PG. 76

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. _____

76-L-298 CE 307 2-63

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

409 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

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

DATUM
MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

PLEASE RETURN TO

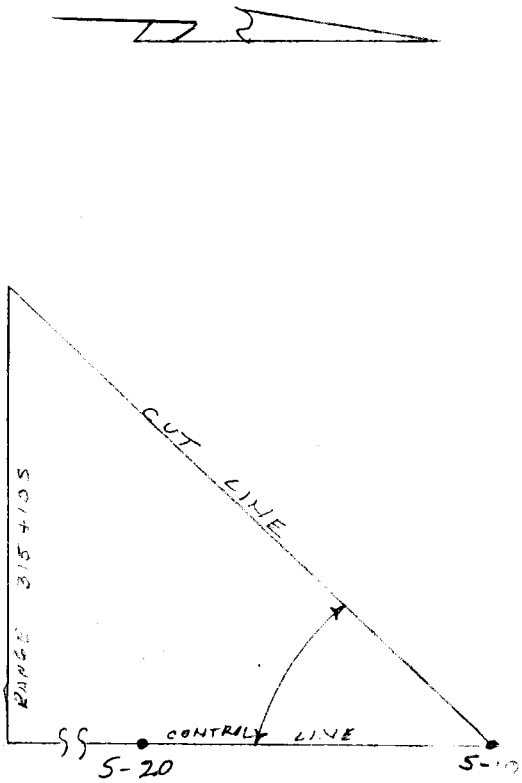
LOS ANGELES COUNTY SURVEYOR

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.** 315 + 10 S.

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | FOR OFFICE USE ONLY RANGE LINE MIN. | CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| S-19 | S-20 | 8:22 | 1 | 35 | 39 | 65 | 0 | |
| | | | 2 | 34 | 29 | 62 | 2 | |
| | | | 3 | 33 | 30 | 59 | 8 | 3151014 |
| | | | 4 | 32 | 26 | | | |
| | | | 5 | 31 | 28 | | | |
| | | | 6 | 30 | 33 | | | 3151016 |
| | | | 7 | 29 | 37 | | | |
| | | | 8 | 28 | 32 | | | |
| | | | 9 | 27 | 19 | | | 3151018 |
| | | | 10 | 26 | 38 | | | |
| | | | 11 | 24 | 16 | | | |
| | | | 12 | 23 | 31 | | | 3151020 |
| | | | 13 | 21 | 53 | | | |
| | | 8:24 | 14 | 20 | 27 | | | |
| | | | | 00 | 00 | | | 3151022 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3151024 |
| | | | | | | | | |
| | | | | | | | | |




Profile Notes Red. Plotted Job No. Division No. 11 F. B. 2416 Pg. 77

No. Date Date Survey of HYDROGRAPHIC SURVEY

X-Sec. Notes Chkd. Checked Survey by Notes [illegible] Date 1-29-69

No. Date Date Map No. Indexed [illegible] Date

F. B. 2816 PG. 78

Job No. 2300.02 Division No. 11 Notes Red. ______ Plotted ______ Profile

Survey of HYDROGRAPHIC SURVEY Date 1-29-69 Date ______ No. ______

Survey by ______ Notes TULLIER Notes Chkd. ______ Checked ______ X-Sec.

Indexed ______ Date ______ Date ______ Date ______ No. ______

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

Do not extend notes this side of this line.

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

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

76L298 307 Cdb 12-62

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 IN INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LT. 315+40S | RT. |
|---|---|---|---|---|---|---|
| 315+10S | | | | 17.62 | SPK. (T.P.) | ℄ |
| 315+40S | | | | 17.75 | SPK. (T.P.) | ℄ |
| " | | | | 17.45 | | $9^{3}$ T.C. @ ED. SER. RD. |
| " | | | | 16.4 | | $20^{5}$ TOP BRK. |
| " | | | | 12.4 | | 51 BOT. BRK. |
| " | | | | 10.5 | | 79 TOP BRK. |
| " | | | | 9.36 | | $88^{6}$ 1x2 T.P. |
| | | | | 4.8 | | 125' Sand |
| | | | | 3.0 | | 155 Sand |
| | | H.I. | | 2.2 | T.P. | |
| | 2.2 | 4.4 | | | TRANSIT @ S-26 Sight on S-21: "Angles Right" | |
| | | | | | angle | |
| 1 | | | 4.8 | -0.4 | 36°05' | |
| 2 | | | 7.0 | -2.6 | 41°10' | |
| 3 | | | 10.5 | -6.1 | 46°04' | |
| 4 | | | 13.1 | -8.7 | 48°43' | |
| 5 | | | 16.9 | -12.5 | 52°45' | |

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300 Division No. 11
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY (REDONDO)
Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date 1-27-67
Date ____ Date ____ Map No. ____ Indexed [redacted] Date ____ Date ____

F. B. 2816 PG. 79

F.B. 2816 Pg. 80

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. _____

76-L-298 CE 307 2-63

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 Los Angeles County Engineering Bldg.

Do not extend notes this side of this line.

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

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

DATUM
MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

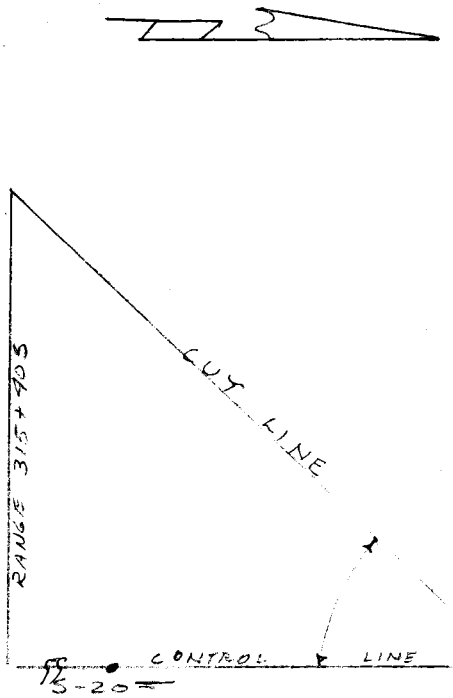
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.**

315 + 40 S.

| 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 | | | | | |
| S-19 | S-20 | 8:32 | 1 | 38 | 34 | | | |
| | | | 2 | 37 | 11 | | | |
| | | | 3 | 35 | 38 | | | 3154014 |
| | | | 4 | 34 | 22 | | | |
| | | | 5 | 33 | 02 | | | |
| | | | 6 | 31 | 44 | | | 3154016 |
| | | | 7 | 30 | 29 | | | |
| | | | 8 | 29 | 11 | | | |
| | | | 9 | 25 | 57 | | | 3154018 |
| | | | 10 | 23 | 95 | | | |
| | | | 11 | 22 | 20 | | | |
| | | 8:34 | 12 | 20 | 48 | | | 3154020 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3154022 |




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

No. ____ Date ____ Date ____ Survey of HYDRO [illegible]

X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes TULLER Date 1-29-69

No. ____ Date ____ Date ____ Map No. ____ Indexed [redacted] Date ____

F. B. 2516 PG. 81

F. B. 2816 PG. 82 | Job No. 03300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDROGRAPHIC SURVEY Date 1-29-69 Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

**Do not extend notes this side of this line.**

761298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 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. | LT. 316+00S | RT. |
|---|---|---|---|---|---|---|
| 315+40S | | | | 9.36 | | 88$^{\underline{6}}$ 1x2 T.P. |
| 316+00S | | | | 17.94 | SPK. & T (T.P.) | & |
| " | | | | 17.78 | | 8$^{\underline{5}}$ T.C. @ ED. SER. RD |
| " | | | | 17.6 | | 18$^{\underline{5}}$ TOP BRK |
| " | | | | 14.8 | | 34$^{\underline{6}}$ BOT. BRK |
| " | | | | 12.5 | | 66° SAND |
| " | | | | 11.3 | | 87$^{\underline{5}}$ TOP BRK |
| " | | | | 9.59 | | 97$^{\underline{5}}$ 1x2 T.P. |
| | | | | 4.5 | | 125' sand |
| | | H.I. | | 3.8 | T.P. | 150' sand |
| | 3.5 | 5.1' | | | TRANSIT @ 5-20 - SIGHT @ 5-21 - Angles Right | |
| | | | | | Angle | |
| 1 | | | 4.8 | 0.3 | 23°50' 763' | |
| 2 | | | 6.5 | -1.4 | 27°55' 221' | |
| 3 | | | 8.5 | -3.4 | 31°43' 260' | |
| 4 | | | 12.8 | -7.7 | 35°36' 303' | |
| 5 | | | 15.0 | -9.9 | 40°13' 361' | |
| 6 | | | 16.1 | -11.0 | 42°48' 397 | |

DATUM
MEAN LOWER LOW WATER

Profile Notes Red. ____ Plotted ____ Job No. 0300 Division No. 11
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY (REDONDO)
X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date 1-27-62
No. ____ Date ____ Date ____ Map No. ____ Indexed [redacted] Date ____ Date ____

F. B. 2314 Pg. 83

F. B. 2816 PG. 84

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. |
|---|---|---|---|---|
| | | | | |

DATUM
MEAN LOWER LOW WATER

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

PLEASE RETURN TO

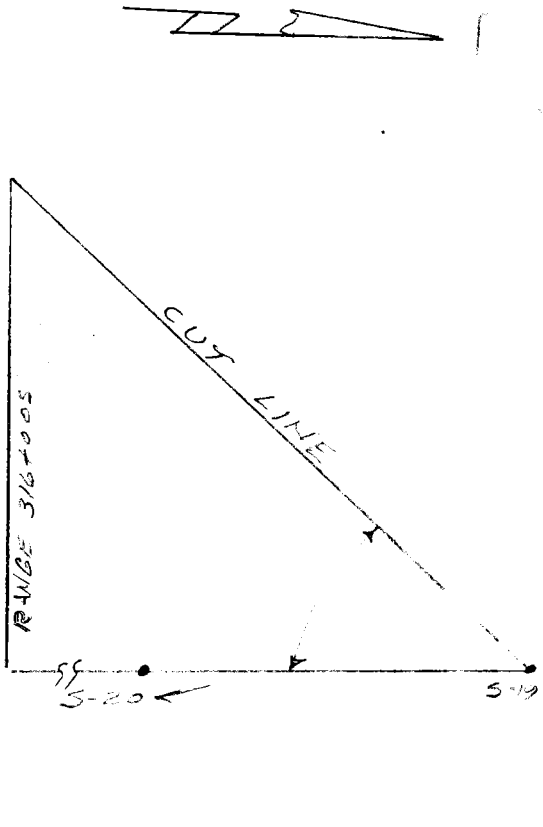
LOS ANGELES COUNTY SURVEYOR

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.** 316+00 S,

| 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 | | | | | |
| S-19 | S-20 | 3:41 | 1 | 37 | 18 | 7[illegible] | | |
| | | | 2 | 35 | 38 | [illegible] | | |
| | | | 3 | 31 | 31 | [illegible] | | 3160014 |
| | | | 4 | 58 | 15 | [illegible] | | |
| | | | 5 | 31 | 57 | [illegible] | | |
| | | | 6 | 30 | 59 | [illegible] | | 3160016 |
| | | | 7 | 28 | 30 | | | |
| | | | 8 | 28 | 58 | [illegible] | | |
| | | | 9 | 27 | 59 | [illegible] | | 3160018 |
| | | | 10 | 26 | 16 | [illegible] | | |
| | | | 11 | 25 | 26 | | | |
| | | | 12 | [illegible] | 19 | [illegible] | | 3160020 |
| | | | 13 | 23 | 05 | [illegible] | | |
| | | 3:43 | 14 | [illegible] | 31 | [illegible] | | |
| | | | | 00 | 00 | | | 3160022 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3160024 |
| | | | | | | | | |
| | | | | | | | | |




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

X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes TILLER Date 1-29-60 No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. ____ PG. 85

F. B. 2816 PG. 86 | Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDROGRAPHIC SURVEY Date 1-29-69 Date _____ No. _____

Survey by _____ Notes TILLIER 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 | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | |

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.

(9)

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LT. 317+00 S RT. |
|---|---|---|---|---|---|
| 316+00S | | | | 9 59 | 97.5 1x2 T.P. |
| 317+00S | | | | 18 41 | SPK. (T.P.) ℄ |
| " | | | | 18 11 | 7.5 T.C. @ ED. SER. |
| " | | | | 15 9 | 27.5 BOT. BRK. |
| " | | | | 13 9 | 41. " " |
| " | | | | 11 8 | 88.0 TOP. BRK. |
| " | | | | 10 01 | 98.5 1x2 T.P. |
| | | | | 5.0 | 130' sand |
| | | H.I. | | 2.6 | T.P. 150' " |
| | 2.7 | 5.3 | | | |
| | | | | | TRANSIT @ 315+40, SIGHT on S-21 "angle right" |
| | | | | | angle |
| 1 | | | 4.0 | +1.3 | 48°50' |
| 2 | | | 6.1 | -0.8 | 55°15' |
| 3 | | | 7.8 | -2.5 | 58°35' |
| 4 | | | 9.5 | -4.2 | 60°50' |
| 5 | | | 13.8 | -8.5 | 63°45' |
| 6 | | | 16.3 | -11.0 | 65°46' |

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 11
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY (REDONDO)
X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date 1-27-67
No. ____ Date ____ Date ____ Map No. ____ Indexed [redacted] GALLI Date ____

F.B. 2816 Pg. 87

F.B. 2816 PG. 88

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. |
|---|---|---|---|---|
| | | | | |

DATUM
MEAN LOWER LOW WATER

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

78-L-298 CE 307 2-63

76L298 307 Cdb 12-62

PLEASE RETURN TO

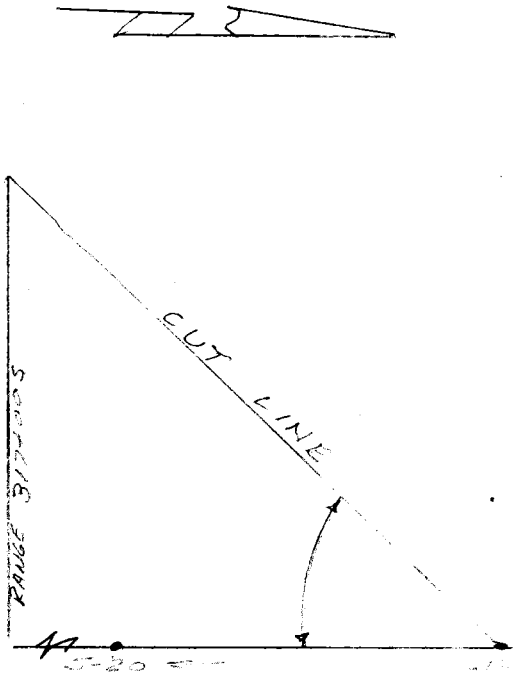
LOS ANGELES COUNTY SURVEYOR

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.** 317+00 S.

| 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-19 | S-20 | 8:52 | 1 | 34 | 11 | | | |
| | | | 2 | 33 | 02 | | | |
| | | | 3 | 32 | 14 | | | 3170014 |
| | | | 4 | 31 | 18 | | | |
| | | | 5 | 30 | 17 | | | |
| | | | 6 | 29 | 19 | | | 3170016 |
| | | | 7 | 28 | 08 | | | |
| | | | 8 | 26 | 56 | | | |
| | | | 9 | 25 | 44 | | | 3170018 |
| | | | 10 | 24 | 30 | | | |
| | | | 11 | 23 | 15 | | | |
| | | | 12 | 21 | 44 | | | 3170020 |
| | | | 13 | 20 | 05 | | | |
| | | 8:53 | [illegible] | [illegible] | 15 | | | |
| | | | | 00 | 00 | | | 3170022 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3170024 |
| | | | | | | | | |
| | | | | | | | | |




Profile Notes Red. Plotted Job No. Division No. F. B. 2816 Pg. 89

No. Date Date Survey of

X-Sec. Notes Chkd. Checked Survey by Notes TULLIE Date 1-29-69

No. Date Date Map No. Indexed [redacted] Date

F. B. 2816 PG. 90 | 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. ____

761.298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

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

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. | LT. 319+00S RT. |
|---|---|---|---|---|---|
| 317+00S | | | | 10 01 | 98.5 1X2 T.P. |
| B.M. S-21 | | | | 18 53 | B.M. S-21 EL.=18.500 F.B. 2100-31 & 158 |
| | | | | | L&T IN CONC. PAD DN. 3" IN MAC-PVMT. |
| | | | | | 1' WEST OF BASE CONC. WALL |
| 319+00S | | | | 19 10 | SPK. (T.P.) ℄ |
| " | | | | 19 02 | 11.2 T.C. @ SER. RD. |
| " | | | | 16 6 | 33' TOP BRK. |
| " | | | | 13 8 | 46' BOT. BRK |
| " | | | | 11 6 | 117' TOP BRK |
| " | | | | 10 51 | 125' 1X2 T.P. |
| | | | | 5.7 | 150' Sand |
| | | | | 2.4 | T.P. 190' Sand |
| | 3.0 | H.I. 5.4 | | | Transit @ 322+00-Sight @ S-21-"Angles Left" |
| | | | | | Angle |
| 1 | | | 4.8 | +0.6 | 43° 36' |
| 2 | | | 5.8 | −0.4 | 48° 25' |
| 3 | | | 11.3 | −5.9 | 52° 26' |
| 4 | | | 10.5 | −5.1 | 57° 57' |
| 5 | | | 12.8 | −7.4 | 60° 24' |
| 6 | | | 14.2 | −8.8 | 63° 07' |
| 7 | | | 16.2 | −10.8 | 64° 30' |

DATUM
MEAN LOWER LOW WATER

Profile No. ___ Notes Red ___ Date ___ Plotted ___ Date ___ Job No. 0300 Division No. 11 Survey of BEACH EROSION STUDY (REDONDO) Survey by ___ Notes ___ Date 1-29-69 Map No. ___ Indexed ___ Date ___

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

F.B. 2816 Pg. 91

F. B. 2816 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. | |
|---|---|---|---|---|---|
| | | | | | |

DATUM
MEAN LOWER LOW WATER

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

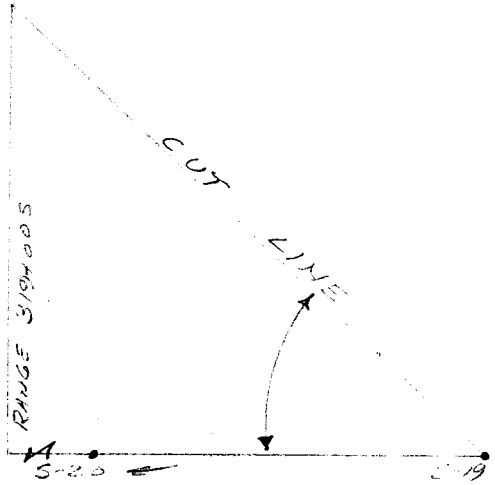
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.**

319 + 00 S.

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| S-19 | S-20 | 9:28 | 1 | 32 | 08 | | | |
| | | | 2 | 30 | 49 | | | |
| | | | 3 | 29 | 37 | | | 3190016 |
| | | | 4 | 28 | 26 | | | |
| | | | 5 | 27 | 18 | | | |
| | | | 6 | 26 | 20 | | | 3190018 |
| | | | 7 | 24 | 56 | | | |
| | | | 8 | 23 | 48 | | | |
| | | | 9 | 22 | 41 | | | 3190020 |
| | | | 10 | 21 | 29 | | | |
| | | | 11 | 20 | 37 | | | |
| | | 9:30 | 12 | 18 | 41 | | | 3190022 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3190024 |




Profile Notes Red.____ Plotted____ Job No.____ Division No.____ F. B. [illegible] Pg. 23
No.____ Date____ Date____ Survey of [illegible]
X-Sec. Notes Chkd.____ Checked____ Survey by____ Notes TOLLIER Date 1-29-69
No.____ Date____ Date____ Map No.____ Indexed [illegible] Date____

F. B. 2816 PG. 94 | 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. _____

761298 307 Gdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

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

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.

(11)

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LT. 320+50S RT. |
|---|---|---|---|---|---|
| 319+00S | | | | 10.51 | 125' 1"x2" T.P. |
| 320+50S | | | | 19.69 | SPK. (T.P.) ℄ |
| " | | | | 19.55 | 9° T.C. @ SER. RD. |
| " | | | | 17.9 | 24' TOP BRK. |
| " | | | | 14.7 | 36.5 BOT. BRK. |
| " | | | | 11.6 | 82' " " |
| " | | | | 11.0 | 117' TOP BRK. |
| " | | | | 11.01 | 120' 1"x2" (T.P.) |
| | | | | 6.2 | 150' Sand |
| | | H.I. | | 2.6 | T.P. 200' " |
| | 3.1 | 5.7 | | | TRANSIT @ 322+00 Sight @ 5-21 Angles Left. |
| | | | | | ANGLE |
| 1 | | | 4.8 | +0.9 | 69°37' |
| 2 | | | 7.1 | -1.4 | 74°55' |
| 3 | | | 9.3 | -3.6 | 77°43' |
| 4 | | | 11.8 | -6.1 | 79°47' |
| 5 | | | 13.9 | -8.2 | 82°00' |
| 6 | | | 16.5 | -10.8 | 83°30' |

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300 02 Division No. 11 F.B. 2816 Pg. 95
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY (REDONDO)
Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date 1-29-69
No. ____ Date ____ Date ____ Map No. ____ Indexed [redacted] Date ____

F.B. 2814 PG. 96 | 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. | |
|---|---|---|---|---|---|
| | | | | | |

DATUM
MEAN LOWER LOW WATER

76-L-298 CE 307 2-63

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

Do not extend notes this side of this line.

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

76L298 307 Cdb 12-62

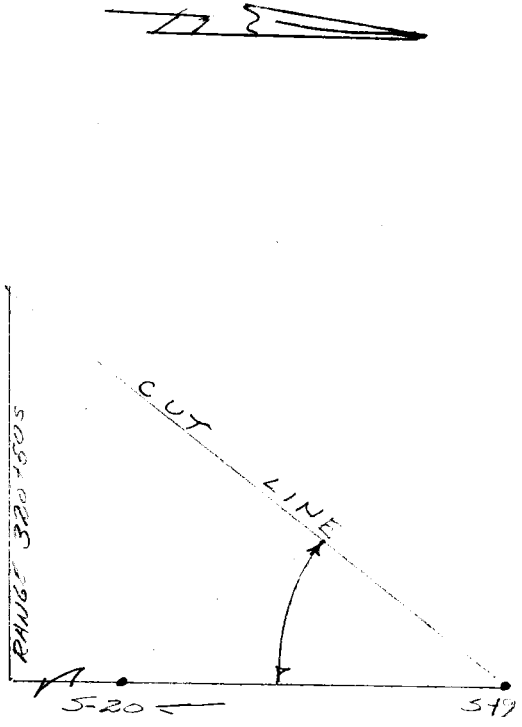
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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 | | | | | |
| 5-19 | 5-20 | 9:49 | 1 | 45 | 03 | | | |
| | | | 2 | 43 | 42 | | | |
| | | | 3 | 42 | 40 | | | 3205030 |
| | | | 4 | 41 | 49 | | | |
| | | | 5 | 40 | 49 | | | |
| | | | 6 | 39 | 57 | | | 3205032 |
| | | | 7 | 39 | 12 | | | |
| | | | 8 | 38 | 22 | | | |
| | | | 9 | 37 | 40 | | | 3205034 |
| | | | 10 | 36 | 42 | | | |
| | | | 11 | 35 | 43 | | | |
| | | | 12 | 34 | 50 | | | 3205036 |
| | | | 13 | 33 | 53 | | | |
| | | | 14 | 33 | 13 | | | |
| | | | 15 | 32 | 13 | | | 3205038 |
| | | | 16 | 30 | 49 | | | |
| | | | 17 | 29 | 55 | | | |
| | | | 18 | 29 | 01 | | | 3205040 |
| | | | 19 | 23 | 19 | | | |
| | | | 20 | 27 | 22 | | | |
| | | | | 26 | 40 | | | 3205042 |

320+50 S.




Profile Notes Red. Plotted Job No. Division No.
No. Date Date Survey of HYDROGRAPHIC SURVEY
X-Sec. Notes Chkd. Checked Survey by Note TULLIER Date 1-29-69
No. Date Date Map No. Indexed [redacted] Date

F. B. 284 Pg. 97

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| S-19 | S-20 | | 21 | ~~26~~ | ~~40~~ | | | |
| | | | 22 | 25 | 35 | | | |
| | | | 23 | 24 | 54 | | | |
| | | | 24 | 24 | 02 | | | 3205044 |
| | | | 25 | 23 | 06 | | | |
| | | | 26 | 22 | 17 | | | |
| | | | 27 | 21 | 13 | | | 3205046 |
| | | | 28 | 20 | 19 | | | |
| | | | 29 | 19 | 45 | | | |
| | | | 30 | 18 | 60 | | | 3205048 |
| | | 9:53 | 31 | 18 | 10 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3205050 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3205052 |

F. B. 2816 PG. 98 Job No. 0300.03 Division No. 11 Notes Red. Plotted Profile

Survey of HYDROGRAPHIC SURVEY Date 1-29-69 Date No.

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

Indexed [redacted] Date Date No.

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.

(12)

1187

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LT. 322+00S RT. |
|---|---|---|---|---|---|
| 320+50S | | | | 11 01 | 120' 1"x2" T.P. |
| 322+00S | | | | 20 38 | SPK. (T.P.) ℄ |
| " | | | | 20 17 | 98 T.C. @ SER. RD. |
| " | | | | 18 8 | 175 TOP BRK |
| " | | | | 14 7 | 305 BOT. BRK. |
| " | | | | 11 4 | 118' TOP BRK. |
| " | | | | 9 9 | 124' BOT BRK |
| " | | | | 7 98 | 139' 1"x2" (T.P.) |
| | | | | 3.9 | 180 Sand |
| | | H.I. | | 2.1 | T.P. 195 " |
| | 3.6 | 5.7 | | | TRANSIT @ 320+50 SIGHT @ S-22 - "Angles Right." |
| | | | | | angle |
| 1 | | | 4.5 | +1.2 | 52°58' |
| 2 | | | 6.4 | -0.7 | 55°20' |
| 3 | | | 8.3 | -2.6 | 57°15' |
| 4 | | | 11.5 | -5.8 | 59°35' |
| 5 | | | 13.8 | -8.1 | 61°23' |
| 6 | | | 16.4 | -10.7 | 62°37' |

DATUM
MEAN LOWER LOW WATER

Profile No. ___ Notes Red ___ Plotted ___ Job No. 0300.02 Division No. 11 F.B. 2816 Pg. 99
X-Sec. No. ___ Date ___ Date ___ Survey of BEACH EROSION STUDY (REDONDO)
Notes Chkd. ___ Checked ___ Survey by ___ Date 1-29-69
Date ___ Date ___ Map No. ___ Indexed ___ Date ___

F.B. 2816 PG. 100 | 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. | |
|---|---|---|---|---|---|
| | | | | | |

DATUM
MEAN LOWER LOW WATER

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 2-63

76L298 307 Cdb 12-62

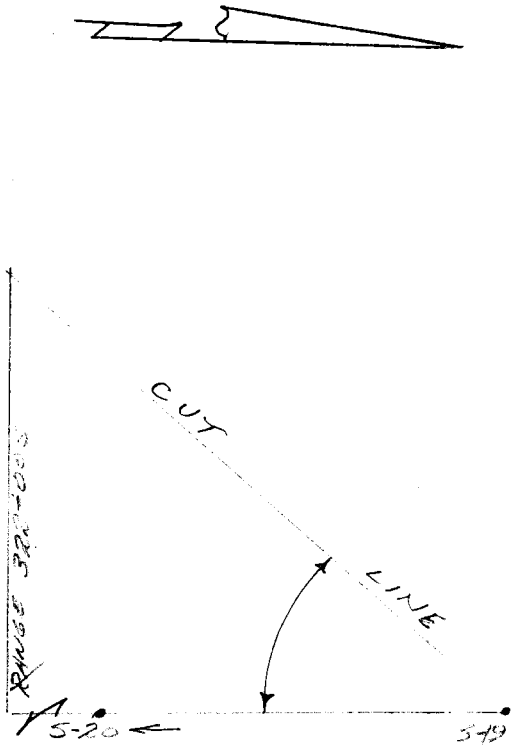
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.**

322+00 S.

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | FOR OFFICE USE ONLY RANGE LINE MIN. | CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| S-19 | S-20 | 10:06 | 1 | 50 | 48 | | | |
| | | | 2 | 50 | 08 | | | |
| | | | 3 | 49 | 14 | | | 3220014 |
| | | | 4 | 48 | 19 | | | |
| | | | 5 | 47 | 25 | | | |
| | | | 6 | 46 | 35 | | | 3220016 |
| | | | 7 | 45 | 42 | | | |
| | | | 8 | 44 | 37 | | | |
| | | | 9 | 43 | 47 | | | 3220018 |
| | | | 10 | 42 | 56 | | | |
| | | | 11 | 41 | 53 | | | |
| | | | 12 | 40 | 52 | | | 3220020 |
| | | | 13 | 39 | 44 | | | |
| | | | 14 | 38 | 45 | | | |
| | | | 15 | 37 | 35 | | | 3220022 |
| | | | 16 | 36 | 38 | | | |
| | | | 17 | 35 | 34 | | | |
| | | | 18 | 34 | 11 | | | 3220024 |
| | | | 19 | 33 | 23 | | | |
| | | | 20 | 32 | 04 | | | |
| | | | | 31 | 04 | | | 3220026 |




Profile Notes Red. ____ Plotted ____ Job No. [illegible] Division No. ____ F. B. [illegible] Pg 101
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes TULLIER Date 1-29-69
No. ____ Date ____ Date ____ Map No. ____ Indexed [illegible] Date ____

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| S-19 | S-20 | | 21 | ~~31~~ | ~~04~~ | | | |
| | | | 22 | 30 | 1[illegible] | | | |
| | | | 23 | 29 | 04 | | | |
| | | | 24 | 27 | 52 | | | 3220028 |
| | | | 25 | 26 | 01 | | | |
| | | | 26 | 25 | 59 | | | |
| | | | 27 | 25 | 17 | | | 3220030 |
| | | | 28 | 24 | 12 | | | |
| | | | 29 | 23 | 12 | | | |
| | | | 30 | 22 | 22 | | | 3220032 |
| | | | 31 | 21 | 14 | | | |
| | | | 32 | 20 | 05 | | | |
| | | | 33 | 19 | 05 | | | 3220034 |
| | | | 34 | 18 | 06 | | | |
| | | 10:11 | 35 | 16 | 57 | | | |
| | | | | 00 | 00 | | | 3220036 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3220038 |

F. B. 2816 PG 102

Job No. 0300.03 Division No. 11 Notes Red. Plotted Profile

Survey of HYDROGRAPHIC SURVEY Date 1-29-69 Date No.

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

Indexed GALLI Date Date Date No.

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.

(13)

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LT. 323+00S RT. |
|---|---|---|---|---|---|
| 322+00S | | | | 7 98 | 139'- 1"x2" T.P. |
| 323+00S | | | | 20 73 | SPK. (T.P.) & |
| " | | | | 20 52 | 5° T.C. @ SER. RD. |
| " | | | | 20 0 | 8° TOP BRK. |
| " | | | | 12 9 | 31.5 BOT. BRK. |
| " | | | | 11 90 | T.P. 1"x2" |
| " | | | | 11 4 | 113' TOP BRK |
| " | | | | 7 26 | 152.5 1"x2" (T.P.) |
| " | | | | 4 6 | T.P. 171.5 M.H.W. |
| " | | | | 11 90 | T.P. 1"x2" |
| BM. 21-49 | | | | 20 10 | B.M. 21-49 TORRANCE F-9A EL.= 20.125 FB. 2100-157 |
| | 1.7 | H.I. 6.3 | | | ESPLANADE & SAPPHIRE ST. (REDONDO) ON A RD. 136.8' |
| TRANSIT @ 320+50 | | SIGHT @ 5-22 | | | SLY. FROM THE S.E. COR OF LIFE GUARD STA. 3.2' E |
| "Angles Turned Right" | | | | | OF THE W. CURB OF RD. IN A WELL W/C.I. COVER |
| | Angle | | | | MKD. C.S. MON. (4.5'± N. OF STA. 324+00) |
| 1 | 40° 57' | 4.9 | | +1.4 | |
| 2 | 45° 42' | 6.7 | | -0.4 | |
| 3 | 49° 30' | 9.2 | | -2.9 | |
| 4 | 52° 00' | 12.0 | | -5.7 | |
| 5 | 53° 50' | 14.3 | | -8.0 | |
| 6 | 55° 30' | 16.6 | | -10.3 | |

DATUM
MEAN LOWER LOW WATER

Profile No. ___ Notes Red. ___ Date ___ Plotted ___ Date ___ Job No. 0300.02 Division No. 11 Survey of BEACH EROSION STUDY (REDONDO) Survey by ___ Notes ___ Date 1-29-69 Map No. ___ Indexed [illegible] Date ___

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

F.B. 2816 Pg. 103

F.B. 2816 Pg. 104 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. |
|---|---|---|---|---|
| | | | | |

DATUM
MEAN LOWER LOW WATER

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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

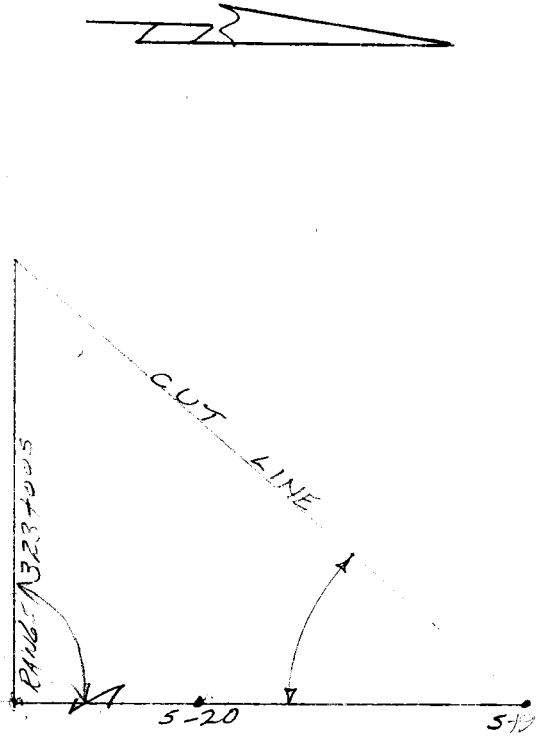
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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 | | | | | |
| 5-19 | 5-20 | 10:30 | 1 | 45 | 45 | | | |
| | | | 2 | 44 | 15 | | | |
| | | | 3 | 43 | 30 | | | 3230016 |
| | | | 4 | 43 | 00 | | | |
| | | | 5 | 42 | 18 | | | |
| | | | 6 | 41 | 36 | | | 3230018 |
| | | | 7 | 40 | 40 | | | |
| | | | 8 | 39 | 42 | | | |
| | | | 9 | 38 | 50 | | | 3230020 |
| | | | 10 | 37 | 47 | | | |
| | | | 11 | 36 | 35 | | | |
| | | | 12 | 35 | 30 | | | 3230022 |
| | | | 13 | 34 | 14 | | | |
| | | | 14 | 32 | 45 | | | |
| | | | 15 | 31 | 20 | | | 3230024 |
| | | | 16 | 30 | 58 | | | |
| | | | 17 | 28 | 60 | | | |
| | | | 18 | 27 | 53 | | | 3230026 |
| | | | 19 | 26 | 44 | | | |
| | | | 20 | 25 | 22 | | | |
| | | | | 24 | 18 | | | 3230028 |

323 + 00 S.




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

No. ____ Date ____ Date ____ Survey of ____ Date ____

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

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2816 PG. 105

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| S-19 | S-20 | | 21 | ~~24~~ | ~~18~~ | | | ~~3230028~~ |
| | | | 22 | 23 | 11 | | | |
| | | | 23 | 22 | 15 | | | [illegible] |
| | | | 24 | 21 | 22 | | | 3230030 |
| | | | 25 | 20 | 26 | | | |
| | | | 26 | 19 | 29 | | | [illegible] |
| | | | 27 | 18 | 20 | | | 3230032 |
| | | 10:39 | 28 | 17 | 24 | | | [illegible] |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3230034 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3230036 |

F. B. 2816 PG 406

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

Survey of HYDROGRAPHIC SURVEY Date 1-29-69 Date No.

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

Indexed [illegible] Date Date No.

76-L-298 CE 307 2-63

328+16

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.**

X 328+16 Si. on S-22
X Left

(14)

| STATION | B. S. | H. I. | F. S. | ELEV. | LT. 324+00S RT. | |
|---|---|---|---|---|---|---|
| B.M. 21-49 | | | | 20 12 | B.M. 21-49 SEE LAST PG. | |
| 324+00S | | | | 21 11 | SPK. (T.P.) ℄ | |
| " | | | | 20 99 | | 3.4' T.C @ SER. RD. |
| " | | | | 14 50 | | 37.5 BOT. BRK. (1x2 T.P.) |
| " | | | | 10 2 | | 125' TOP BRK |
| " | | | | 4 60 | | 185' 1"x2" M.H.W. (BOT. BRK) |
| " | | | | 5.8 | T.P. | 175' Sand |
| " | | H.I. | | 14.5 | | 37.5 1x2 T.P. |
| | 1.5 | 6.1 | | | | |
| | | | | | TRANSIT @ 328+16 Sight @ S-22 angle Left | |
| | | | | | angle | |
| 1 | | | 4.9 | +1.1 | 28°15' 223 | |
| 2 | | | 5.5 | +0.6 | 31°48' | |
| 3 | | | 8.3 | -2.2 | 36°33' | |
| 4 | | | 10.0 | -3.9 | 39°35' | |
| 5 | | | 12.1 | -6.0 | 42°50' | |
| 6 | | | 15.0 | -6.9 | 46°15' | |
| 7 | | | 17.1 | -11.0 | 48°15' 466 | |

DATUM
MEAN LOWER LOW WATER

Profile No. ___ Notes Red ___ Plotted ___ Job No. 0300 02 Division No. 11 F.B. 2816 PG. 207
X-Sec. No. ___ Date ___ Date ___ Survey of BEACH EROSION STUDY (REDONDO)
Notes Chkd. ___ Checked ___ Survey by ___ Notes ___ Date 1-29-69
Date ___ Date ___ Map No. ___ Indexed [redacted] GALLI Date ___

F. B. 2816 Pg. 108 | 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. |
|---|---|---|---|---|
| | | | | |

DATUM
MEAN LOWER LOW WATER

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

PLEASE RETURN TO

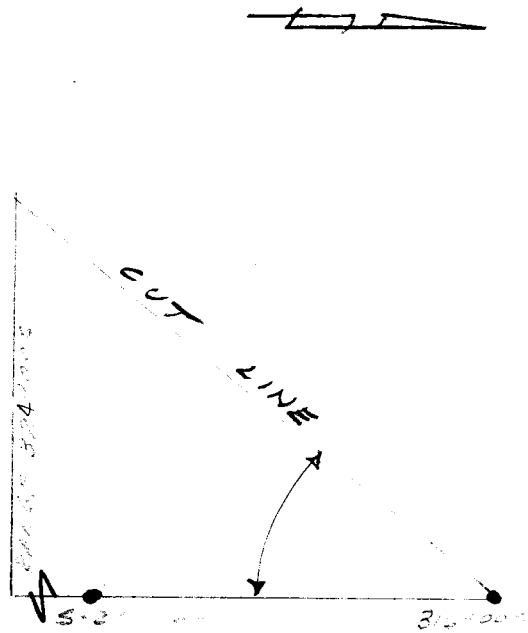
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE DEG. | RANGE MIN. | CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| [illegible] | [illegible] | 10:58 | 1 | 61 | 54 | | | |
| | | | 2 | 61 | 28 | | | |
| | | | 3 | 60 | 54 | | | 3240016 |
| | | | 4 | 60 | 18 | | | |
| | | | 5 | 59 | 44 | | | |
| | | | 6 | 58 | 59 | | | 3240018 |
| | | | 7 | 58 | 06 | | | |
| | | | 8 | 57 | 00 | | | |
| | | | 9 | 55 | 46 | | | 3240020 |
| | | | 10 | 54 | 36 | | | |
| | | | 11 | 53 | 10 | | | |
| | | | 12 | 52 | 11 | | | 3240022 |
| | | | 13 | 50 | 50 | | | |
| | | | 14 | 49 | 30 | | | |
| | | | 15 | 48 | 24 | | | 3240024 |
| | | | 16 | 46 | 58 | | | |
| | | | 17 | 45 | 38 | | | |
| | | | 18 | 42 | 53 | | | 3240026 |
| | | | 19 | 41 | 35 | | | |
| | | | 20 | 39 | 54 | | | |
| | | | | 38 | 10 | | | 3240028 |




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

No.____ Date____ Date____ Survey of____

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

No.____ Date____ Date____ Map No.____ Indexed____ Date____

F.B. 2316 PG. 109

F. B. 2816 PG. 110 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDROGRAPHIC SURVEY Date 1-29-69 Date _____ No. _____

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

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

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT DON'T PUNCH | SIGHT ON DON'T PUNCH | TIME DON'T PUNCH | ANGLE Nº DON'T PUNCH | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | FOR OFFICE USE ONLY RANGE LINE MIN. | FOR OFFICE USE ONLY CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| 316+00S | 5-21 | | 21 | ~~38~~ | ~~10~~ | | | ~~3240038~~ |
| | | | 22 | 36 | 38 | | | |
| | | | 23 | 34 | 49 | | | |
| | | | 24 | 33 | 15 | | | 3240030 |
| | | | 25 | 31 | 58 | | | |
| | | 11:02 | 26 | 29 | 15 | | | |
| | | | | 00 | 00 | | | 3240032 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3240034 |

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.

(15)

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LT. 325+50S RT. | |
|---|---|---|---|---|---|---|
| 324+00S | | | | 21 11 | SPK. (T.P.) | ℄ |
| 325+50S | | | | 21 62 | SPK. & T (T.P.) | ℄ |
| " | | | | 21 53 | | 5⁵ T.C. @ SER. RD. |
| " | | | | 15 5 | | 42' BOT. BRK. |
| " | | | | 14 35 | | T.P. 1"x2" |
| " | | | | 9 7 | | 128 BOT. BRK. |
| " | | | | 11 3 | | 160' TOP BRK |
| " | | | | 4 60 | | 210' 1x2 M.H.W. T.P. (Bot. Brk.) |
| " | | | | 14 35 | T.P. 1x2. | |
| | | H.I. | | 5.51 | T.P. " | 204' Sand |
| | 1.5 | 7.0 | | | Transit @ 328+16, Sight @ S-22 - Angles Left. | |
| | | | | | angle | |
| 1 | | | 4.9 | +2.1 | 47°30' 290' | |
| 2 | | | 6.4 | +0.6 | 49°28' 311' | |
| 3 | | | 8.6 | −1.6 | 53°15' 356' | |
| 4 | | | 10.7 | −3.7 | 55°54' 393' | |
| 5 | | | 14.1 | −7.1 | 59°17' 448' | |
| 6 | | | 16.5 | −9.5 | 61°23' 488' | |

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. D300 02 Division No. 11 F.B. 2816 Pg. 111
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY (REDONDO)
Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date 1-29-62
Date ____ Date ____ Map No. ____ Indexed [illegible] Date ____

F.B. 2816 PG. 112 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. |
|---|---|---|---|---|
| | | | | |

DATUM
MEAN LOWER LOW WATEI

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

PLEASE RETURN TO

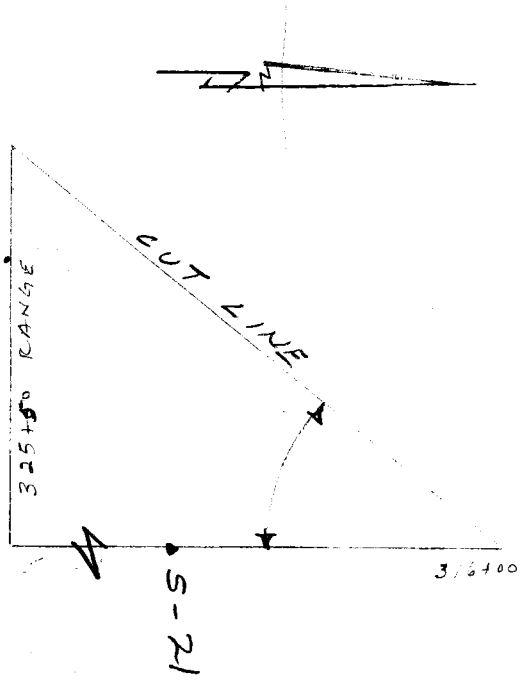
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | FOR OFFICE USE ONLY RANGE LINE MIN. | CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 316+00 | S-21 | 11:13 | 1 | 67 | 06 | | | |
| | | | 2 | 66 | 08 | | | |
| | | | 3 | 65 | 30 | | | 3255016 |
| | | | 4 | 65 | 00 | | | |
| | | | 5 | 64 | 18 | | | |
| | | | 6 | 63 | 20 | | | 3255018 |
| | | | 7 | 62 | 37 | | | |
| | | | 8 | 6[illegible] | 47 | | | |
| | | | 9 | 60 | 48 | | | 3255020 |
| | | | 10 | 59 | 49 | | | |
| | | | 11 | 58 | 11 | | | |
| | | | 12 | 56 | 11 | | | 3255022 |
| | | | 13 | 54 | 09 | | | |
| | | | 14 | 52 | 25 | | | |
| | | | 15 | 50 | 31 | | | 3255024 |
| | | | 16 | 47 | 47 | | | |
| | | | 17 | 45 | 20 | | | |
| | | | 18 | 41 | 38 | | | 3255026 |
| | | | 19 | 38 | 17 | | | |
| | | | 20 | 35 | 42 | | | |
| | | | | 33 | 27 | | | 3255028 |




Profile Notes Red. ____ Plotted ____ Job No. 03000 Division No. 11 F. B. 2816 PG. 1/3

No. ____ Date ____ Date ____ Survey of HYDROGRAPHIC SURVEY

X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes TULLIER Date 1-29-69

No. ____ Date ____ Date ____ Map No. ____ Indexed [redacted] GALLI Date ____

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

F. B. 2814 Pg. 114 Job No. 8300.02 Division No. 11 Notes Red. Plotted

Profile No. Date

X-Sec. No. Date

Survey of HYDRO - SURVEY Notes Chkd. Checked

Survey by [redacted] Assoc. Notes WILKS Date

Indexed [redacted] Date

| 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 | | | | | |
| | | | 21 | ~~33~~ | ~~20~~ | | | ~~3255028~~ |
| | | | 22 | 30 | 21 | | | |
| | | | 23 | 28 | 48 | | | |
| | | 11-18 | 24 | 27 | 20 | | | 3255030 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3255032 |

76-L-298 CE 307 5-66

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. | LT. 327+00 S RT. |
|---|---|---|---|---|---|
| 325+50 S | | | | 14 35 | T.P. 1x2 |
| 327+00 S | | | | 22 26 | SPK. (T.P.) ℄ |
| " | | | | 22 21 | 8° T.C. @ SER. RD. |
| " | | | | 15 5 | 44' BOT BRK. |
| " | | | | 10 4 | 147' BOT. " |
| " | | | | 11 6 | 181' TOP " |
| " | | H.I. | | 4 60 | T.P. 227' 1"x2" M.H.W. (BOT. BRK.) |
| — | 2.0 | 6.6 | | 14 35 | T.P. 1x2 |
| | | | | | Transit @ 328+16 - Sight @ 5-22 - Angle [illegible] |
| | | | | | angle |
| 1 | | | 4.3 | -2.3 | 68°52' |
| 2 | | | 6.2 | +0.4 | 71°18' |
| 3 | | | 8.1 | -1.5 | 73°03' |
| 4 | | | 10.2 | -3.6 | 74°50' |
| 5 | | | 13.6 | -7.0 | 76°35' |
| 6 | | | 16.6 | -10.0 | 78°08' |

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300 Division No. 11 F.B. 2216 Pg. 115
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY (REDONDO)
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 1-29
No. ____ Date ____ Date ____ Map No. ____ Indexed [illegible] Date ____

F. B. 2816 PG. 116 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

DATUM
MEAN LOWER LOW WATER

76-L-298 CE 307 5-66

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

**Do not extend notes this side of this line.**

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

76L298 307 Cdb 12-62

PLEASE RETURN TO

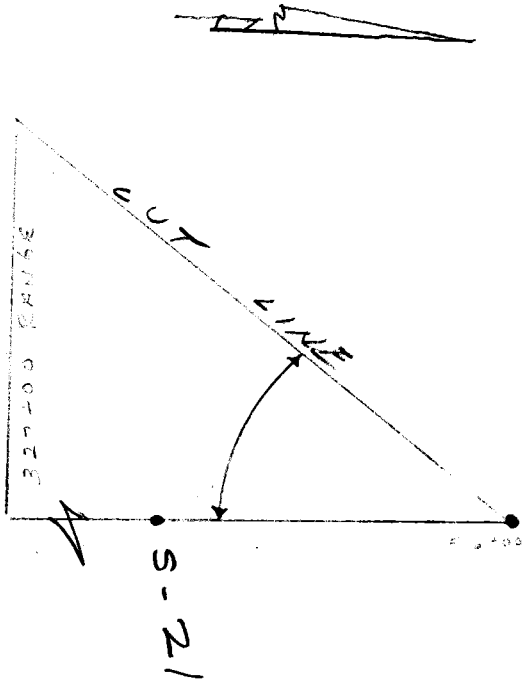
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | FOR OFFICE USE ONLY RANGE LINE MIN. | CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 316+00 | S-21 | 1:31 | 1 | 6[illegible] | 27 | | | |
| | | | 2 | 63 | 50 | | | |
| | | | 3 | 62 | 60 | | | 3270016 |
| | | | 4 | 62 | 10 | | | |
| | | | 5 | 61 | 30 | | | |
| | | | 6 | 60 | 31 | | | 3270018 |
| | | | 7 | 59 | 52 | | | |
| | | | 8 | 58 | 49 | | | |
| | | | 9 | 57 | 43 | | | 3270020 |
| | | | 10 | 55 | 29 | | | |
| | | | 11 | 54 | 12 | | | |
| | | | 12 | 52 | 47 | | | 3270022 |
| | | | 13 | 50 | 54 | | | |
| | | | 14 | 49 | 28 | | | |
| | | | 15 | 46 | 43 | | | 3270024 |
| | | | 16 | 44 | 36 | | | |
| | | | 17 | 42 | 08 | | | |
| | | | 18 | 39 | 17 | | | 3270026 |
| | | | 19 | 37 | 09 | | | |
| | | | 20 | 36 | 01 | | | |
| | | | | 33 | 57 | | | 3270028 |




Profile Notes Red. ____ Plotted ____ Job No. 3000 Division No. 11 F. B. 2816 Pg. 117

No. ____ Date ____ Date ____ Survey of HYDROGRAPHIC SURVEY

X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes TULLIER Date 1-29-69

No. ____ Date ____ Date ____ Map No. ____ Indexed B.J. GALLI Date ____

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. 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 | | | | | |
| | | | 21 | ~~33~~ | ~~57~~ | | | ~~3270028~~ |
| | | | 22 | 31 | 38 | | | |
| | | | 23 | 30 | 11 | | | |
| | | | 24 | 28 | 16 | | | 3270030 |
| | | | 25 | 26 | 06 | | | |
| | | 11:36 | 26 | 24 | 43 | | | |
| | | | | 00 | 00 | | | 3270032 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3270034 |

F. B. 2816 Pg. 118 Job No. 0200.02 Division No. 11 Notes Red. Plotted. Profile

Survey of HYDRO - SURVEY Date Date X-Sec.

Survey by W.R. & ASSOC. Notes Notes Chkd. Checked. No.

Indexed [redacted] Date Date Date No.

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.

(17)

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LT. 328+16S | RT. |
|---|---|---|---|---|---|---|
| 327+00S | | | | 14 35 | T.P. 1x2 | |
| 328+16S | | | | 21 68 | SPK. T.P. | ℄ |
| " | | | | 21.66 | | 9° T.C. @ SER. RD. |
| " | | | | 21 3 | | 17' TOP BRK |
| " | | | | 14 0 | | 53' BOT. BRK. |
| " | | | | 13 95 | 1"x2" T.P. | |
| " | | | | 10 9 | | 155' BOT. BRK. |
| " | | | | 11 3 | | 187' TOP BRK. |
| " | | | | 4 60 | | 235' 1"x2" M.H.W. (BOT. BRK) |
| " | | | | 13 95 | 1x2 T.P. | |
| " | | H.I. | | 21 68 | SPK. T.P. | ℄ |
| | 1.6 | 6.2 | | | Transit @ S-23. Sight @ S-22 "Angles Left" | |
| | | | | | angle | |
| 1 | | | 4.2 | +2.0 | 28°53' | |
| 2 | | | 5.5 | +0.7 | 31°40' | |
| 3 | | | 7.3 | −1.1 | 34°00' | |
| 4 | | | 9.6 | −3.4 | 36°52' | |
| 5 | | | 12.2 | −6.0 | 39°23' | |
| 6 | | | 15 0 | −8.8 | 42°09' | |
| 7 | | | 16 8 | −10.6 | 44°05 | |

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300 02 Division No. 11 F.B. 2816 Pg. 119
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY (REDONDO)
X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date 1-29-69
No. ____ Date ____ Date ____ Map No. ____ Indexed [redacted] Date ____

F.B. 2816 PG. 120 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. |
|---|---|---|---|---|
| | | | | |

DATUM
MEAN LOWER LOW WATER

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

PLEASE RETURN TO

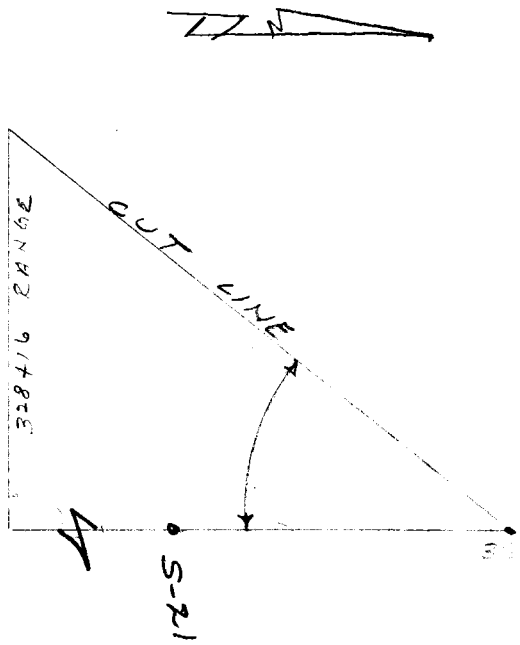
LOS ANGELES COUNTY SURVEYOR

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 | | | | | |
| 316+00 | S-21 | 1141 | | 63 | 49 | | | |
| | | | 2 | 63 | 09 | | | |
| | | | 3 | 62 | 24 | | | 3281616 |
| | | | 4 | 61 | 28 | | | |
| | | | 5 | 60 | 41 | | | |
| | | | 6 | 59 | 58 | | | 3281618 |
| | | | 7 | 58 | 49 | | | |
| | | | 8 | 57 | 38 | | | |
| | | | 9 | 56 | 05 | | | 3281620 |
| | | | 10 | 54 | 45 | | | |
| | | | 11 | 53 | 13 | | | |
| | | | 12 | 50 | 59 | | | 3281622 |
| | | | 13 | 49 | 08 | | | |
| | | | 14 | 47 | 21 | | | |
| | | | 15 | 45 | 35 | | | 3281624 |
| | | | 16 | 43 | 23 | | | |
| | | | 17 | 41 | 14 | | | |
| | | | 18 | 39 | 19 | | | 3281626 |
| | | | 19 | 37 | 04 | | | |
| | | | 20 | 35 | 08 | | | |
| | | | | 33 | 35 | | | 3281628 |




Profile Notes Red.____ Plotted____ Job No. 23[illegible] Division No. 11 F. B. 2816 Pg. 21

No.____ Date____ Date____ Survey of HYDROGRAPHIC SURVEY

X-Sec. Notes Chkd.____ Checked____ Survey by TOLLIER Date 1-29-69

No.____ Date____ Date____ Map No.____ Indexed [redacted] Date____

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| | | | 21 | ~~33~~ | ~~35~~ | | | ~~3281628~~ |
| | | | 22 | 31 | 45 | | | |
| | | | 23 | 30 | 18 | | | |
| | | | 24 | 28 | 02 | | | 3281630 |
| | | | 25 | 26 | 02 | | | |
| | | | 26 | 24 | 18 | | | |
| | | | 27 | 24 | 15 | | | 3281632 |
| | | 11:51 | 28 | 23 | 30 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3281634 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3281636 |

F. B. 2816 PG. 122 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

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

Survey by ~~W.P.~~ & ASSOC. Notes WILKS Notes Chkd. Checked

Indexed R.R. GALLI Date Date Date No.

| | | |
|---|---|---|
| Notes Ck'd by | Survey of HYDROGRAPHIC SURVEY | F. B. 2816 Pg. 123 |
| Map No. | JN 0300.03 Tape Std °F | |
| Office Work | Surveyed by M.A. R[illegible] | |
| Checked | Notes [illegible] Date 1-29-69 | |
| Date | Indexed [redacted] GALLI | |

TIDE GAGE READINGS
JAN. 29, 1969

| TIME (P.S.T.) | TIDE (M.L.L.W.) |
|---|---|
| 6:00 | 5.2 |
| 6:30 | 5.2 |
| 7:00 | 5.3 |
| 7:30 | 5.0 |
| 8:00 | 4.8 |
| 8:30 | 4.3 |
| 9:00 | 3.9 |
| 9:30 | 3.3 |
| 10:00 | 2.7 |
| 10:30 | 2.2 |
| 11:00 | 1.5 |
| 11:30 | 0.9 |
| 12:00 | 0.4 |
| 12:30 | 0.1 |
| 1:00 | -0.2 |
| 1:30 | -0.4 |
| 2:00 | -0.5 |

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

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

Do not extend this side of this line.

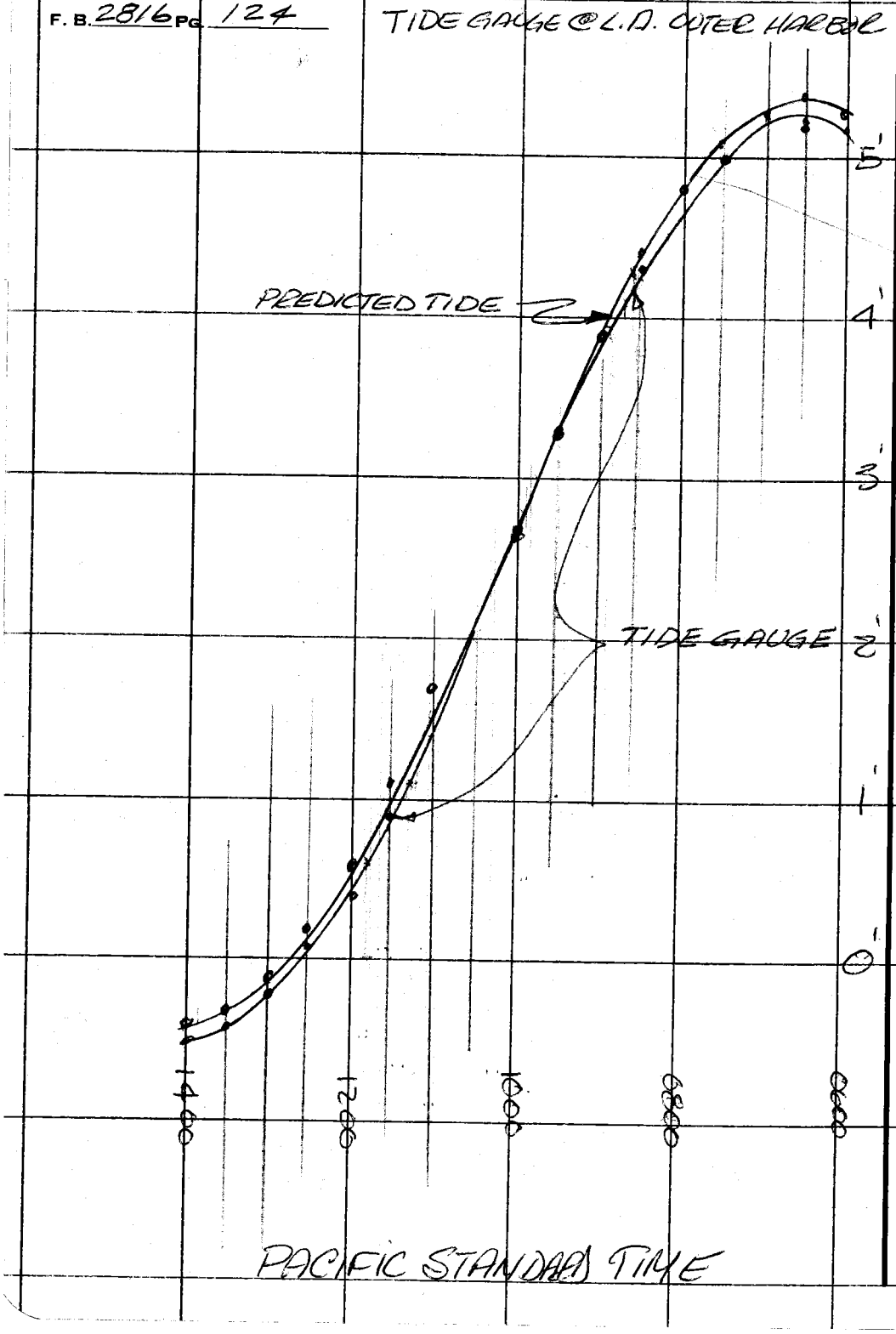
PLEASE RETURN TO
COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-68

TIDES Jan 29, 1969

F. B. 2816 PG. 124

TIDE GAUGE @ L.A. OUTER HARBOR




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

Do not extend this side of this line.

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

76-L-298 CE 307 5-66

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. | LT. 330+00S | RT. |
|---|---|---|---|---|---|---|
| 328+16 S | | | | 21 68 | SPK. T.P. | ℄ |
| 330+00 S | | | | 20 70 | SPK. (T.P.) | ℄ |
| " | | | | 20 69 | | 8° T.C. @ ED. SER. RD. |
| " | | | | 15 4 | | 43.5 BOT. BRK |
| " | | | | 13 71 | | 128' 1x1 T.P. |
| " | | | | 11 9 | | 200' TOP. BRK |
| " | | | | 9 64 | | 210' 1"x2" T.P. |
| " | | | | 13 71 | | 128' 1"x1" T.P. |
| " | | | | 20 70 | SPK. (T.P.) | ℄ |
| | | | | 4.6 | T.P. | [illegible] Sand |
| | | [illegible] | | | [illegible] @ 5-23 [illegible] @ 7-22" [illegible] | |
| | 3.7 | 5.3 | | | [illegible] | |
| 1 | | | 3.3 | +2.0 | 41°43' | |
| 2 | | | 4.8 | +0.5 | 43°49' | |
| 3 | | | 6.4 | -1.1 | 46°03' | |
| 4 | | | 8.9 | -3.5 | 49°20' | |
| 5 | | | 12.8 | -7.5 | 52°47' | |
| 6 | | | 15.0 | -9.7 | 55°22' | |
| 7 | | | 17.3 | -12.0 | 57°06' | |

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300 Division No. 1
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY (REVONICO)
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 1-30-69
No. ____ Date ____ Date ____ Map No. ____ Indexed [illegible] Date ____

F. B. 2816 PG. 125

F. B. 2816 Pg. 126 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76-L-298 CE 307 5-66

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. | |
|---|---|---|---|---|---|
| | | | | | |

DATUM
MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

PLEASE RETURN TO

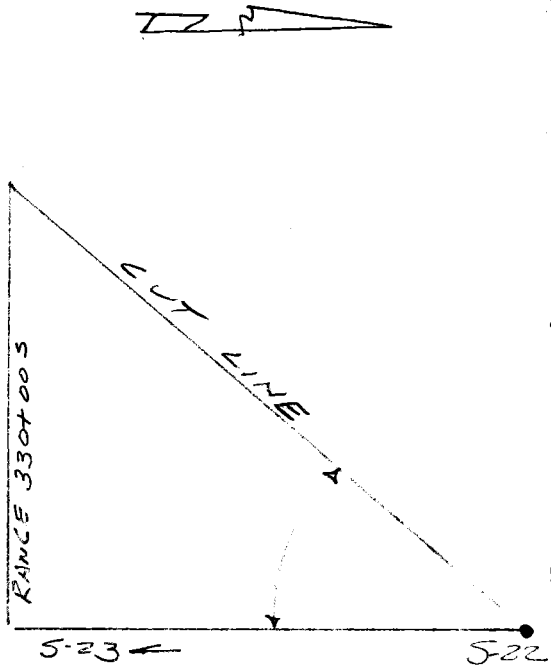
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | FOR OFFICE USE ONLY RANGE LINE MIN. | CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| S-22 | S-23 | 8:01 | 1 | 75 | 48 | | | |
| | | | 2 | 74 | 32 | | | |
| | | | 3 | 73 | 18 | | | 3300012 |
| | | | 4 | 72 | 10 | | | |
| | | | 5 | 70 | 19 | | | |
| | | | 6 | 68 | 25 | | | 3300014 |
| | | | 7 | 66 | 10 | | | |
| | | | 8 | 63 | 35 | | | |
| | | | 9 | 61 | 43 | | | 3300016 |
| | | | 10 | 58 | 20 | | | |
| | | | 11 | 56 | 15 | | | |
| | | | 12 | 54 | 34 | | | 3300018 |
| | | | 13 | 53 | 12 | | | |
| | | | 14 | 50 | 06 | | | |
| | | | 15 | 48 | 03 | | | 3300020 |
| | | | 16 | 45 | 34 | | | |
| | | | 17 | 43 | 12 | | | |
| | | | 18 | 40 | 25 | | | 3300022 |
| | | | 19 | 38 | 09 | | | |
| | | | 20 | 35 | 12 | | | |
| | | | | 32 | 43 | | | 3300024 |




Profile Notes Red. Plotted Job No. 2300 Division No. 11 F. B. 2816 Pg. 127

No. Date Date Survey of HYDRO GRAPHIC SURVEY

X-Sec. Notes Chkd. Checked Survey by Notes [illegible] Date 1-30-69

No. Date Date Map No. Indexed B. J. GALLI Date

F. B. 2816 PG. 128 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDROGRAPHIC SURVEY Date 1-31-69 Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | FOR OFFICE USE ONLY RANGE LINE MIN. | FOR OFFICE USE ONLY CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| S-23 | S-23 | | 21 | ~~32~~ | ~~45~~ | | | ~~3300024~~ |
| | | 8:05 | 22 | 30 | 53 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3300026 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3300028 |

76-L-298 CE 307 5-66

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.

(19)

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LT. 333+00 S | RT. |
|---|---|---|---|---|---|---|
| 330+00 S | | | | 20 70 | SPK. (T.P.) | ℄ |
| 333+00 S | | | | 20 19 | SPK. T.P. | ℄ |
| " | | | | 20 24 | | 6² T.C. @ ED. SER. RD. |
| " | | | | 14 51 | | 150' 1X2 T.P. |
| " | | | | 13 3 | | 181' TOP BRK. |
| " | | | | 9 67 | | 230' 1X2 T.P. |
| " | | | | 14 51 | | 150' 1X2 T.P. |
| " | | | | 20 19 | SPK. T.P. | ℄ |
| | | [illegible] | | [illegible] | [illegible] | [illegible] |
| | | | | | [illegible] 400 | [illegible] |
| | [illegible] | [illegible] | | | [illegible] | |
| 1 | | | 6.1 | [illegible] | 50°15' | |
| 2 | | | [illegible] | -0.5 | 51°51' | |
| 3 | | | 10.6 | -3.8 | 55°57' | |
| 4 | | | 13.5 | [illegible] | 58°25' | |
| 5 | | | 16.6 | [illegible] | 59°40' | |

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300 Division No. 11
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY (REDONDO)
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 1-30-69
No. ____ Date ____ Date ____ Map No. ____ Indexed O.L. GALLI Date ____

F.B. 2816 PG. 129

F. B. 2816 Pg. 130 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

DATUM
MEAN LOWER LOW WATER

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 5-66

PLEASE RETURN TO

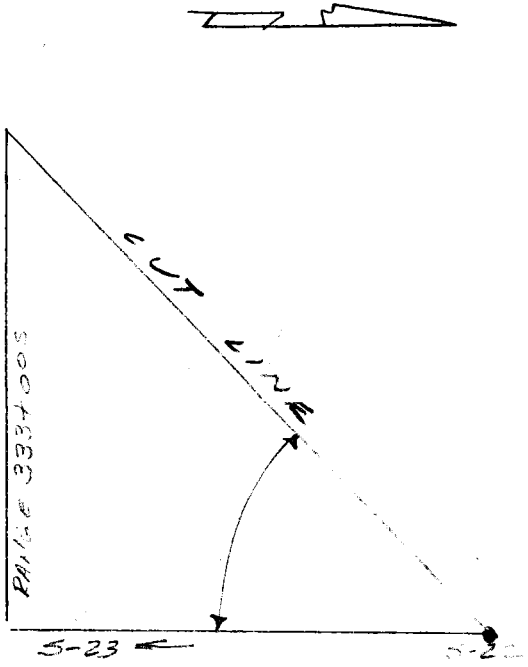
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE DEG. | RANGE MIN. | CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 5-22 | 5-23 | 8:29 | 1 | 70 | 57 | | | |
| | | | 2 | 70 | 28 | | | |
| | | | 3 | 69 | 42 | | | 3330012 |
| | | | 4 | 68 | 49 | | | |
| | | | 5 | 68 | 13 | | | |
| | | | 6 | 67 | 27 | | | 3330014 |
| | | | 7 | 66 | 26 | | | |
| | | | 8 | 65 | 07 | | | |
| | | | 9 | 63 | 33 | | | 3330016 |
| | | | 10 | 62 | 19 | | | |
| | | | 11 | 60 | 25 | | | |
| | | | 12 | 58 | 52 | | | 3330018 |
| | | | 13 | 57 | 45 | | | |
| | | | 14 | 56 | 54 | | | |
| | | | 15 | 56 | 22 | | | 3330020 |
| | | | 16 | 55 | 34 | | | |
| | | | 17 | 54 | 46 | | | |
| | | | 18 | 53 | 25 | | | 3330022 |
| | | | 19 | 52 | 25 | | | |
| | | | 20 | 51 | 10 | | | |
| | | | | 49 | 45 | | | 3330024 |




Profile Notes Red____ Plotted____ Job No. [illegible] Division No. 11

No.____ Date____ Date____ Survey of HYDROGRAPHIC SURVEY

X-Sec. Notes Chkd.____ Checked____ Survey by____ Notes TULLIS Date 1-30-68

No.____ Date____ Date____ Map No.____ Indexed____ [redacted] GALLI Date____

F. B. 2816 PG. 131

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| S-22 | S-23 | | 21 | ~~49~~ | ~~45~~ | | | ~~3330024~~ |
| | | | 22 | 48 | 03 | | | |
| | | | 23 | 46 | 11 | | | |
| | | | 24 | 44 | 26 | | | 3330026 |
| | | | 25 | 42 | 32 | | | |
| | | | 26 | 40 | 60 | | | |
| | | | 27 | 38 | 43 | | | 3330028 |
| | | | 28 | 37 | 05 | | | |
| | | | 29 | 35 | 08 | | | |
| | | | 30 | 34 | 10 | | | 3330030 |
| | | | 31 | 32 | 55 | | | |
| | | | 32 | 31 | 11 | | | |
| | | | 33 | 28 | 20 | | | 3330032 |
| | | | 34 | 26 | [illegible] | | | |
| | | | 35 | 25 | 11 | | | |
| | | 8:37 | 36 | 23 | 41 | | | 3330034 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3330036 |
| | | | | | | | | |
| | | | | | | | | |

F. B. 2816 PG. 132 Job No. 0300[illegible] Division No. 11 Notes Red. Plotted Profile

Survey of HYDROGRAPHIC SURVEY Date 1-30-69 Date No. X-Sec.

Survey by Notes TULLIER Notes Chkd. Checked

Indexed [redacted] Date Date No.

76L298 307 Cdb 12-62

76-L-298 CE 307 5-66

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. | LT. 335+00S RT. |
|---|---|---|---|---|---|
| 333+00 S B.M. S-23 | | | | 20 70 | SPK. T.P. ℄ |
| | | | | 20 10 | B.M. S-23 EL.= 20.060 F.B. 2100 - 33 & 157 |
| | | | | (20 06 | A STD. BR. CP. MON RE. 2177 DN. 3" IN MAC. Rvmt. |
| 335+00 S | | | | 21 09 | SPK. T.P. ℄ |
| " | | | | 21 05 | 6E T.C. @ ED. SER. K. |
| " | | | | 19.3 | 58' TOP BRK. |
| " | | | | 16 0 | 33' BOT. BRK. |
| " | | | | 13 55 | 200' 1x2 T.P. (BOT. BRK. |
| " | | | | 14 4 | 259' TOP BRK |
| " | | | | 11 4 | 362 BOT. BRK |
| " | | | | 7.55 | 285S I.P. 1x2 |
| " | | | | 13 55 | 200' T.P. 1x2 |
| " | | | | 21 09 | SPK T.P. ℄ |
| | | | | [illegible] | [illegible] |
| | 57 | | | | TRANSIT @ S-24 Sight @ S-23 Angle Left |
| 1 | | | 4.6 | [illegible] | 60°25' |
| 2 | | | [illegible] | [illegible] | 62°10' |
| 3 | | | 3.4 | [illegible] | 64°07' |
| 4 | | | [illegible] | [illegible] | 66°35' |
| 5 | | | 15.1 | -9.4 | 68°41' |
| 6 | | | 17.5 | -11.3 | 69°39' |

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 2300 Division No. 11 F. B. 2816 PG. 133
No. ____ Date ____ Date ____ Survey of BRUCH & KOSICN STREET (ALLONER)
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed B.J. CALLI Date ____

F. B. 2816 PG. 134 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76-L-298 CE 307 5-66

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. |
|---|---|---|---|---|
| | | | | |

DATUM
MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

PLEASE RETURN TO

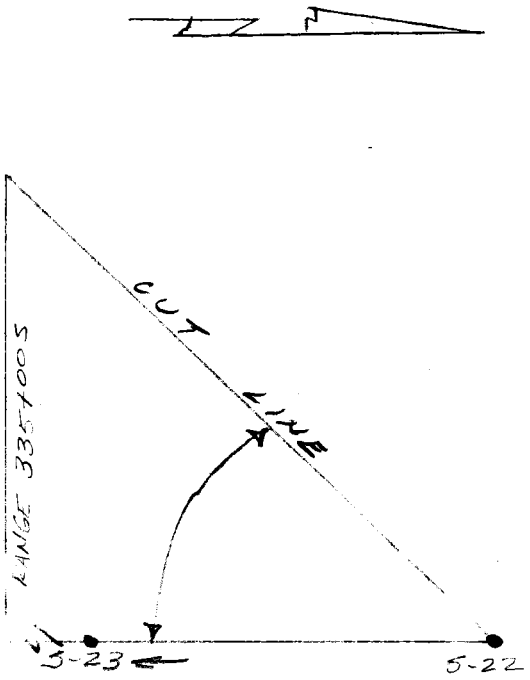
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | FOR OFFICE USE ONLY RANGE LINE MIN. | FOR OFFICE USE ONLY CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 5-22 | 5-23 | 8:49 | 1 | 70 | 20 | | | |
| | | | 2 | 69 | 35 | | | |
| | | | 3 | 68 | 34 | | | 3350014 |
| | | | 4 | 67 | 40 | | | |
| | | | 5 | 66 | 35 | | | |
| | | | 6 | 65 | 24 | | | 3350016 |
| | | | 7 | 64 | 15 | | | |
| | | | 8 | 62 | 33 | | | |
| | | | 9 | 61 | 19 | | | 3350018 |
| | | | 10 | 59 | 04 | | | |
| | | | 11 | 57 | 47 | | | |
| | | | 12 | 56 | 43 | | | 3350020 |
| | | | 13 | 55 | 47 | | | |
| | | | 14 | 55 | 21 | | | |
| | | | 15 | 54 | 29 | | | 3350022 |
| | | | 16 | 53 | 35 | | | |
| | | | 17 | 53 | 08 | | | |
| | | | 18 | 52 | 23 | | | 3350024 |
| | | | 19 | 51 | 30 | | | |
| | | | 20 | 50 | 31 | | | |
| | | | | 49 | 08 | | | 3350026 |




Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. ____ Pg. 135

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes TULLIER Date 1-30-69

No. ____ Date ____ Date ____ Map No. ____ Indexed [redacted] Date ____

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| S-22 | S-23 | | 21 | ~~49~~ | ~~[illegible]~~ | | | ~~3350026~~ |
| | | | 22 | 47 | 48 | | | |
| | | | 23 | 46 | [illegible] | | | |
| | | | 24 | [illegible] | 27 | | | 3350028 |
| | | | 25 | 40 | 46 | | | |
| | | | 26 | 37 | 35 | | | |
| | | | 27 | 34 | 31 | | | 3350030 |
| | | | 28 | 32 | 05 | | | |
| | | | 29 | 30 | 03 | | | |
| | | | 30 | 27 | 44 | | | 3350032 |
| | | | 31 | 26 | 04 | | | |
| | | | 32 | 23 | [illegible] | | | |
| | | 8:56 | 33 | 22 | 40 | | | 3350034 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3350036 |

F. B. 2816 PG. 136 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDROGRAPHIC SURVEY Date 1-30-69 Date No.

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

Indexed [redacted] Date Date No.

76-L-298 CE 307 5-66

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.**

(2)

| STATION | B. S. | H. I. | F. S. | ELEV. | LT. 338+00S RT. |
|---|---|---|---|---|---|
| 335+00S | | | | 21 09 | SPK T.P. ℄ |
| B.M. S-24 | | | | 21 91 | B.M. S-24 EL.= 21.910 F.B. 2100-34 & 156 |
| | | | | | A. STD. BR. CP. MON RE 2177 DN. 3" IN MAC. |
| | | | | | PJMT. |
| 338+00 S | | | | 22 43 | SPK. T.P. ℄ |
| " | | | | 22 43 | 7° T.C. @ EO. SER. RD. |
| " | | | | 19 9 | 62° TOP. BRK |
| " | | | | 14 8 | 100' BOT. BRK |
| " | | | | 12 60 | 282' TOP BRK. (1x2 T.P.) |
| " | | | | 10 2 | 291' BOT BRK |
| " | | | | 8 30 | 304' T.P. 1x2 |
| " | | | | 12 60 | 282 1x2 T.P. |
| " | | | | 22 43 | SPK. T.P ℄ |
| | | H.I. | | 4.60 | T.P. 329' Sand |
| | 1.0 | 5.6 | | | TRANSIT @ 340+50 Sight @ S-24 Angle Left. |
| 1 | | | 5.6 | 0.0 | Angle 63°58' |
| 2 | | | 8.0 | -2.4 | 66°32' |
| 3 | | | 9.6 | -4.0 | 68°30' |
| 4 | | | 12.3 | -6.7 | 71°00' |
| 5 | | | 14.3 | -8.7 | 72°23' |
| 6 | | | 17.6 | -12.0 | 74°25' |

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300 Division No. 11 F.B. 2816 PG. 137
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY (KEUNKE)
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 30-69
No. ____ Date ____ Date ____ Map No. ____ Indexed [illegible] Date ____

F. B. 2816 PG. 138 Job No. Division No. Notes Red Plotted Profile

Survey of Date Date No.

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

Indexed Date Date Date No.

76-L-298 CE 307 5-66

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

**Do not extend notes this side of this line.**

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

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

DATUM
MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

PLEASE RETURN TO

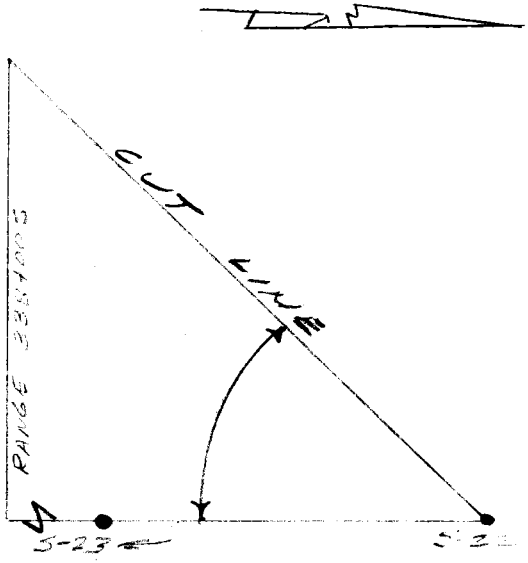
LOS ANGELES COUNTY SURVEYOR

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 | | | | | |
| 5-22 | 5-23 | 9:37 | 1 | 66 | 04 | | | |
| | | | 2 | 65 | 23 | | | |
| | | | 3 | 64 | 30 | | | 3380016 |
| | | | 4 | 63 | 28 | | | |
| | | | 5 | 62 | 18 | | | |
| | | | 6 | 61 | 13 | | | 3380018 |
| | | | 7 | 59 | 56 | | | |
| | | | 8 | 58 | 53 | | | |
| | | | 9 | 57 | 33 | | | 3380020 |
| | | | 10 | 56 | 31 | | | |
| | | | 11 | 55 | 24 | | | |
| | | | 12 | 54 | 23 | | | 3380022 |
| | | | 13 | 53 | 24 | | | |
| | | | 14 | 52 | 31 | | | |
| | | | 15 | 51 | 48 | | | 3380024 |
| | | | 16 | 51 | 02 | | | |
| | | | 17 | 50 | 13 | | | |
| | | | 18 | 48 | 17 | | | 3380026 |
| | | | 19 | 47 | 03 | | | |
| | | | 20 | 45 | 55 | | | |
| | | | | 45 | 00 | | | 3380028 |




Profile

No. Notes Red. Plotted Job No. Division No.

Date Date Survey of

X-Sec. Notes Chkd. Checked Survey by Notes

No. Date Date Map No. Indexed Date Date

F. B. Pg. 139

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

F. B. 2816 Pg. 140 Job No. 2300.02 Division No. 11 Notes Red. Plotted Profile No.

Survey of HYDROGRAPHIC SURVEY Date 1-30-69 Date X-Sec. No.

Survey by [redacted] Notes TULLIER Notes Chkd. Checked

Indexed Date Date Date

| 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-22 | SB | | 21 | ~~44~~ | ~~60~~ | | | ~~3380028~~ |
| | | | 22 | 43 | 54 | | | |
| | | | 23 | 42 | 44 | | | |
| | | | 24 | 41 | 29 | | | 3380030 |
| | | | 25 | 39 | 58 | | | |
| | | | 26 | 38 | 15 | | | |
| | | | 27 | 36 | 33 | | | 3380032 |
| | | | 28 | 34 | 05 | | | |
| | | | 29 | 31 | 35 | | | |
| | | | 30 | 29 | 05 | | | 3380034 |
| | | | 31 | 27 | 00 | | | |
| | | | 32 | 25 | 22 | | | |
| | | | 33 | 23 | 44 | | | 3380036 |
| | | | 34 | 21 | 56 | | | |
| | | | 35 | 20 | 40 | | | |
| | | 9:45 | 36 | 18 | 52 | | | 3380038 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3380040 |

76-L-298 CE 307 5-66

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.

5.65

2

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LT. 340+50S RT. |
|---|---|---|---|---|---|
| 338+00S | | | | 22 43 | T.P. SPK ℄ |
| T.B.M #3 | | | | 23 26 | T.B.M #3 EL = 23.280 F.B. 2100-156 |
| | | | | (23 28) | BT. SPK IN LD 1½' N. FROM SO. END OF CONC |
| | | | | | WALL BACK OF LIFE GUARD STATION |
| 340+50S | | | | 20 60 | SPK T.P. ℄ |
| " | | | | 20 30 | 13° T.C. @ ED. SER. RD. |
| " | | | | 20 9 | 17' TOP BRK |
| " | | | | 17 2 | 59' " " |
| " | | | | 16 79 | 64' T.P 1"x2" |
| " | | | | 14 2 | 82' BOT. BRK. |
| " | | | | 12 2 | 236' " " |
| " | | | | 13 5 | 265 TOP BRK |
| " | | | | 10 3 | 269 BOT BRK |
| " | | | | 9 92 | 275' T.P. 1"x2" |
| " | | | | 6 14 | 296' T.P. 1x2 |
| | | H.I. | | 4.6 | T.P. 207 Sand |
| | 1.0 | 5.6 | | | TRANSIT @ 338+00 Sight @ 340+50 Angles Right |
| | | | | | Angle |
| 1 | | | 5.3 | +0.3 | 51° 35' |
| 2 | | | 8.2 | -2.6 | [illegible] |
| 3 | | | 10.4 | -4.8 | 56° 13' |
| 4 | | | 13.0 | -7.4 | 58° 54' |
| 5 | | | 17.0 | -11.4 | 59° 57' |

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300 02 Division No. ____
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY (REDONDO)
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 1-30-69
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 2816 PG. 141

F. B. 2816 Pg. 142 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76-L-298 CE 307 5-66

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. |
|---|---|---|---|---|
| | | | | |

DATUM
MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

PLEASE RETURN TO

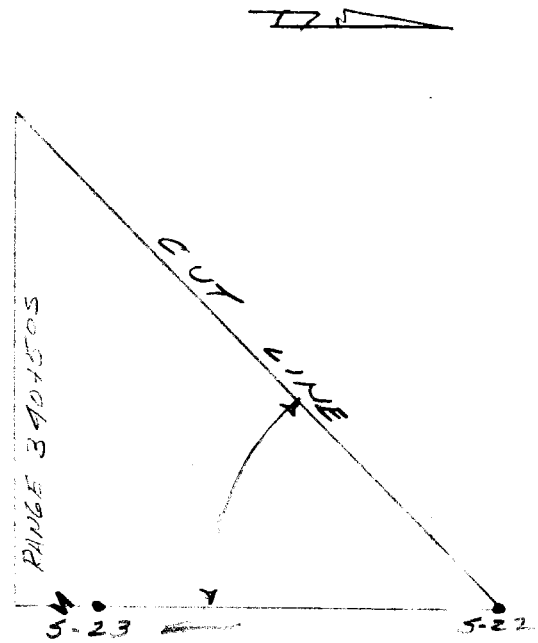
LOS ANGELES COUNTY SURVEYOR

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 | | | | | |
| 5-22 | 5-23 | 9:59 | 1 | 63 | 59 | | | |
| | | | 2 | 62 | 47 | | | |
| | | | 3 | 61 | 48 | | | 3405016 |
| | | | 4 | 60 | 30 | | | |
| | | | 5 | 59 | 48 | | | |
| | | | 6 | 58 | 34 | | | 3405018 |
| | | | 7 | 57 | 19 | | | |
| | | | 8 | 56 | 01 | | | |
| | | | 9 | 54 | 50 | | | 3405020 |
| | | | 10 | 53 | 25 | | | |
| | | | 11 | 52 | 05 | | | |
| | | | 12 | 50 | 29 | | | 3405022 |
| | | | 13 | 49 | 29 | | | |
| | | | 14 | 48 | 29 | | | |
| | | | 15 | 47 | 29 | | | 3405024 |
| | | | 16 | 46 | 29 | | | |
| | | | 17 | 45 | 26 | | | |
| | | | 18 | 44 | 14 | | | 3405026 |
| | | | 19 | 42 | 57 | | | |
| | | | 20 | 41 | 23 | | | |
| | | | | 40 | 25 | | | 3405028 |




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

Date____ Date____ Survey of____

X-Sec. No.____ Notes Chkd.____ Checked____ Survey by____ Notes____ Date____

Date____ Date____ Map No.____ Indexed____ Date____

F. B. 2816 PG. 43

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 5-22 | 5-23 | | 21 | ~~40~~ | ~~25~~ | | | ~~3405028~~ |
| | | | 22 | 39 | 02 | | | |
| | | | 23 | 37 | 04 | | | |
| | | | 24 | 35 | 09 | | | 3405030 |
| | | | 25 | 33 | 13 | | | |
| | | | 26 | 31 | 00 | | | |
| | | | 27 | 28 | 07 | | | 3405032 |
| | | | 28 | 25 | 51 | | | |
| | | | 29 | 23 | 33 | | | |
| | | | 30 | 22 | 03 | | | 3405034 |
| | | | 31 | 20 | 21 | | | |
| | | | 32 | 19 | 07 | | | |
| | | | 33 | 17 | 46 | | | 3405036 |
| | | 10:06 | 34 | 16 | 40 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3405038 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3405040 |
| | | | | | | | | |
| | | | | | | | | |

F. B. 2816 Pg 144

Job No. 0300.03 Division No. 11 Notes Red. Plotted Profile

Survey of HYDROGRAPHIC SURVEY Date 1-30-69 Date No.

Survey by [redacted] Notes TULLIER Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

76-L-298 CE 307 5-66

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.

(23)

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LT 343+ | 00S RT. |
|---|---|---|---|---|---|---|
| 340+50 S | | | | 6 14 | | 296' T.P. 1x2 |
| ~ | | | | 13.43 | 1"x2" T.P. | |
| B.M. S-25 | | | | 13 40 | B.M. S-25 EL.= | F.B. 2100 - 35 |
| | | | | ~ | STD. C.S. MON MKD. "COUNTY SURVEYOR R.E. | DN 6" |
| T.B.M. # 3 | | | | 23 28 | T.B.M. #3 F.B. 2100 - 156 EL.= 23.280 | |
| 343+00S | | | | 17 41 | 1"x2" | ℄ |
| " | | | | 17 9 | 44' BOT. BANK | |
| " | | | | 15 7 | | 44' TOP BRK |
| " | | | | 13 43 | | 71' BOT. BRK. & 1x2 T.P. |
| " | | | | 12 0 | | 195' " " |
| " | | | | 13 6 | | 240' TOP BRK |
| " | | | | 10 5 | | 243' BOT BRK |
| " | | | | 5 88 | | 276' T.P. 1x2" |
| " | | H.I. | | 4.60 | T.P. | 286' Sand |
| | 0.2 | 4.8 | | | TRANSIT @ S-26 Sight @ 343+00 Angle Left. | |
| 1 | | | -6.0 | -1.2 | Angle 79° 33' | |
| 2 | | | -7.5 | -2.7 | 81° 23' | |
| 3 | | | -10.8 | -6.0 | 83° 45' | |
| 4 | | | -14.8 | -10.0 | 84° 58' | |
| 5 | | | -15.2 | -10.4 | 86° 16' | |
| 6 | | | -16.8 | -12.0 | 86° 25' | |

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 0300 Division No. 11
X-Sec. No. ____ Notes Chk'd. ____ Date ____ Checked ____ Date ____ Survey of BEACH EROSION STUDY (REDONDO)
Survey by ____ Notes ____ Date ____
Map No. ____ Indexed ____ Date ____

F.B. 2816 Pg. 145

F. B. 2816 PG. 146 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76-L-298 CE 307 5-66

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. |
|---|---|---|---|---|
| | | | | |

DATUM
**MEAN LOWER LOW WATER**

76L298 307 Cdb 12-62

PLEASE RETURN TO

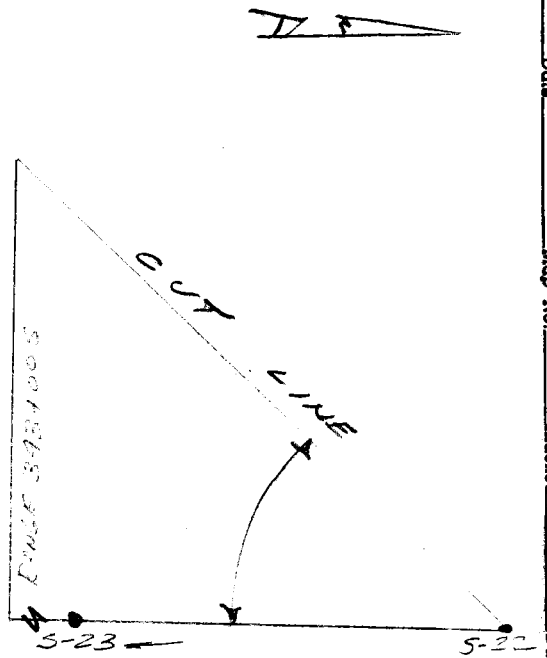
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | FOR OFFICE USE ONLY RANGE LINE MIN. | CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| S-22 | S-23 | 10:27 | 1 | 58 | 25 | | | |
| | | | 2 | 57 | 19 | | | |
| | | | 3 | 56 | 21 | | | 3430016 |
| | | | 4 | 55 | 10 | | | |
| | | | 5 | 53 | 45 | | | |
| | | | 6 | 52 | 49 | | | 3430018 |
| | | | 7 | 51 | 30 | | | |
| | | | 8 | 50 | 16 | | | |
| | | | 9 | 48 | 54 | | | 3430020 |
| | | | 10 | 47 | 22 | | | |
| | | | 11 | 46 | 03 | | | |
| | | | 12 | 45 | 10 | | | 3430022 |
| | | | 13 | 44 | 13 | | | |
| | | | 14 | 43 | 02 | | | |
| | | | 15 | 42 | 04 | | | 3430024 |
| | | | 16 | 41 | 00 | | | |
| | | | 17 | 39 | 55 | | | |
| | | | 18 | 38 | 38 | | | 3430026 |
| | | | 19 | 37 | 02 | | | |
| | | | 20 | 35 | 28 | | | |
| | | | | 33 | 54 | | | 3430028 |




Profile Notes Red. Plotted Job No. Division No.

No. Date Date Survey of

X-Sec. Notes Chkd. Checked Survey by Notes JULLIER Date 1-30-69

No. Date Date Map No. Indexed D.L. GALLI Date

F. B. 2315 Pg 147

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| S-22 | S-23 | | 21 | ~~33~~ | ~~54~~ | | | ~~3430028~~ |
| | | | 22 | 31 | 58 | | | |
| | | | 23 | 29 | 55 | | | |
| | | | 24 | 28 | 10 | | | 3430030 |
| | | | 25 | 25 | 39 | | | |
| | | | 26 | 23 | 15 | | | |
| | | | 27 | 21 | 13 | | | 3430032 |
| | | | 28 | 19 | 28 | | | |
| | | | 29 | 17 | 57 | | | |
| | | | 30 | 16 | 55 | | | 3430034 |
| | | | 31 | 15 | 59 | | | |
| | | 10:34 | 32 | 15 | 20 | | | |
| | | | | 00 | 00 | | | 3430036 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3430038 |

F. B. 2815 Pg 148

Job No. 0300.03 Division No. 11 Notes Red. Plotted Profile

Survey of HYDROGRAPHIC SURVEY Date 1-30-69 Date No.

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

Indexed D.B. GALL Date Date Date No.

76-L-298 CE 307 5-66

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.**

(2)

| STATION | B. S. | H. I. | F. S. | ELEV. | LT. 348+00S | RT. |
|---|---|---|---|---|---|---|
| B.M. S-25 | | | | 13 40 | BM S-25 F.B. 2100-35 | |
| 348+00S | | | | 13 15 | 1"x2" T.P. ℄ | |
| " | | | | 14 4 | 18' LT. BOT. BANK | |
| " | | | | 12 0 | | 168' BOT. BRK |
| " | | | | 13 1 | | 226' TOP BRK |
| " | | | | 10 3 | | 231' BOT. BRK |
| " | | | | 10 77 | | 231' T.P. 1"x2" |
| " | | | | 4 54 | | 280' T.P. 1"x2" |
| 348+00 | | | | 5 86 | | 276' T.P. 1"x2" |
| ℄ | | H.I. | | | TRANSIT @ S-26 Sight on 348+00-Angle Right | |
| | 1,0 | 5,5 | | | angle | |
| 1 | | | 5.5 | 0,0 | 43°38' | |
| 2 | | | 7.6 | -2.1 | 46°33' | |
| 3 | | | 12.2 | -4.7 | 47°32' | |
| 4 | | | 14.6 | -9.0 | 53°42' | |
| 5 | | | 17.5 | -12.0 | 55°[illegible] | |

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 2300 Division No. 11
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY (REDONDO)
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 1-30-69
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 2816 PG. 149

F. B. 2816 Pg. 150 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76-L-298 CE 307 5-66

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

**Do not extend notes this side of this line.**

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

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

DATUM
MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

PLEASE RETURN TO

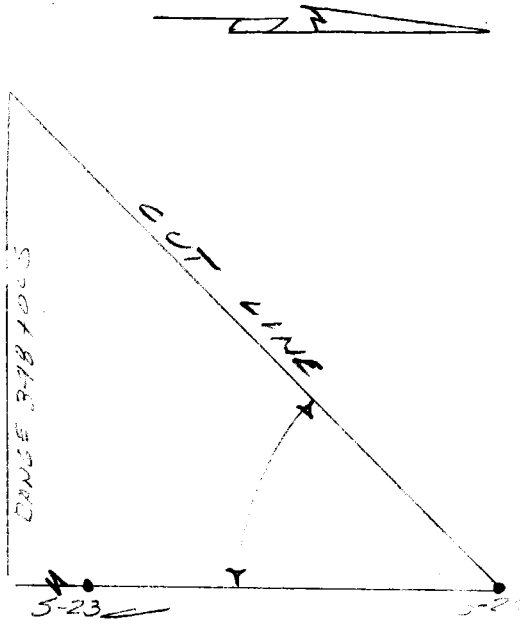
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE DEG. | RANGE MIN. | CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 5-22 | 5-23 | 10:52 | 1 | 51 | 27 | | | |
| | | | 2 | 50 | 04 | | | |
| | | | 3 | 48 | 44 | | | 3480018 |
| | | | 4 | 47 | 42 | | | |
| | | | 5 | 46 | 27 | | | |
| | | | 6 | 45 | 06 | | | 3480020 |
| | | | 7 | 43 | 50 | | | |
| | | | 8 | 42 | 23 | | | |
| | | | 9 | 40 | 46 | | | 3480022 |
| | | | 10 | 38 | 55 | | | |
| | | | 11 | 37 | 11 | | | |
| | | | 12 | 35 | 55 | | | 3480024 |
| | | | 13 | 34 | 14 | | | |
| | | | 14 | 32 | 51 | | | |
| | | | 15 | 31 | 36 | | | 3480026 |
| | | | 16 | 30 | 08 | | | |
| | | | 17 | 28 | 49 | | | |
| | | | 18 | 27 | 23 | | | 3480028 |
| | | | 19 | 25 | 37 | | | |
| | | | 20 | 23 | 55 | | | |
| | | | | 22 | 15 | | | 3480030 |




Profile Notes Red. Plotted Job No. Division No.

No. Date Date Survey of HYDROGRAPHIC SURVEY

X-Sec. Notes Chkd. Checked Survey by Notes TELLIER Date 1-30-69

No. Date Date Map No. Indexed [redacted] Date

F. B. 2816 PG. 151

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| S-22 | S-23 | | 21 | ~~22~~ | ~~15~~ | | | ~~3480036~~ |
| | | | 22 | 20 | 27 | | | |
| | | | 23 | 18 | 24 | | | |
| | | | 24 | 17 | 02 | | | 3480032 |
| | | | 25 | 15 | 45 | | | |
| | | | 26 | 14 | 28 | | | |
| | | | 27 | 13 | 22 | | | 3480034 |
| | | | 28 | 12 | 13 | | | |
| | | 10:58 | 29 | 11 | 33 | | | |
| | | | | 00 | 00 | | | 3480036 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3480038 |

F. B. 2816 Pg. 152 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDROGRAPHIC SURVEY Date 1-30-69 Date No. X-Sec.

Survey by [redacted] Notes TULLIER Notes Chkd. Checked

Indexed [redacted] Date Date No.

| | |
|---|---|
| Notes Ck'd by | Survey of HYDROGRAPHIC SURVEY |
| Map No. | JN 0300.02 Tape Std °F |
| Office Work | Surveyed by W. A. RICHARDS |
| Checked | Notes UHARRIET Date 1-30-69 |
| Date | Indexed [redacted] GALLI |

F. B. 2816 PG. 153

# TIDE GAGE READINGS
## JAN. 30, 1969

| TIME (P.S.T.) | TIDE (M.L.L.W.) |
|---|---|
| 6:00 | 5.2 |
| 6:30 | 5.5 |
| 7:00 | 5.5 |
| 7:30 | 5.5 |
| 8:00 | 5.3 |
| 8:30 | 5.0 |
| 9:00 | 4.6 |
| 9:30 | 3.9 |
| 10:00 | 3.5 |
| 10:30 | 2.8 |
| 11:00 | 2.2 |
| 11:30 | 1.5 |
| 12:00 | 0.8 |
| 12:30 | 0.3 |
| 1:00 | -0.2 |
| 1:30 | -0.5 |
| 2:00 | -0.7 |

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

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

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

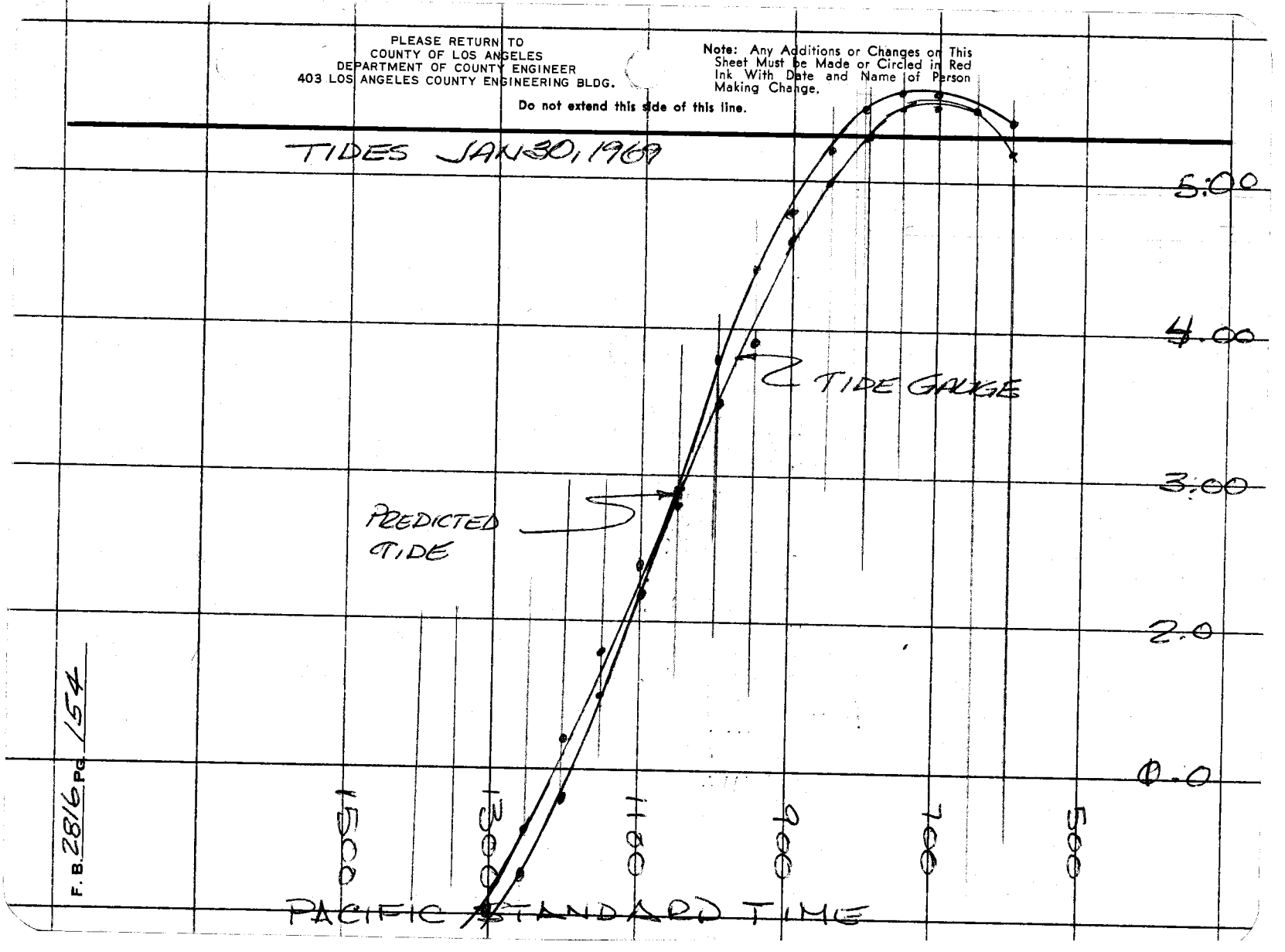
Do not extend this side of this line.

76F309S CE#310 3-68

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

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

Do not extend this side of this line.




F. B. 2816 PG. 154

76-L-298 CE 307 5-66

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. | LT. 353+00S | RT. |
|---|---|---|---|---|---|---|
| 348+00S | | | | 13 15 | T.P. 1"x2" ℄ | |
| 353+00S | | | | 13 78 | T.P. 1"x2" ℄ | |
| " | | | | 168 | 12.5 LT. BOT. BANK | |
| " | | | | 136 | | 222' TOP BRK. |
| " | | | | 100 | | 224' BOT. BRK |
| " | | | | 912 | | 236' 1"x2" T.P. |
| " | | | | 13 78 | T.P. 1x2 ℄ | |
| | | H.I. | | [illegible] | T.P. 1x2 | 264 [illegible] |
| | 1.2 | 8.0 | | | [illegible] | |
| | | | | | [illegible] | |
| 1 | | | 6.2 | + 2.8 | 37°26' | |
| 2 | | | 3.8 | − 3.8 | 34°35' | |
| 3 | | | 10.7 | − 2.7 | 35°07' | |
| 4 | | | 13.1 | − 5.1 | 40°51' | |
| 5 | | | 15.2 | − 7.2 | 43°14' | |
| 6 | | | [illegible] | − 9.4 | 45°20' | |

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ No. [redacted]
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____ Date ____

F. B. 2816 Pg. 55

F. B. 2816 PG. 156 Job No. Division No. Notes Red Plotted Profile

Survey of Date Date No.

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

Indexed Date Date Date No.

76-L-298 CE 307 5-66

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. | |
|---|---|---|---|---|---|
| | | | | | |

DATUM
MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

PLEASE RETURN TO

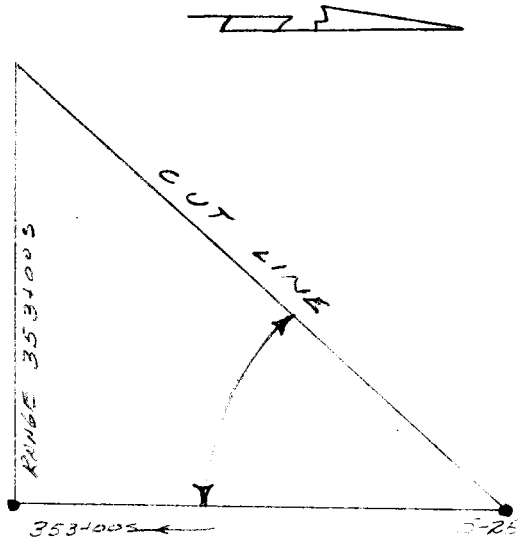
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | FOR OFFICE USE ONLY RANGE LINE MIN. | FOR OFFICE USE ONLY CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| S-25 | 353+00 | 8:16 | 1 | 72 | 47 | | | |
| | | | 2 | 72 | 10 | | | |
| | | | 3 | 71 | 26 | | | 3530012 |
| | | | 4 | 70 | 42 | | | |
| | | | 5 | 69 | 24 | | | |
| | | | 6 | 68 | 01 | | | 3530014 |
| | | | 7 | 67 | 07 | | | |
| | | | 8 | 66 | 00 | | | |
| | | | 9 | 64 | 49 | | | 3530016 |
| | | | 10 | 64 | 16 | | | |
| | | | 11 | 63 | 37 | | | |
| | | | 12 | 63 | 09 | | | 3530018 |
| | | | 13 | 62 | 30 | | | |
| | | | 14 | 61 | 52 | | | |
| | | | 15 | 60 | 60 | | | 3530020 |
| | | | 16 | 60 | 11 | | | |
| | | | 17 | 59 | 26 | | | |
| | | | 18 | 58 | 33 | | | 3530022 |
| | | | 19 | 57 | 33 | | | |
| | | | 20 | 56 | 49 | | | |
| | | | | 55 | 35 | | | 3530024 |




Profile Notes Red. ____ Plotted ____ Job No. [illegible] Division No. [illegible] F. B. 2816 Pg. 157

No. ____ Date ____ Date ____ Survey of HYDROGRAPHIC SURVEY

X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes TULLIER Date 1-31-69

No. ____ Date ____ Date ____ Map No. ____ Indexed C.L. GALLI Date ____

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 5-25 | 353+00 | | 21 | ~~55~~ | ~~35~~ | | | ~~3530024~~ |
| | | | 22 | 54 | 38 | | | |
| | | | 23 | 53 | 20 | | | |
| | | | 24 | 52 | 13 | | | 3530026 |
| | | | 25 | 50 | 38 | | | |
| | | | 26 | 49 | 11 | | | |
| | | | 27 | 47 | 02 | | | 3530028 |
| | | | 28 | 44 | 29 | | | |
| | | | 29 | 41 | 28 | | | |
| | | | 30 | 39 | 20 | | | 3530030 |
| | | | 31 | 35 | 15 | | | |
| | | | 32 | 33 | 11 | | | |
| | | | 33 | 31 | 20 | | | 3530032 |
| | | | 34 | 29 | 05 | | | |
| | | | 35 | 27 | 05 | | | |
| | | | 36 | 25 | 14 | | | 3530134 |
| | | 8:22 | 37 | 23 | 40 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3530136 |
| | | | | 00 | 00 | | | |
| | | | | ~~00~~ | ~~00~~ | | | |
| | | | | 00 | 00 | | | 3530038 |

F. B. 2816 Pg 158

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

Survey of HYDROGRAPHIC SURVEY Date 1-31-69 Date No.

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

Indexed [redacted] Date Date No.

Profile

76-L-298 CE 307 5-66

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. | LT. 358+00S | RT. |
|---|---|---|---|---|---|---|
| 353+00S | | | | 13 78 | 1X2 T.P. | ℄ |
| 358+00S | | | | 14.70 | 1X2 T.P. | ℄ |
| | | | | 16 7 | 26' LT. BOT. BANK | |
| | | | | 11 9 | | 38' BOT BRK |
| | | | | 12 6 | | 195' TOP. BRK |
| | | | | 10 1 | | 210' BOT. BRK. |
| | | | | 9 23 | | 219.5 1X2 T.P. |
| | | | | 14 70 | 1X2 T.P. | ℄ |
| | | | | [illegible] | 1X2 T.P. | 245' [illegible] |
| | | H.I. | | | | |
| | 1.4 | 7.5 | | | TRANSIT @ Sta 353+00 | [illegible] 358+00 (Angle [illegible]) |
| | | | | | Angle | |
| 1 | | | 4.7 | +2 8 | 30°18' | |
| 2 | | | 6.8 | +0.7 | 33°21' | |
| 3 | | | 9.8 | - 2.3 | 37°58' | |
| 4 | | | 12.0 | - [illegible] | 40°45' | |
| 5 | | | 15.0 | - [illegible] | 43°07' | |
| 6 | | | [illegible] | -10.0 | 45°19' | |

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300 02 Division No. 11 F.B. 2816 PG. 159
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY (REDONDO)
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 1-31-69
No. ____ Date ____ Date ____ Map No. ____ Indexed [redacted] GALL Date ____

F. B. 2816 PG. 160 Job No. Division No. Notes Red Plotted Profile

Survey of Date Date No.

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

Indexed Date Date Date No.

76-L-298 CE 307 5-66

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. |
|---|---|---|---|---|
| | | | | |

DATUM
MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

PLEASE RETURN TO

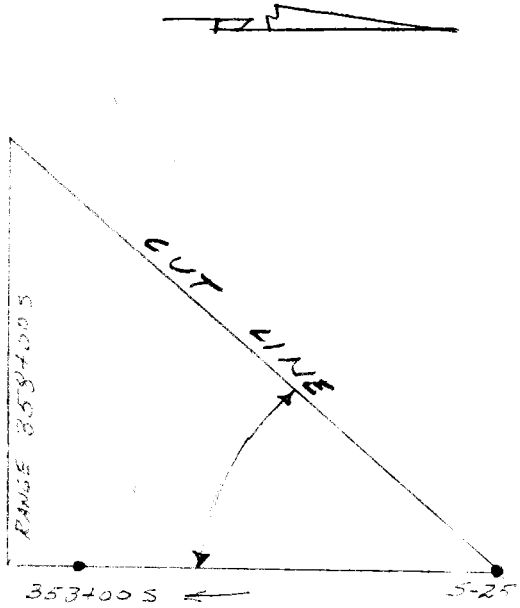
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | FOR OFFICE USE ONLY RANGE LINE MIN. | FOR OFFICE USE ONLY CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| S-25 | 353+00 | 9:09 | 1 | 66 | 20 | | | |
| | | | 2 | 64 | 56 | | | |
| | | | 3 | 63 | 12 | | | 3580012 |
| | | | 4 | 61 | 49 | | | |
| | | | 5 | 59 | 37 | | | |
| | | | 6 | 57 | 22 | | | 3580014 |
| | | | 7 | 55 | 15 | | | |
| | | | 8 | 52 | 01 | | | |
| | | | 9 | 49 | 35 | | | 3580016 |
| | | | 10 | 48 | 12 | | | |
| | | | 11 | 47 | 04 | | | |
| | | | 12 | 45 | 53 | | | 3580018 |
| | | | 13 | 44 | 46 | | | |
| | | | 14 | 43 | 51 | | | |
| | | | 15 | 42 | 40 | | | 3580020 |
| | | | 16 | 41 | 20 | | | |
| | | | 17 | 40 | 07 | | | |
| | | | 18 | 38 | 21 | | | 3580022 |
| | | | 19 | 36 | 54 | | | |
| | | | 20 | 35 | 16 | | | |
| | | | | 33 | 31 | | | 3580024 |




Profile Notes Red. Plotted Job No. Division No.

No. Date Date Survey of

X-Sec. Notes Chkd. Checked Survey by N. Date 1-31-69

No. Date Date Map No. Indexed [redacted] Date

F. B. 2816 Pg. 161

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| S-25 | 353+005 | | 21 | ~~33~~ | ~~31~~ | | | ~~3580024~~ |
| | | | 22 | 31 | 39 | | | |
| | | | 23 | 29 | 22 | | | |
| | | | 24 | 27 | 39 | | | 3580026 |
| | | | 25 | 25 | 32 | | | |
| | | | 26 | 23 | 43 | | | |
| | | | 27 | 22 | 15 | | | 3580028 |
| | | | 28 | 20 | 22 | | | |
| | | | 29 | 17 | 44 | | | |
| | | 9:16 | 30 | 16 | 40 | | | 3580030 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3580032 |

F. B. 2816 PG. 162

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

Survey of HYDROGRAPHIC SURVEY Date 1-31-69 Date No.

Survey by [redacted] Notes TULLIER Notes Chkd. Checked X-Sec.

Indexed [redacted] Date Date Date No.

76-L-298 CE 307 5-66

805

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.

27

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LT. 363+00S RT. |
|---|---|---|---|---|---|
| 358+00S | | | | 14 70 | 1"x2" T.P. ℄ |
| 363+00S | | | | 13 15 | 1"x2" T.P. ℄ |
| " | | | | 15 4 | 24' LT BOT. BANK |
| " | | | | 12 4 | 145' TOP BRK. |
| " | | | | 805 | 241' 1x2 T.P. |
| " | | | | 13 15 | 1"x2" T.P. ℄ |
| " | | | | 6 00 | [illegible] 266' Sand |
| — | | H.I. | | | [illegible] |
| | 0.9 | 6.9 | | | [illegible] |
| 1 | | | 5.0 | 41.9 | 36° 13' |
| 2 | | | 7.1 | -0.2 | 38° 51' |
| 3 | | | [illegible] | -3.[illegible] | 42° 52' |
| 4 | | | 12.2 | -5.3 | 45° 44' |
| 5 | | | 15.5 | -8.6 | 48° 23' |
| 6 | | | [illegible] | [illegible] | [illegible] |

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300 Division No. 11
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY (REDONDO)
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 1-31-69
No. ____ Date ____ Date ____ Map No. ____ Indexed B.E. GALLI Date ____

F. B. 2816 Pg. 163

F. B. 2816 Pg. 164 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

DATUM
MEAN LOWER LOW WATER

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 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

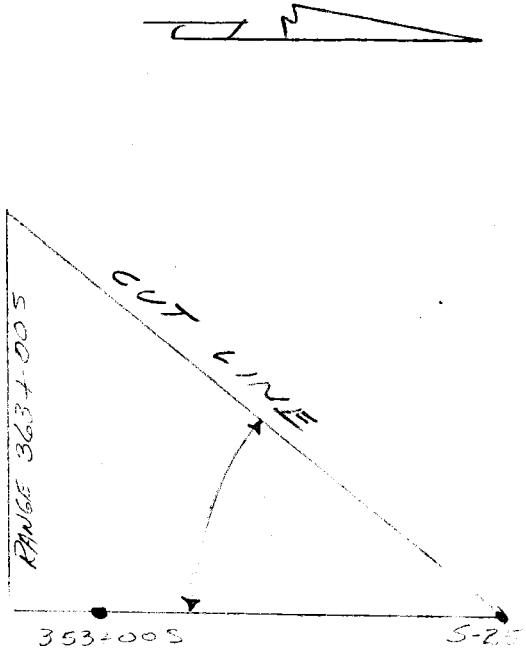
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | FOR OFFICE USE ONLY RANGE LINE MIN. | FOR OFFICE USE ONLY CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| S-25 | 353+00S | 9:[illegible] | 1 | [illegible] | 35 | | | |
| | | | 2 | 60 | 01 | | | |
| | | | 3 | 57 | 44 | | | 3630012 |
| | | | 4 | 55 | 22 | | | |
| | | | 5 | 53 | 31 | | | |
| | | | 6 | 51 | 37 | | | 3630014 |
| | | | 7 | 49 | 59 | | | |
| | | | 8 | 48 | 31 | | | |
| | | | 9 | 46 | 08 | | | 3630016 |
| | | | 10 | 45 | 41 | | | |
| | | | 11 | 44 | 45 | | | |
| | | | 12 | 43 | 56 | | | 3630018 |
| | | | 13 | 43 | 20 | | | |
| | | | 14 | 42 | 43 | | | |
| | | | 15 | 41 | 59 | | | 3630020 |
| | | | 16 | 41 | 19 | | | |
| | | | 17 | 40 | 37 | | | |
| | | | 18 | 39 | 49 | | | 3630022 |
| | | | 19 | 38 | 52 | | | |
| | | | 20 | 37 | 59 | | | |
| | | | | 37 | 06 | | | 3630024 |




Profile Notes Red. ____ Plotted ____ Job No. [illegible] Division No. 11 F. B. 2816 Pg. 165

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes [illegible] Date 1-31-69

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

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| S-25 | 353+00S | | 21 | ~~37~~ | ~~06~~ | | | ~~3630024~~ |
| | | | 22 | 36 | 16 | | | |
| | | | 23 | 35 | 29 | | | |
| | | | 24 | 34 | 50 | | | 3630026 |
| | | | 25 | 34 | 07 | | | |
| | | | 26 | 33 | 27 | | | |
| | | | 27 | 32 | 46 | | | 3630028 |
| | | | 28 | 31 | 22 | | | |
| | | | 29 | 29 | 04 | | | |
| | | | 30 | 27 | 04 | | | 3630030 |
| | | | 31 | 25 | 14 | | | |
| | | | 32 | 23 | 34 | | | |
| | | | 33 | 21 | 40 | | | 3630132 |
| | | | 34 | 20 | 15 | | | |
| | | | 35 | 18 | 32 | | | |
| | | | 36 | 17 | 04 | | | 3630134 |
| | | | 37 | 15 | 43 | | | |
| | | | 38 | 14 | 29 | | | |
| | | 9:41 | 39 | 13 | 11 | | | 3630136 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3630038 |

F. B. 2816 PG 166

Job No. 030003 Division No. 11 Notes Red. Plotted

Survey of HYDROGRAPHIC SURVEY Date 1-31-69 Date No.

Survey by [redacted] Notes TULLIER Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

Profile

76-L-298 CE 307 5-66

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. | LT. 368 | +00 S RT. |
|---|---|---|---|---|---|---|
| 363+00 S | | | | 13 15 | 1x2 T.P. | ℄ |
| T.B.M. #2 | | | | 21 38 | T.B.M. #2 EL.= 21.317 F.B. 2100-155 L&T. IN WALK | |
| | | | | (21 32) | OF MENS LATRINE 2½' FROM SOUTH EDGE & 4' FROM | |
| | | | | | CONC. WALL | |
| 368+00 S | | | | 15 40 | T.P. 1"x2" | ℄ |
| " | | | | 15 4 | 25' LT. BOT. BANK | |
| " | | | | 14 3 | | 32' TOP BRK. |
| " | | | | 10 3 | | 76' BOT. BRK. |
| " | | | | 14 0 | | 234' TOP BRK. |
| " | | | | 14 80 | | 234' T.P. |
| " | | | | 10 8 | | 240 BOT BRK. |
| " | | | | 691 | | 268' T.P. 1"x2" |
| " | | | | 15 40 | T.P. 1"x2" | ℄ |
| | | H.I. | | 4.30 | T.P. 1x2 | 335' [illegible] |
| | 1.1 | 5.9 | | | Bench @ 373+00 - Sight @ 5-26-[illegible] 3 [illegible] Left | |
| 1 | | | 4.8 | -1.1 | 34° 35' | |
| 2 | | | 6.3 | -0.4 | 38° 00' | |
| 3 | | | 3.5 | -2.6 | 41° 56' | |
| 4 | | | 11.5 | -5.6 | 45° 44' | |
| 5 | | | 7.2 | -8.3 | 47° 11' | |
| 6 | | | 17.9 | -12.0 | 52° 06' | |

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300 Division No. 11
No. ____ Date ____ Date ____ Survey of BEACH LIFEGUARD STATION
X-Sec. ____ Notes Chk'd. ____ Checked ____ Survey by ____ Date 1-31-69
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____
F. B. 2816 PG. 167

F. B. 2816 Pg. 168 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

DATUM
MEAN LOWER LOW WATER

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 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

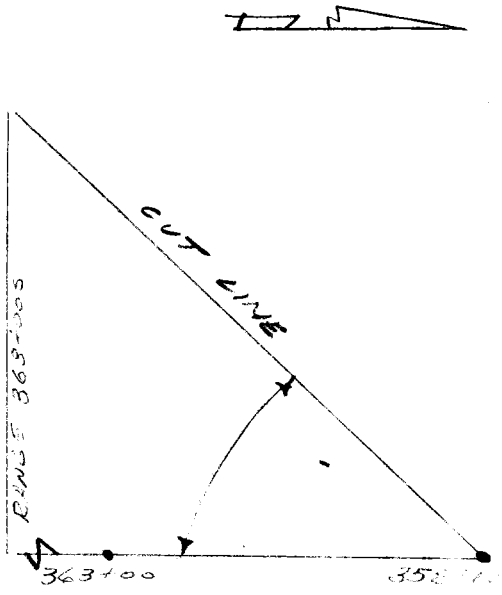
LOS ANGELES COUNTY SURVEYOR

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 | | | | | |
| 353+10 | 363+00 | 10/03 | 1 | 82 | 20 | | | |
| | | | 2 | 81 | 14 | | | |
| | | | 3 | 79 | 57 | | | 3680014 |
| | | | 4 | 78 | 55 | | | |
| | | | 5 | 77 | 15 | | | |
| | | | 6 | 75 | 27 | | | 3680016 |
| | | | 7 | 73 | 39 | | | |
| | | | 8 | 72 | 16 | | | |
| | | | 9 | 70 | 19 | | | 3680018 |
| | | | 10 | 68 | 51 | | | |
| | | | 11 | 67 | 56 | | | |
| | | | 12 | 67 | 43 | | | 3680020 |
| | | | 13 | 67 | 33 | | | |
| | | | 14 | 66 | 46 | | | |
| | | | 15 | 65 | 24 | | | 3680022 |
| | | | 16 | 64 | 31 | | | |
| | | | 17 | 63 | 49 | | | |
| | | | 18 | 63 | 09 | | | 3680024 |
| | | | 19 | 62 | 05 | | | |
| | | | 20 | [illegible] | 53 | | | |
| | | | | 59 | 24 | | | 3680026 |




Profile

No. Notes Red. Plotted Job No. Division No.

Date Date Survey of

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

No. Date Date Map No. Indexed Date Date

F. B. 2816 PG. 169

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 358+10 | 368+00 | | 21 | ~~59~~ | ~~24~~ | | | ~~3680026~~ |
| | | | 22 | 58 | 09 | | | |
| | | | 23 | 54 | 15 | | | |
| | | | 24 | 51 | 35 | | | 3680028 |
| | | | 25 | 49 | 35 | | | |
| | | | 26 | 47 | 43 | | | |
| | | | 27 | 45 | 55 | | | 3680030 |
| | | | 28 | 43 | 55 | | | |
| | | | 29 | 41 | 45 | | | |
| | | | 30 | 39 | 20 | | | 3680032 |
| | | | 31 | 36 | 46 | | | |
| | | | 32 | 34 | 08 | | | |
| | | | 33 | 31 | 03 | | | 3680034 |
| | | | 34 | 27 | 53 | | | |
| | | 10:10 | 35 | 24 | 48 | | | |
| | | | | 00 | 00 | | | 3680036 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3680038 |

F. B. 2816 PG 170

Job No. 0300-03 Division No. 11 Notes Red. Plotted Profile

Survey of HYDROGRAPHIC SURVEY Date 1-31-69 Date No.

Survey by [redacted] Notes TULLIER Notes Chkd. Checked X-Sec.

Indexed Date Date No.

76-L-298 CE 307 5-66

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.

685

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LT. 373+00S | RT. |
|---|---|---|---|---|---|---|
| 368+00S | | | | 15 40 | T.P. 1X2 | ℄ |
| 373+00S | | | | 14 56 | T.P. 1X2 | ℄ |
| " | | | | 16 3 | 60' LT. BOT. BANK | |
| " | | | | 13 3 | | 27' TOP BRK |
| " | | | | 9 6 | | 33' BOT BRK |
| " | | | | 8 0 | | 65' " " |
| " | | | | 9 6 | | 127' TOP BRK |
| " | | | | 8 4 | | 216' " " |
| " | | | | 6 85 | | 244' 1X2 T.P. |
| " | | | | 14 56 | 1"X2" T.P. | ℄ |
| " | | | | 4.60 | " T.P. | 270' Sand |
| | | H.I. | | | Transit @ S-26 - Sight @ 373+00 Angle Right | |
| | 1.3 | 5.9 | | | Angle | |
| 1 | | | 5.4 | -10.5 | 30°43' | |
| 2 | | | 7.2 | -1.8 | 32°45' | |
| 3 | | | 9.8 | -3.9 | 34°19' | |
| 4 | | | 11.1 | -5.2 | 36°50' | |
| 5 | | | 12.9 | -6.[illegible] | 39°40' | |
| 6 | | | [illegible] | -11.0 | 42°47' | |

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300 Division No. 11
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY (REDONDO)
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 1-3-69
No. ____ Date ____ Date ____ Map No. ____ Indexed B.B. GALLI Date ____

F.B. 2816 PG. 171

F.B. 2816 PG. 172 Job No. Division No. Notes Red Plotted Profile

Survey of Date Date No.

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

Indexed Date Date Date No.

76-L-298 CE 307 5-66

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. |
|---|---|---|---|---|
| | | | | |

DATUM
MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

PLEASE RETURN TO

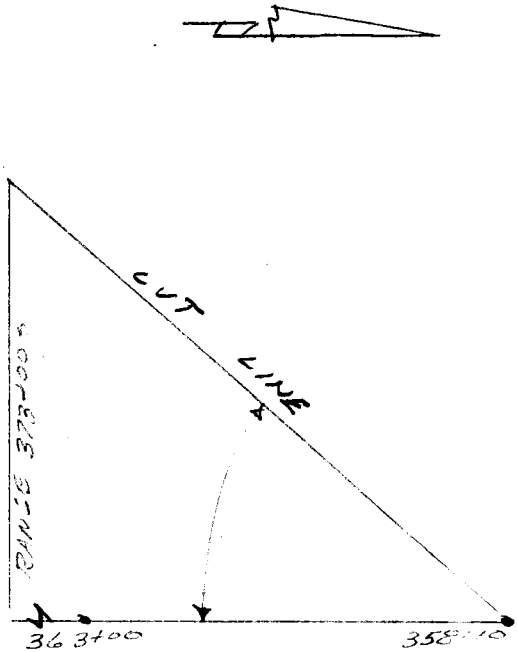
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | FOR OFFICE USE ONLY RANGE LINE MIN. | CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 358+10 | 363+00 | 10:21 | 1 | 71 | 49 | | | |
| | | | 2 | 70 | 53 | | | |
| | | | 3 | 69 | 28 | | | 3730014 |
| | | | 4 | 68 | 29 | | | |
| | | | 5 | 67 | 20 | | | |
| | | | 6 | 66 | 04 | | | 3730016 |
| | | | 7 | 65 | 27 | | | |
| | | | 8 | 64 | 13 | | | |
| | | | 9 | 62 | 57 | | | 3730018 |
| | | | 10 | 61 | 21 | | | |
| | | | 11 | 59 | 59 | | | |
| | | | 12 | 58 | 31 | | | 3730020 |
| | | | 13 | 57 | 13 | | | |
| | | | 14 | 56 | 09 | | | |
| | | | 15 | 55 | 25 | | | 3730022 |
| | | | 16 | 54 | 32 | | | |
| | | | 17 | 53 | 40 | | | |
| | | | 18 | 52 | 57 | | | 3730024 |
| | | | 19 | 52 | 30 | | | |
| | | | 20 | 51 | 34 | | | |
| | | | | 50 | 21 | | | 3730026 |




Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. ____ Pg 73

No. ____ Date ____ Date ____ Survey of ____

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

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 358+10 | 363+00 | | 21 | ~~50~~ | ~~21~~ | | | ~~3730026~~ |
| | | | 22 | 49 | 20 | | | |
| | | | 23 | 48 | 10 | | | |
| | | | 24 | 46 | 37 | | | 3730028 |
| | | | 25 | 44 | 41 | | | |
| | | | 26 | 42 | 41 | | | |
| | | | 27 | 40 | 06 | | | 3730030 |
| | | | 28 | 38 | 15 | | | |
| | | | 29 | 36 | 05 | | | |
| | | | 30 | 33 | 53 | | | 3730032 |
| | | | 31 | 31 | 22 | | | |
| | | | 32 | 29 | 13 | | | |
| | | | 33 | 26 | 38 | | | 3730034 |
| | | | 34 | 24 | 12 | | | |
| | | | 35 | 22 | 27 | | | |
| | | | 36 | 20 | 38 | | | 3730136 |
| | | 10:28 | 37 | 18 | 36 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3730138 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3730040 |

F. B. 2816 PG 174

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

Survey of HYDROGRAPHIC SURVEY Date 1-31-69 Date X-Sec.

Survey by Notes TULLIER Notes Chkd. Checked No.

Indexed R.B. BALLI Date Date Date

76-L-298 CE 307 5-66

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.**

Profile No.____ Notes Red____ Plotted____ Job No. 2300 Division No. 11 F. B. 2816 PG. 175
Date____ Date____ Survey of BEACH EROSION STUDY (REDONDO)
X-Sec. No.____ Notes Chk'd.____ Checked____ Survey by____ Notes____ Date 1-31-69
Date____ Date____ Map No.____ Indexed [redacted] Date____

| STATION | B. S. | H. I. | F. S. | ELEV. | LT. 378+00S | RT. |
|---|---|---|---|---|---|---|
| 373+00 | | | | 14 56 | T.P. 1x2 | ℄ |
| 378+00 | | | | 14 74 | T.P. 1x2 | ℄ |
| " | | | | 18 7 | 70' LT. BOT. BANK | |
| " | | | | 13 5 | | 189' TOP BRK. |
| " | | | | 10 35 | | 223' 1x2 T.P. |
| 373+00 | | | | 6 84 | | 244' 1x2 T.P. |

DATUM
MEAN LOWER LOW WATER

F. B. 2816 Pg. 176 Job No.____ Division No.____ Notes Red____ Plotted____ Profile

Survey of____ Date____ Date____ No.____

Survey by____ Notes____ Notes Chk'd.____ Checked____ X-Sec.

Indexed____ Date____ Date____ Date____ No.____

76-L-298 CE 307 5-66

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. |
|---|---|---|---|---|
| | | | | |

DATUM
MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE DEG. | RANGE MIN. | CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 358+00 | 355+00 | 10:55 | 1 | 70 | 04 | | | |
| | | | 2 | 68 | 45 | | | |
| | | | 3 | 67 | 25 | | | 3780014 |
| | | | 4 | 66 | 02 | | | |
| | | | 5 | 64 | 15 | | | |
| | | | 6 | 63 | 16 | | | 3780016 |
| | | | 7 | 61 | 40 | | | |
| | | | 8 | 60 | 10 | | | |
| | | | 9 | 58 | 24 | | | 3780018 |
| | | | 10 | 56 | 31 | | | |
| | | | 11 | 54 | 35 | | | |
| | | | 12 | 52 | 43 | | | 3780020 |
| | | | 13 | 51 | 09 | | | |
| | | | 14 | 49 | 34 | | | |
| | | | 15 | 48 | 09 | | | 3780022 |
| | | | 16 | 46 | 24 | | | |
| | | | 17 | 44 | 44 | | | |
| | | | 18 | 42 | 46 | | | 3780024 |
| | | | 19 | 40 | 45 | | | |
| | | | 20 | 39 | 13 | | | |
| | | | | 37 | 24 | | | 3780026 |

Profile Notes Red. Plotted Job No. Division No.

No. Date Date Survey of

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

No. Date Date Map No. Indexed Date

F. B. 2816 PG. 77

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 358+10 | 363+00 | | 21 | ~~37~~ | ~~24~~ | | | ~~3780026~~ |
| | | | 22 | 35 | 35 | | | |
| | | | 23 | 33 | 56 | | | |
| | | | 24 | 31 | 45 | | | 3780028 |
| | | | 25 | 29 | 37 | | | |
| | | | 26 | 27 | 17 | | | |
| | | | 27 | 24 | 59 | | | 3780030 |
| | | | 28 | 23 | 17 | | | |
| | | | 29 | 21 | 43 | | | |
| | | | 30 | 20 | 13 | | | 3780032 |
| | | | 31 | 19 | 18 | | | |
| | | | 32 | 17 | 27 | | | |
| | | 11:02 | 33 | 16 | 30 | | | 3780034 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3780036 |

F. B. 2816 Pg. 178

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

Survey of HYDROGRAPHIC SURVEY Date 1-31-69 Date No. X-Sec.

Survey by [redacted] Notes TULLIER Notes Chkd. Checked

Indexed Date Date No.

| | |
|---|---|
| Notes Ck'd by | Survey of HYDROGRAPHIC SURVEY |
| Map No. | JN 0300-02 Tape Std °F |
| Office Work | Surveyed by W.A. RICHARDS |
| Checked | Notes L. HARRIET Date 1-31-69 |
| Date | Indexed G.L. GALLI |

F. B. 2816 PG. 179

# TIDE GAGE READINGS
## JAN. 31, 1969

| TIME (P.S.T.) | TIDE (M.L.L.W.) |
|---|---|
| 6:00 | TAPE BROKEN |
| 6:30 | |
| 7:00 | |
| 7:30 | |
| 8:00 | 5.7 |
| 8:30 | 5.4 |
| 9:00 | 5.1 |
| 9:30 | 4.8 |
| 10:00 | 4.4 |
| 10:30 | 3.9 |
| 11:00 | 3.3 |
| 11:30 | 2.6 |
| 12:00 | 1.9 |
| 12:30 | 1.3 |
| 1:00 | 0.3 |
| 1:30 | 0.2 |
| 2:00 | -0.3 |

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

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

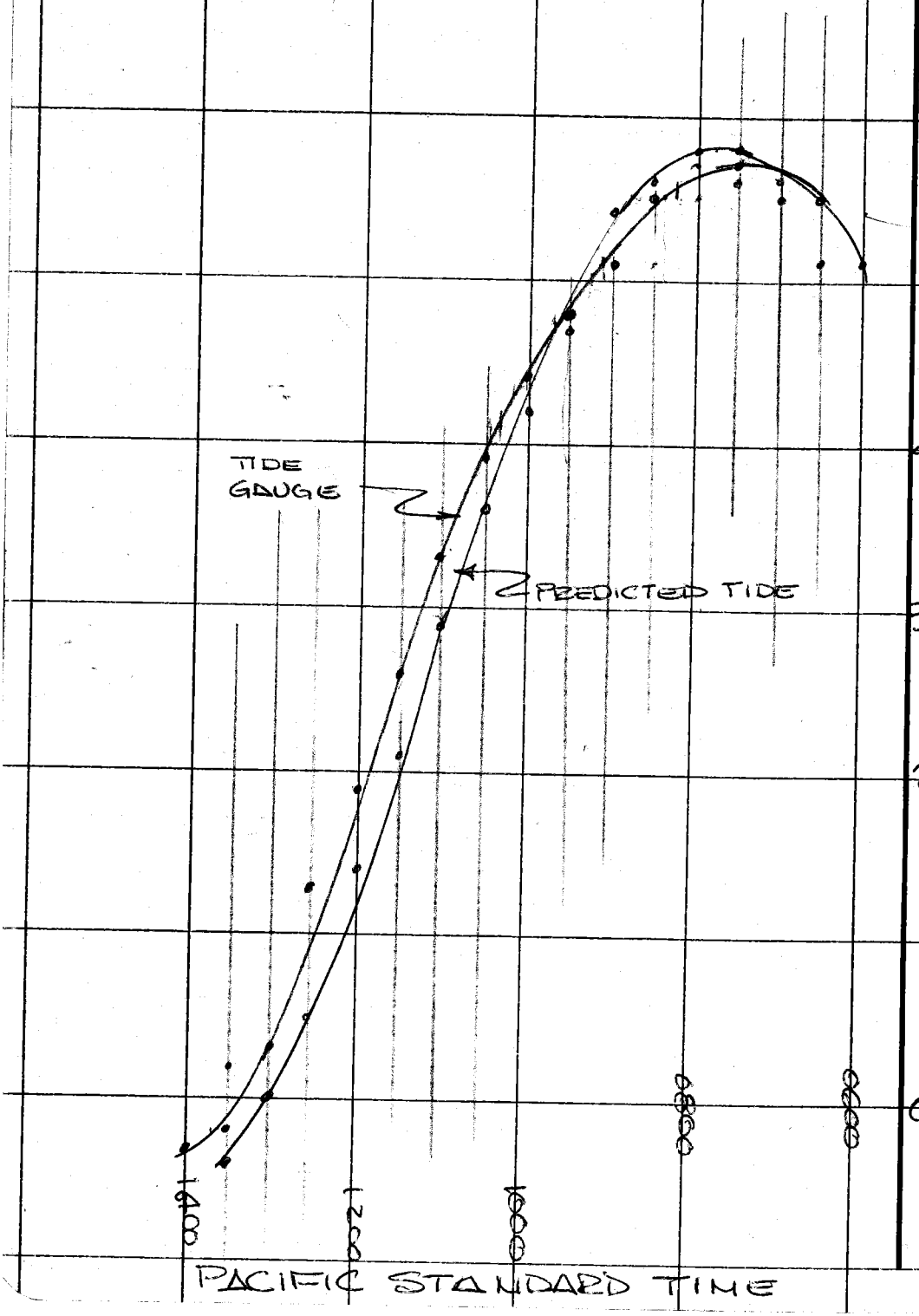
PLEASE RETURN TO
COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend this side of this line.

76F3095 CE#310 3-68

TIDES JAN 31, 1969

F. B. 2816 PG 180 TIDE GAUGE @ L.A (OUTER) HARBOR




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

Do not extend this side of this line.

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

76-L-298 CE 307 5-66

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. | LT. 383+00S | RT |
|---|---|---|---|---|---|---|
| 378+00S | | | | 14 74 | 1X2 T.P. | ℄ |
| 383+00S | | | | 14 06 | 1X2 T.P. | ℄ |
| " | | | | 17 7 | 56⁵ LT. BOT. BANK | |
| " | | | | 13 0 | | 171° TOP BRK |
| " | | | | 10 84 | | 201° 1X2 T.P. |
| " | | | | 14 06 | 1X2" T.P. | ℄ |
| " | | | | 8.10 | 1X2" T.P. | 245' Sand |
| | | H.I. | | | | |
| | 1.6 | 9.7 | | | TRANSIT @ 5-27 — Sight @ 383+00S "Angle left" | |
| | | | | | angle | |
| | | | 67 | + 3.0 | 28°56' | |
| | | | 10.2 | −0.5 | 33°30' | |
| | | | 12.8 | − 3.1 | 36°45' | |
| | | | 13.8 | − 4.1 | 38°18' | |
| | | | 17.0 | − 7.3 | 40°58' | |

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300 Division No. 11 F.B. 2816 PG. 181
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY (REPORT LO)
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes [redacted] Date 2-3-69
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2816 Pg. 182 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

DATUM
MEAN LOWER LOW WATER

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

**Do not extend notes this side of this line.**

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

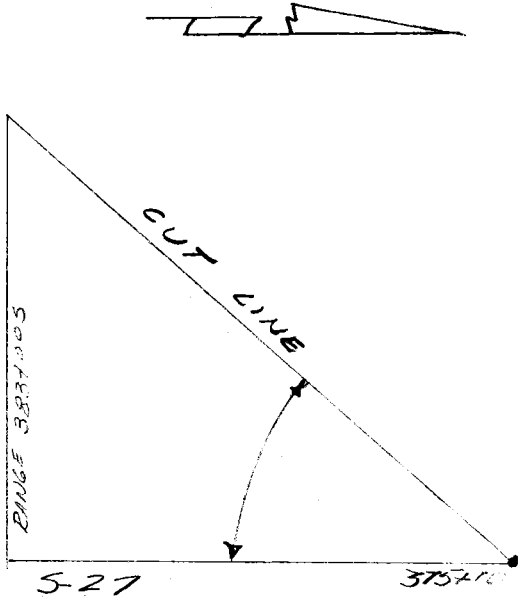
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | FOR OFFICE USE ONLY RANGE LINE MIN. | FOR OFFICE USE ONLY CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 375+10 | S-27 | 8:10 | 1 | 76 | 37 | | | |
| | | | 2 | 75 | 23 | | | |
| | | | 3 | 74 | 32 | | | 3830012 |
| | | | 4 | 73 | 35 | | | |
| | | | 5 | 71 | 37 | | | |
| | | | 6 | 69 | 20 | | | 3830014 |
| | | | 7 | 67 | 07 | | | |
| | | | 8 | 65 | 53 | | | |
| | | | 9 | 65 | 09 | | | 3830016 |
| | | | 10 | 64 | 27 | | | |
| | | | 11 | 63 | 40 | | | |
| | | | 12 | 62 | 50 | | | 3830018 |
| | | | 13 | 62 | 21 | | | |
| | | | 14 | 61 | 20 | | | |
| | | | 15 | 60 | 33 | | | 3830020 |
| | | | 16 | 59 | 31 | | | |
| | | | 17 | 58 | 09 | | | |
| | | | 18 | 56 | 58 | | | 3830022 |
| | | | 19 | 53 | 42 | | | |
| | | | 20 | 50 | 14 | | | |
| | | | | 45 | 41 | | | 3830024 |




Profile Notes Red. Plotted Job No. 6300 Division No. F. B. 2816 Pg. 183

No. Date Date Survey of HYDROGRAPHIC SURVEY

X-Sec. Notes Chkd. Checked Survey by Notes TOWER Date 2-3-69

No. Date Date Map No. Indexed B. J. GALLI Date

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 325+10 | S-27 | | 21 | ~~45~~ | ~~41~~ | | | ~~3830024~~ |
| | | | 22 | 41 | 56 | | | |
| | | | 23 | 38 | 59 | | | |
| | | | 24 | 36 | 16 | | | 3830026 |
| | | | 25 | 34 | 23 | | | |
| | | | 26 | 31 | 32 | | | |
| | | | 27 | 29 | 39 | | | 3830028 |
| | | 8:17 | 28 | 27 | 14 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3830030 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3830032 |

F. B. 2816 PG. 184

Job No. 030.02 Division No. 11 Notes Red. Plotted Profile

Survey of Hydrographic Survey Date 2-3-69 Date No.

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

Indexed R.L. GALLI Date Date No.

76-L-298 CE 307 5-66

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. | LT. 388+00S RT. |
|---|---|---|---|---|---|
| 383+00S | | | | 14 06 | 1x2 T.P. ℄ |
| 388+00S | | | | 13 76 | 1x2 T.P. ℄ |
| " | | | | 14 1 | 35' LT. BOT BANK |
| " | | | | 13 2 | 151' BOT. BRK |
| " | | | | 14 3 | 211' TOP " |
| " | | | | 10 3 | 221' BOT. BRK |
| " | | | | 10 60 | 224 1"x2" T.P. |
| " | | | | 13 76 | T.P. 1x2 ℄ |
| " | | | | 12 31 | " " 274' sand "Brk" |
| | 1.1 | H.I. 13.4 | | | TRANSIT @ Sta 384+00 Sight @ S-27 angle Rt. |
| | | | | | angle |
| 1 | | | 8.4 | +5.0 | 38°40' |
| 2 | | | 7.0 | +6.4 | 41°45' |
| 3 | | | 12.1 | +1.3 | 44°58' |
| 4 | | | 13.8 | -0.4 | 47°20' |
| 5 | | | 17.1 | -3.7 | 50°30' |
| 6 | | | 20.0 | -6.6 | 53°17 534 |

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. D300 02 Division No. 11 F.B. 2816 Pg. 185
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY (REDONDO)
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 2-3-69
No. ____ Date ____ Date ____ Map No. ____ Indexed [redacted] Date ____

F. B. 2816 PG. 186 Job No.____ Division No.____ Notes Red____ Plotted____ Profile

Survey of____ Date____ Date____ No.____

Survey by____ Notes____ Notes Chk'd.____ Checked____ X-Sec.

Indexed____ Date____ Date____ Date____ No.____

76-L-298 CE 307 5-66

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

**Do not extend notes this side of this line.**

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

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

DATUM
MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

PLEASE RETURN TO

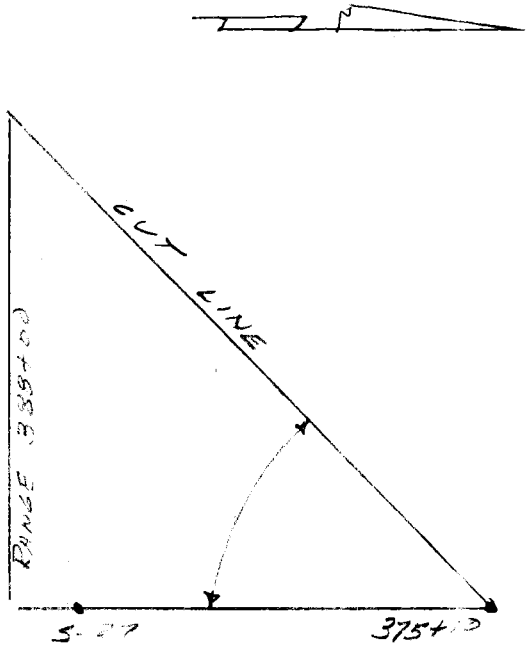
LOS ANGELES COUNTY SURVEYOR

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 | | | | | |
| 375+10 | 5-27 | 8:33 | 1 | 71 | 47 | | | |
| | | | 2 | 70 | 51 | | | |
| | | | 3 | 69 | 10 | | | 3880012 |
| | | | 4 | 68 | 42 | | | |
| | | | 5 | 67 | 25 | | | |
| | | | 6 | 65 | 57 | | | 3880014 |
| | | | 7 | 64 | 07 | | | |
| | | | 8 | 62 | 14 | | | |
| | | | 9 | 59 | 51 | | | 3880016 |
| | | | 10 | 57 | 05 | | | |
| | | | 11 | 54 | 24 | | | |
| | | | 12 | 53 | 12 | | | 3880018 |
| | | | 13 | 51 | 57 | | | |
| | | | 14 | 51 | 04 | | | |
| | | | 15 | 50 | 07 | | | 3880020 |
| | | | 16 | 48 | 55 | | | |
| | | | 17 | 47 | 33 | | | |
| | | | 18 | 46 | 28 | | | 3880022 |
| | | | 19 | 43 | 55 | | | |
| | | | 20 | 40 | 60 | | | |
| | | | | 37 | 24 | | | 3880024 |




Profile No.____ Notes Red.____ Plotted____ Job No. 2300 Division No. 11

Date____ Date____ Survey of HIGHWAY - BRIDGE SEP 15 1

X-Sec. No.____ Notes Chkd.____ Checked____ Survey by____ Notes TAIL 12 Date 2-3-69

Date____ Date____ Map No.____ Indexed [redacted] Date____

F. B. 2812 PG. 187

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| Inst. At | Sight On | Time | Angle No | Hor. Angle Deg. | Hor. Angle Min. | For Office Use Only: Range Line Deg. | Range Line Min. | Card No. |
|---|---|---|---|---|---|---|---|---|
| Don't Punch | Don't Punch | Don't Punch | Don't Punch | | | | | |
| 375+10 | 5-22 | | 21 | ~~37~~ | ~~24~~ | | | ~~3880024~~ |
| | | | 22 | 34 | 22 | | | |
| | | | 23 | 30 | 23 | | | |
| | | | 24 | 27 | 28 | | | 3880026 |
| | | | 25 | 24 | 42 | | | |
| | | | 26 | 22 | 12 | | | |
| | | | 27 | 20 | 49 | | | 3880028 |
| | | | 28 | 18 | 43 | | | |
| | | 3-16 | 29 | 16 | 51 | | | |
| | | | | 00 | 00 | | | 3880030 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3880032 |

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

F. B. 2816 Pg. 188 Job No. 3[illegible] Division No. 11 Notes Red. ____ Plotted ____

Survey of HYDROGRAPHIC SURVEY Date 2-3-69 Date ____

Survey by [redacted] Notes TULLER Notes Chkd. ____ Checked ____

Indexed ____ Date ____ Date ____ Date ____

76-L-298 CE 307 5-66

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. | LT. 393+19S | RT. |
|---|---|---|---|---|---|---|
| 388+00S | | | | 13 76 | 1X2 T.P. | ℄ |
| 393+19S | NOTE: | 40'O/S | RT. | 14 25 | | 40' RT. T.P. 1X2 |
| " | | | | 150 | | ℄ |
| " | | | | 155 | 6' LT BOT BANK | |
| " | | | | 133 | | 132.5 RT. BOT BRK |
| " | | | | 147 | | 189.5 " TOP " |
| " | | | | 120 | | 200.5 " BOT. " |
| " | | | | 1204 | | 206.5 " 1X2 T.P. |
| " | | | | 1425 | | 40' RT. 1X2 T.P. |
| " | | | | 5.9 | 1X2 T.P. | 252' Sand |
| | | H.I. | | | TRANSIT @ 40' offset @ S-27 @ 90° To Line ahead | |
| | 14 | 7.3 | | | Sight @ 40' offset @ Sta 393+19 - Angle Right | |
| | | | | | Angle | |
| 1 | | | 4.3 | + 3.0 | 24° 35' | |
| 2 | | | 10 8 | − 3.5 | 30° 04' | |
| 3 | | | 11.4 | − 4.3 | 34° 35' | |
| 4 | | | 13.1 | − 5.8 | 38° 15' | |
| 5 | | | 14.5 | − 7.2 | 40° 40' | |
| 6 | | | 17.7 | − 10 4 | 44° 03' | |

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300 Division No. 11
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY (REDONDO)
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 2-3-69
No. ____ Date ____ Date ____ Map No. ____ Indexed [redacted] Date ____

F.B. 2816 Pg. 189

F. B. 2816 PG. 190 Job No. Division No. Notes Red Plotted Profile

Survey of Date Date No.

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

Indexed Date Date Date No.

76-L-298 CE 307 5-66

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

**Do not extend notes this side of this line.**

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

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

DATUM
MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

PLEASE RETURN TO

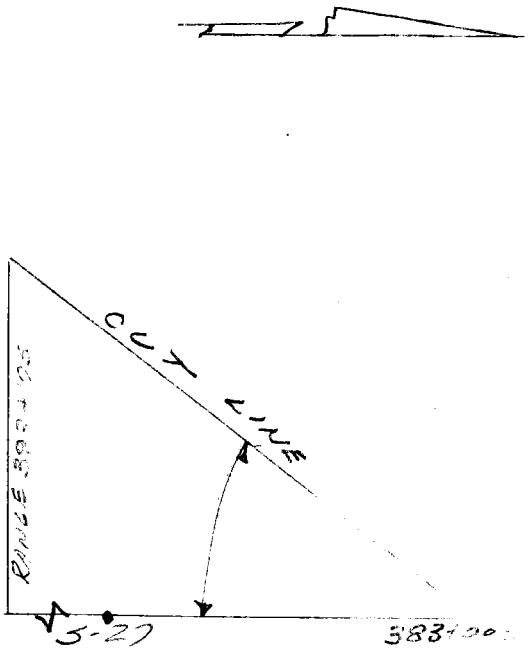
LOS ANGELES COUNTY SURVEYOR

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 | | | | | |
| 383+00 | S-27 | 9:13 | 1 | 79 | 35 | | | |
| | | | 2 | 78 | 43 | | | |
| | | | 3 | 77 | 33 | | | 3931912 |
| | | | 4 | 76 | 26 | | | |
| | | | 5 | 74 | 53 | | | |
| | | | 6 | 72 | 59 | | | 3931914 |
| | | | 7 | 70 | 47 | | | |
| | | | 8 | 68 | 57 | | | |
| | | | 9 | 65 | 32 | | | 3931916 |
| | | | 10 | 64 | 28 | | | |
| | | | 11 | 63 | 18 | | | |
| | | | 12 | 62 | 26 | | | 3931918 |
| | | | 13 | 61 | 29 | | | |
| | | | 14 | 60 | 20 | | | |
| | | | 15 | 58 | 34 | | | 3931920 |
| | | | 16 | 55 | 25 | | | |
| | | | 17 | 51 | 34 | | | |
| | | | 18 | 46 | 42 | | | 3931922 |
| | | | 19 | 41 | 37 | | | |
| | | | 20 | 36 | 35 | | | |
| | | | | 31 | 59 | | | 3931924 |




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

No. ____ Date ____ Date ____ Survey of ____

X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes Tuller Date 2-3-69

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 2816 PG. 191

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 383400 | 5-27 | | 21 | ~~31~~ | ~~59~~ | | | ~~3931924~~ |
| | | | 22 | 28 | 38 | | | |
| | | | 23 | 25 | 32 | | | |
| | | 9:20 | 24 | 22 | 49 | | | 3931926 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 3931928 |

F. B. 2810 PG. 192 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDROGRAPHIC SURVEY Date 2-3-69 Date No.

Survey by B.L. GALLI Notes TULLIER Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

76-L-298 CE 307 5-66

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. | LT. 398+19S | RT |
|---|---|---|---|---|---|---|
| 393+19S | NOTE: 40' o/s RT. | | | 14 25 | | 40' RT. 1"x2" T.P. |
| 398+19S | | | | 12 71 | | 40' RT. 1"x2" T.P |
| " | | | | 13 8 | | ℄ |
| " | | | | 15 8 | 26' LT. BOT. BANK | |
| " | | | | 12 2 | | 193' RT. TOP BRK |
| " | | | | 9 69 | | 216' " 1x2 T.P. |
| " | | | | 12 71 | | 40' RT. 1x2 T.P. |
| " | | | | 6,60 | 1"x2" TP. | 243' sand |
| | | | | 4,6 | | 261' " |
| | | H.I. | | | Transit @ 40' off 393+19 - Sight @ 40' off | |
| | 2,0 | 8.6 | | | Sta 398+19 - Angle Right | |
| | | | | | angle | |
| 1 | | | 8.6 | 0,0 | 35° 38' | |
| 2 | | | 9,1 | -0,5 | 29° 55' | |
| 3 | | | 10.3 | -1.7 | 33° 57' | |
| 4 | | | 12.6 | -4.0 | 39° 32' | |
| 5 | | | 14,3 | -5.7 | 42° 32' | |
| 6 | | | 17.6 | -9 0 | 46° 30' | |

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300 02 Division No. 11 F.B. 2816 Pg. 193
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY (Reported)
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 2-3-69
No. ____ Date ____ Date ____ Map No. ____ Indexed [redacted] Date ____

F. B. 2816 PG. 194 Job No. Division No. Notes Red Plotted Profile

Survey of Date Date No.

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

Indexed Date Date Date No.

76-L-298 CE 307 5-66

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. |
|---|---|---|---|---|
| | | | | |

DATUM
MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

PLEASE RETURN TO

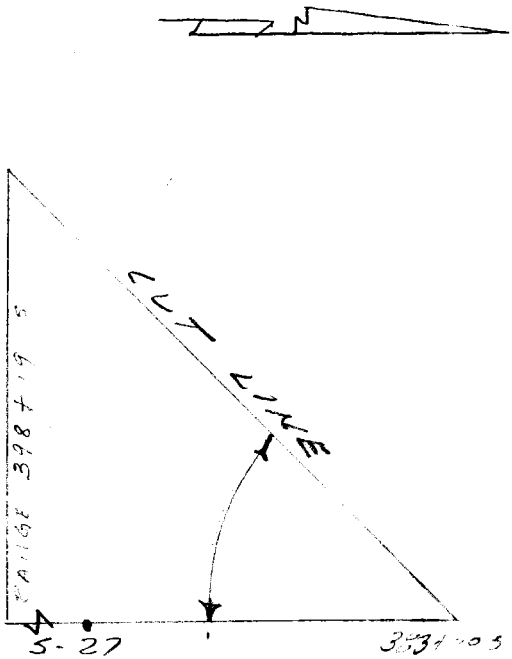
LOS ANGELES COUNTY SURVEYOR

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 | | | | | |
| 383+00 | 5-27 | 9:38 | 1 | 71 | 01 | | | |
| | | | 2 | 70 | 09 | | | |
| | | | 3 | 68 | 40 | | | 3981914 |
| | | | 4 | 67 | 17 | | | |
| | | | 5 | 65 | 42 | | | |
| | | | 6 | 63 | 56 | | | 3981916 |
| | | | 7 | 62 | 21 | | | |
| | | | 8 | 59 | 30 | | | |
| | | | 9 | 57 | 38 | | | 3981918 |
| | | | 10 | 55 | 22 | | | |
| | | | | 53 | 46 | | | |
| | | | 12 | 53 | 05 | | | 3981920 |
| | | | 13 | 52 | 01 | | | |
| | | | 14 | 50 | 33 | | | |
| | | | 15 | 49 | 16 | | | 3981922 |
| | | | 16 | 48 | 16 | | | |
| | | | 17 | 47 | 01 | | | |
| | | | 18 | 45 | 54 | | | 3981924 |
| | | | 19 | 44 | 19 | | | |
| | | | 20 | 42 | 37 | | | |
| | | | | 40 | 00 | | | 3981926 |




Profile Notes Red. Plotted Job No. Division No.

No. Date Date Survey of

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

No. Date Date Map No. Indexed Date

F. B. 2316 Pg. 195

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. 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 | | | | | |
| | | | 21 | ~~29~~ | ~~60~~ | | | ~~398426~~ |
| | | | 22 | 36 | 15 | | | |
| | | | 23 | 33 | 05 | | | |
| | | | 24 | 30 | 33 | | | 398428 |
| | | | 25 | 26 | 28 | | | |
| | | | 26 | 23 | 57 | | | |
| | | | 27 | 21 | 51 | | | 398430 |
| | | | 28 | 19 | 26 | | | |
| | | 9:46 | 29 | 17 | 18 | | | |
| | | | | 00 | 00 | | | 398432 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 398434 |

F. B. 2816 Pg. 196 Job No. 2002 Division No. 11 Notes Red. Plotted

Survey of HYDROGRAPHIC SURVEY Date 2-2-69 Date

Survey by Notes TULLIER Notes Chkd. Checked

Indexed Date Date Date

Profile X-Sec. No. No.

76-L-298 CE 307 5-66

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.

17.03 15.32

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LT. 403+19S | RT. |
|---|---|---|---|---|---|---|
| 398+19S | NOTE: 40' O/S RT. | | | 12 71 | | 40' RT. 1"x2" T.P. |
| ~ | | | | 17 03 | 1x2 T.P | |
| T.B.M#1 | | | | 22 00 | T.B.M.#1 EL. = 22.002 ~ F.B 2100-154 | |
| | | | | | BT. SPK & LD. IN CONC. CB. 3' E. FROM W. END. OF | |
| | | | | | S. CB. OF DRWY. TO CO. LIFEGUARD STA. | |
| 403+19S | | | | 15.32 | | 40' RT. 1x2 T.P. |
| | | | | 16 5 | | ℄ |
| | | | | 19 38 | 70' LT. CONC. STEP @ LIFEGUARD STA. | |
| | | | | 11 5 | | 153' RT. TOP BRK |
| | | | | 10 11 | | 163± 1x2 T.P. |
| | | | | 15 32 | | 40' RT. 1x2 T.P. |
| | | H.I. | | 4.6 | 1"x2" TP | 200' Sand |
| | 4.4 | 9.0 | | | Transit @ 403+19 - 40' off | Sight @ 398+19 40' off |
| | | | | | angle | (angles Right) |
| 1 | | | 9.3 | -0.3 | 21° 03' | |
| 2 | | | 10.0 | -1.0 | 24° 00' | |
| 3 | | | 10.8 | -1.8 | 27° 13' | |
| 4 | | | 11.5 | -2.5 | 32° 50' | |
| 5 | | | 14.1 | -5.1 | 38° 30' | |
| 6 | | | 17.1 | -8.1 | 41° 55' | |

DATUM
MEAN LOWER LOW WATER

Profile No. ___ Notes Red ___ Plotted ___ Job No. 2300 Division No. 11
Date ___ Date ___ Survey of BEACH EROSION STUDY (REPORT)
X-Sec. No. ___ Notes Chk'd. ___ Checked ___ Survey by ___ Notes ___ Date 2-3-69
Date ___ Date ___ Map No. ___ Indexed ___ Date ___

F.B. 2816 PG. 197

F. B. 2816 PG. 198 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

DATUM
MEAN LOWER LOW WATER

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 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

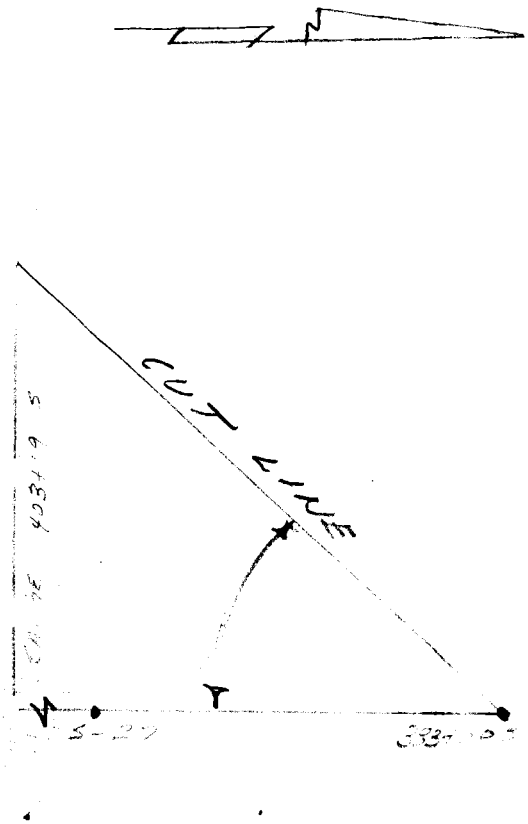
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | FOR OFFICE USE ONLY RANGE LINE MIN. | FOR OFFICE USE ONLY CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 333+00 | S-27 | 9:59 | 1 | | | | | |
| | | | 2 | 65 | 22 | | | |
| | | | 3 | 63 | 52 | | | |
| | | | 4 | 61 | 55 | | | 4031914 |
| | | | 5 | 57 | 07 | | | |
| | | | 6 | 57 | 07 | | | |
| | | | 7 | 53 | 38 | | | 4031916 |
| | | | 8 | 51 | 3 | | | |
| | | | 9 | 48 | 45 | | | |
| | | | 10 | 45 | 26 | | | 4031918 |
| | | | 11 | 41 | 20 | | | |
| | | | 12 | 37 | 43 | | | |
| | | | 13 | 34 | 31 | | | 4031920 |
| | | | 14 | 31 | 18 | | | |
| | | | 15 | 28 | 41 | | | |
| | | | 16 | 26 | 26 | | | 4031922 |
| | | | 17 | 24 | 03 | | | |
| | | | 18 | 22 | 10 | | | |
| | | | 19 | 20 | 05 | | | 4031924 |
| | | | 20 | ~~12~~ | ~~25~~ | | | |




Profile No. ____ Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. 2316 Pg. 199

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

Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date ____

Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| | | | | 18 | 25 | | | |
| | | * | 21 | 16 | 51 | | | |
| | | | 22 | 15 | 25 | | | 4031926 |
| | | ~~10:08~~ | 23 | 13 | 50 | | | |
| | | 10:08 | 24 | 11 | 58 | | | |
| | | | ~~25~~ | 00 | 00 | | | 4031928 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 4031930 |

F. B. 2816 Pg 200 Job No. 2300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDROGRAPHIC SURVEY Date 2-3-69 Date No. X-Sec.

Survey by [redacted] Notes TULLIER Notes Chkd. Checked

Indexed [redacted] Date Date No.

76-L-298 CE 307 5-66

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. | LT. 408+19S RT. |
|---|---|---|---|---|---|
| 403+19S | NOTE: 40'0/S RT. | | | 15 32 | 40' RT. 1"x2" T.P. |
| 408+19S | | | | 12 26 | 40' RT. 1"x2" T.P. |
| " | | | | 11 6 | ℄ & BOT. BRK |
| " | | | | 15 4 | 39.3 BOT. WALL |
| " | | | | 12 4 | 130.5 TOP. BRK. |
| " | | | | 9.75 | 154.0 1x2 T.P. |
| " | | | | 12 26 | 40' RT. 1"x2" T.P. |
| — | | | | 4.60 | 1"x2" T.P. 172' sand |
| | | H.I. | | | |
| | 1.6 | 6.2 | | | TRANSIT @ Sta. 403+19 Sight @ Sta. 408+19 (angle Bight) |
| | | | | | angle |
| 1 | | | 7.5 | -1.8 | 20°20' |
| 2 | | | 8.3 | -2.1 | 23°10' |
| 3 | | | 8.3 | -2.1 | 26°05' |
| 4 | | | 8.9 | -2.7 | 31°51' |
| 5 | | | 10.3 | -4.1 | 36°08' |
| 6 | | | 11.2 | -5.0 | 41°17' |
| 7 | | | 13.8 | -7.6 | 44°56' |
| — | | | | | |

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300 02 Division No. 11 F.B. 2816 PG. 201
Date ____ Date ____ Survey of BEACH EROSION STUDY (REDONDO)
X-Sec. No. ____ Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 7-3-69
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2816 PG. 202 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76-L-298 CE 307 5-66

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. |
|---|---|---|---|---|
| | | | | |

DATUM
MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

PLEASE RETURN TO

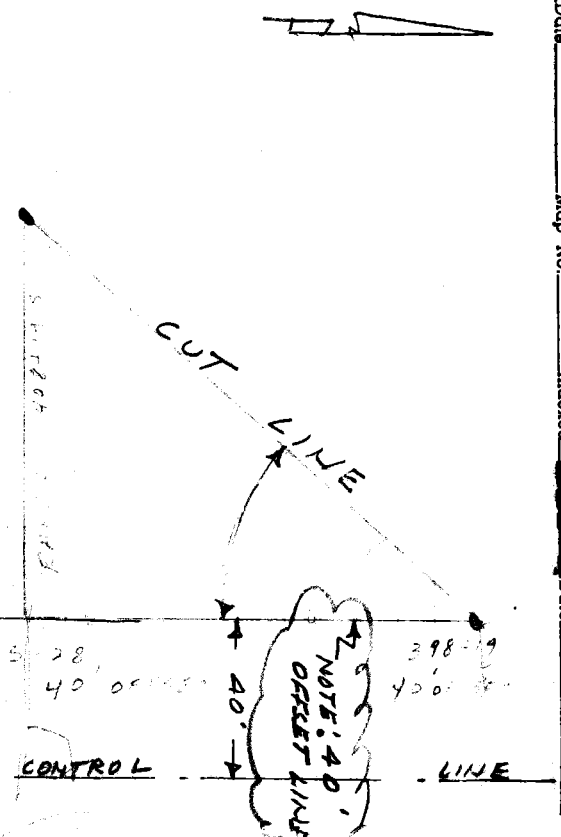
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE DEG. | RANGE MIN. | CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 398+19 | S-28 | 10:30 | 1 | 73 | 42 | | | |
| | | | 2 | 72 | 51 | | | |
| | | | 3 | 72 | 02 | | | 4081914 |
| | | | 4 | 71 | 10 | | | |
| | | | 5 | 70 | 16 | | | |
| | | | 6 | 69 | 15 | | | 4081916 |
| | | | 7 | 68 | 03 | | | |
| | | | 8 | 66 | 19 | | | |
| | | | 9 | 64 | 49 | | | 4081918 |
| | | | 10 | 63 | 45 | | | |
| | | | 11 | 62 | 12 | | | |
| | | | 12 | 60 | 15 | | | 4081920 |
| | | | 13 | 58 | 21 | | | |
| | | | 14 | 55 | 41 | | | |
| | | | 15 | 52 | 44 | | | 4081922 |
| | | | 16 | 49 | 31 | | | |
| | | | 17 | 45 | 27 | | | |
| | | | 18 | 42 | 04 | | | 4081924 |
| | | | 19 | 38 | 32 | | | |
| | | | 20 | 34 | 44 | | | |
| | | | | 30 | 49 | | | 4081926 |




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

X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 2815 PG 203

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| | | | 21 | ~~[illegible]~~ | ~~[illegible]~~ | | | ~~4081926~~ |
| | | | 22 | 28 | 22 | | | |
| | | | 23 | 25 | 26 | | | |
| | | 10:37 | 24 | 22 | 33 | | | 4081928 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 4081930 |

F. B. 2816 PG 204 Job No. 2300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDROGRAPHIC SURVEY Date 2-3-69 Date No.

Survey by [redacted] Notes TULLIER Notes Chkd. Checked X-Sec.

Indexed Date Date No.

76-L-298 CE 307 5-66

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.**

37

| STATION | B. S. | H. I. | F. S. | ELEV. | LT. 413+19S RT. |
|---|---|---|---|---|---|
| 408+19S | NOTE: 40' O/S RT. | | | 12 26 | 40' RT. 1"x2" T.P |
| 413+19S | | | | 12 60 | " " " " |
| " | | | | 12 7 | ℄ BOT. BANK |
| " | | | | 12 6 | 120' RT. TOP BRK |
| " | | | | 10 81 | 133' RT. 1x2 T.P. |
| " | | | | 12 60 | 40' RT. 1x2 T.P |
| | | | | 12 26 | 1x2 T.P. |
| | | | | 18 41 | " " |
| T.B.M #1 | | | | 21 99 | T.B.M. #1 EL. = 22.002 F.B. 2100-154 |
| " | | | | 4 60 | T.P. 1"x2" 170' Sand |
| | 1.1 | H.I. 5.7 | | | Transit Sta 408+19. 40' off - Sight @ 413+19 - 40' off Angle Right |
| | | | | | Angle |
| 1 | | | 6.0 | - 0.3 | 18°20' |
| 2 | | | 7.3 | - 1.6 | 22°04 |
| 3 | | | 6.8 | - 1.1 | 26°08' |
| 4 | | | 7.8 | - 2.1 | 31°19' |
| 5 | | | 9.3 | - 3.6 | 37°51' |
| 6 | | | 11.1 | - 5.4 | 42°00' |
| 7 | | | 14.7 | - 9.0 | 46°30' |

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300 02 Division No. ____
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY (REDONDO)
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 2-3-69
No. ____ Date ____ Date ____ Map No. ____ Indexed [redacted] Date ____

F.B. 2816 Pg. 205

F. B. 2816 PG. 206 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76-L-298 CE 307 5-66

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. |
|---|---|---|---|---|
| | | | | |

DATUM
MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

PLEASE RETURN TO

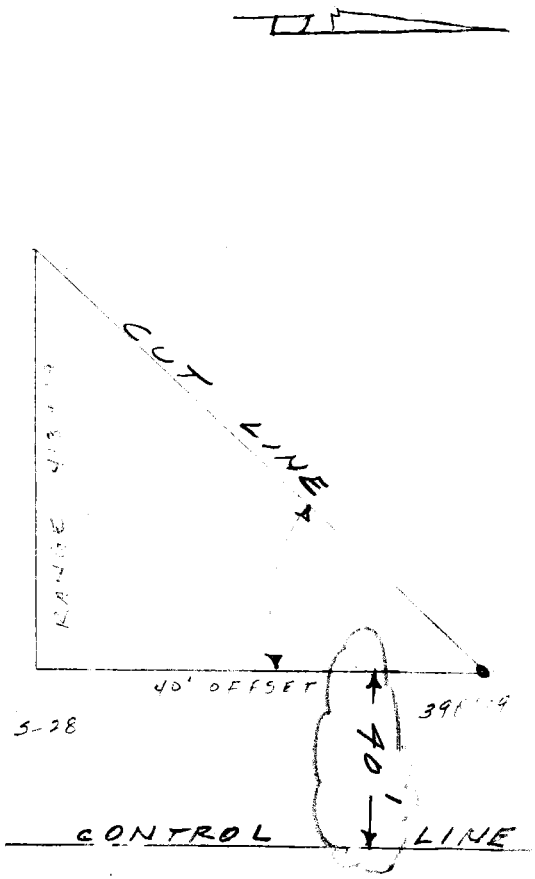
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 398+19 | S-28 | 10:48 | 1 | 68 | 09 | | | |
| | | | 2 | 67 | 19 | | | |
| | | | 3 | 66 | 14 | | | 4131916 |
| | | | 4 | 65 | 15 | | | |
| | | | 5 | 64 | 35 | | | |
| | | | 6 | 63 | 23 | | | 4131918 |
| | | | 7 | 62 | 10 | | | |
| | | | 8 | 60 | 55 | | | |
| | | | 9 | 59 | 18 | | | 4131920 |
| | | | 10 | 58 | 04 | | | |
| | | | 11 | 56 | 34 | | | |
| | | | 12 | 54 | 47 | | | 4131922 |
| | | | 13 | 52 | 55 | | | |
| | | | 14 | 50 | 35 | | | |
| | | | 15 | 47 | 49 | | | 4131924 |
| | | | 16 | 45 | 09 | | | |
| | | | 17 | 41 | 15 | | | |
| | | | 18 | 38 | 36 | | | 4131926 |
| | | | 19 | 36 | 09 | | | |
| | | | 20 | 34 | 17 | | | |
| | | | | 32 | 42 | | | 4131928 |




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

No. ____ Date ____ Date ____ Survey of MYSCO - SURVEY

X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date 2-3-69

No. ____ Date ____ Date ____ Map No. ____ Indexed [redacted] Date ____

F. B. 2816 Pg. 207

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| | | | 21 | ~~32~~ | ~~42~~ | | | ~~4131928~~ |
| | | | 22 | 31 | 26 | | | |
| | | | 23 | 29 | 45 | | | |
| | | | 24 | 28 | 16 | | | 4131930 |
| | | | 25 | 25 | 50 | | | |
| | | | 26 | 23 | 16 | | | |
| | | | 27 | 21 | 26 | | | 4131932 |
| | | | 28 | 19 | 23 | | | |
| | | 10:56 | 29 | 16 | 13 | | | |
| | | | | 00 | 00 | | | 4131934 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 4131936 |

F. B. 2816 PG. 208 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

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

Survey by W.A.R. & ASSOC. Notes Wicks Notes Chkd. Checked

Indexed [redacted] Date Date Date No.

| | |
|---|---|
| Notes Ck'd by | Survey of HYDROGRAPHIC SURVEY |
| Map No. | JN P3 29.02 Tape Std °F |
| Office Work | Surveyed by W.A. RICHARDS |
| Checked | Notes CHARRIET Date 2-3-69 |
| Date | Indexed [redacted] |

F. B. 2916 PG. 209

TIDE GAGE READINGS
FEB. 3, 1969

| TIME (P.S.T.) | TIDE (M.L.L.W.) |
|---|---|
| 6:00 | JAN. TAPE REMOVED |
| 6:30 | |
| 7:00 | |
| 7:30 | |
| 8:00 | |
| 8:30 | |
| 9:00 | 5.6 |
| 9:30 | 5.6 |
| 10:00 | 5.5 |
| 10:30 | 5.2 |
| 11:00 | 4.8 |
| 11:30 | 4.2 |
| 12:00 | 3.6 |
| 12:30 | 2.9 |
| 1:00 | 2.2 |
| 1:30 | 1.5 |
| 2:00 | 0.8 |

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

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

Do not extend this side of this line.

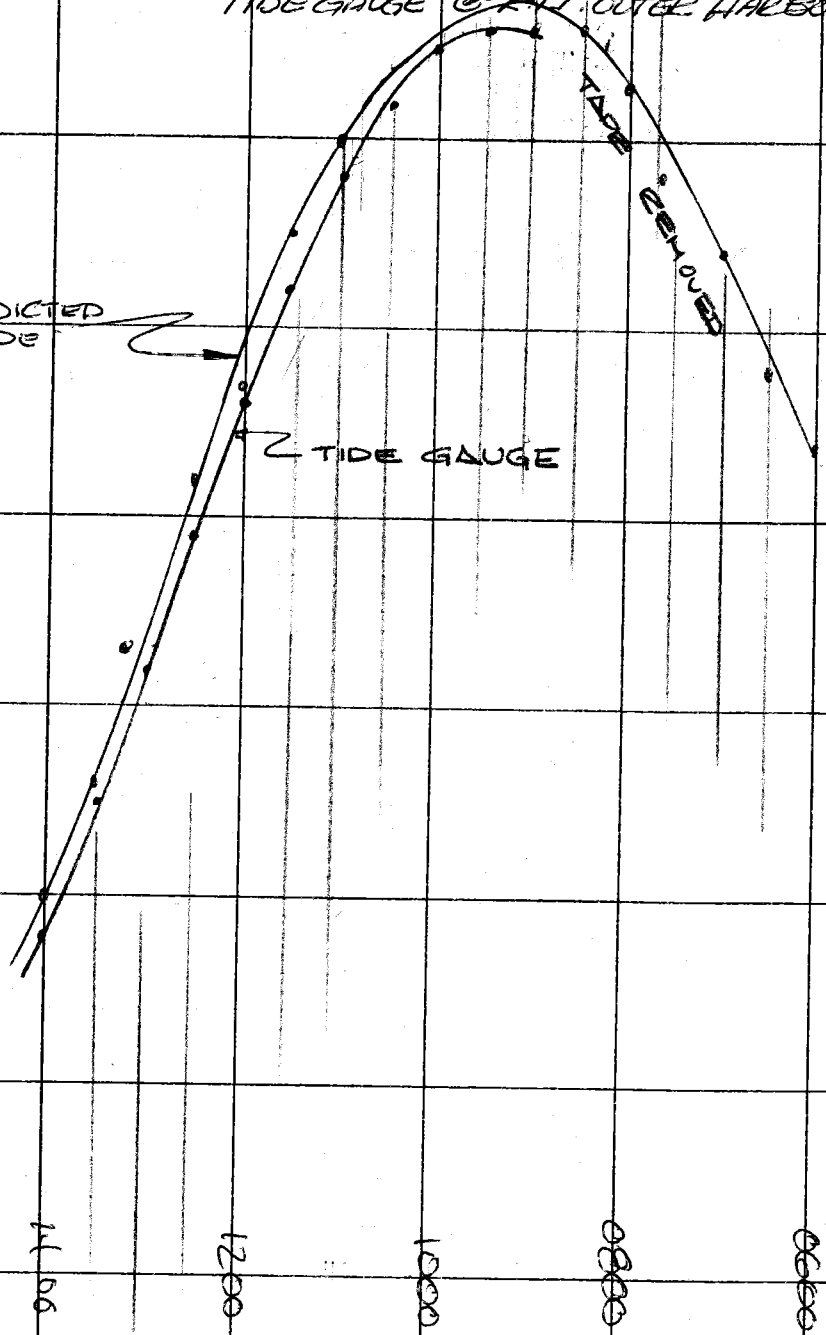
PLEASE RETURN TO
COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-68

F. B. 2816 PG 210

TIDES FEB 3, 1969

TIDEGAUGE @ HQ OUTER HARBOR




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

Do not extend this side of this line.

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

76-L-298 CE 307 5-66

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. | LT. 418+19S RT. |
|---|---|---|---|---|---|
| 413+19S | NOTE | 40'% RT | | 12 60 | 40' RT. 1x2 T.P. |
| 418+19S | | | | 12 70 | " " " " |
| " | | | | 13 5 | 14' RT. BOT. 30' CLIFF. |
| " | | | | 13 1 | 84' " TOP BRK. |
| " | | | | 8.59 | 125' " 1x2 T.P. |
| " | | | | 12 70 | 40' " " " |
| | | H.I. | | | Transit @ 40' offset Rt. Sta. 413+19 |
| | 1.5 | 10.1 | | | Sight @ 40' offset Rt. Sta. 418+19 (angle Right) |
| | | | | | Angle |
| 1 | | | 8.5 | +1.6 | 14° 30' |
| 2 | | | 9.8 | +0.3 | 19° 47 |
| 3 | | | 10.8 | −0.7 | 23° 30' |
| 4 | | | 11.4 | −1.3 | 28° 35' |
| 5 | | | 11.5 | −1.4 | 30° 32' |
| 6 | | | 12.8 | −2.7 | 36° 58' |
| 7 | | | 13.8 | −3.7 | 39° 00' |
| 8 | | | 15.5 | −5.4 | 43° 30' |

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300 02 Division No. 11 F.B. 2816 Pg. 211
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY (REDONDO)
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 2-4-69
No. ____ Date ____ Date ____ Map No. ____ Indexed [redacted] Date ____

F. B. 2816 PG. 212 Job No. Division No. Notes Red Plotted Profile

Survey of Date Date No.

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

Indexed Date Date Date No.

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

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

**Do not extend notes this side of this line.**

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

76-L-298 CE 307 5.66

DATUM
MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

PLEASE RETURN TO

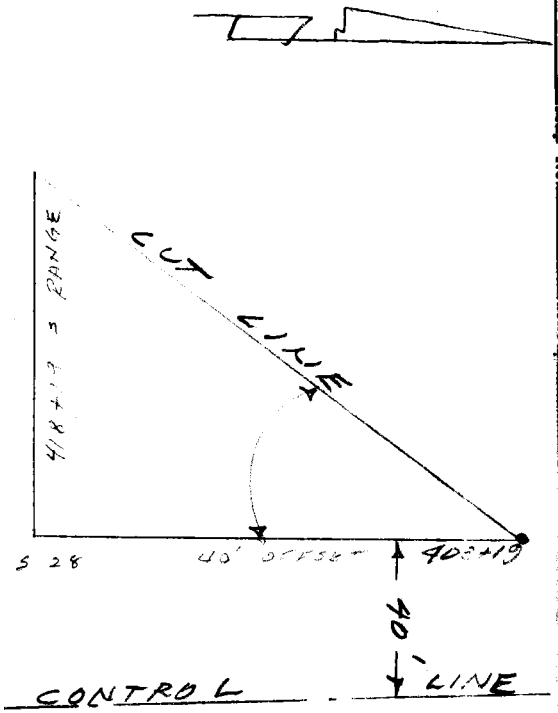
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | FOR OFFICE USE ONLY RANGE LINE MIN. | CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 403+19 | S 28 | 8:10 | 1 | 70 | 23 | | | |
| | | | 2 | 69 | 05 | | | |
| | | | 3 | 67 | 26 | | | 4181916 |
| | | | 4 | 66 | 06 | | | |
| | | | 5 | 64 | 48 | | | |
| | | | 6 | 63 | 39 | | | 4181918 |
| | | | 7 | 61 | 54 | | | |
| | | | 8 | 59 | 45 | | | |
| | | | 9 | 58 | 38 | | | 4181920 |
| | | | 10 | 56 | 10 | | | |
| | | | 11 | 52 | 27 | | | |
| | | | 12 | 50 | 02 | | | 4181922 |
| | | | 13 | 48 | 00 | | | |
| | | | 14 | 45 | 15 | | | |
| | | | 15 | 41 | 35 | | | 4181924 |
| | | | 16 | 38 | 33 | | | |
| | | | 17 | 34 | 48 | | | |
| | | | 18 | 30 | 55 | | | 4181926 |
| | | | 19 | 27 | 15 | | | |
| | | | 20 | 23 | 45 | | | |
| | | | | 19 | 54 | | | 4181928 |




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

No. Date Date Survey of HYDRO SURVEY

X-Sec. Notes Chkd. Checked Survey by H.R. & Assoc. Notes Date 2-4-69

No. Date Date Map No. Indexed R.B. GALLI Date

F. B. 2816 Pg 2/3

F. B. 2812 PG. 214 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of Hydro - Survey Date 2-4-69 Date _____ No. _____

Survey by W.A.R. & Assoc. Notes Wilks Notes Chkd. _____ Checked _____ X-Sec.

Indexed [redacted] GALLI Date _____ Date _____ Date _____ No. _____

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| Inst. At Don't Punch | Sight On Don't Punch | Time Don't Punch | Angle No. Don't Punch | Hor. Angle Deg. | Hor. Angle Min. | For Office Use Only Range Line Deg. | For Office Use Only Range Line Min. | For Office Use Only Card No. |
|---|---|---|---|---|---|---|---|---|
| 403+19 | 5-28 | | 21 | ~~19~~ | ~~54~~ | | | 4181928 |
| | | | 22 | 16 | 60 | | | |
| | | | 23 | 13 | 52 | | | |
| | | 8:17 | 24 | 11 | 57 | | | 4181930 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 4181932 |

76-L-298 CE 307 5-66

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. | LT. 423+19S | RT. |
|---|---|---|---|---|---|---|
| 418+19S | NOTE: 40' 1/5 RT. | | | 12 70 | | 40' RT. 1"x2" T.P. |
| 423+19S | | | | 12 60 | | " " " " |
| " | | | | 13 6 | | 21' RT. BOT. CLIFF |
| " | | | | 11 6 | | 67' " TOP BRK. |
| " | | | | 9 47 | | 90' " 1x2 T.P. |
| " | | | | 12 60 | | 40' " " " |
| | | | | 7.70 | 1"x2" T.P. | 110 " Sand |
| | | H.I. | | | [illegible] 428+19 | |
| | | | | | Sight @ [illegible] S-28 - Angle Left - | |
| | 1.3 | 8.0 | | | Angle | |
| 1 | | | 5.0 | +3.0 | 11°35' | |
| 2 | | | 9.1 | -1.1 | 14°45' | |
| 3 | | | 9.1 | -1.1 | 18°10' | |
| 4 | | | 10.2 | -2.2 | 23°50' | |
| 5 | | | 10.8 | -2.8 | 27°30' | |
| 6 | | | 11.5 | -3.5 | 31°40' | |
| 7 | | | 13.0 | -5.0 | 35°40' | |
| 8 | | | 13.8 | -5.8 | 40°28' | |
| 9 | | | 13.1 | -5.1 | 44°30' | |

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300 Division No. 11 F. B. 2816 Pg. 215
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY (REDONDO)
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 2-4-69
No. ____ Date ____ Date ____ Map No. ____ Indexed [illegible] Date ____

F. B. 2816 PG. 216 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76-L-298 CE 307 5-66

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. |
|---|---|---|---|---|
| | | | | |

DATUM
MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

PLEASE RETURN TO

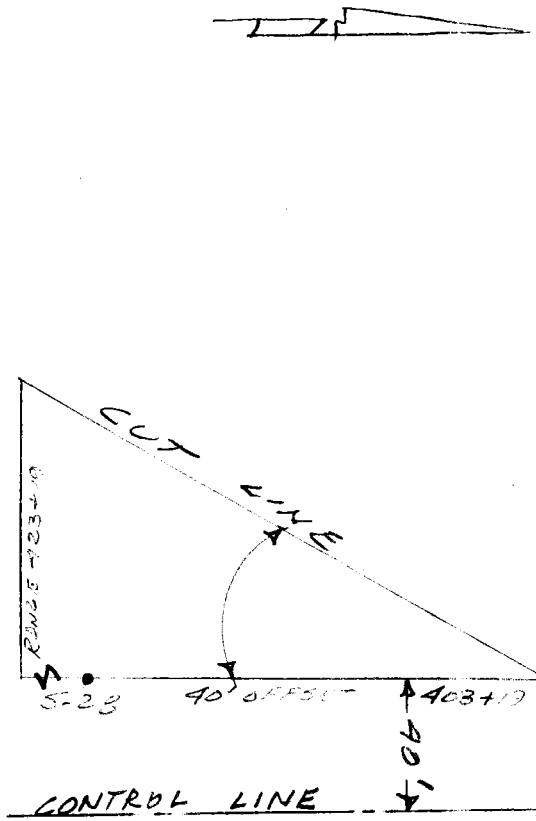
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | FOR OFFICE USE ONLY RANGE LINE MIN. | CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 403+19 | 5-23 | 8:35 | 1 | 69 | 59 | | | |
| | | | 2 | 68 | 54 | | | |
| | | | 3 | 67 | 34 | | | 4231918 |
| | | | 4 | 65 | 60 | | | |
| | | | 5 | 63 | 49 | | | |
| | | | 6 | 62 | 04 | | | 4231920 |
| | | | 7 | 60 | 14 | | | |
| | | | 8 | 58 | 25 | | | |
| | | | 9 | 56 | 15 | | | 4231922 |
| | | | 10 | 53 | 53 | | | |
| | | | 11 | 51 | 31 | | | |
| | | | 12 | 48 | 37 | | | 4231924 |
| | | | 13 | 45 | 22 | | | |
| | | | 14 | 41 | 04 | | | |
| | | | 15 | 37 | 12 | | | 4231926 |
| | | | 16 | 34 | 32 | | | |
| | | | 17 | 31 | 55 | | | |
| | | | 18 | 27 | 46 | | | 4231928 |
| | | | 19 | 25 | 23 | | | |
| | | | 20 | 23 | 16 | | | |
| | | | | 20 | 19 | | | 4231930 |




Profile Notes Red. ____ Plotted ____ Job No. 0200.03 Division No. 11 F. B. 281 Pg 217

No. ____ Date ____ Date ____ Survey of Hydro. Survey

X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date 2.4.69

No. ____ Date ____ Date ____ Map No. ____ Indexed [redacted] GALLI Date ____

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 4-8+19 | 5-28 | | 21 | ~~20~~ | ~~19~~ | | | ~~4231930~~ |
| | | | 22 | 17 | 30 | | | |
| | | | 23 | 14 | 53 | | | |
| | | 5:43 | 24 | 12 | 56 | | | 4231932 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 4231934 |

F. B. 2816 PG. 218 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO-SURVEY Date 2-9-69 Date No.

Survey by W.A.R. & Assoc. Notes TOLLIER Notes Chkd. Checked X-Sec.

Indexed [redacted] Date Date No.

76-L-298 CE 307 5-66

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. | LT. 428+195 RT. |
|---|---|---|---|---|---|
| 423+195 | NOTE: | 40' % LT. | | 12 60 | 40' RT. 1X2 T.P. |
| 428+195 | | | | 10 83 | " " " " |
| " | | | | 140 | ℄ |
| " | | | | 16 5 | 18' LT. BOT. CLIFF. |
| " | | | | 12 2 | 55' RT. TOP BRK. |
| " | | | | 8.95 | 80' " 1X2 T.P. |
| " | | | | 14 56 | 1X2 T.P. (S-28A) |
| 418± 195 | | | | 12 71 | 40' RT. 1X2 T.P. |
| 413 +195 | | | | 12 60 | " " " " |
| " | | | | 6.50 | 1X2 T.P. 16.4' " Sand |
| | | H.I. | | | |
| | 1.9 | 5.8 | | | Transit @ 40' off Sta. 428+19 Sight @ 40' off Sta 428+19 (Angle Right) |
| | | | | | angle |
| 1 | | 5.0 | | +2.4 | 16°25' |
| 2 | | 7.5 | | +0.7 | 4°30' |
| 3 | | 9.8 | | −1.4 | 17°50' |
| 4 | | 8.1 | | +0.5 | 26°05' |
| 5 | | 11.5 | | −3.1 | 30°30' |
| 6 | | 12.7 | | −4.5 | 35°05' |
| 7 | | 13.9 | | −5.5 | 37°25' |
| 8 | | 16.1 | | −7.7 | 43°05' |

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0500.02 Division No. 11
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY (REVERNDO)
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 2-4-69
No. ____ Date ____ Date ____ Map No. ____ Indexed [redacted] Date ____

F. B. 2816 PG. 219

F. B. 2816 PG. 220 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76-L-298 CE 307 5-66

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. |
|---|---|---|---|---|
| | | | | |

DATUM
MEAN LOWER LOW WATER

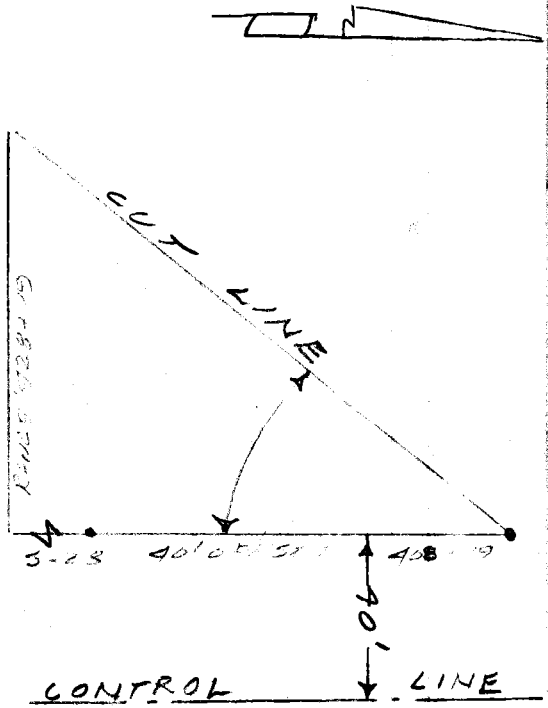
76L298 307 Cdb 12-62

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

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

**Do not extend notes this side of this line.**

| Inst. At | Sight On | Time | Angle No | Hor. Angle Deg. | Hor. Angle Min. | For Office Use Only Range Line Deg. | Min. | Card No |
|---|---|---|---|---|---|---|---|---|
| Don't Punch | Don't Punch | Don't Punch | Don't Punch | | | | | |
| 408+10 | 3-28 | 8:53 | 1 | 61 | 40 | | | |
| | | | 2 | 5[illegible] | 25 | | | |
| | | | 3 | 59 | 08 | | | 4281918 |
| | | | 4 | 57 | 19 | | | |
| | | | 5 | 55 | 40 | | | |
| | | | 6 | 53 | 38 | | | 4281920 |
| | | | 7 | 51 | 03 | | | |
| | | | 8 | 48 | 42 | | | |
| | | | 9 | 4[illegible] | 5[illegible] | | | 4281922 |
| | | | 10 | 42 | 45 | | | |
| | | | 11 | 39 | 59 | | | |
| | | | 12 | 37 | 20 | | | 4281924 |
| | | | 13 | 34 | 20 | | | |
| | | | 14 | 31 | 51 | | | |
| | | | 15 | 2[illegible] | 41 | | | 4281926 |
| | | | 16 | 26 | 02 | | | |
| | | | 17 | 22 | 54 | | | |
| | | | 18 | 20 | 39 | | | 4281928 |
| | | | 19 | 18 | 19 | | | |
| | | | 20 | 16 | 24 | | | |
| | | | | 14 | 12 | | | 4281930 |




Profile Notes Red ____ Plotted ____ Job No. ____ Division No. 11
No. ____ Date ____ Date ____ Survey of ____ Date ____
X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes ____
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 28[illegible] Pg. 22

F. B. 29[illegible] PG 222 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDROGRAPHIC SURVEY Date 2-9-69 Date _____ No. _____

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

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

| INST. AT DON'T PUNCH | SIGHT ON DON'T PUNCH | TIME DON'T PUNCH | ANGLE Nº DON'T PUNCH | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE DEG. | RANGE LINE MIN. | CARD Nº |
|---|---|---|---|---|---|---|---|---|
| 408+19 | 5-28 | | 21 | ~~14~~ | ~~12~~ | | | ~~4281930~~ |
| | | 8:59 | 22 | 12 | 50 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 4281932 |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | |
| | | | | 00 | 00 | | | 4281934 |

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

F. B. 2816 Pg 223

Profile No. _____ Notes Red. _____ Plotted _____ Job No. _____ Division No. _____
Date _____ Date _____ Survey of _____
X-Sec. No. _____ Notes Chkd. _____ Checked _____ Survey by _____ Notes _____ Date _____
Date _____ Date _____ Map No. _____ Indexed _____ Date _____

SEE PAGE 43 FOR TIDE GAGE READINGS ON FEB. 4, 1969

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

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

Do not extend notes this side of this line.

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

761298 307 Cdb 12-62

F. B. 7816 Pg. 224 | BOOK CLOSED

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. _____

| 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. |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

**Do not extend notes this side of this line.**

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 Los Angeles County Engineering Bldg.

761298 307 Gdb 12-62

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

| | | |
|---|---|---|
| Notes Ck'd by | Survey of HYDROGRAPHIC SURVEYS | F.B 2816 Pg 225 |
| Map No. | JN 030002 Tape Std °F | |
| Office Work | Surveyed by W. A. RICHARDS | |
| Checked | Notes W. A. R. Date 4-69 | |
| Date | Indexed [illegible] | |

J. N. 030002

HYDROGRAPHIC SURVEYS

REDONDO PIER AREA

RE-RUN OF LINES 290+65S. TO 304+65S., INC.
OFFSHORE SOUNDINGS ONLY.

RICHARDS
WILKS
SOPER
BANKSON
TULLIER

BAZEN
BUSTRUM

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

Do not extend this side of this line.

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

76P3098 CE #310 5-66

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 this side of this line.

FB 2816 Pg 226

76L298 307 Cdb 12-62

PLEASE RETURN TO

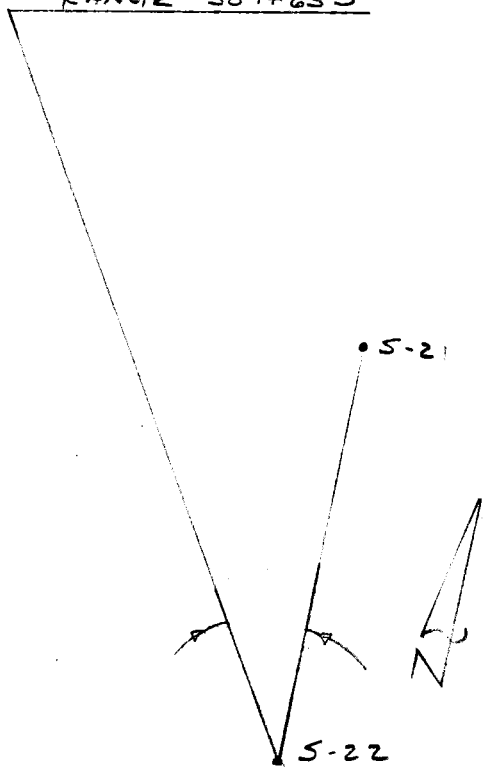
LOS ANGELES COUNTY SURVEYOR

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 | | | | | |
| S-22 | S-21 | 9:51 | 1 | 327 | 56 | | | |
| | | | 2 | 329 | 19 | | | |
| | | | 3 | 330 | 28 | | | |
| | | | 4 | 331 | 30 | | | |
| | | | 5 | 332 | 23 | | | |
| | | | 6 | 333 | 52 | | | |
| | | | 7 | 334 | 37 | | | |
| | | | 8 | 335 | 54 | | | |
| | | | 9 | 337 | 19 | | | |
| | | | 10 | 338 | 40 | | | |
| | | 9:54 | 11 | 339 | 57 | | | |
| | | | 12 | | | | | |
| | | | 13 | | | | | |




Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2816 PG. 227

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

Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes DON Date 4-23-69

Date ____ Date ____ Map No. ____ Indexed G. J. GALLI Date AUG 29 '69

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

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

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date Notes Chkd. Date

Division No.

Job No. Notes Date

F. B. 2816 Pg. 228

Survey of

Survey by

Indexed

76L298 307 Cdb 12-62

PLEASE RETURN TO

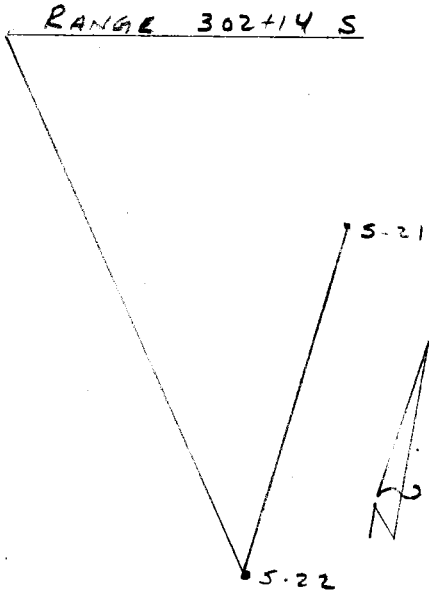
LOS ANGELES COUNTY SURVEYOR

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-22 | S-21 | 10:02 | 1 | 330 | 18 | | | |
| | | | 2 | 331 | 13 | | | |
| | | | 3 | 332 | 09 | | | |
| | | | 4 | 333 | 01 | | | |
| | | | 5 | 333 | 56 | | | |
| | | | 6 | 334 | 58 | | | |
| | | | 7 | 335 | 52 | | | |
| | | | 8 | 336 | 52 | | | |
| | | | 9 | 337 | 57 | | | |
| | | | 10 | 339 | 12 | | | |
| | | 10:05 | 11 | 339 | 57 | | | |




Profile No. ____ Notes Red. ____ Plotted ____ Job No. Q300.02 Division No. 11 F. B. 2816 Pg. 229

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

Notes Chkd. ____ Checked ____ Survey by [illegible] Notes DON Date 4-23-69

Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date APR 29 '69

F. B. 2816 Pg. 230 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. _____

| 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. |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

**Do not extend notes this side of this line.**

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 Los Angeles County Engineering Bldg.

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

76L298 307 Cdb 12-62

76L298 307 Cdb 12-62

PLEASE RETURN TO

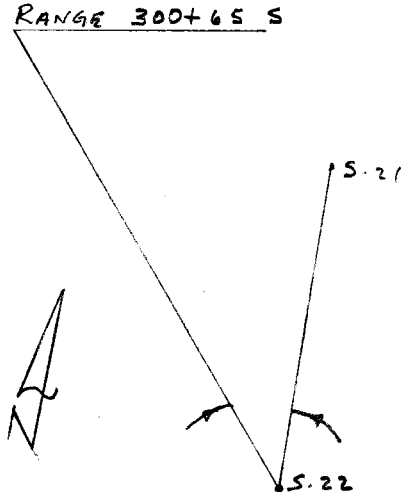
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE 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 | | | | | |
| S-22 | S-21 | 10:32 | 1 | 307 | 26 | | | |
| | | | 2 | 309 | 18 | | | |
| | | | 3 | 310 | 27 | | | |
| | | | 4 | 311 | 38 | | | |
| | | | 5 | 312 | 52 | | | |
| | | | 6 | 314 | 47 | | | |
| | | | 7 | 316 | 14 | | | |
| | | | 8 | 317 | 28 | | | |
| | | | 9 | 319 | 02 | | | |
| | | | 10 | 320 | 57 | | | |
| | | | 11 | 322 | 35 | | | |
| | | | 12 | 323 | 35 | | | |
| | | | 13 | 324 | 36 | | | |
| | | | 14 | 325 | 43 | | | |
| | | | 15 | 327 | 17 | | | |
| | | | 16 | 328 | 51 | | | |
| | | | 17 | 330 | 03 | | | |
| | | | 18 | 331 | 07 | | | |
| | | | 19 | 332 | 23 | | | |
| | | | 20 | 333 | 39 | | | |




Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2816 Pg. 231

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes DON Date 4-23-69

No. ____ Date ____ Date ____ Map No. ____ Indexed C.J. GALLI Date APR 29 '69

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| Inst. At | Sight On | Time | Angle No | Hor. Angle Deg. | Hor. Angle Min. | For Office Use Only: Range Line Deg. | Range Line Min. | Card No. |
|---|---|---|---|---|---|---|---|---|
| Don't Punch | Don't Punch | Don't Punch | Don't Punch | | | | | |
| | | | 21 | 335 | 00 | | | |
| | | | 22 | 335 | 46 | | | |
| | | | 23 | 336 | 20 | | | |
| | | | 24 | 337 | 30 | | | |
| | | | 25 | 338 | 38 | | | |
| | | | 26 | 339 | 20 | | | |
| | | 10:39 | ~~27~~ | | | | | |

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

Plotted ____ Date ____ Checked ____ Date ____

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

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

F. B. 2816 Pg. 232

Survey of ____

Survey by ____

Indexed C. J. GALL

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

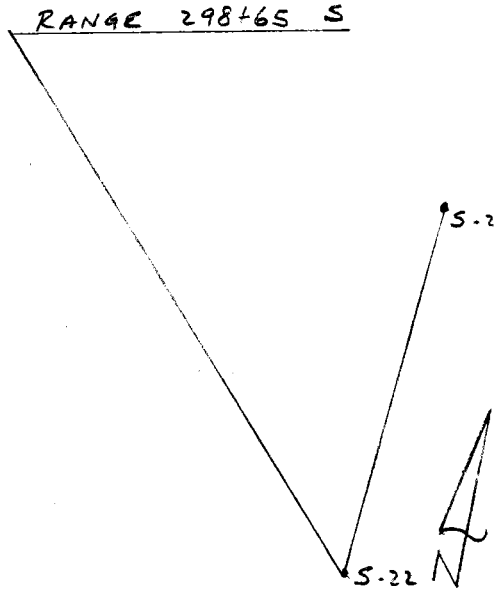
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE DEG. | RANGE MIN. | CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| 5-22 | 5-21 | 10:50 | 1 | 295 | 43 | | | |
| | | | 2 | 296 | 38 | | | |
| | | | 3 | 297 | 48 | | | |
| | | | 4 | 299 | 25 | | | |
| | | | 5 | 300 | 47 | | | |
| | | | 6 | 302 | 01 | | | |
| | | | 7 | 303 | 27 | | | |
| | | | 8 | 304 | 47 | | | |
| | | | 9 | 305 | 55 | | | |
| | | | 10 | 307 | 19 | | | |
| | | | 11 | 309 | 20 | | | |
| | | | 12 | 310 | 49 | | | |
| | | | 13 | 312 | 40 | | | |
| | | | 14 | 314 | 30 | | | |
| | | | 15 | 316 | 22 | | | |
| | | | 16 | 318 | 13 | | | |
| | | | 17 | 320 | 03 | | | |
| | | | 18 | 321 | 33 | | | |
| | | | 19 | 323 | 33 | | | |
| | | | 20 | 324 | 51 | | | |

RANGE 298+65 S




Profile Notes Red. Plotted Job No. 0300.07 Division No. 11

No. Date Date Survey of HYDRO. SURVEY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes DOC Date 4-23-69

No. Date Date Map No. Indexed G. GALLI Date APR 29 '69

F. B. 2816 PG. 233

F. B. 2816 PG. 234 Job No. Division No. Notes Red. Plotted Profile

Survey of SAME Date Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed C. J. GALLI Date Date Date No.

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT DON'T PUNCH | SIGHT ON DON'T PUNCH | TIME DON'T PUNCH | ANGLE No DON'T PUNCH | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE DEG. | FOR OFFICE USE ONLY LINE MIN. | FOR OFFICE USE ONLY CARD No. |
|---|---|---|---|---|---|---|---|---|
| | | | 21 | 326 | 13 | | | |
| | | | 22 | 327 | 26 | | | |
| | | | 23 | 328 | 34 | | | |
| | | | 24 | 329 | 52 | | | |
| | | | 25 | 330 | 58 | | | |
| | | | 26 | 331 | 44 | | | |
| | | | 27 | 332 | 40 | | | |
| | | | 28 | 333 | 32 | | | |
| | | | 29 | 334 | 40 | | | |
| | | 11:00 | 30 | 335 | 49 | | | |

| | |
|---|---|
| Notes Ck'd by | Survey of HYDROGRAPHIC SURVEYS |
| Map No. | JN 0300.02 Tape — Std. — °F |
| Office Work | Surveyed by RICHARDS |
| Checked | Notes HARRIET Date 4-23-69 |
| Date | Indexed C. L. GALLI APR 29 '69 |

F. B. 1916 Pg. 235

# TIDE GAGE READINGS
## APRIL 23, 1969
## DATUM = M.L.L.W.
## TIME = P.S.T.

| TIME | TIDE |
|---|---|
| 6:00 | 1.4 |
| 6:30 | 1.1 |
| 7:00 | 1.0 |
| 7:30 | 0.7 |
| 8:00 | 0.6 |
| 8:30 | 0.4 |
| 9:00 | 0.5 |
| 9:30 | 0.5 |
| 10:00 | 0.5 |
| 10:30 | 0.6 |
| 11:00 | 0.9 |
| 11:30 | 1.0 |
| 12:00 | 1.3 |
| 12:30 | 1.5 |
| 1:00 | 1.8 |
| 1:30 | 2.0 |
| 2:00 | 2.2 |

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

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

Do not extend this side of this line.

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

76F3095 CE#310 3-68

F. B. 2816 PG 236

TIDES - APRIL 23, 1969
TIDE GAUGE @ L.A. (OUTER) HARBOR




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

Do not extend 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.

76L298 307 Cdb 12-62

PLEASE RETURN TO

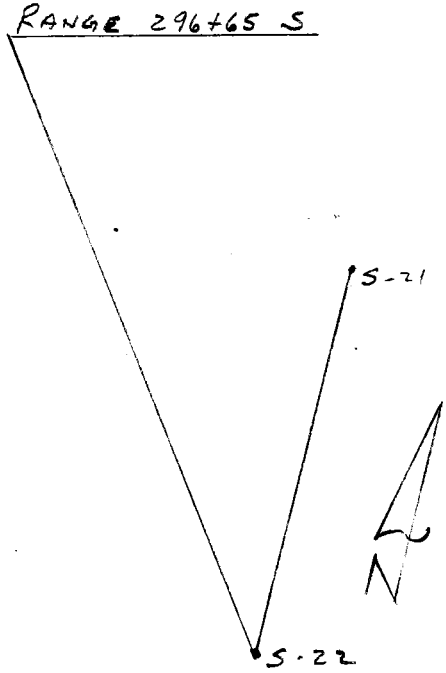
LOS ANGELES COUNTY SURVEYOR

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 | | | | | |
| S-22 | S-21 | 7:55 | 1 | 306 | 48 | | | |
| | | | 2 | 307 | 46 | | | |
| | | | 3 | 308 | 40 | | | |
| | | | 4 | 309 | 44 | | | |
| | | | 5 | 310 | 49 | | | |
| | | | 6 | 311 | 56 | | | |
| | | | 7 | 313 | 19 | | | |
| | | | 8 | 314 | 43 | | | |
| | | | 9 | 315 | 58 | | | |
| | | | 10 | 316 | 57 | | | |
| | | | 11 | 318 | 44 | | | |
| | | | 12 | 320 | 06 | | | |
| | | | 13 | 321 | 14 | | | |
| | | | 14 | 322 | 39 | | | |
| | | | 15 | 324 | 07 | | | |
| | | | 16 | 325 | 28 | | | |
| | | | 17 | 326 | 46 | | | |
| | | | 18 | 327 | 50 | | | |
| | | | 19 | 328 | 58 | | | |
| | | | 20 | 330 | 09 | | | |




Profile No. ____ Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 11 F. B. 2816 PG. 237

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

Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes Done Date 4-25-69

Date ____ Date ____ Map No. ____ Indexed B. J. GALLI Date AUG 20 '69

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 IN 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 | | | | | |
| | | | 21 | 330 | 54 | | | |
| | | | 22 | 331 | 56 | | | |
| | | | 23 | 332 | 58 | | | |
| | | | 24 | 334 | 03 | | | |
| | | | 25 | 335 | 03 | | | |
| | | 8:03 | 26 | 336 | 15 | | | |

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date Notes Chkd. Date

Division No. Job No. SAME

Notes Date

Survey of

Survey by

Indexed C.J. GALLI

F. B. 2816 PG. 238

76L298 307 Cdb 12-62

PLEASE RETURN TO

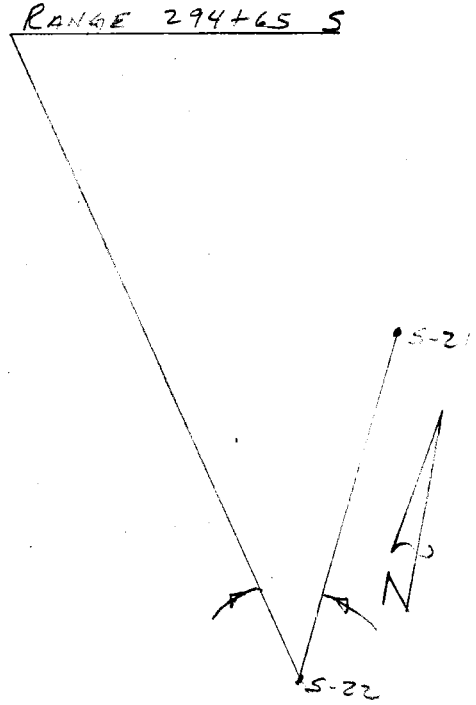
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE DEG. | FOR OFFICE USE ONLY LINE MIN. | CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| S-22 | S-21 | 9:13 | 1 | 309 | 59 | | | |
| | | | 2 | 311 | 13 | | | |
| | | | 3 | 312 | 17 | | | |
| | | | 4 | 31~~3~~2 | 44 | | | |
| | | | 5 | 313 | 56 | | | |
| | | | 6 | 314 | 57 | | | |
| | | | 7 | 315 | 49 | | | |
| | | | 8 | 316 | 34 | | | |
| | | | 9 | 317 | 15 | | | |
| | | | 10 | 318 | 01 | | | |
| | | | 11 | 318 | 49 | | | |
| | | | 12 | 319 | 36 | | | |
| | | | 13 | 320 | 37 | | | |
| | | | 14 | 321 | 07 | | | |
| | | | 15 | 321 | 49 | | | |
| | | | 16 | 322 | 26 | | | |
| | | | 17 | 323 | 07 | | | |
| | | | 18 | 323 | 52 | | | |
| | | | 19 | 324 | 35 | | | |
| | | | 20 | 325 | 14 | | | |




Profile Notes Red. Plotted Job No. 0300.02 Division No. 11 F. B. 2816 Pg. 239

No. Date Date Survey of HYDRO. SURVEY

X-Sec. Notes Chkd. Checked Survey by Richards Notes Dow Date 4-25-69

No. Date Date Map No. Indexed C. L. GALLI Date APR 29 '69

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | RANGE LINE MIN. | CARD Nº. |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| | | | 21 | 325 | 57 | | | |
| | | | 22 | 326 | 51 | | | |
| | | | 23 | 327 | 36 | | | |
| | | | 24 | 328 | 13 | | | |
| | | | 25 | 329 | 01 | | | |
| | | | 26 | 329 | 43 | | | |
| | | | 27 | 330 | 17 | | | |
| | | | 28 | 331 | 00 | | | |
| | | | 29 | 331 | 48 | | | |
| | | | 30 | 332 | 34 | | | |
| | | | 31 | 333 | 23 | | | |
| | | | 32 | 334 | 07 | | | |
| | | | 33 | 335 | 06 | | | |
| | | | 34 | 335 | 58 | | | |
| | | | 35 | 336 | 50 | | | |
| | | | 36 | 337 | 39 | | | |
| | | 9:22 | 37 | 338 | 33 | | | |

F. B. 2816 Pg. 290 Job No. Division No. Notes Red. Plotted Profile

Survey of SAME Date Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed C. J. GALLI Date Date Date No.

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

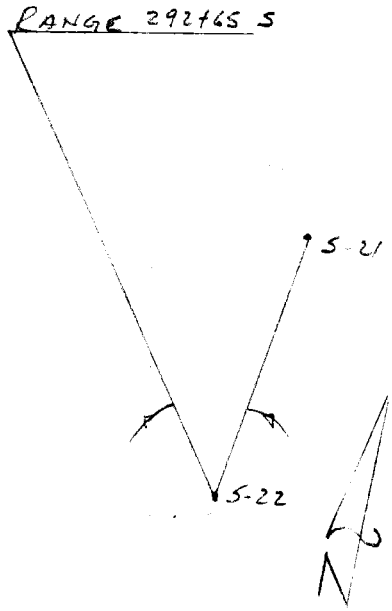
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| INST. AT | SIGHT ON | TIME | ANGLE Nº | HOR. ANGLE DEG. | HOR. ANGLE MIN. | FOR OFFICE USE ONLY RANGE LINE DEG. | FOR OFFICE USE ONLY RANGE LINE MIN. | FOR OFFICE USE ONLY CARD Nº |
|---|---|---|---|---|---|---|---|---|
| DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | DON'T PUNCH | | | | | |
| S-22 | S-21 | 8:19 | 1 | 310 | 29 | | | |
| | | | 2 | 311 | 13 | | | |
| | | | 3 | 312 | 07 | | | |
| | | | 4 | 312 | 58 | | | |
| | | | 5 | 313 | 52 | | | |
| | | | 6 | 314 | 39 | | | |
| | | | 7 | 315 | 39 | | | |
| | | | 8 | 316 | 36 | | | |
| | | | 9 | 317 | 39 | | | |
| | | | 10 | 318 | 37 | | | |
| | | | 11 | 319 | 42 | | | |
| | | | 12 | 320 | 37 | | | |
| | | | 13 | 321 | 34 | | | |
| | | | 14 | 322 | 26 | | | |
| | | | 15 | 323 | 18 | | | |
| | | | 16 | 324 | 10 | | | |
| | | | 17 | 325 | 12 | | | |
| | | | 18 | 325 | 57 | | | |
| | | | 19 | 326 | 54 | | | |
| | | | 20 | 327 | 59 | | | |

RANGE 292+65 S




Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2816 PG. 241

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

Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes DON Date 4-25-69

Date ____ Date ____ Map No. ____ Indexed C. L. GALLI Date APR 29 '69

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. 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 | | | | | |
| | | | 21 | 328 | 47 | | | |
| | | | 22 | 329 | 39 | | | |
| | | | 23 | 330 | 27 | | | |
| | | | 24 | 331 | 18 | | | |
| | | | 25 | 332 | 25 | | | |
| | | | 26 | 333 | 17 | | | |
| | | | 27 | 334 | 20 | | | |
| | | | 28 | 335 | 28 | | | |
| | | | 29 | 336 | 27 | | | |
| | | 8:27 | 30 | 337 | 14 | | | |

Profile No. ____ X-Sec. No. ____

Plotted ____ Date ____ Checked ____ Date ____

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

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

F. B. 2816 Pg. 242

Survey of ____

Survey by C.J. GALLI

Indexed ____

76L298 307 Cdb 12-62

PLEASE RETURN TO

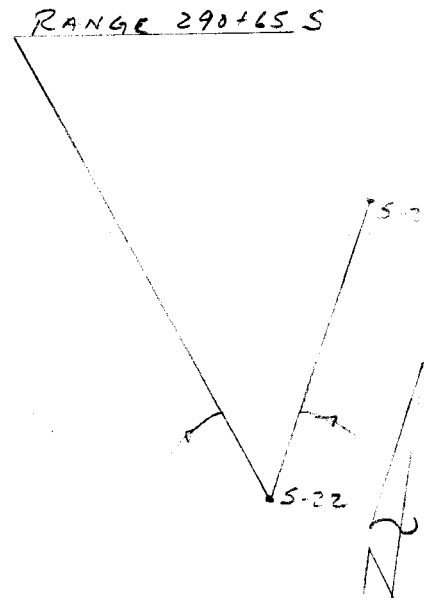
LOS ANGELES COUNTY SURVEYOR

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 | | | | | |
| S-22 | S-21 | 8:37 | 1 | 311 | 55 | | | |
| | | | 2 | 312 | 35 | | | |
| | | | 3 | 313 | 30 | | | |
| | | | 4 | 314 | 23 | | | |
| | | | 5 | 315 | 24 | | | |
| | | | 6 | 316 | 22 | | | |
| | | | 7 | 317 | 37 | | | |
| | | | 8 | 318 | 35 | | | |
| | | | 9 | 319 | 48 | | | |
| | | | 10 | 321 | 06 | | | |
| | | | 11 | 322 | 12 | | | |
| | | | 12 | 323 | 19 | | | |
| | | | 13 | 324 | 31 | | | |
| | | | 14 | 325 | 60 | | | |
| | | | 15 | 327 | 07 | | | |
| | | | 16 | 327 | 55 | | | |
| | | | 17 | 328 | 34 | | | |
| | | | 18 | 329 | 21 | | | |
| | | | 19 | 330 | 18 | | | |
| | | | 20 | 331 | 14 | | | |




Profile Notes Red. Plotted Job No. 0300.02 Division No. 11 F. B. 2816 Pg. 293

No. Date Date Survey of HYDRO. SURVEY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes DON Date 4-25-69

No. Date Date Map No. Indexed C.J. GALLI Date 4-29-69

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

**Do not extend notes this side of this line.**

| Inst. At | Sight On | Time | Angle No | Hor. Angle Deg. | Hor. Angle Min. | For Office Use Only: Range Line Deg. | Range Line Min. | Card No. |
|---|---|---|---|---|---|---|---|---|
| Don't Punch | Don't Punch | Don't Punch | Don't Punch | | | | | |
| | | | 21 | 332 | 06 | | | |
| | | | 22 | 332 | 59 | | | |
| | | | 23 | 333 | 56 | | | |
| | | | 24 | 334 | 34 | | | |
| | | 8:44 | 25 | 334 | 53 | | | |

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red Date Notes Chkd. Date

Division No. SAME

Job No. Notes Date

F. B. 2816 Pg. 244

Survey of

Survey by

Indexed C. L. GALLI

| | |
|---|---|
| Notes Ck'd by | Survey of HYDROGRAPHIC SURVEY |
| Map No. | JN 0000.00 Tape — Std — °F |
| Office Work | Surveyed by RICHARDS |
| Checked | Notes VARRIET Date 4-25-69 |
| Date | Indexed D.L. GALLI APR 29 |

F. B. 2816 PG. 245

TIDE GAGE READINGS
APRIL 25, 1969
DATUM = M.L.L.W.
TIME = P.S.T.

| TIME | TIDE |
|---|---|
| 6:00 | 2.9 |
| 6:30 | 2.7 |
| 7:00 | 2.3 |
| 7:30 | 2.0 |
| 8:00 | 1.6 |
| 8:30 | 1.4 |
| 9:00 | 1.1 |
| 9:30 | 0.8 |
| 10:00 | 0.6 |
| 10:30 | 0.4 |
| 11:00 | 0.4 |
| 11:30 | 0.5 |
| 12:00 | 0.6 |
| 12:30 | 0.8 |
| 1:00 | 1.0 |
| 1:30 | 1.4 |
| 2:00 | 1.7 |

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

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

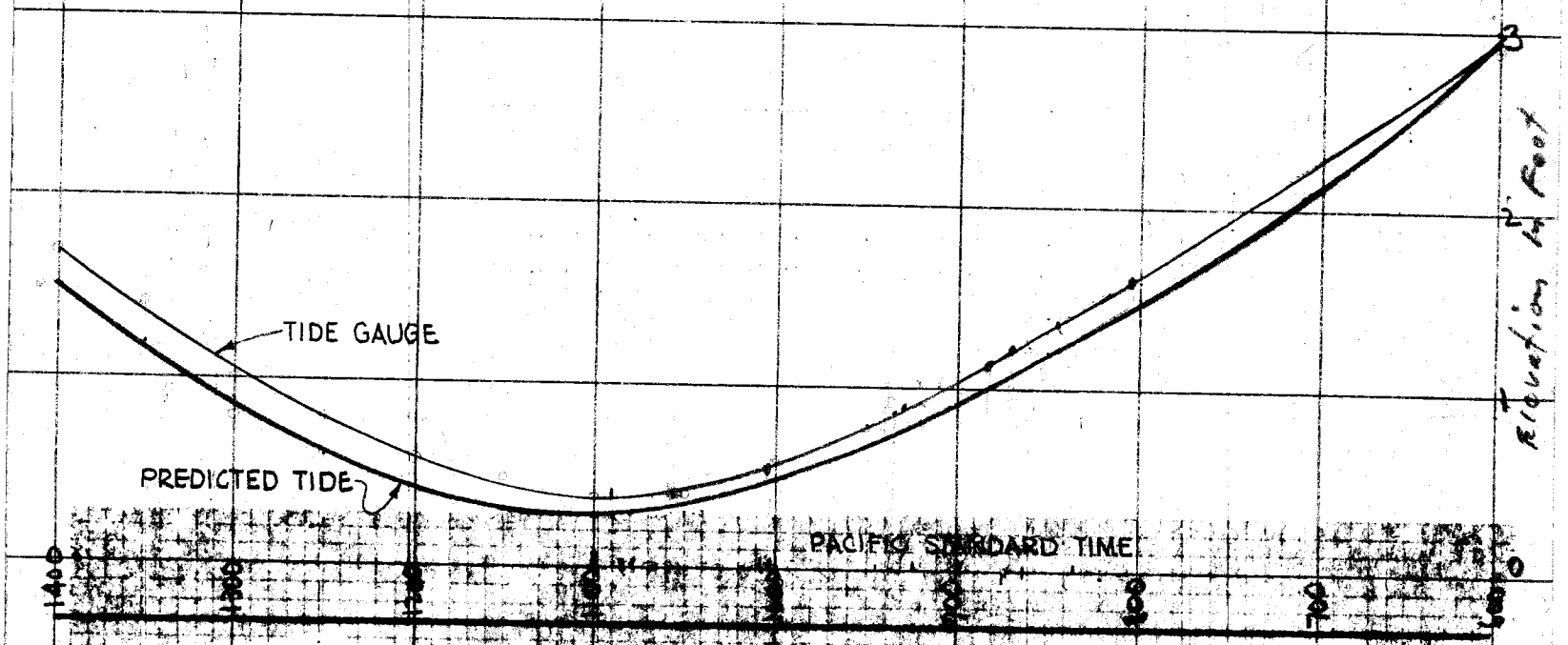
Do not extend this side of this line.

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

76F309S CE#310 3-68

F.B. 2816 Pg. 246

TIDES - APRIL 25, 1969
TIDE GAUGE @ L.A. (OUTER) HARBOR





PLEASE RETURN TO
COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
405 LOS ANGELES COUNTY ENGINEERING BLDG.
Do not extend 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.