Notes Ck'd by	Survey of
Map No.	W. O. Tape No. St'd °F
Office Work	Surveyed by
Checked	Notes Date
Date	Indexed A. C. Johnson 4-18-49

F. B. 4-47 Pg. 5

LONG BEACH SUBSIDENCE
J.N. 4922.

PROPERTY LINE TIES TO GEODETIC CONTROL SYSTEM.

~REFERENCE MAP~

UNION PACIFIC R.R. CO. PROPERTY SURVEY. LOS ANGELES - LONG BEACH HARBOR AREA.
By Francis Bates
1937-1941.

Survey Party:-
G. Hleineck
J. Moore
R. Mitchell
S. Haliscky
H. Raphael
J.T. McBroom
E.T. Mackey, Jr.

Jan.-Feb.-March, 1949.

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

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 5M 11-46

F. B. 937 PG. 6

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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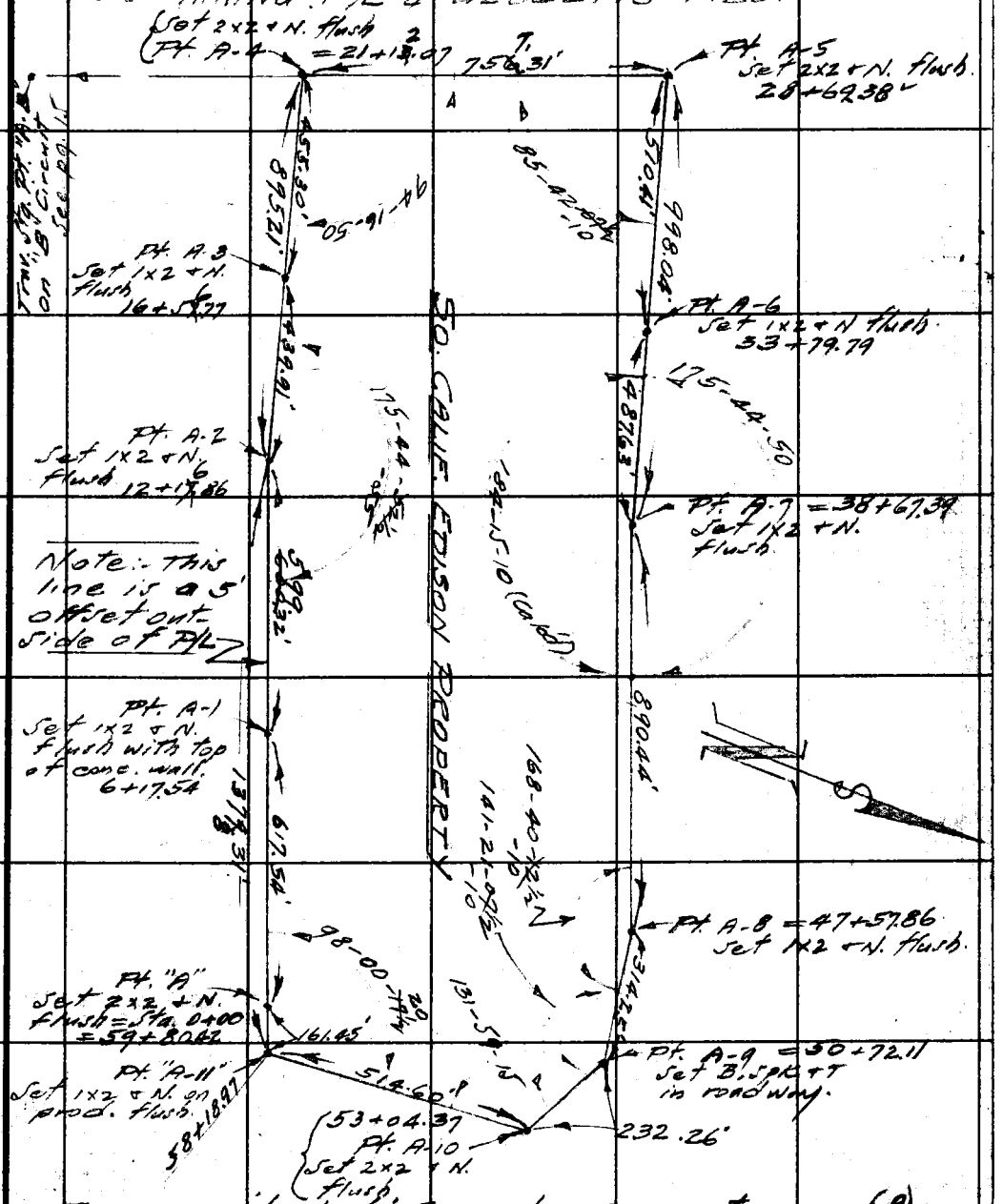
Note: Any Additions or Changes on This Sheet Must Be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of Long B. Subsidence
Map No.	W. O. 4922 Tape No. 56 St'd 84 °F
Office Work	Surveyed by G.W. Kleineck
Checked	Notes G.W.K. Date March-'49
Date	Indexed A. C. Johnson

F. B. 937 PG. 7

TRAVERSE LINE FOR "A" CIRCUIT.
FOR MAKING P/L & GEODETIC TIES.



For meas'd dists & angles see next page (8)

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

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RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 5M 11-46

F.B. 937 PG. 8

Meas'd. dists & Angles on preceding page. (7)

"A" CIRCUIT

For that portion of line from "A-11" to "A-2" see pg. 11.

From "A-2" to "A-3"

200.57'
199.51'
39.90'
439.98' @ 60°
-.07
439.91'

From "A-3" to "A-4"

103.00'
199.69'
152.68'
455.37' @ 60°
-.07
455.30'

From "A-4" to A-5"

240.02'
218.01'
210.72'
87.67'
756.42' @ 62°
-.11
756.31'

From "A-5" to "A-6"

203.59'
104.18'
107.69'
95.01'
510.47' @ 66°
-.06
510.41'

From "A-6" to "A-7"

206.12'
200.66'
80.91
487.69' @ 66°
-.06
487.63'

From "A-7" to "A-8"

198.07'
196.76
204.55'
204.60'
86.56
890.54' @ 66°
-.10
890.44'

From "A-8" to "A-9"

191.11
123.18
314.29 @ 64°
-.04
314.25'

From "A-9" to "A-10"

132.69' @ 3°20' @ 66' = 132.46'
132.80 @ 4°00' @ " = 132.47'
Av. = 132.47'
-.02
132.45'

99.81' (level) @ 66° = 99.81'
232.26'

From "A-10" to "A-11"

48.37
191.19'
182.66'
92.45'
514.67' @ 62°
-.07
514.60'

Cont'd on page 9

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS
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 Long B. Subsidence
Map No.	W. O. 4922 Tape No. 56 St'd 84 °F
Office Work	Surveyed by G. W. Kleinack
Checked	Notes GWK Date 3/16, 17/49
Date	Indexed A. C. Johnson

F. B. 934 PG. 9

"A" CIRCUIT

Measured Angles On Page 7

∡ at "A-2"
(2) 351-29-45
175-44-52½
(4) 342-59-30
(6) 334-29-15
175-44-52½ ✓

∡ at "A-4"
(2) 188-33-45
94-16-52½
(4) 17-07-15
(6) 205-41-00
94-16-50 ✓

∡ at "A-5"
(2) 171-24-15
85-42-07½
(4) 342-48-30
(6) 154-12-45
85-42-07½ ✓

∡ at "A-7"
(2) 351-29-45
175-44-52½
(4) 342-59-15
(6) 334-29-00
175-44-50 ✓

∡ at "A-8"
(2) 337-20-15
168-40-07½
(4) 314-40-45
(6) 292-01-15
168-40-12½ ✓

∡ at "A-9"
(2) 282-42-15
141-21-07½
(4) 205-24-30
(6) 128-06-45
141-21-07½ ✓

∡ at "A-10"
(2) 263-58-30
131-59-15
(4) 167-57-00
(6) 71-55-30
131-59-15 ✓

∡ at "A-11"
(2) 196-00-30
98-00-15
(4) 32-01-15
(6) 228-01-45
98-00-17½ ✓

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

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 5M 11-46

F. B. 937 Pg. 10

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 Long B. Subsidence
Map No.	W. O. 4922 Tape No. 56 St'd 84°F
Office Work	Surveyed by G.W. Klemeck
Checked	Notes GWK Date 3-5-49
Date	Indexed A. C. Johnson

F. B. 937 Pg. 11

Contd at bot. pg. 12 on rt. side

P/L & Geod Ties "A" CIRCUIT

(2) 118-39-30
(4) 237-19-30
(6) 355-59-00
59-19-50 ✓

(2) 199-29-15
(4) 38-58-30
(6) 238-27-45
99-44-37½ ✓
40

(2) 351-29-45
175-44-52½
(4) 342-59-30
(6) 334-29-15
175-44-52½ ✓

Pt. "A-2" Set 1x2 + N. 12+17.86

Transit 5' Offset Line

Sta. "BUN" (U.S.C. + G.S.)

161.46' @ 72° = 161.45'

Pt. "A-1" Set 1x2 + N. 6+17.54

99°44'40"

Sta. "DEE" (U.S.C. + G.S.)

59°19'50"

411.30'

Pt. "A" = 0+00 Set 2x2 + N. flush

P.L. #278 (Br. tablet in conc)

P/L #280 (Br. tab. in conc)

Calif. Edison P/L Mon.

P/L #279 (Br. tablet in conc)

Pt. "A-11" Set 1x2 + N2 flush. (See pg. 7)

73.95'
199.46'
215.68'
128.48'
617.57 @ 76°
= 617.54 ✓

203.30'
204.81'
192.25'
600.36 @ 74°
599
= 599.32 ✓
185.61
100.50
125.22
411.33 @ 72° = 411.30

4.99'
5.01'
5.01'
5.07'
5.00'
10.02'
161.45'
617.54'
80°
175-44-55

12+23.08 P.L. #282 (Br. tab. in conc)
12+17.62 L.T. at ℄ Pt. in 6"x6" conc post
12+17.70 P.L. #281 = (brass tablet in conc)

CALIF. EDISON CO. POWER PLANT

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

Do not extend notes this side of this line.

RETURN TO LOS ANGELES COUNTY SURVEYOR 700 HALL OF RECORDS

FORM 247 5M 11-46

F. B. 997 PG. 12

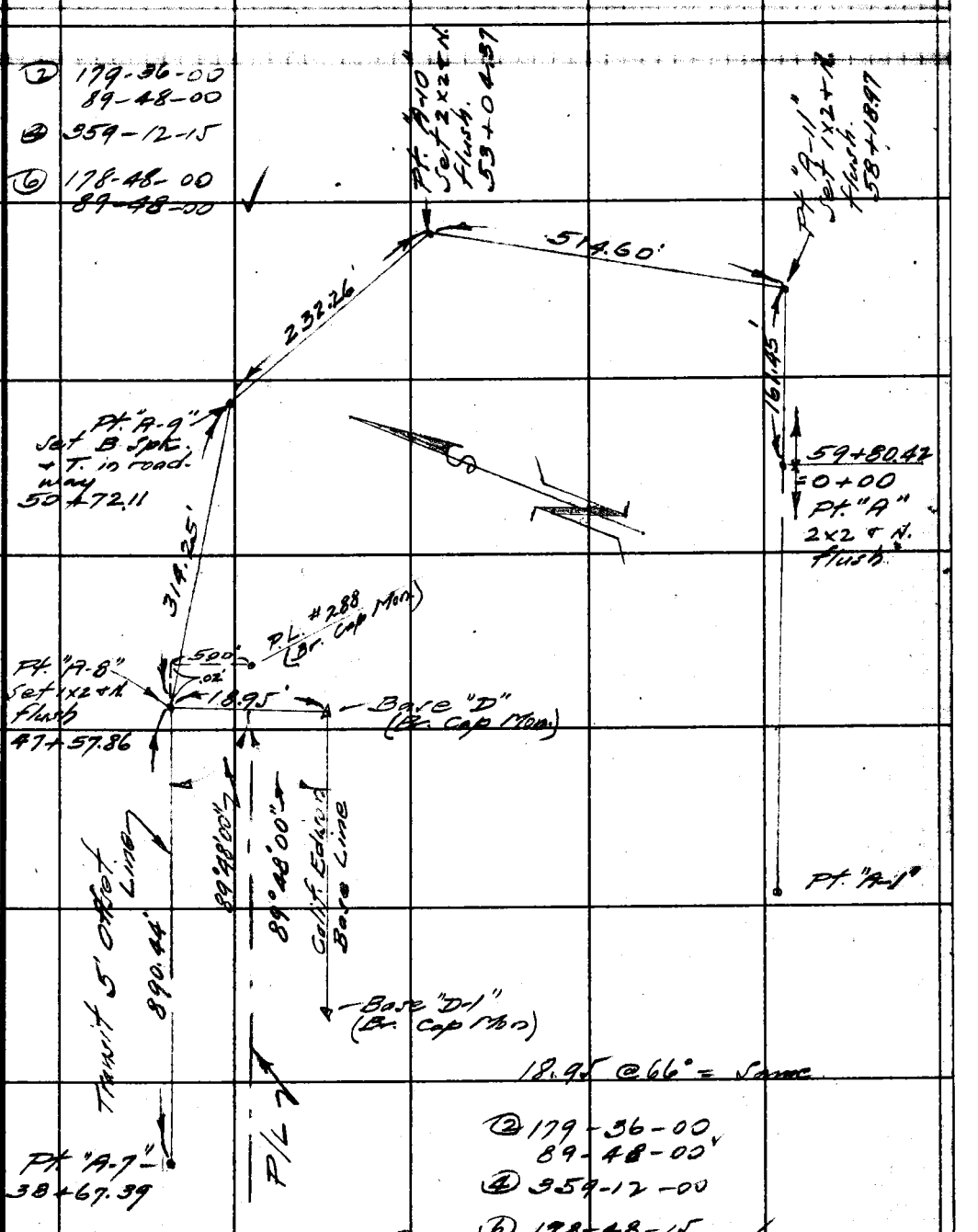
RETURN TO
LOS ANGELES COUNTY SURVEYOR
TOO HALL OF RECORDS

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 Long B Subsidence
Map No.	W. O. 49-2 Tape No. 56 St'd 44 °F
Office Work	Surveyed by G. W. Kleineck
Checked	Notes G. W. K. Date 3-17-49
Date	Indexed A. C. Johnson

F. B. 937 Pg. 13



Contd from top of pg. 12.

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

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 5M 11-46

F. B. 937 PG. 14

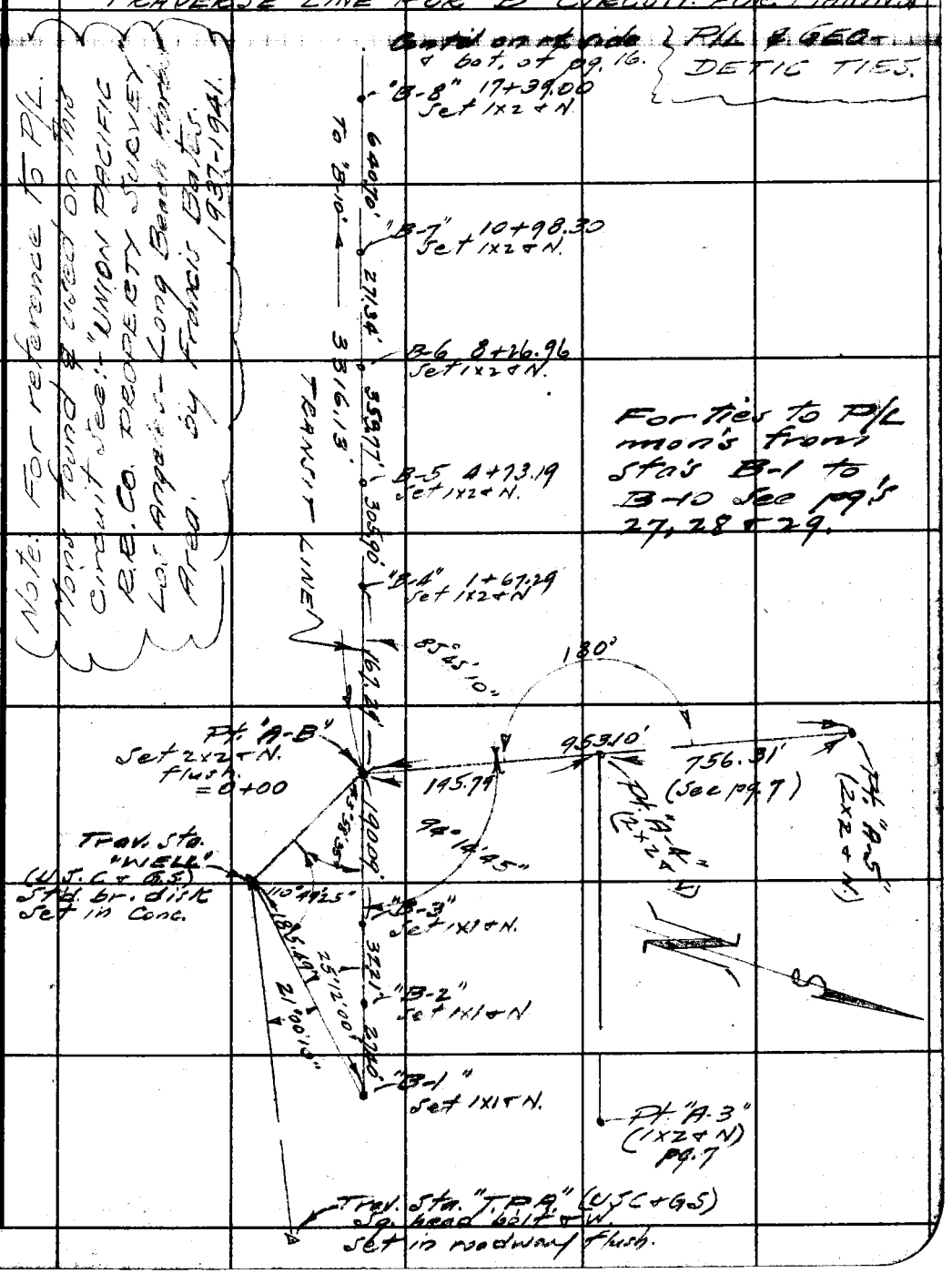
RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 Long B. Subsidiary	F. B. 937 Pg. 15
Map No.	W. O. 8922 Tape No. 56' St'd 84 °F	
Office Work	Surveyed by G.W.K. Kleineck	
Checked	Notes G.W.K. Date 3/16-18/49	
Date	Indexed A. C. Johnson	

TRAVERSE LINE FOR "B" CIRCUIT FOR MAKING P/L & GEODETIC TIES.



(Note: For reference to P/L. Mons found & used on this circuit see: "UNION PACIFIC R.R. Co. PROPERTY SURVEY" Los Angeles - Long Beach Harbor Area. by Francis Bates. 1937-1941.

For ties to P/L mon's from sta's B-1 to B-10 See pg's 27, 28 & 29.

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

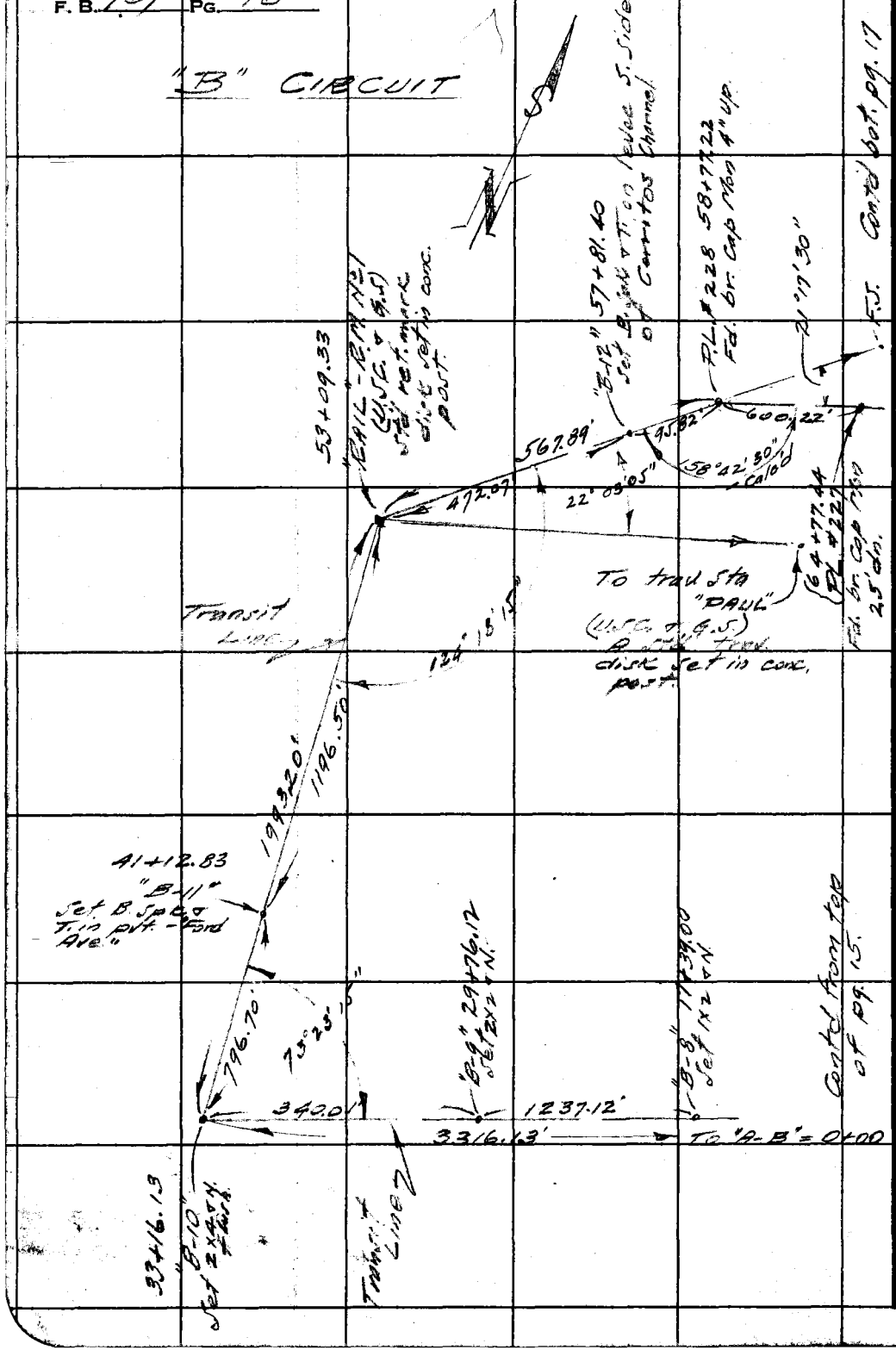
Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 5M 11-46

F. B. 937 PG. 16

"B" CIRCUIT



RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

Do not extend notes this side of this line.

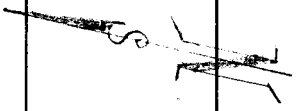
Note: Any Additions or Changes on This Sheet Must Be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of [illegible]
Map No.	W. O. 4922 Tape No. 56 St'd 84°F
Office Work	Surveyed by G. W. Kleinecke
Checked	Notes G.W.K. Date 3/21/23/49
Date	Indexed A. C. Johnson

F. B. 937 PG. 17

Cont'd at top of pg. 16

"B" CIRCUIT



0.39'

79+41.14
P.L. #224
Fd. L+T. in conc. floor of oil well derrick over Mon.

388.31'

75+52.83
B-14
Set 2X3 + N. flush

438.04'

71+14.79
"B-13"
Set 2X3 + N flush

202.56

69+12.23 0.06'
P.L. #226
Fd. br. cap
Mon. dn. 1'

Transit Line

434.79'

64+77.44
P.L. #227
Fd. br. cap
Mon. dn 2.5'

600.22'

58+77.22
P.L. #228
Fd. br. cap
Mon. 6" up.

Note: No P/L ties between Pt. B-10, pg. 29 & Pt. B-12, pg. 16

Cont'd from top of pg. 16.

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

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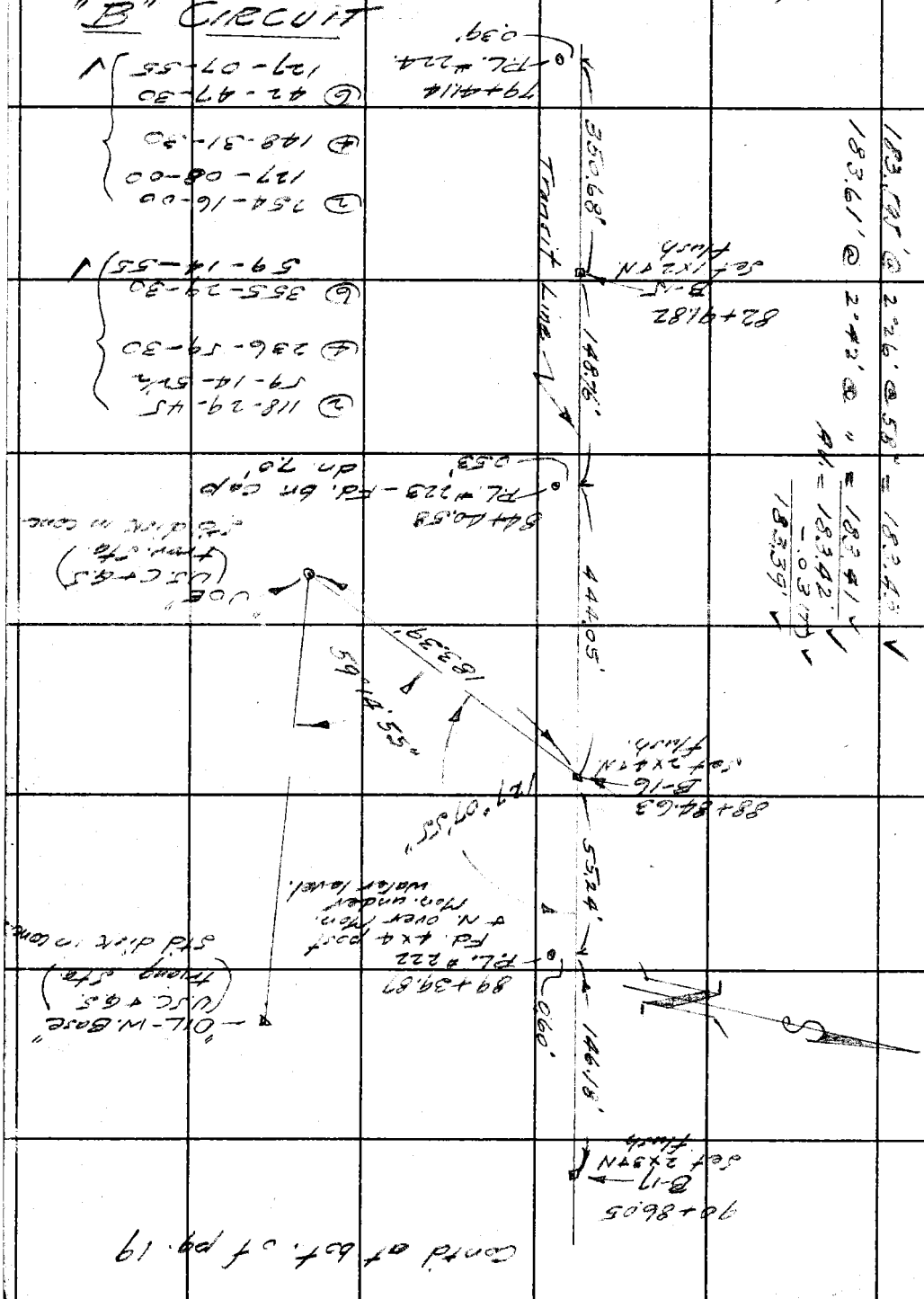
RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 5M 11-46

F. B. 937 PG. 18

Contd from top of pg. 17

"B" CIRCUIT



183.585' @ 2°26' @ 58" = 183.45'
183.61' @ 2°42' @ " = 183.41'
Av. = 183.42'
-.03 (7)
183.39'

Contd at bot. of pg. 19

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

Do not extend notes this side of this line.

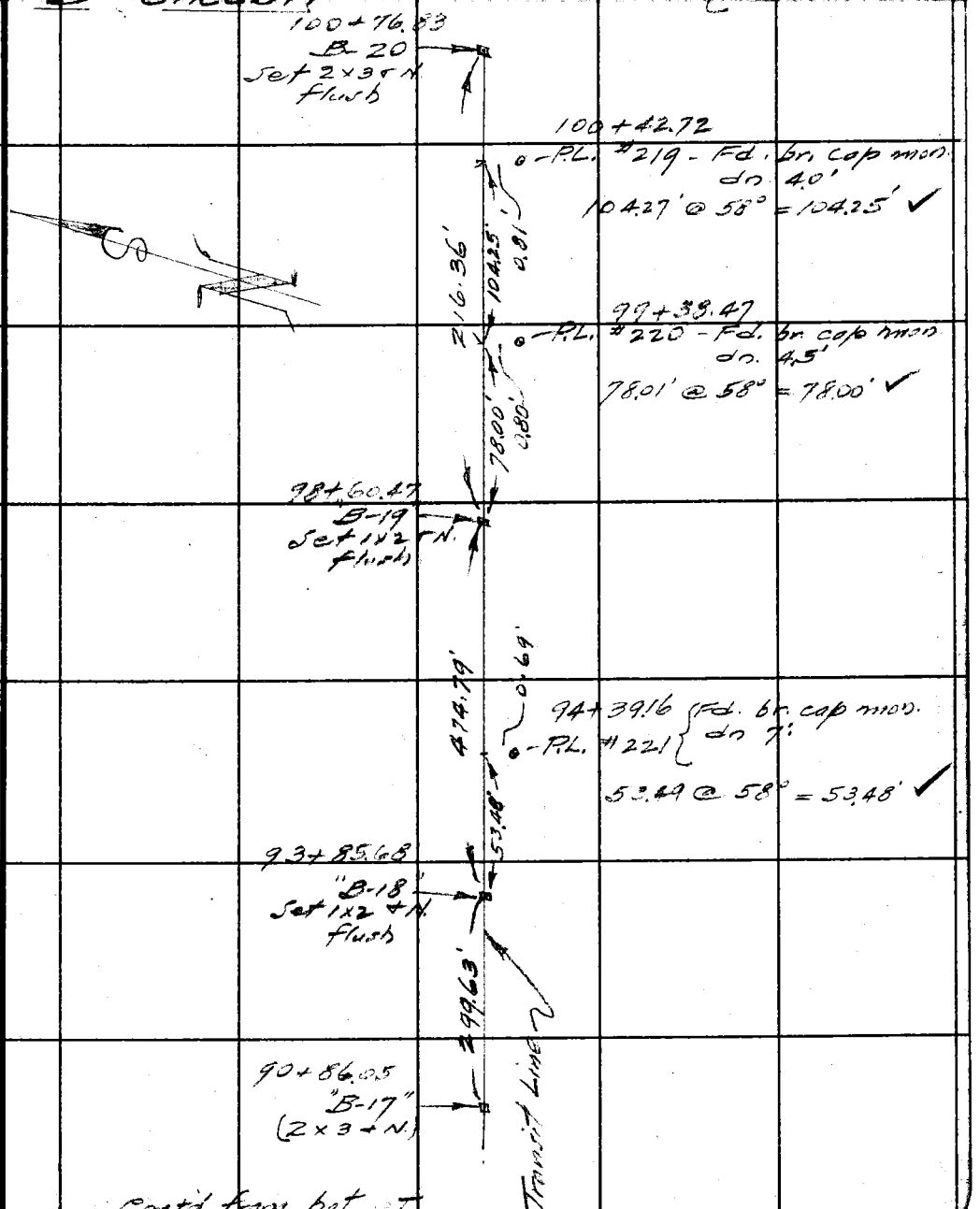
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of [illegible]
Map No.	W. O. 4922 Tape No. 56 St'd 84 °F
Office Work	Surveyed by G.W. Mleineck
Checked	Notes G.W.K. Date 3-23-49
Date	Indexed A. C. Johnson

F. B. 9.37 Pg. 19

Cont'd at top of pg. 20 (Left side)

"B" CIRCUIT



Cont'd from bot of pg. 18

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

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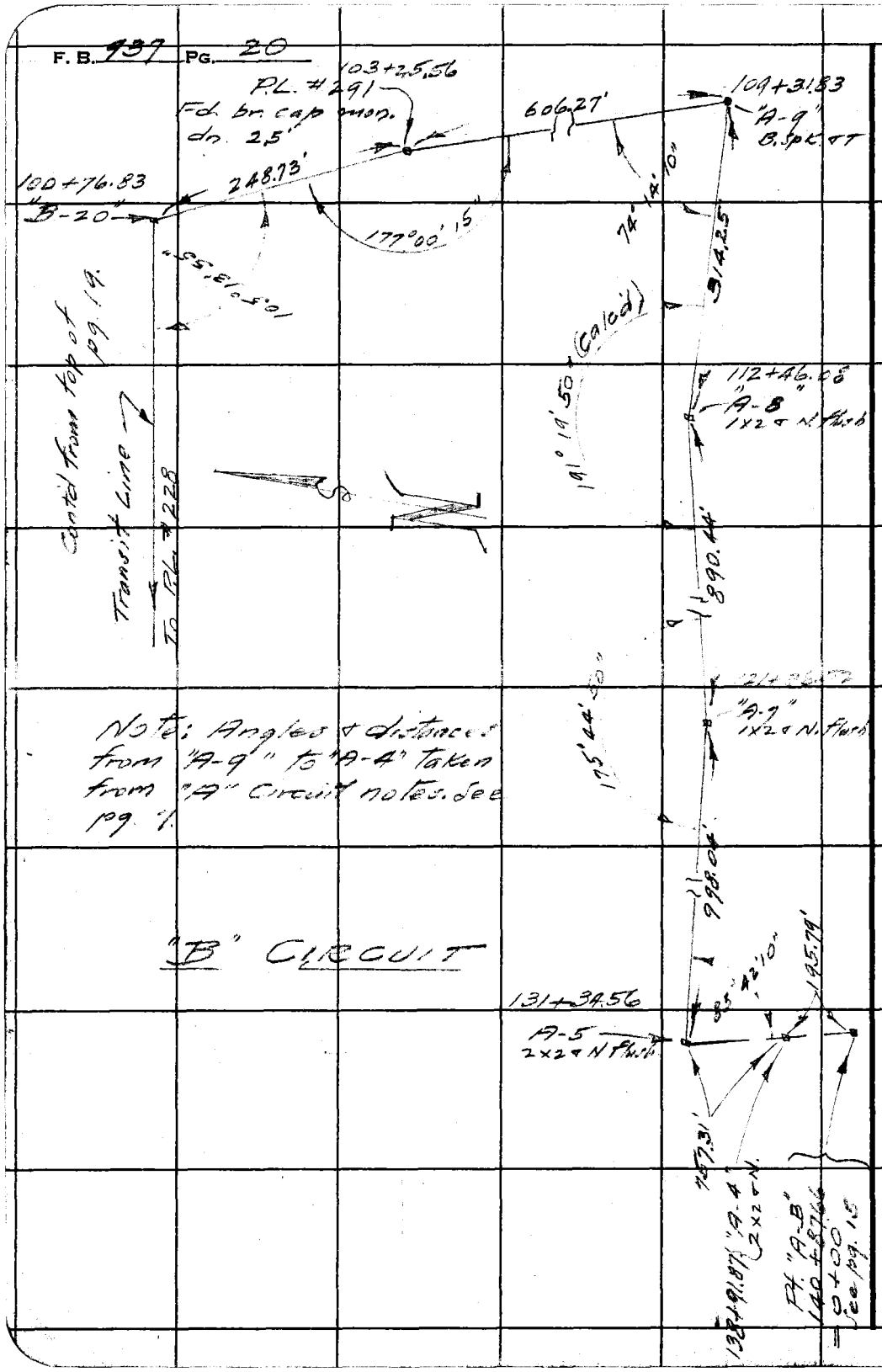
RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 5M 11-46

F. B. 937 Pg. 20



RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS
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 [illegible]	F. B. 937 Pg. 21
Map No.	W. O. 4922 Tape No. 56 St'd 84 °F	
Office Work	Surveyed by G.W. Klaineck	
Checked	Notes GWK Date 3(17-23)49	
Date	Indexed A. C. Johnson	

MEASURED ANGLES ON "B" CIRCUIT

At "A-B"
"B-10" to "A-5"

(2) 171-30-15
85-45-07½
(4) 343-00-30
(6) 154-30-45
85-45-07½ ✓

At "A-B"
"A-5" to "B-1"

(2) 188-29-30
94-14-45
(4) 16-59-00
(6) 205-28-30
94-14-45 ✓

At "A-B"
"B-1" to Δ "WELL" (U.S.C. & G.S.)

(2) 87-57-00
43-58-30
(4) 175-54-15
(6) 263-51-00
43-58-30 ✓

At "B-1"
Δ "WELL" (U.S.C. & G.S.) to "A-B"

(2) 50-24-00
25-12-00
(4) 100-47-45
(6) 151-11-30
25-11-55 ✓

At Δ WELL (U.S.C. & G.S.)
"A-B" to "B-1"

(2) 221-35-45
110-49-22½
(4) 83-17-30
(6) 304-56-15
110-49-22½ ✓

At Δ "WELL"
"B-1" to T.P.A. (U.S.C. & G.S. Trav. Sta.)

(2) 42-00-15
21-00-07½
(4) 84-00-45
(6) 126-01-00
21-00-10 ✓

At "B-10"
Δ "RAIL-R.M. #1" (U.S.C. & G.S. Trav. Sta.) to "A-B"

(2) 146-46-30
73-23-15
(4) 293-33-00
(6) 80-19-30
73-23-15 ✓

At "Rail-R.M. #1"
R.L. #228 to "B-10"

(2) 248-36-15
124-18-07½
(4) 137-13-00
(6) 25-49-15
124-18-12½ ✓

Cont'd on pg. 22

Note: Any Additions or Changes on This Sheet Must Be Made or Circled in Red Ink With Date and Name of Person Making Change.
Do not extend notes this side of this line.
RETURN TO LOS ANGELES COUNTY SURVEYOR 700 HALL OF RECORDS
FORM 247 5M 11-46

F. B. 937 PG. 22

Cont'd from bot. pg. 21

At "Rail-RM.#1"
P.L. #228 to "PAUL" (U.S.C. & G.S. Trav. Sta.)

(2) 44-06-15
22-03-07½
(4) 88-12-15(+)
(6) 132-18-30
22-03-05 ✓

At P.L. #228
From prod. of back tang. to "B-20"

(2) 42-35-00
21-17-30
(4) 85-10-00
(6) 127-44-45
21-17-27½ ✓

At "B-20"
P.L. #291 to P.L. #228

(2) 210-28-00
105-14-00
(4) 60-55-30
(6) 271-23-15
105-12-52½ ✓

At P.L. #291
From prod. of back tang. to "A-9"

(2) 5°59-30
2-59-45
(4) 11-59-00
(6) 17-58-30
02-59-45 ✓

For angles at "A-8", "A-7" & "A-5" see "A" Circuit notes pages 7 & 9.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS
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 L. Beach Subsidence
Map No.	W. O. 4922 Tape No. 56 St'd 84 °F
Office Work	Surveyed by G.W. Kleineck
Checked	Notes G.W.K. Date 3/17-31/44
Date	Indexed A. C. Johnson

F. B. 937 Pg. 23

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

Do not extend notes this side of this line.

RETURN TO LOS ANGELES COUNTY SURVEYOR 700 HALL OF RECORDS

FORM 247 5M 11-46

MEASURED ~~[illegible]~~ & DISTANCES ON "B" CIRCUIT.

"A-B" To "A-4" ("A" circuit)
195.81' @ 68° = 195.79'

"A-B" To "B-3" 190.11' @ 66° = 190.09' ✓
"B-3" " "B-2" 32.21' @ " = Same ✓
"B-2" " "B-1" 29.40' @ " = " ✓
"B-1" " "WELL" (Trav. Sta) 185.52' @ 60° = 185.49' ✓
"A-B" " "B-4" 167.31' @ 66° = 167.29' ✓

"B-4" " "B-5"
40.63'
81.86'
119.04'
59.98'
4.42
305.93 @ 66°
= 305.92 89 ✓ H.N.E.

"B-5" To "B-6"
205.40'
148.40'
353.80 @ 70°
= 353.77' ✓

"B-6" to B-7"
7.27'
182.95
81.15
271.37 ✓ @ 66°
= 271.34' ✓

"B-7" to "B-8"
30.14'
206.80
208.80
195.06
640.80 ✓ @ 60°
= 640.70' ✓

"B-8" to "B-9"
49.31'
229.73'
114.94'
178.91'
76.54
237.84
199.98
142.11
7.82
1237.18 ✓ @ 76°
= 1237.12 ✓

"B-9" To "B-10"
44.23'
41.66'
193.01'
61.13
340.03 @ 76°
= 340.01' ✓

Contd on next page (24)

F. B. 937 PG. 24

Cont'd from pg. 23. "B" CIRCUIT

"B-10" to "B-11"

160.91'
185.16'
146.50'
156.16
148.22
796.75 @ 74°
= 796.70' ✓

"B-11" to "RAIL-R.M. #1"

181.93
200.67
204.05
222.20
189.80
199.96
1196.61 @ 76°
= 1196.50' ✓ HHR

"RAIL" R.M. N°1 to "B-12"

205.95 @ 3°20' @ 70° = 205.60 ✓
205.86 @ 2°46' @ " = 205.60' ✓
AV. = 205.61' ✓
− .02 T. ✓
205.59' ✓

244.18'
22.37
266.55 @ 70° = 266.48' ✓
+ 205.59 ✓
472.07' ✓

"B-12" to P.L. #228

96.975' @ 8°49' @ 70° = 95.83' ✓
96.745' @ 7°52' @ " = 95.83 ✓
AV. = 95.83' ✓
− .01 (T) ✓
95.82' ✓

P.L. #228 to P.L. #227

205.77'
180.28'
214.22'
600.27 ✓ @ 72° = 600.22' ✓

P.L. #227 to P.L. #226

43.71'
288.20'
102.91
434.82 ✓ @ 72°
= 434.79' ✓

Cont'd at top of page 25

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS
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 [illegible]
Map No.	W. O. 4922 Tape No. 56 St'd 84 °F
Office Work	Surveyed by G.W. Kleineck
Checked	Notes G.W.K. Date 3/17/23/49
Date	Indexed A. C. Johnson

F. B. 937 Pg. 25

Notes Cont'd from 2nd pg. 24

"B" CIRCUIT

P.L. #226 To "B-13"

100.75' @ 7°29' @ 70° = 99.89'
100.58' @ 6°42' @ " = 99.89'
AV. = 99.89'

Note:- These measurements made with 100' Tape #079 Std @ 68°.

98.74' (level) @ 70°
3.93
102.67 + 99.89 = 202.56'

"B-13" to "B-14"

170.35'
204.75'
63.00'
438.10 @ 64°
= 438.04'

"B-14" To P.L. #224

169.84
199.00
19.52
388.36 @ 64°
= 388.31'

P.L. #224 to "B-15"

150.11'
200.62'
350.73 @ 64°
= 350.68'

"B-15" to P.L. #223

148.78' @ 64°
= 148.76

P.L. #223 To "B-16"

15.94'
234.52
53.26
140.39
444.11 @ 64°
= 444.05'

"B-16" To P.L. #222

55.25' @ 64°
= 55.24'

P.L. #222 to "B-17"

146.20 @ 58°
= 146.18'

Notes Cont'd top of pg. 26

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

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 5M 11-46

F. B. 937 PG. 26

Notes Contd from bot. pg. 25

"B-17" to "B-18"

299.68' @ 58°

= 299.63' ✓ H.H.K.

"B-18" to "B-19"

296.65'

87.32'

120.90'

474.87' @ 58°

= 474.79' ✓

"B-19" to "B-20"

216.40' @ 58°

= 216.36' ✓

B-20 to P.L. #291

248.77' @ 58°

= 248.73' ✓

P.L. #291 to "A-9"

41.80'

199.84'

202.96'

161.74'

606.36' @ 60°

= 606.27' ✓

Note: For distances between points A-9, A-8, A-7, A-5 + A-4 see "A" Circuit pages 7 + 8

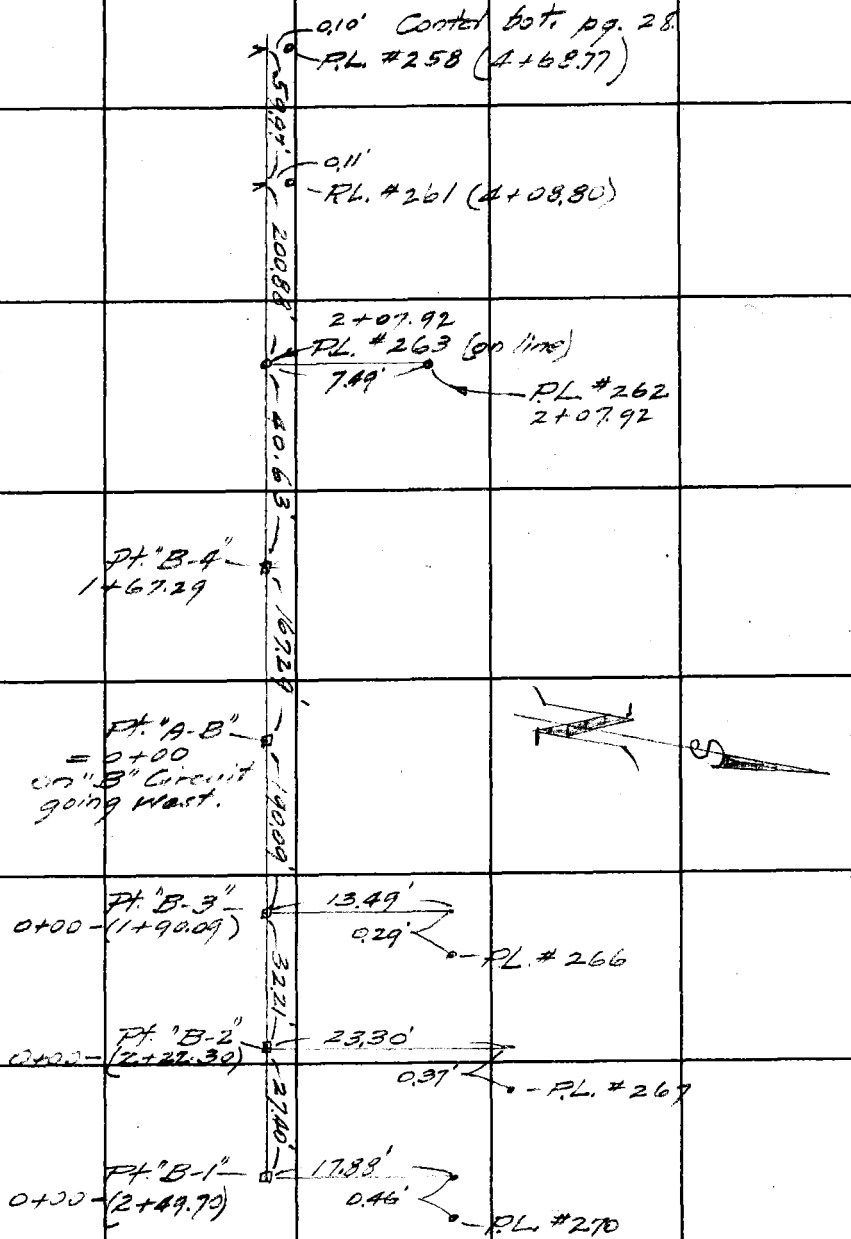
RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 [illegible]	F. B. 937 Pg. 24
Map No.	W. O. 4922 Tape No. 56 St'd 84 °F	
Office Work	Surveyed by G.W. Kleniecki	
Checked	Notes GWK Date 3/17-18/49	
Date	Indexed R. C. Johnson	

Property Line Monument Ties To "B"
Traverse Line From Pt. "A-B" To Pt. "B-10"



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

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 5M 11-46

F. B. 937 Pg. 28

"B" CIRCUIT

Cont'd bot. pg. 29

17+39.00
Pt. "B-8"

10.66'

0.12'
P.L. #255 (17+28.34)

59.90'

0.12'
P.L. #253 (11+28.44)

30.14'

10+98.30
Pt. "B-7"

23.80'

0.12'
P.L. #255 (10+60.50)

2.34.27'

0.13'
P.L. #257 (8+34.23)

7.27'

8+26.96
Pt. "B-6"

35.37.77'

4+73.19
Pt. "B-5"

4.42'

0.10'
P.L. #258 (4+68.77)

cont'd from top pg. 27

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 L. Beach [illegible]
Map No.	W. O. 4922 Tape No. 56 St'd 84 °F
Office Work	Surveyed by G.W. Kleineck
Checked	Notes G.W.K. Date 3-18-49
Date	Indexed A. C. Johnson

F. B. 4-39 PG. 24

"B" CIRCUIT

Other P/L ties begin on pg. 17.

Pt "B-10"

61.13'

P.L. #235 (32+55.00)

278.88'

29+76.12
Pt. "B-9"
2x2 + N.

587.72'

0.46'

59.99'

P.L. #243
24+48.38

This mon. shows evidence of having been moved

P.L. #245 (on line)
23+88.40

P.L. #244
23+88.41

7.50'

.01'

600.09'

0.11' P.L. #248 (17+88.31)

P.L. #249 (17+88.29)

49.31'

49.29'

Pt. "B-8"
17+39.00

7.62'

Notes cont'd from top of pg. 28

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

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 5M 11-46

F. B. 137 PG. 30

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

Do not extend notes this side of this line.

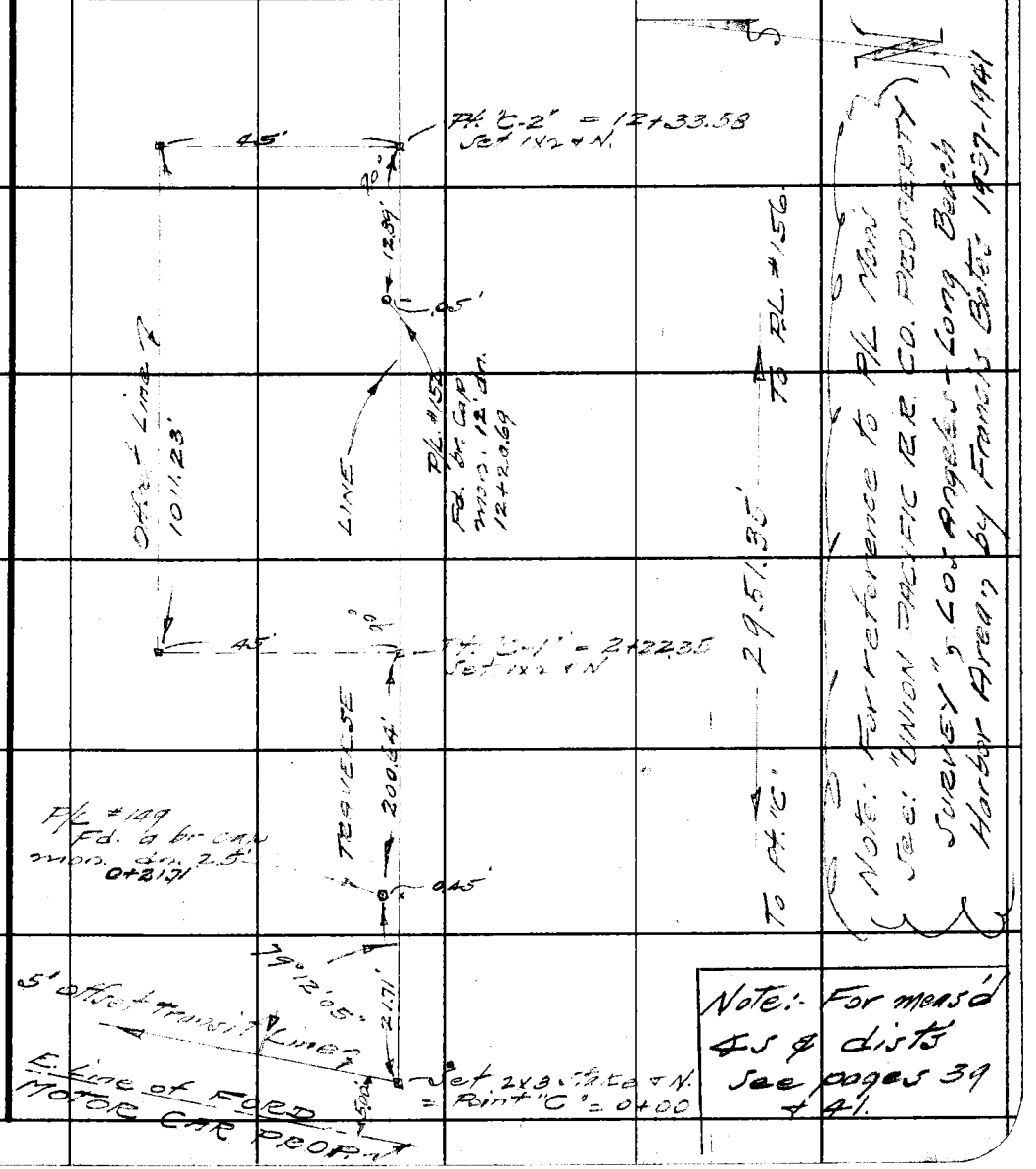
Note: Any Additions or Changes on This Sheet Must Be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of [illegible]
Map No.	W. O. 4721 Tape No. 56 St'd 84 °F
Office Work	Surveyed by G.W. Tennick
Checked	Notes GWK Date 3/25/1949
Date	Indexed A. C. Johnson

F. B. 439 Pg. 31

TRAVERSE LINE FOR "C" CIRCUIT & PROPERTY LINE TIES TO GEOD. CONTROL SYSTEM.

Cont'd at bot. pg. 32



Note: For meas'd ∠s & dist's see pages 39 & 41.

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

Do not extend notes this side of this line.

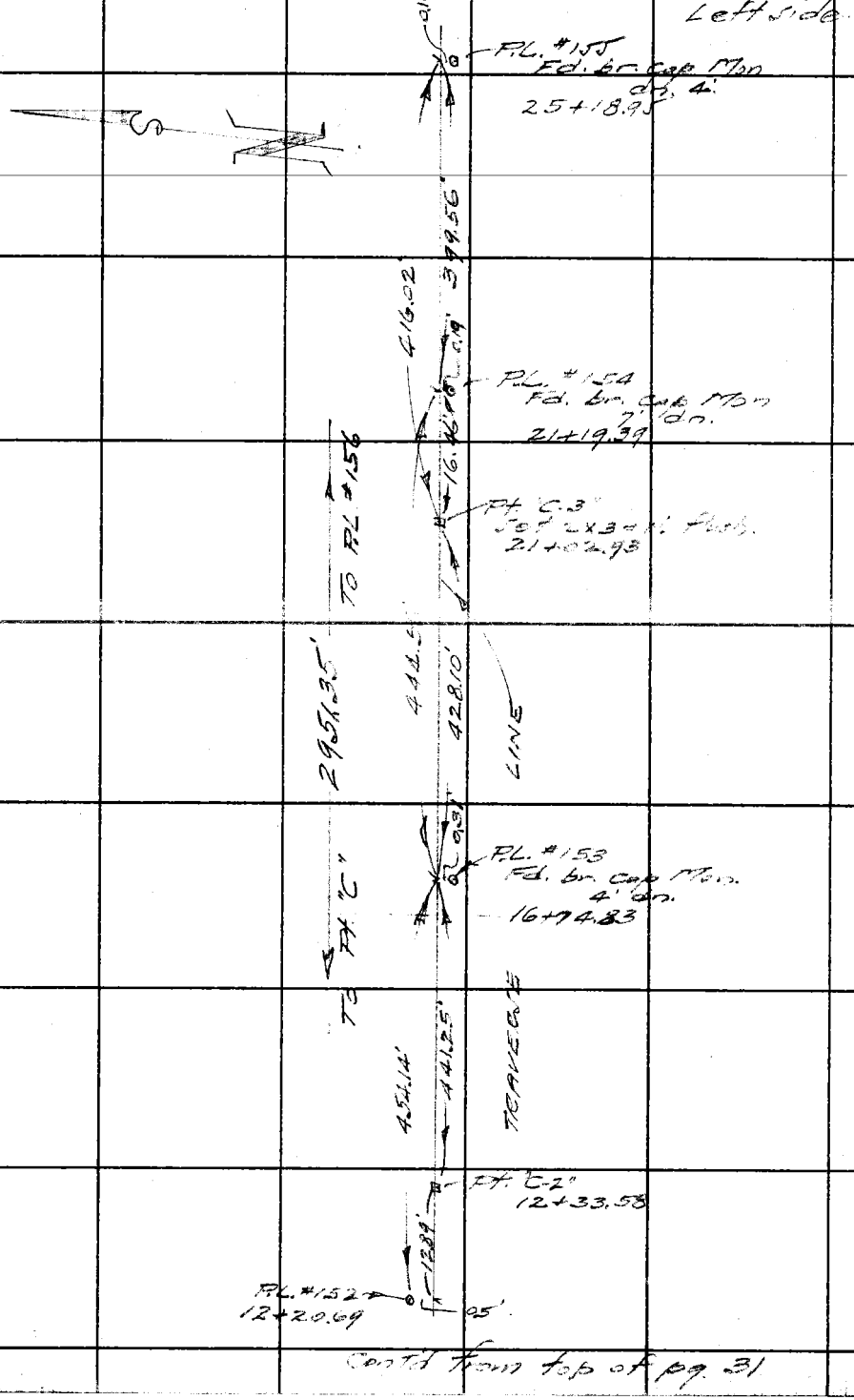
RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 5M 11-46

F. B. 937 PG. 32

"C" CIRCUIT

Cont'd at bot. pg. 33 Left side.

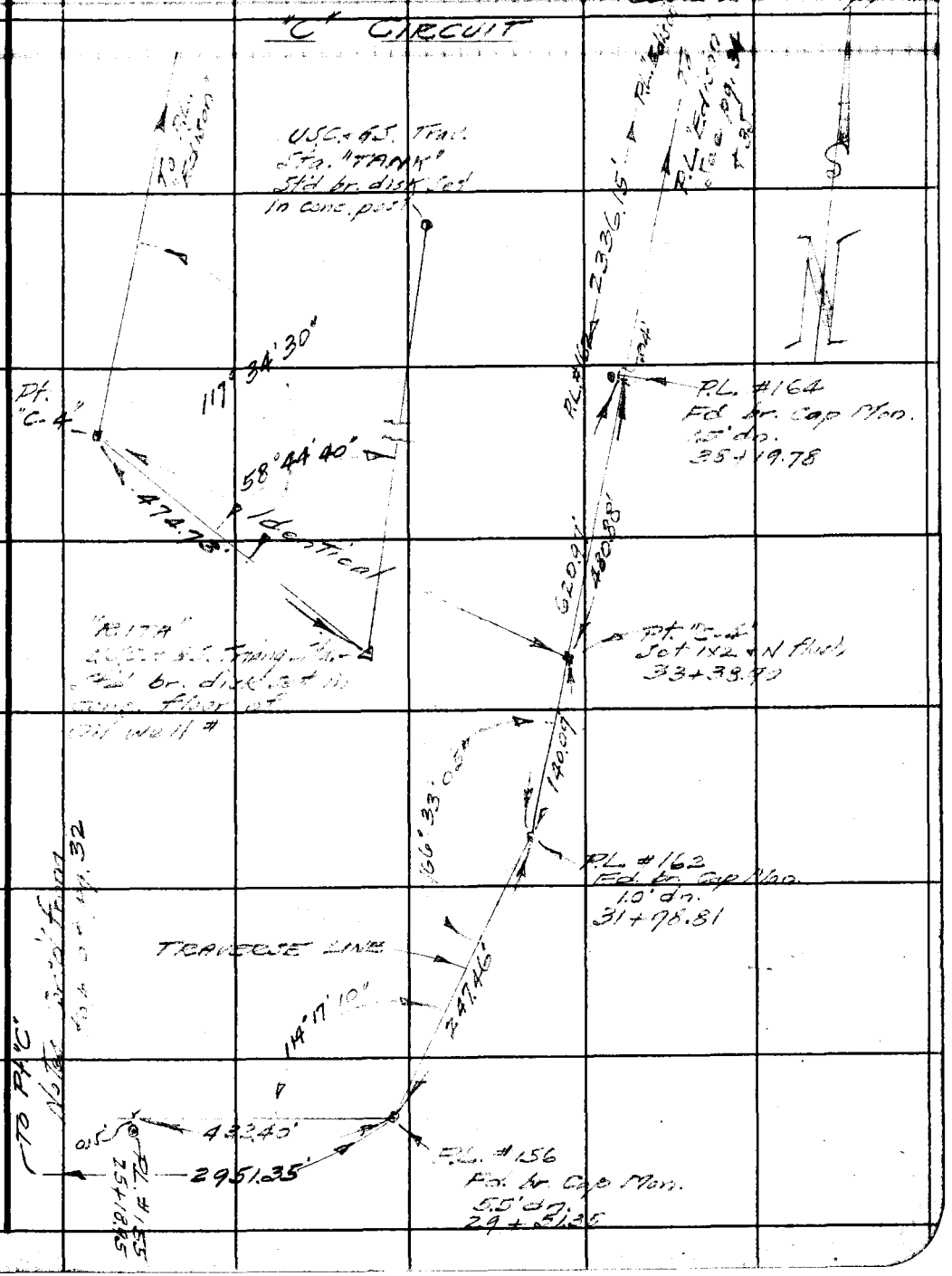


Cont'd from top of pg. 31

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS
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
Map No.	W. O. 4772 Tape No. 56 St'd 54 °F
Office Work	Surveyed by G. W. Klemeck
Checked	Notes G.W.K. Date 3/25-30/49
Date	Indexed A. C. Johnson

F. B. 931 Pg. 33



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

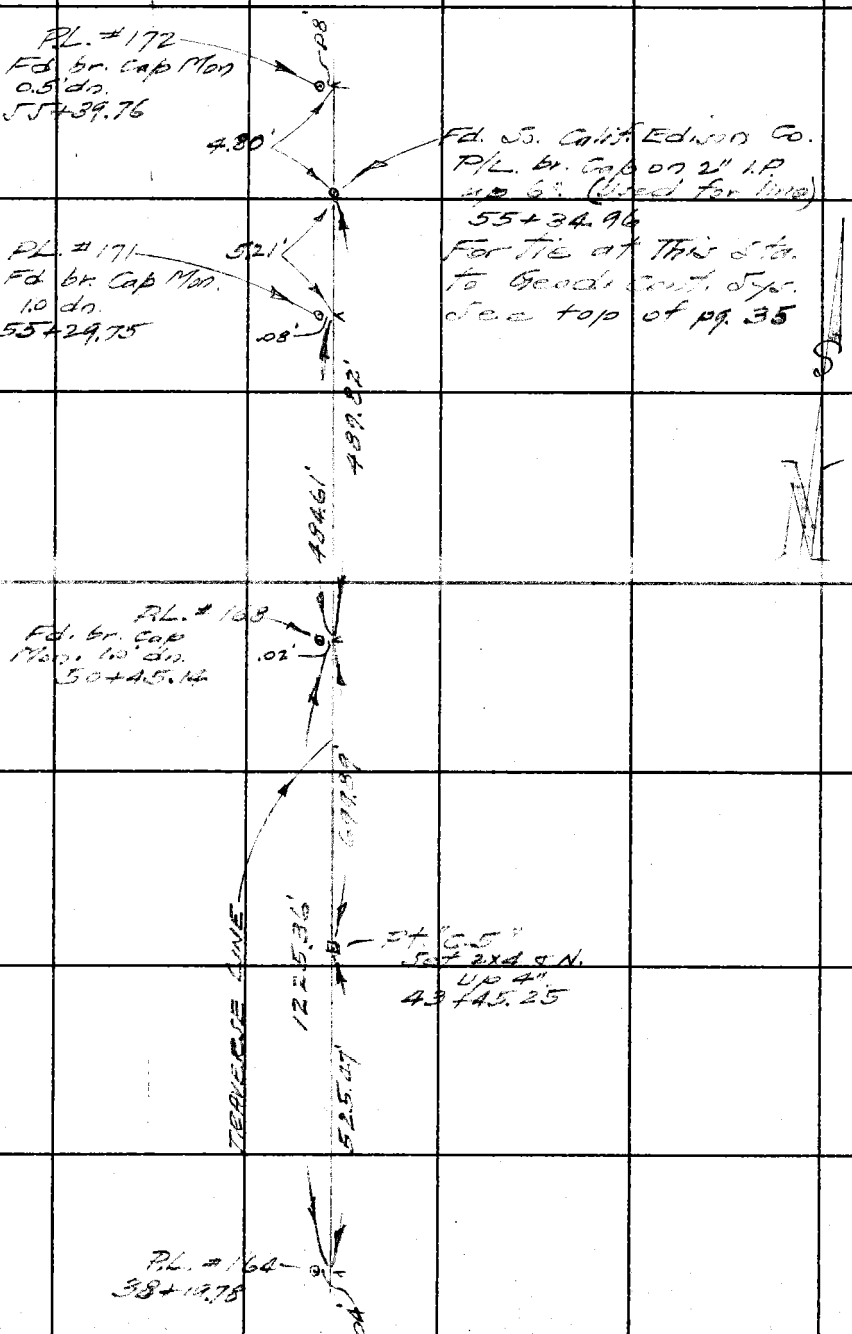
Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 5M 11-46

F. B. 937 Pg. 34

"C" CIRCUIT



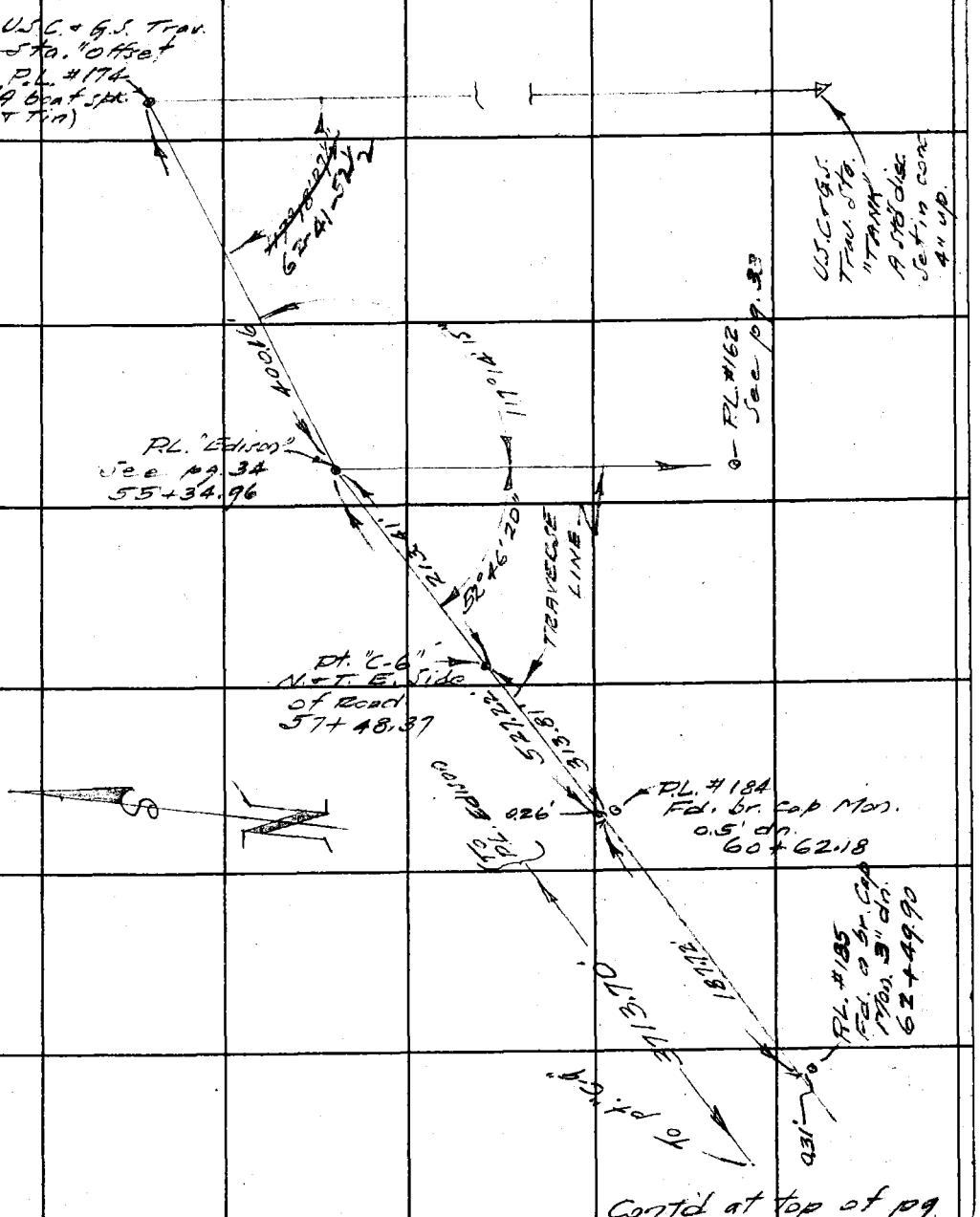
Contd from top of pg. 33

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS
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 L. Beach Subsidence
Map No.	W. O. 4922 Tape No. 56 St'd 84 °F
Office Work	Surveyed by G.W. Klemick
Checked	Notes GWK Date 3/25-30/79
Date	Indexed A. C. Johnson

F. B. [illegible] PG. 35

"C" CIRCUIT



Cont'd at top of pg. 36

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

Do not extend notes this side of this line.

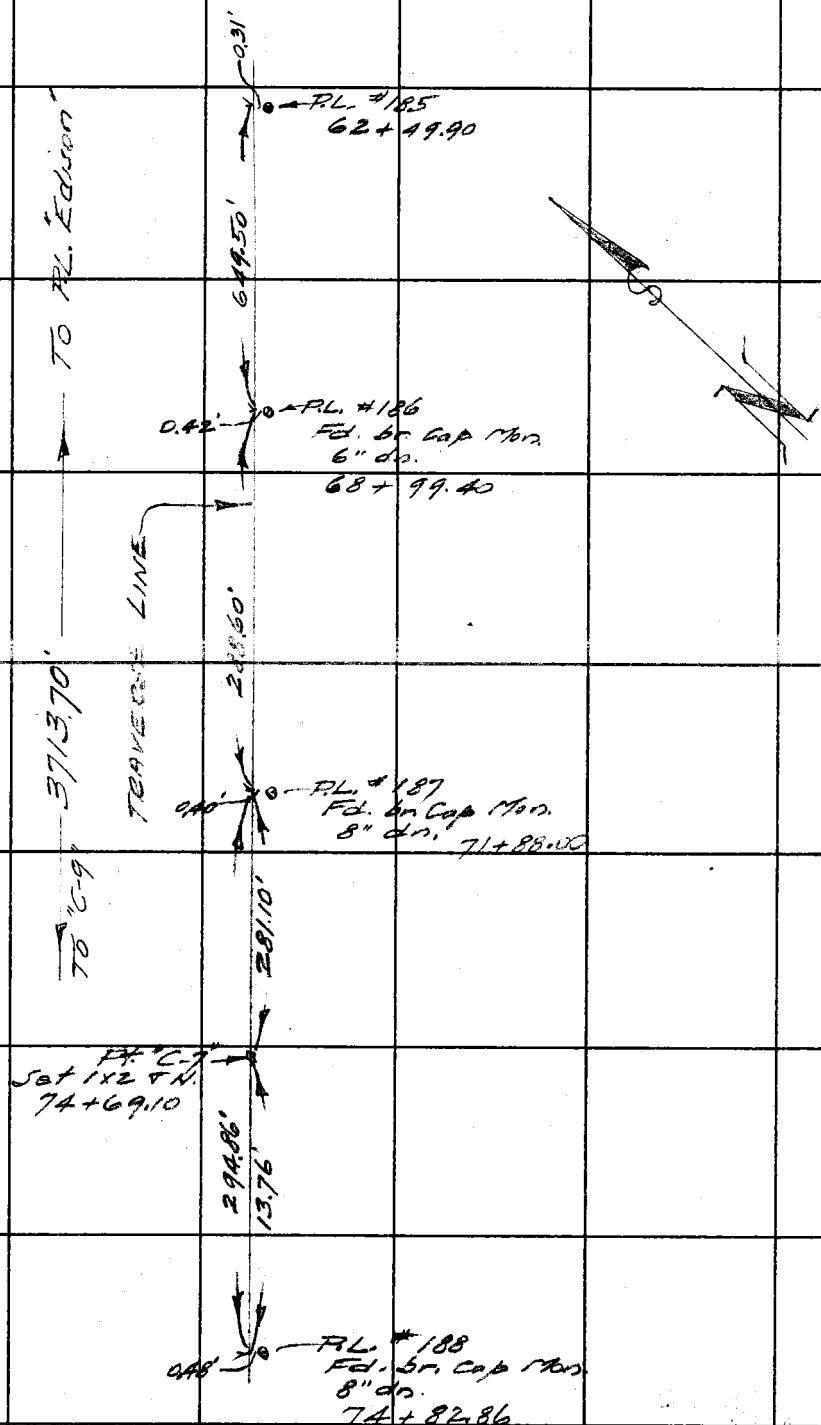
RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 5M 11-46

F. B. 937 PG. 36

"C" CIRCUIT

Cont'd from bot. of pg. 35



Cont'd at top of pg. 37

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

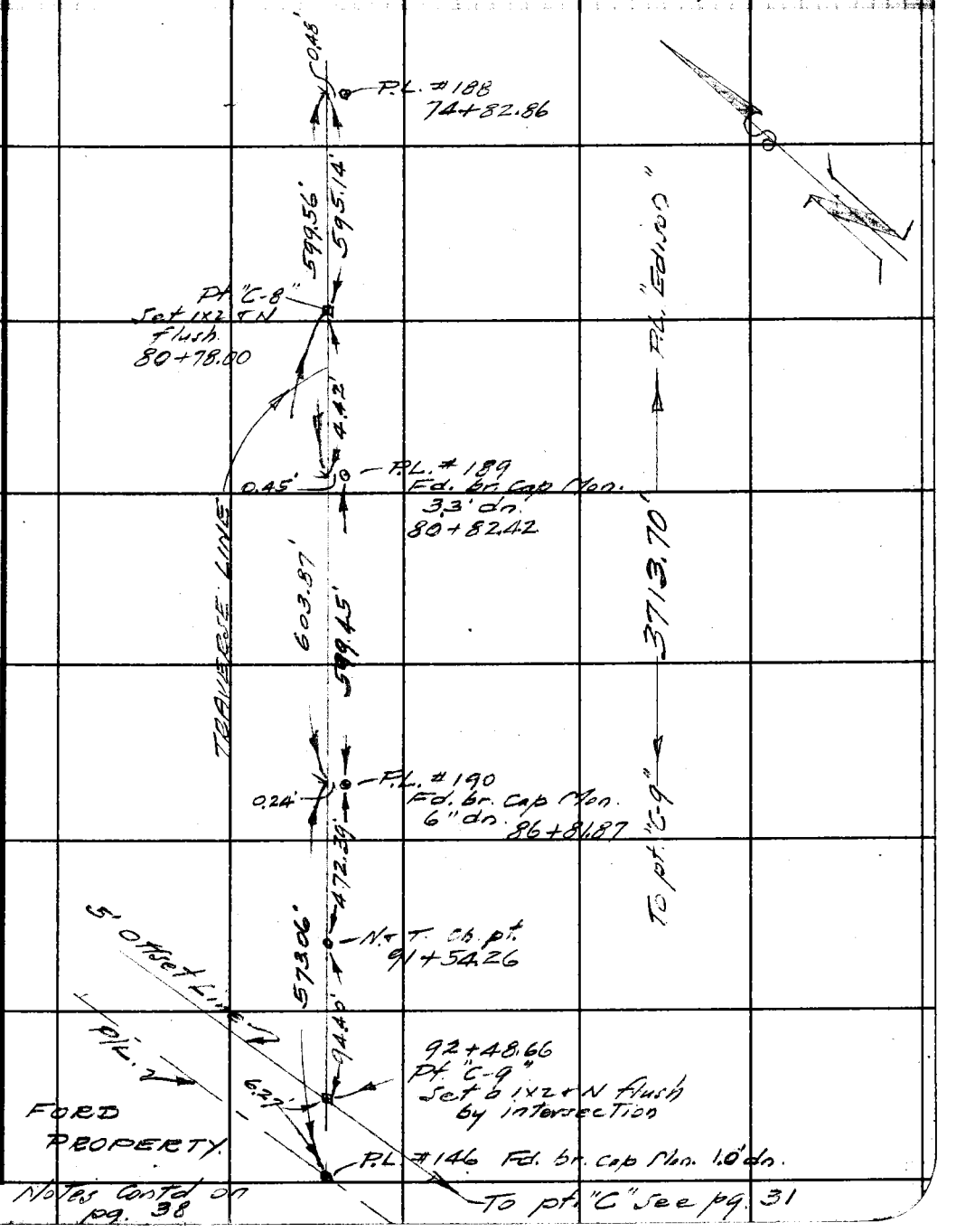
Do not extend notes this side of this line.

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 [illegible]	F. B. 937 Pg. 37
Map No.	W. O. [illegible] Tape No. 56 St'd 84 °F	
Office Work	Surveyed by G. W. [illegible]	
Checked	Notes G.W.K. Date 3/25-30/49	
Date	Indexed A. C. Johnson	

"C" CIRCUIT

Notes cont'd from bot. pg. 36



Notes Contd on pg. 38

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

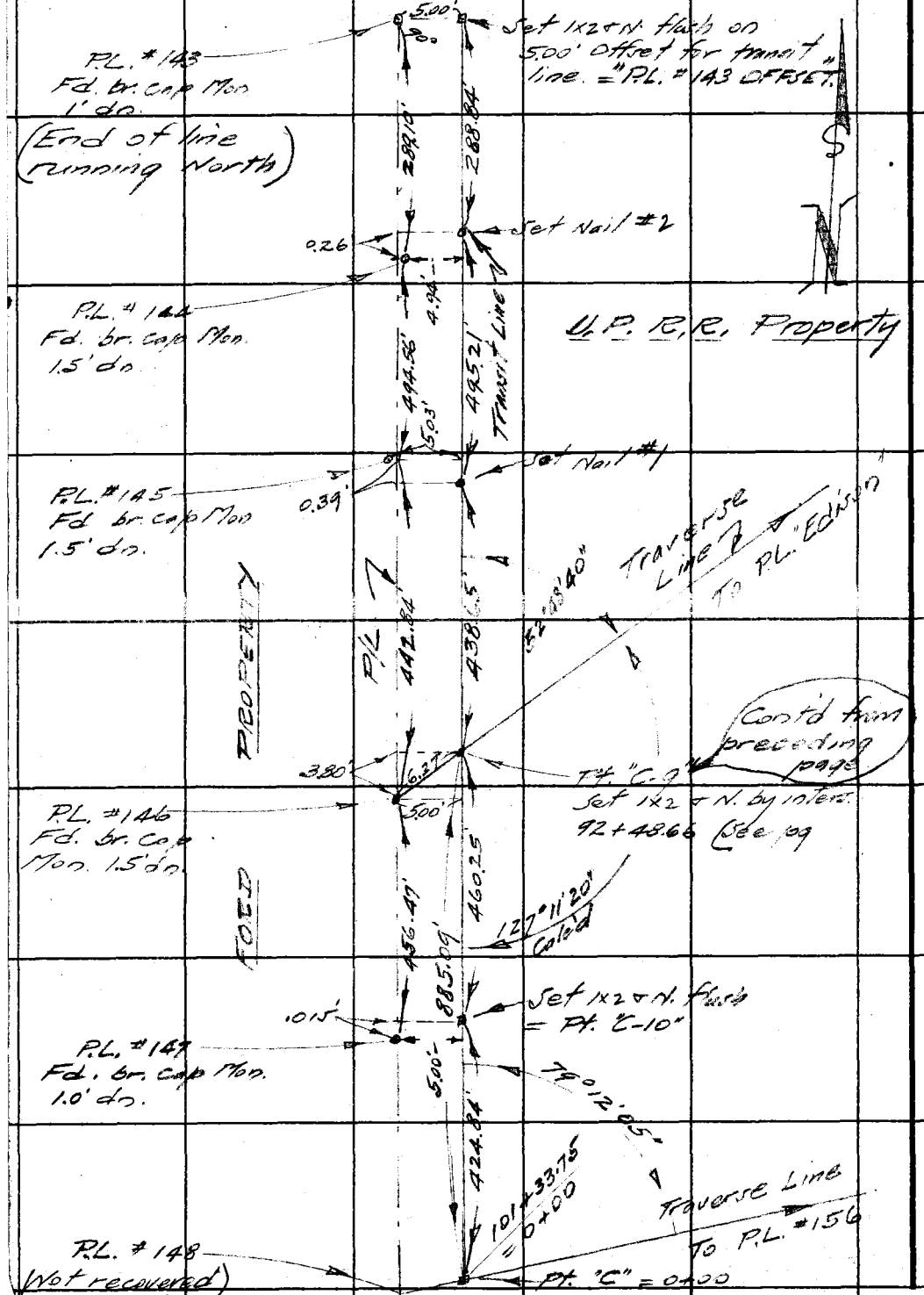
Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 5M 11-46

F. B. 937 Pg. 38

"C" CIRCUIT



RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS
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 L. Beach Subsidence
Map No.	W. O. 4922 Tape No. 56 St'd 84°F
Office Work	Surveyed by G.W. Klemeck
Checked	Notes G.W.K. Date 3/25-30/49
Date	Indexed A. C. Johnson

F. B. [illegible] PG. [illegible]

"C" CIRCUIT

— MEASURED ANGLES.

At Point "C"

(2) 158-24-00
~~79-12-00~~
(4) 316-48-15
(6) 115-12-15 ✓
79-12-~~02½~~ 05

At P.L. #156

(2) 228-34-15
114-17-07½
(4) 97-08-30
(6) 325-42-45 ✓
114-17-~~07½~~ 10

At P.L. #162.

(2) 333-06-00
166-33-00
(4) 306-12-15
(6) 279-18-30
166-33-05 ✓

At P.L. "Edison"

(2) 105-32-45
52-46-22½
(4) 211-05-15
(6) 316-37-45 ✓
52-46-~~17½~~ 20

At P.L. "Edison"

(2) 234-28-30
117-14-15
(4) 108-57-00
(6) 343-25-45 ✓
117-14-~~17½~~ 15

At Point "C-4"

(2) 235-09-00
117-34-30
(4) 110-18-00
(6) 345-27-00 ✓
117-34-30

At P.L. "#174 OFFSET" (U.S.C. & G.S.)

(2) 234-36-00
117-18-00
(4) 109-12-30
(6) 343-48-45 ✓
117-18-~~07½~~ 10

At Triang. Sta. "RITA" (U.S.C. & G.S.)

(2) 117-29-15
58-44-37½
(4) 234-58-30
(6) 352-28-00 ✓
58-44-40

Cont'd on Pg. 40

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

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 5M 11-46

F. B. 937 PG. 40

"C" CIRCUIT

Angles Cont'd from bot. pg. 39

At Pt. "C-9"

(2) 105-37-15
52-48-37½

(4) 211-15-00
52-48-45

(6) 316-52-15
52-48-~~42½~~ 40 ✓

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 [illegible]	F. B. 9.37 Pg. 21
Map No.	W. O. 4920 Tape No. 56 St'd 84 °F	
Office Work	Surveyed by G.W. Kleineck	
Checked	Notes GWK Date 3/25/30/49	
Date	Indexed A. C. Johnson	

"C" CIRCUIT

Measured Distances.

Pt. "C" to P.L. #149 — 21.71' @ 60° = same ✓

P.L. #149 to Pt. "C-1"
161.39'
39.28
200.67' @ 60° = 200.64' ✓

Pt. "C-1" to Pt. "C-2"
205.76'
212.18'
147.68'
203.43'
134.37'
107.97'
1011.39' ✓ @ 60° = 1011.23' ✓

Pt. "C-2" to P.L. #152 (−)12.89' @ 60° = same ✓

Pt. "C-2" to P.L. #153
148.39' @ 5°08' = 147.80 7950
148.22' @ 4°26' = 147.78' 777 ✓
Av. = 147.79' ✓ @ 66°
+ 88.00'
+ 205.51'
441.30' ✓ @ 66° = 441.25 ✓

P.L. #153 to Pt. "C-3"
162.57' @ 5°14' = 161.89' ✓
162.335' @ 4°13' = 161.89' ✓
Av. = 161.89' @ 66°
+ 125.62'
+ 140.64'
428.15' ✓ @ 66° = 428.10' ✓

Pt. "C-3" to P.L. #154 — 16.46' @ 66° = same ✓

Pt. "C-3" to P.L. #155
78.50' @ 9°38' = 77.39 3 ✓
78.86' @ 11°04' = 77.39 3 ✓
Av. = 77.39 @ 62° ✓
110.12'
77.39 8 ✓
68.21'
160.36'
416.08' ✓ @ 62° = 416.02' ✓

Cont'd on next page (42)

Note: Any Additions or Changes on This Sheet Must Be Made or Circled in Red Ink With Date and Name of Person Making Change.
Do not extend notes this side of this line.
RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS
FORM 247 BM 11-46

F. B. 937 PG. 42

"C" CIRCUIT
Dist's Cont'd from bot. of pg. 41

P.L. #155 to P.L. #156 208.01'
149.75
74.70
432.46 @ 64° = 432.40'

P.L. #156 to P.L. #162. 162.81'
84.68'
247.49 @ 64° = 247.46'

P.L. #162 to Pt. "C-4" 140.11' @ 64° = 140.09'

Pt. "C-4" to Δ "RITA"
166.485 @ 3°58' = 166.085
166.54' @ 4°19' = 166.070 .067
Av. = 166.0756
+142.100
+166.620
474.795 @ 62° = 474.73

Pt. "C-4" to P.L. #164 189.01'
212.60'
79.33
480.94 @ 64° = 480.88'

P.L. #164 to Pt. "C-5" 205.67'
205.27'
114.60'
525.54' @ 64° = 525.47'

Pt. "C-5" to P.L. #168 140.72'
204.77'
167.96'
186.53'
699.98 @ 64° = 699.89'

P.L. #168 to P.L. "Edison" 203.560
188.650
97.675
489.885 @ 64° = 489.82'

P.L. #171 to P.L.-Edison = 5.21'
" #172 to " " = 4.80'

Cont'd on pg. 43

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS
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 [illegible]	F. B. [illegible] Pg. [illegible]
Map No.	W. O. 4922 Tape No. 56 St'd 84 °F	
Office Work	Surveyed by G. W. Klemmel	
Checked	Notes GWK Date 3/25/30/49	
Date	Indexed A. C. Johnson	

"C" CIRCUIT

Meas'd dists Cont'd from pg. 42

P.L.-Edison to (U.S.C. & G.S.) "P.L. #174 OFFSET"
205.03' @ 64°
195.18
400.21' @ " = 400.16' ✓

P.L.-Edison to Pt. "C-6" 120.34'
93.09
213.43 @ 66° = 213.41' ✓

Pt. "C-6" to P.L. #184 204.92'
108.93
313.85 @ 66° = 313.81' ✓

P.L. #184 to P.L. #185 187.74' @ 66° = 187.72' ✓

P.L. #185 to P.L. #186 97.975'
200.270'
89.260'
65.710
196.410
649.625' @ 54° = 649.50' ✓

P.L. #186 to P.L. #187 156.85'
131.81
288.66 @ 54° = 288.60' ✓

P.L. #187 to Pt. "C-7" 167.37'
95.09'
18.69
281.15 @ 54° = 281.10' ✓

Pt. "C-7 to P.L. #188 = 13.76'

P.L. #188 to Pt. "C-8"
155.54' @ 4°03' = 155.15' ✓
155.72' @ 4°56' = 155.145 ✓

Av. = 155.15 @ 62°
+ 200.08"
179.70
60.30
595.23 @ 62° = 595.14' ✓

Cont'd at top of pg. 44

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

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 5M 11-46

F. B. 939 PG. 44

"C" CIRCUIT
Meas'd dist' Cont'd from pg. 43

Pt. "C-8" to P.L. #189 = 4.42'

Pt. "C-8" to P.L. #190
121.51'
139.66
99.24'
145.72'
57.82'
603.95' @ 64° = 603.87'

P.L. #190 to Nail (Ch. Pt)
207.94'
161.13
66.44
36.94
472.45' @ 64° = 472.39'

Nail (Ch. Pt) to Pt. "C-9" 94.41' @ 64° = 94.40'

Pt "C-9" to P.L. #146 = 6.27'

Pt. C-9 to Pt. C-10
196.66'
203.57'
60.06
460.31' @ 64° = 460.25'

Pt. "C-10" to Pt. "C"-0+00
205.16'
160.44
59.29
424.89' @ 64° = 424.84'

Dist's North From "C-9"

Pt. "C-9" to Nail #1
158.92'
199.48'
80.31'
438.71' @ 64° = 438.65'

Nail #1 to Nail #2
201.41'
201.38'
91.89
495.28' @ 64° = 495.2X'

Nail #2 to "P.L. #143 OFFSET"
122.02'
166.86
288.88' @ 64°
= 288.84'

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

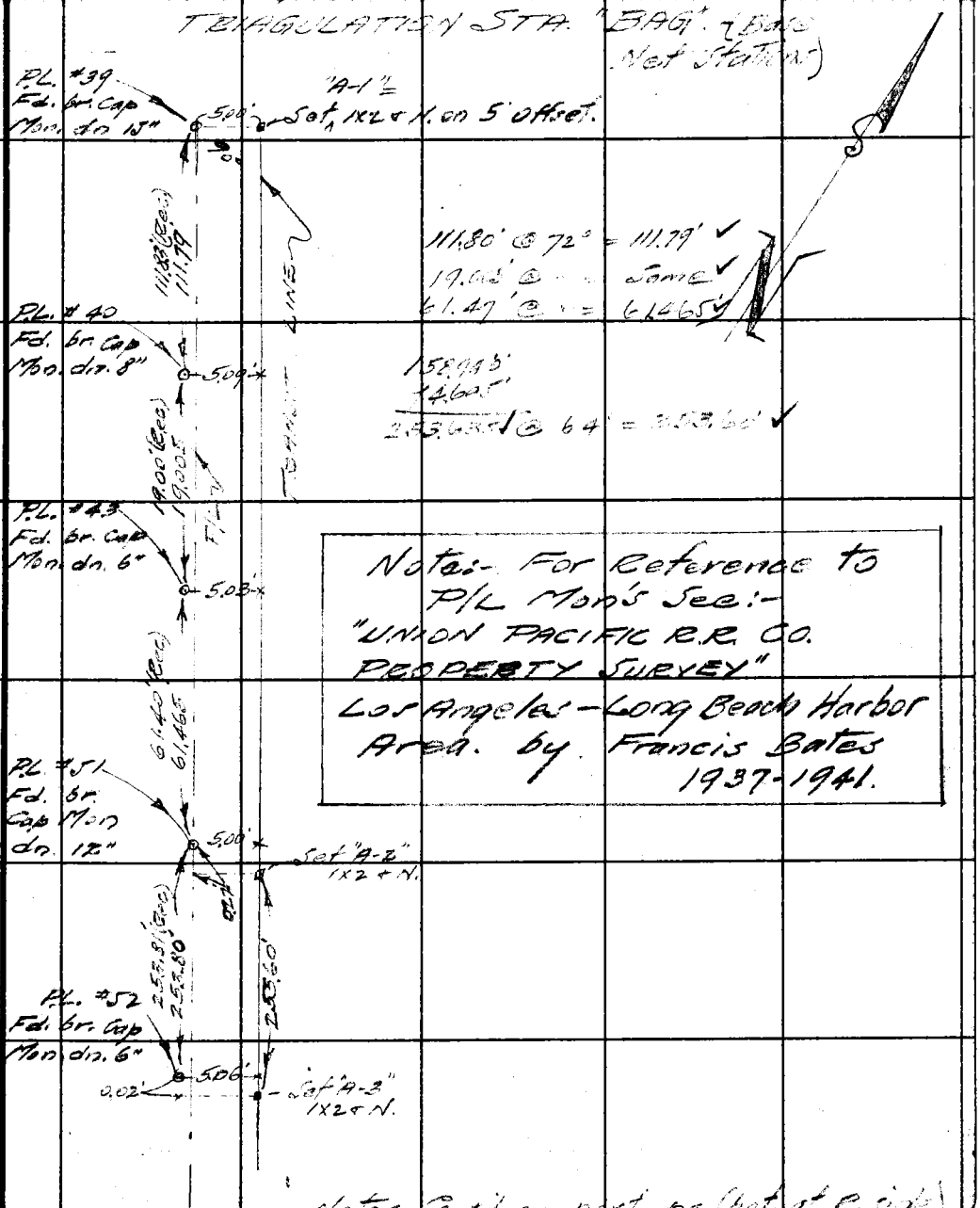
Do not extend notes this side of this line.

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 [illegible]
Map No.	W. O. 4922 Tape No. 56 St'd 84 °F
Office Work	Surveyed by [illegible]
Checked	Notes G.W.K. Date 3/28-29/49
Date	Indexed A. C. Johnson

F. B. 131 Pg. 45

PROPERTY LINE TIES TO U.S.C.&G.S. TRIANGULATION STA. "BAG" (Base Net Station)



Note:- For Reference to P/L Mon's See:- "UNION PACIFIC R.R. CO. PROPERTY SURVEY" Los Angeles - Long Beach Harbor Area. by Francis Bates 1937-1941.

Notes Cont'd on next pg. (bot. of R. side)

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

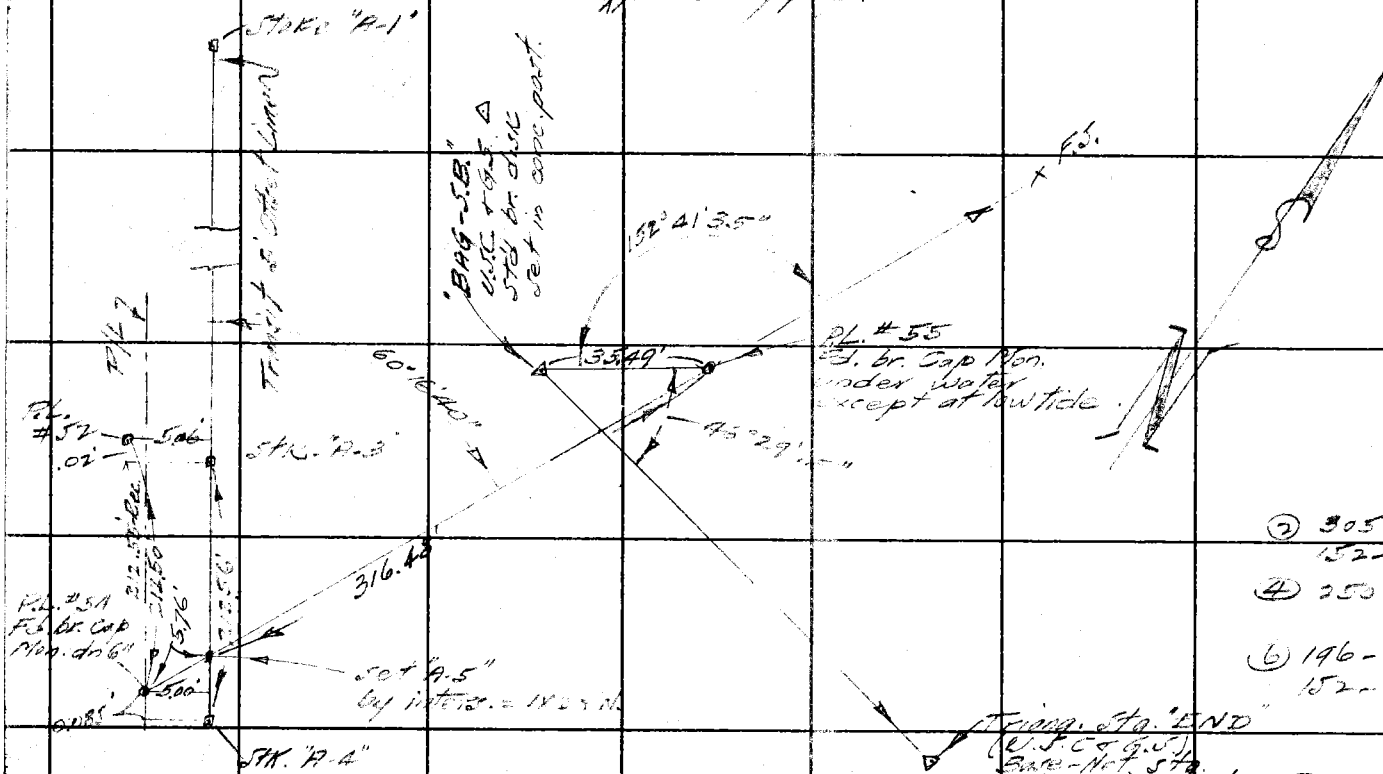
Do not extend notes this side of this line.

RETURN TO LOS ANGELES COUNTY SURVEYOR 700 HALL OF RECORDS

FORM 247 5M 11-46

F. B. 937 PG. 46

Notes Cont'd from bot. preceding page.



63.835' @ 8°46' @ 66° = 63.09 ✓
63.96' @ 9°26' @ " = 63.10 ✓
Av. = 63.095 ✓

36.425' @ 12°53' @ 66° = 35.49'
36.70' @ 14°44' @ " = 35.49
35.49

63.095 ✓
61.355'
192.070'
316.515 ✓
−.037(T) ✓
316.48' ✓

(2) 305-23-15
152-41-37½
(4) 250-46-15
(6) 196-09-30
152-41-35 ✓

(2) 92-58-15
46-29-07½
(4) 185-57-00
(6) 278-55-45
46-29-~~17½~~ 15 ✓

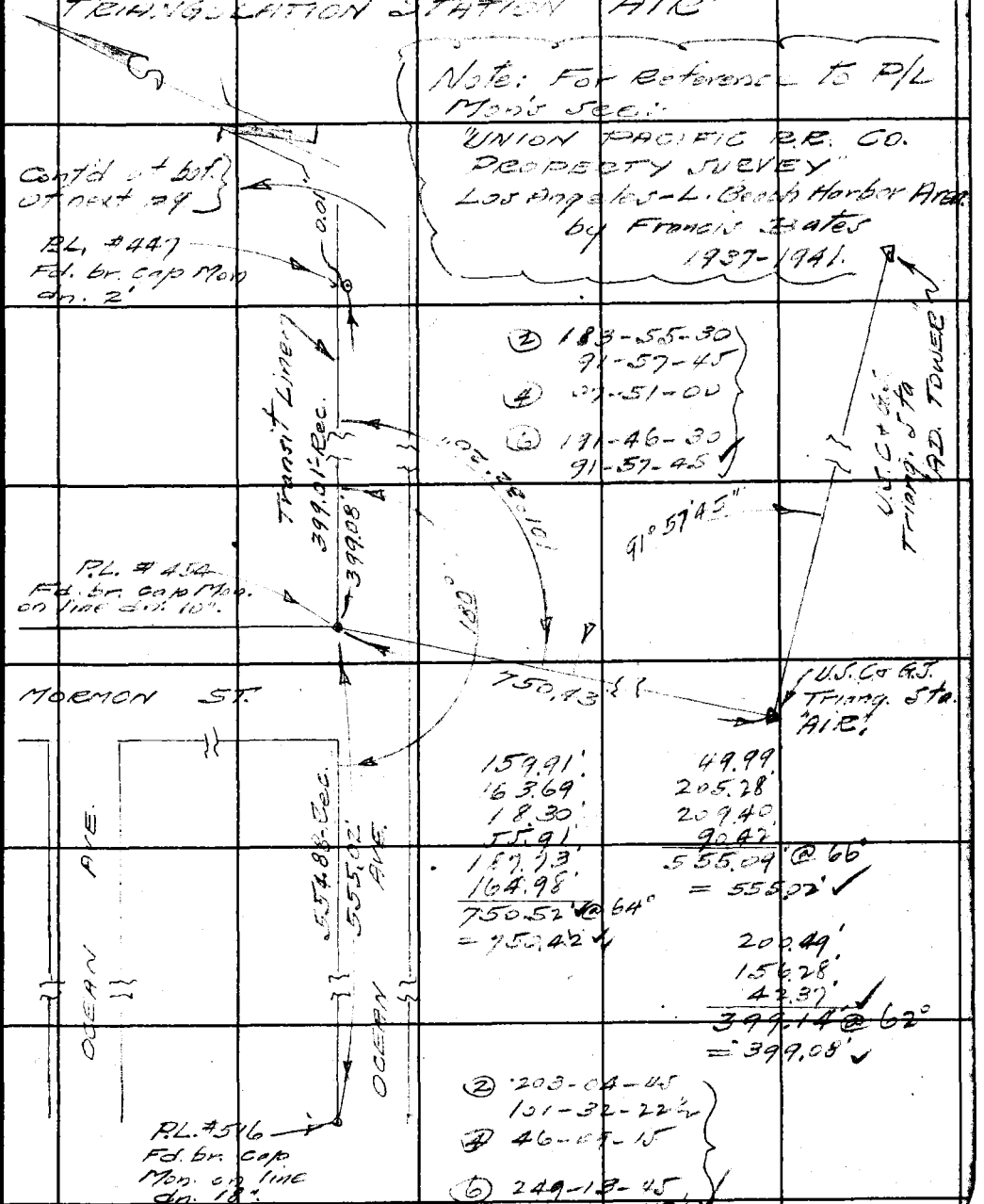
RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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

Do not extend notes this side of this line.

Notes Ck'd by	Survey of [illegible]	F. B. 437 Pg. 47
Map No.	W. O. 4977 Tape No. 56 St'd 84 °F	
Office Work	Surveyed by G.W. Kleneck	
Checked	Notes G.W.K. Date 3-31-49	
Date	Indexed A. C. Johnson	

PROPERTY LINE TIES TO U.S.C.+G.S. TRIANGULATION STATION "AIR"



② 183-55-30
91-57-45
④ 07-51-00
⑥ 191-46-30
91-57-45

159.91'
163.69'
18.30'
55.91'
187.73'
164.98'
750.52' @ 64°
= 750.42'

49.99'
205.28'
209.40'
90.42'
555.09' @ 66°
= 555.02'

200.49'
156.28'
42.37'
399.14' @ 62°
= 399.08'

② 203-04-45
101-32-22½
④ 46-09-15
⑥ 249-13-45
101-32-~~19½~~ 20

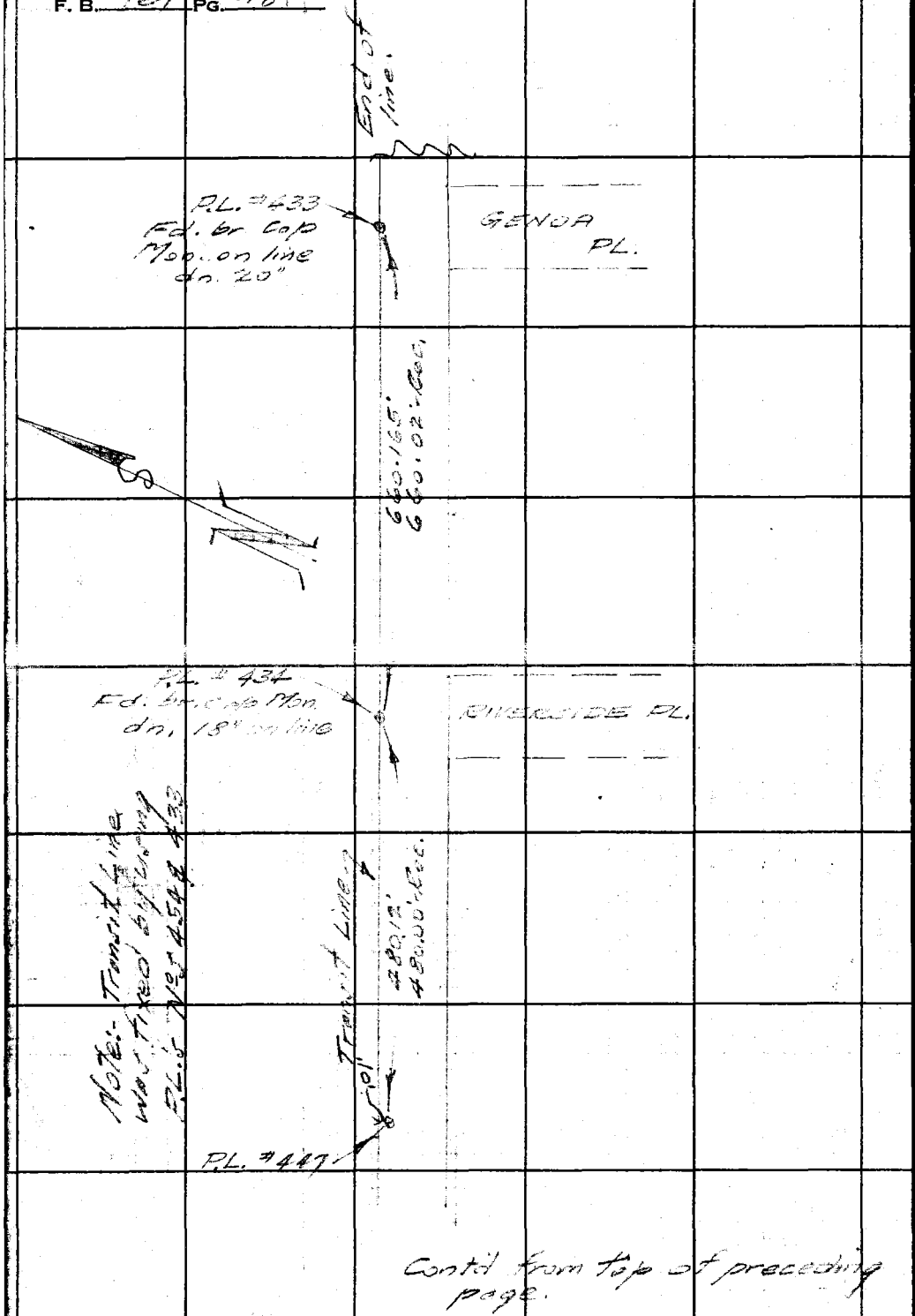
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 5M 11-46

F. B. 937 PG. 48



Contd from top of preceding page.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 [illegible]
Map No.	W. O. 4922 Tape No. 630 St'd 62 °F
Office Work	Surveyed by [illegible]
Checked	Notes [illegible] Date 1-6-49
Date	Indexed R. C. Johnson 2-6-49

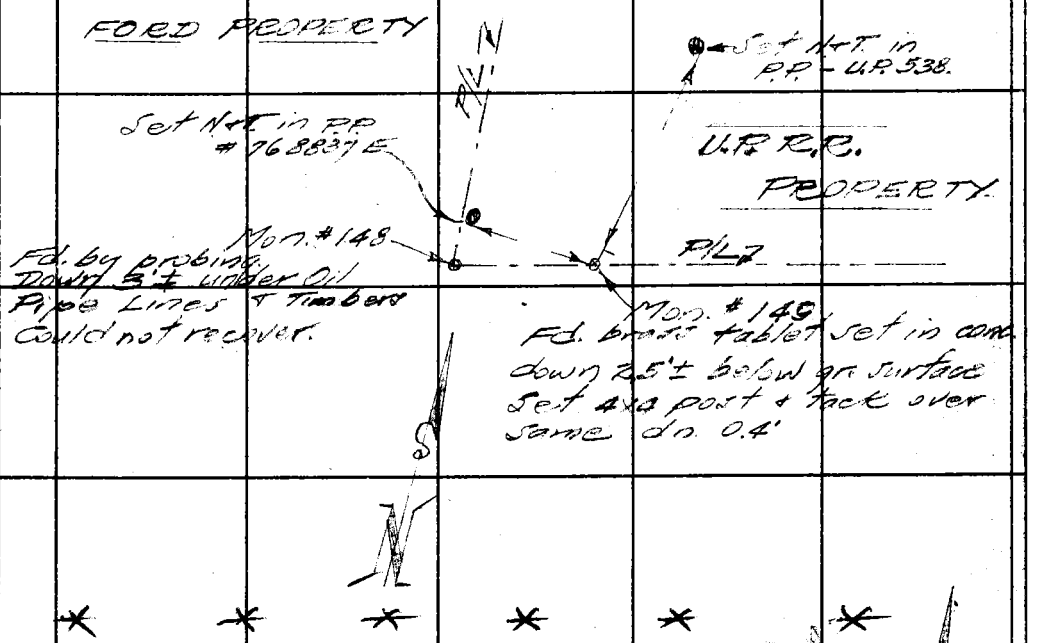
F. B. 937 Pg. 49

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

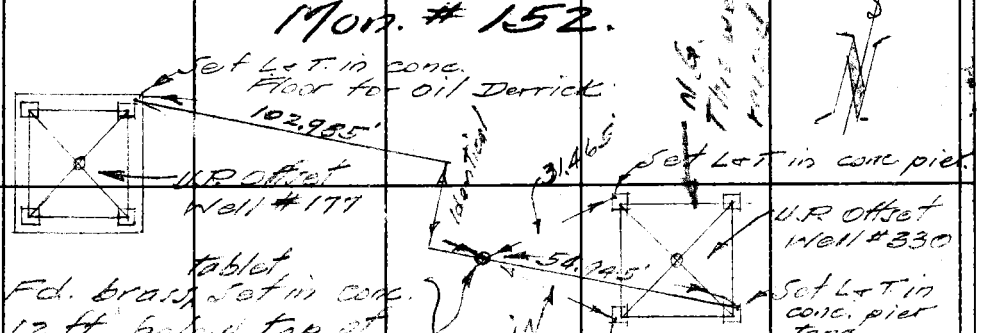
Do not extend notes this side of this line.

RETURN TO LOS ANGELES COUNTY SURVEYOR 700 HALL OF RECORDS

Ref. Tie. - Union Pacific P/L Survey.
Mon. # 149.



Mon. # 152.



Fd. brass tablet set in conc. 12 ft. below top of levee. Set 4x4 post over same 6" dn.

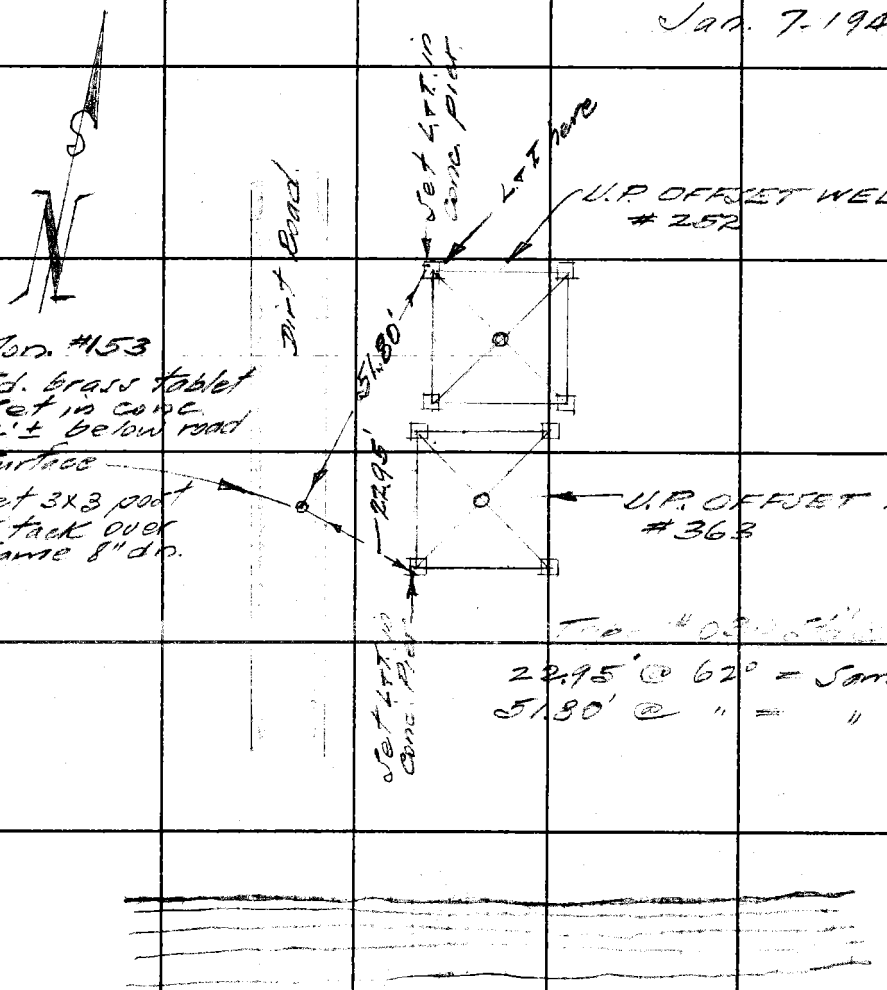
31.47' @ 48° = 31.465'
30.15' @ " = 30.145'
54.95' @ " = 54.945'
102.990' @ " = 102.985'

FORM 247 BM 11-46

F. B. 937 PG. 50

Ref. Ties. - Union Pacific P/L Survey
Mon. # 153.

Jan. 7-1949.



RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

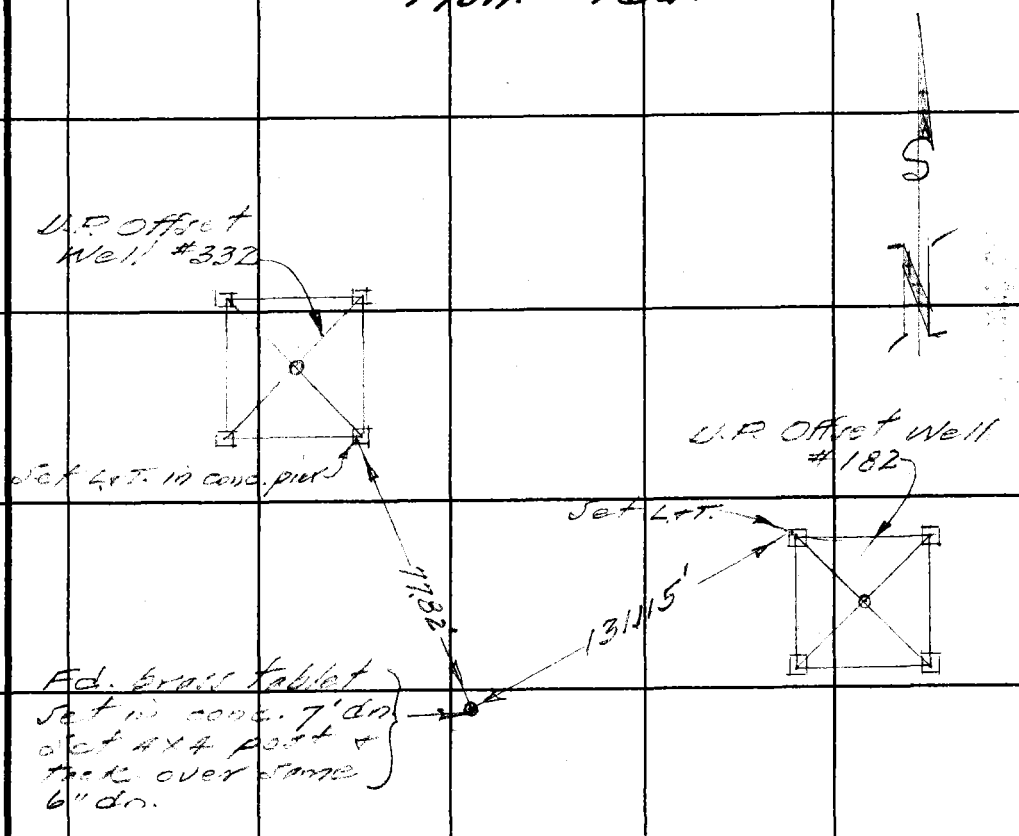
Do not extend notes this side of this line.

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
Map No.	W. O. 4922 Tape No. 56 St'd 84 °F
Office Work	Surveyed by J. Kleineck
Checked	Notes [illegible] Date 1-19-44
Date	Indexed A. C. Johnson

F. B. 937 Pg. 51

Ref. Ties - Union Pacific P/L Survey
Mon. #154.



77.84' @ 48° = 77.82'
131.45' @ " = 131.115'

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

Do not extend notes this side of this line.

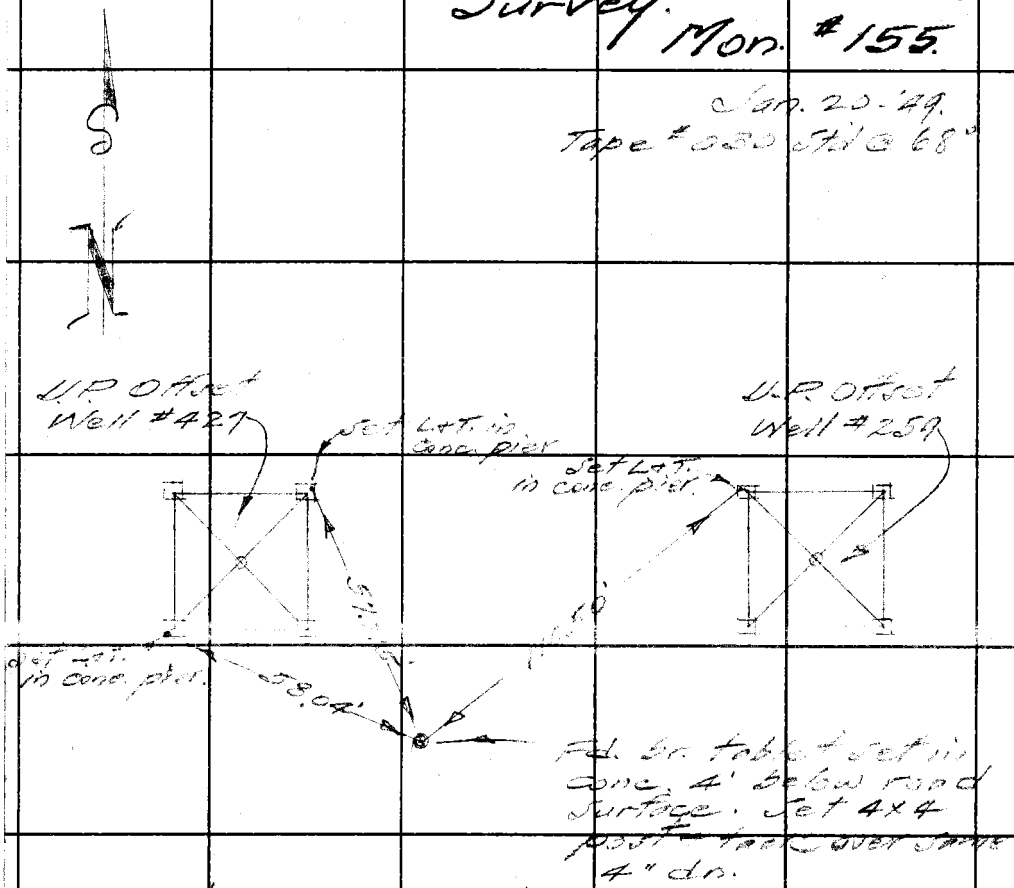
RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 5M 11-46

F. B. 937 PG. 52

Ref. Ties ~ UNION PACIFIC R/L Survey. Mon. #155.

Jan. 20-'49.
Tape #030 Std @ 68°



58.045' @ 54° = 58.04'
57.22' @ " = 57.215'
110.51' @ " = 110.50'

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

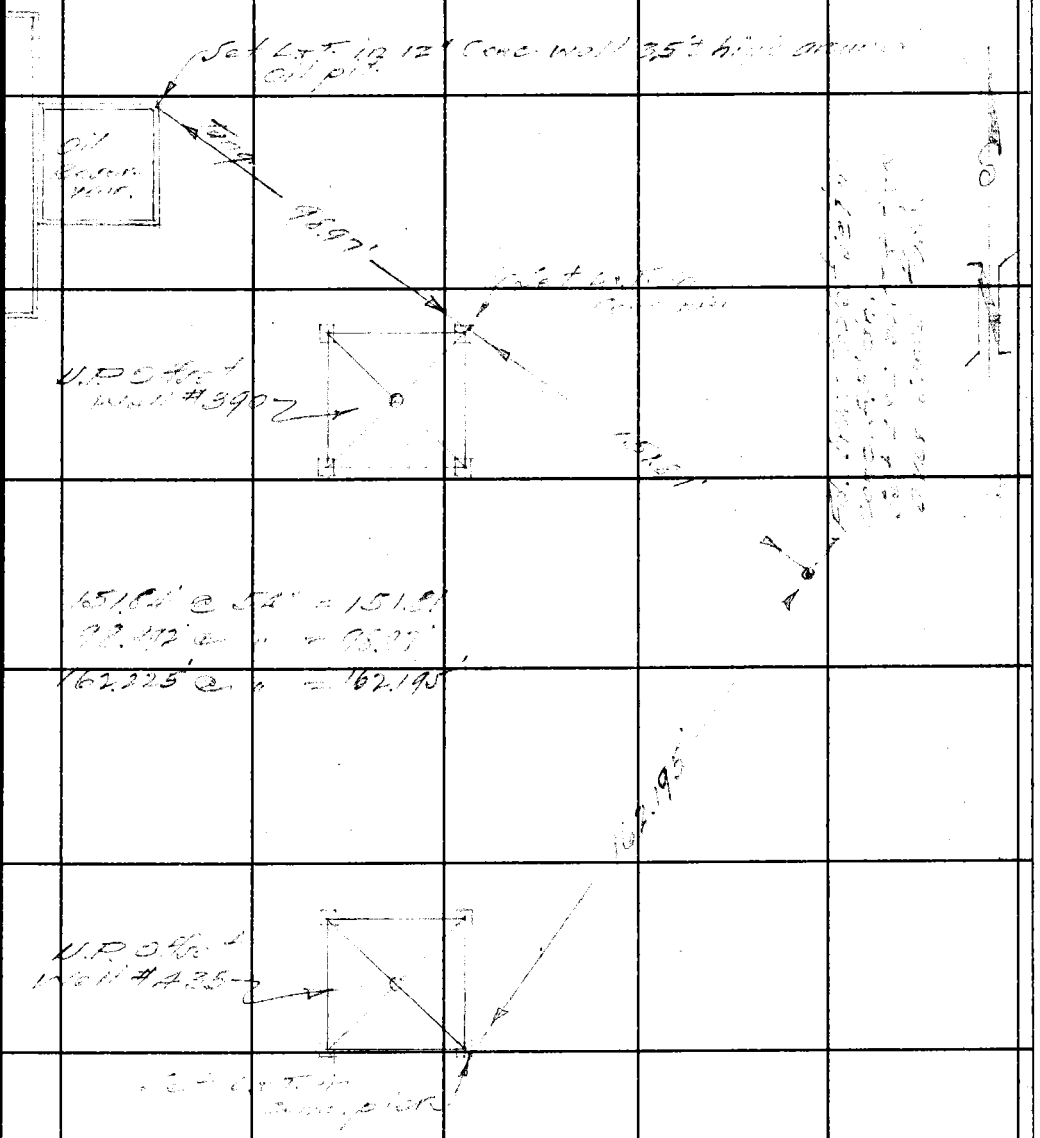
Do not extend notes this side of this line.

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
Map No.	W. O. Tape No. St'd °F
Office Work	Surveyed by
Checked	Notes Date
Date	Indexed A. C. Johnson

F. B. 937 PG. 53

Ref. Ties — Union Pacific R/W Survey
Mon. #156.



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

Do not extend notes this side of this line.

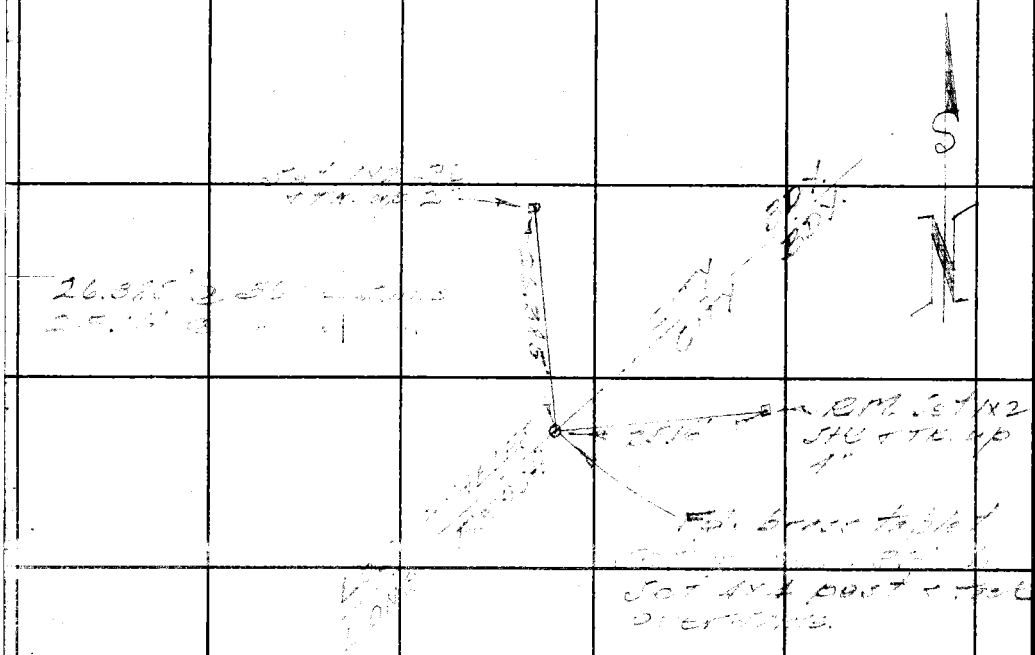
RETURN TO
LOS ANGELES COUNTY SURVEYOR
7DO HALL OF RECORDS

FORM 247 SM 11-68

F. B. 937 PG. 54

Ref. Ties ~ Union Pacific P/L Survey.

Mon. # 189



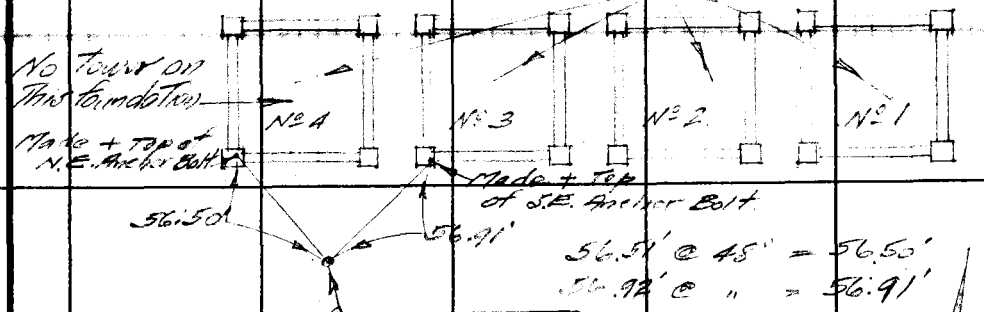
RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	F. B. 937 Pg. 55
Map No.	W. O. 4922 Tape No. 230 St'd 68 °F	
Office Work	Surveyed by Kleineck	
Checked	Notes GWK Date 1-3-49	
Date	Indexed A. C. Johnson	

Edison Transmission Tower Bases



56.51' @ 48° = 56.50'
56.92' @ " = 56.91'

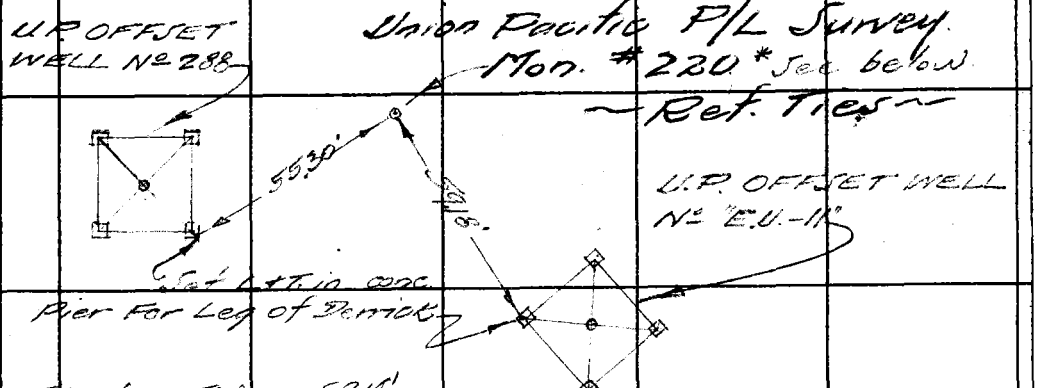
Fd. brass tablet set in conc. 7'± below present road grade & 4'± below top grade of tower bases set 4x4 post + tack over mon. dn. 1' below road surface.

Union Pacific P/L Survey.
Mon #221. ~ Ref. Ties. ~

X X X X

Jan. 5-'49.

Union Pacific P/L Survey.
Mon. #220 * See below
~ Ref. Ties ~



59.19' @ 56° = 59.18'
55.31' @ " = 55.30'
Tape #10 St'd @ 84°

* Fd. brass tablet set in conc, 4.5'± below road surface. Set 3x3 post + tack over mon. 4" down.

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

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

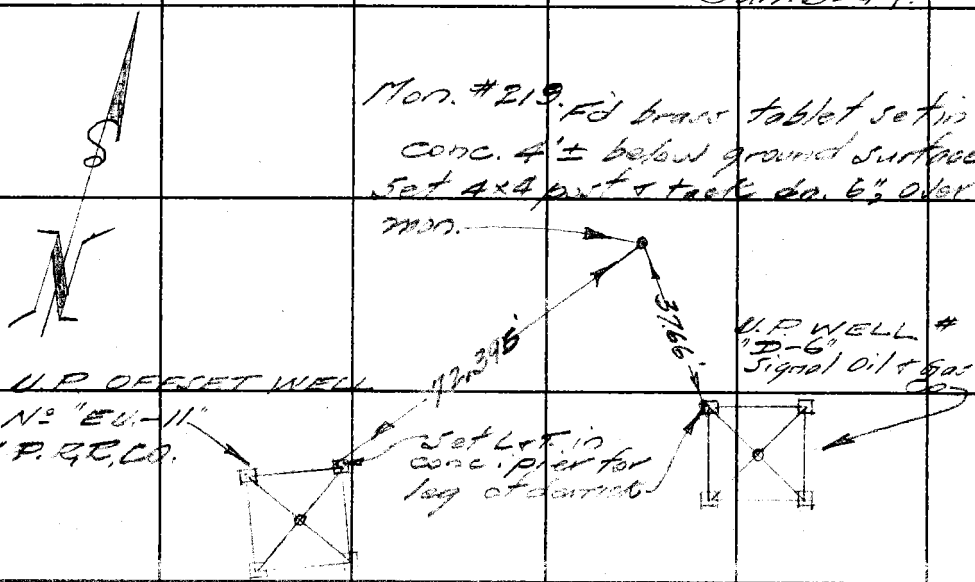
FORM 247 5M 11-46

F. B. 937 PG. 56

Long Beach Subsidence Surv. Cont'd

Ref. Ties. — Union Pacific P/L Survey Mon. #219.

Jan. 5-'49.



Tape #030 Std @ 68°
72.40' @ 60° = 72.395'
37.66' @ " = 37.66'

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

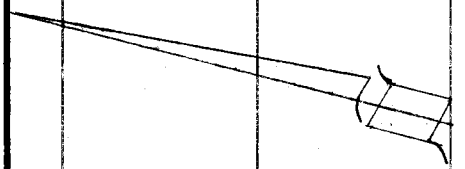
Do not extend notes this side of this line.

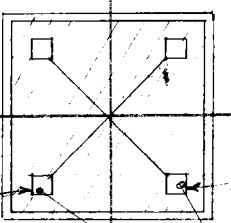
Note: Any Additions or Changes on This Sheet Must Be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of Long Beach Harbor
Map No.	W. O. 4922 Tape No. St'd °F
Office Work	Surveyed by F. L. Willey
Checked	Notes " Date 12-48
Date	Indexed A. C. Johnson

F. B. 737 PG. 57

Ref. Ties — Union Pacific Pk. Survey
Mon. # 222





set L&T in conc pier NW cor of derrick #165

set L&T in conc pier SW. cor of derrick #165

29.85

13.65

Pk. Mon. #222.

Fd 4"x4"x3' post & nail dn. 4½' The post is apparently above conc Mon. which I could feel with a probe. surface water is 2' ± above the Mon. and cannot be drained To verify the number, but it is within ½' of our calc. position. replaced 4x4 post with 2" IP & B.C. flush

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

Do not extend notes this side of this line.

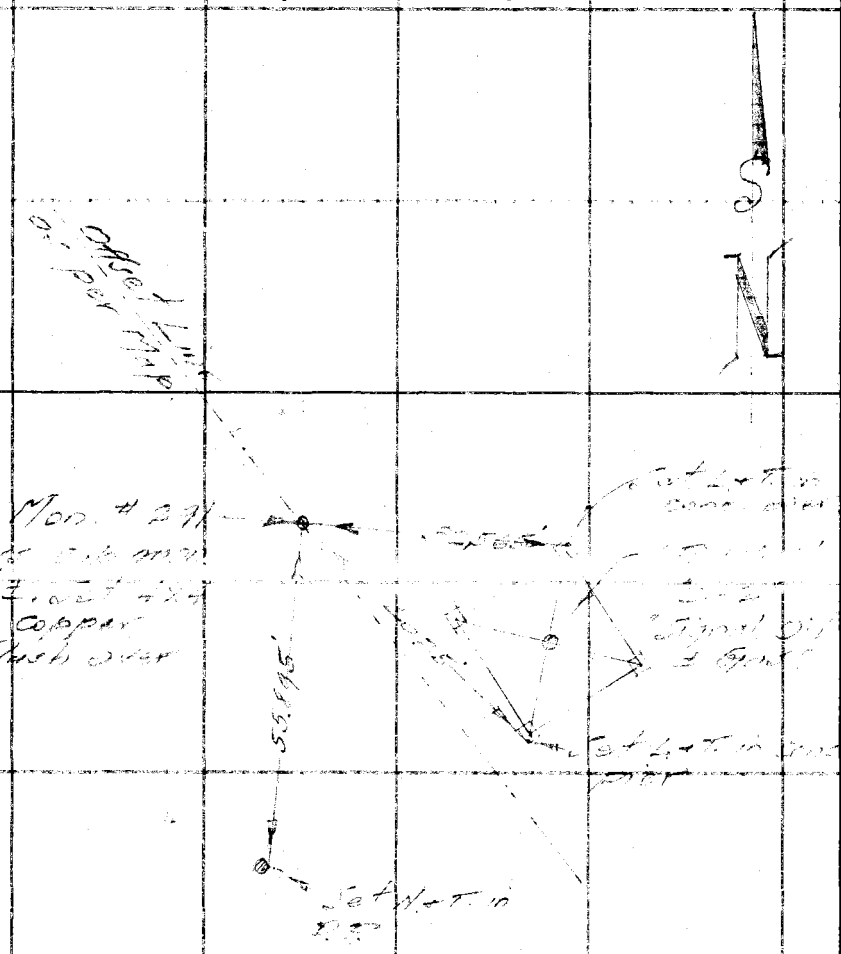
RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 5M 5-46

F. B. 937 PG. 58

Ref. Ties - Union Pacific P/L Survey.

Mon. # 291.



Fd. brass [illegible] dn. 2.5 [illegible] post & copper tack flush over same.

Tape # [illegible] Std @ 68°
[illegible] @ [illegible] = [illegible]
32.[illegible] @ " "
55.90' @ " = 55.8[illegible]

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 Long Beach Subsidence
Map No.	W. O. Tape No. St'd °F
Office Work	Surveyed by R L Willey
Checked	Notes " Date 12-48
Date	Indexed A. C. Johnson

F. B. 931 PG. 59

LONG BEACH SUBSIDENCE

JN 4922

TIES TO UNION PACIFIC R.R

MONUMENTS

DEC 1948

R L Willey

L V Smith

~~CT Nowack~~

M. Sonnenschein

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

Do not extend notes this side of this line.

RETURN TO

LOS ANGELES COUNTY SURVEYOR

700 HALL OF RECORDS

FORM 247 5M 5-46

F. B. 937 PG. 60

Ref. Ties — Union Pacific P/L Survey.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
7DO HALL OF RECORDS

Do not extend notes this side of this line.

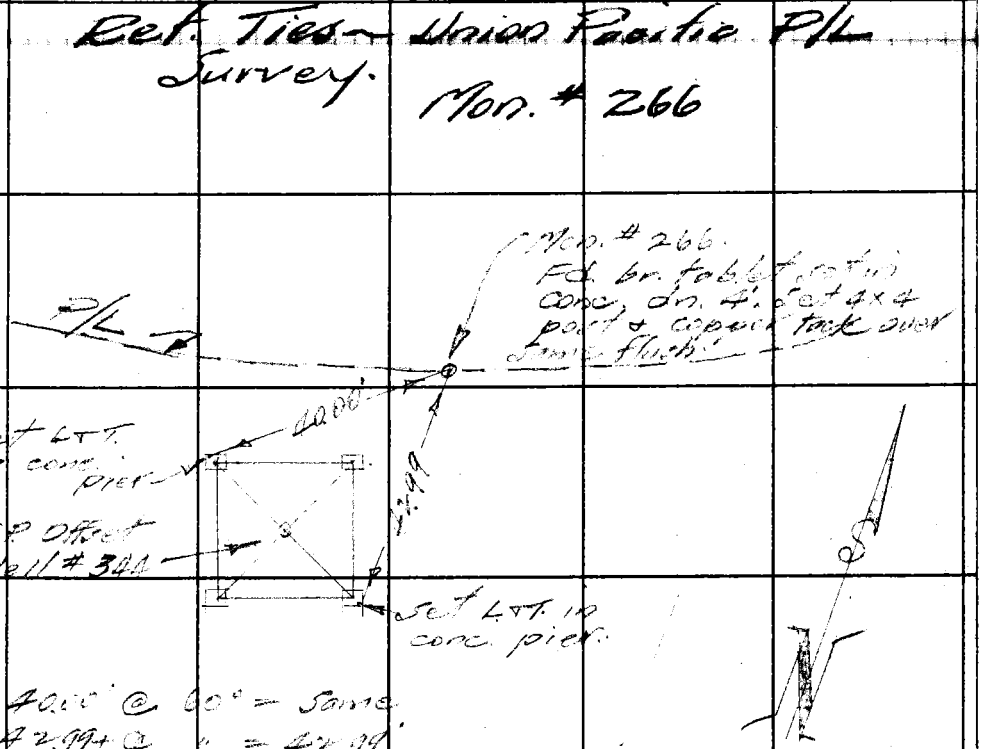
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of
Map No.	W. O.	Tape No.	St'd °F
Office Work	Surveyed by
Checked	Notes	Date
Date	Indexed	C. Johnson

F. B. 931 Pg. 61

Ref. Ties — Union Pacific P/L Survey.

Mon. # 266



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

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 SM 11-46

F. B. 937 PG. 62

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

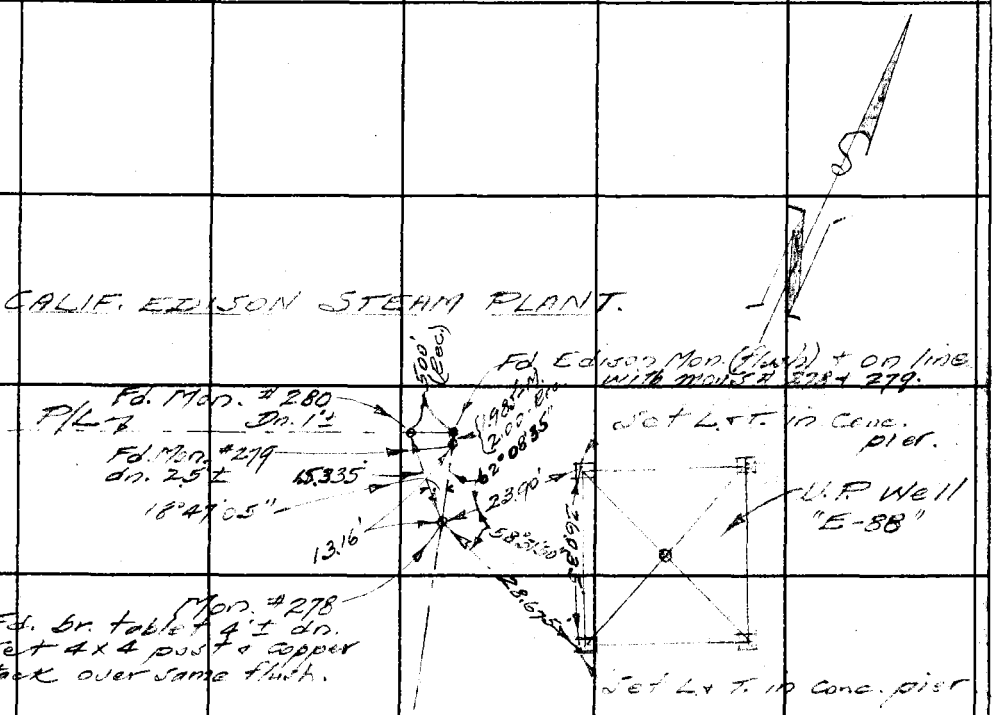
Do not extend notes this side of this line.

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 [illegible]
Map No.	W. O. 4922 Tape No. 079 St'd 68 °F
Office Work	Surveyed by G. W. Klemeck
Checked	Notes G.W.K. Date 1-28-49
Date	Indexed A. C. Johnson

F. B. 937 PG. 63

Ret Ties - Union Pacific P/L Survey.
Mon's 278, 279, 280 & Calif. Edison Marker.



15.335' @ 58° = same.

13.16' @ " = "	(2) 37-34-15	(2) 117-03-30
1.985' @ " = "	18-47-07½	58-31-45
28.675' @ " = "	(4) 75-08-30	(4) 234-07-45
23.90' @ " = "	18-47-~~07½~~ 05	58-31-~~56~~ 50
26.035' @ " = "		

(2) 124°-17-00
62-08-30
(4) 248-34-15
62-08-~~34~~ 35

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

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

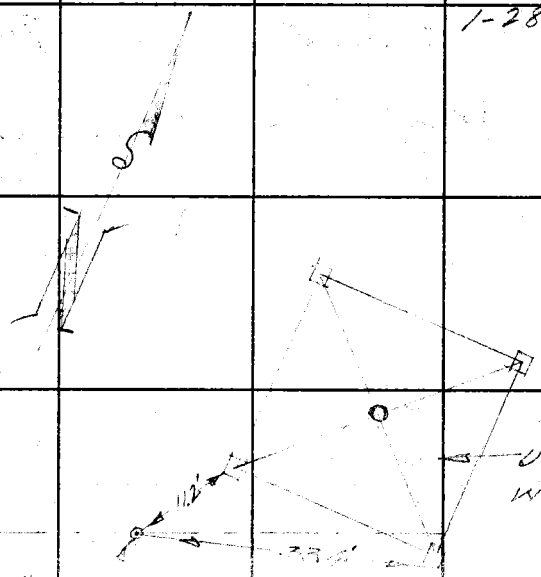
FORM 247 5M 11-46

F. B. 937 Pg. 64

Ref. Ties ~ Union Pacific P/L Survey:

Mon. #277

1-28-29.



RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
Map No.	W. O. Tape No. St'd °F
Office Work	Surveyed by
Checked	Notes Date
Date	Indexed A. C. Johnson 12-29-49

F. B. 999 Pg. 65

~ LONG BEACH SUBSIDENCE ~

J.N. 4922.

PROPERTY LINE TIES TO GEODETIC CONTROL SYSTEM

A RETRACEMENT OF A PORTION OF AN EARLIER SURVEY MADE IN JAN.-MAR., 1949, TO FIX TREND AND AMOUNT OF LAND MOVEMENT IN SUBSIDENCE AREA.

Survey Party:-
G. Kleineck
J. Moore
J. Dougherty.
J. Patton
R. Bruton
I. Thomas
T. Manney, Jr.

Note:- For reference to P/L. Mon's found & used in this survey see:- UNION PACIFIC R.R. CO. PROPERTY SURVEY - LOS ANGELES, LONG BEACH HARBOR AREA.
By Francis Bates
1937-1941.

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

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 5M 11-46

F. B. 939 PG. 66

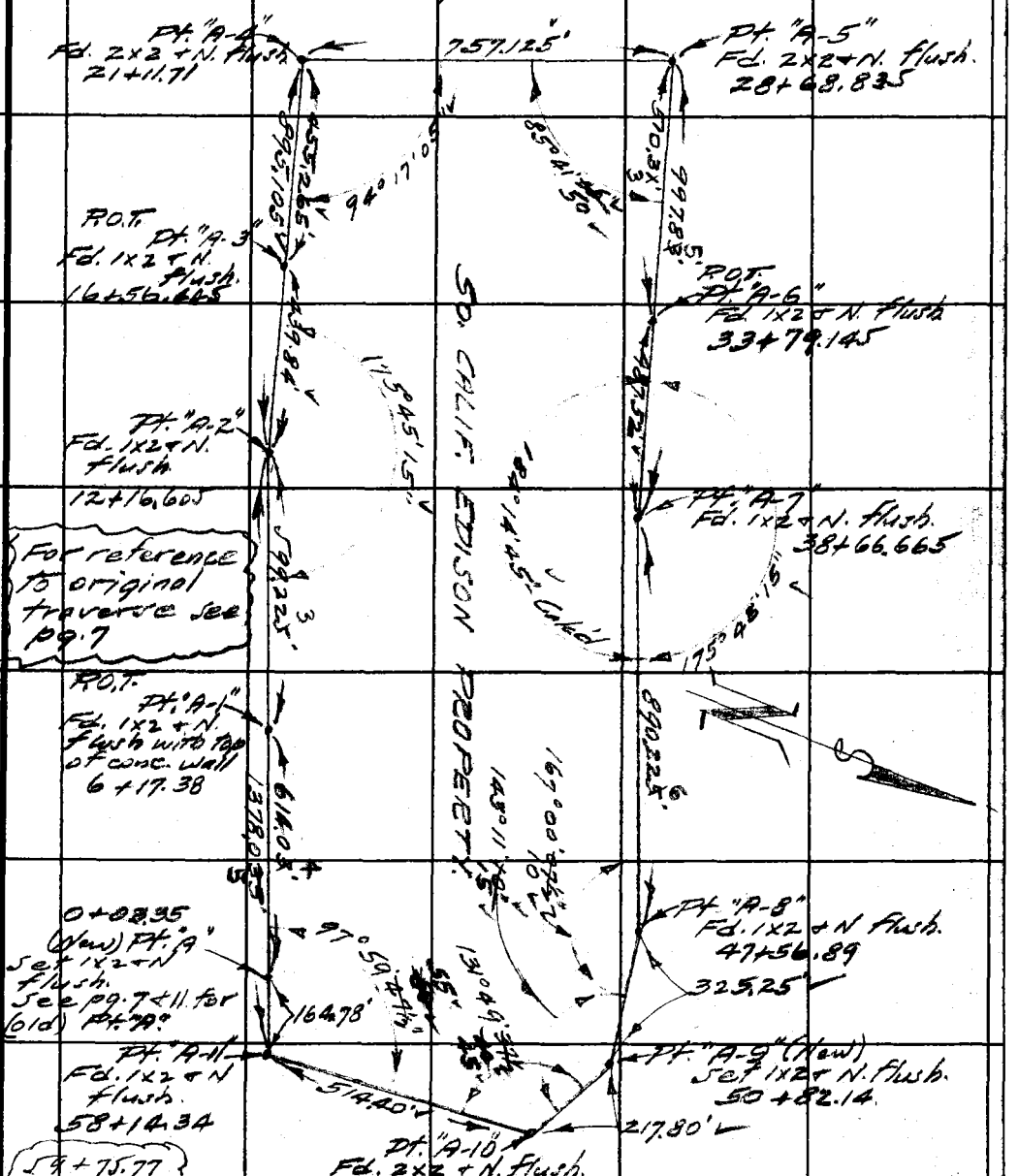
RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 [illegible]	F. B. 937 Pg. 67
Map No.	W. O. 4922 Tape No. St'd. °F	
Office Work	Surveyed by G.W. Klameck	
Checked	Notes G.W.K. Date Dec. '49	
Date	Indexed R. C. Johnson	

TRAVERSE LINE FOR "A" CIRCUIT
FOR MAKING P/L & GEODETIC TIES



For measured dist's & angles see next pg. 68

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

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 SM 11-46

F. B. 937 Pg. 68 — "A" Circuit —

Measured dist's along traverse line on preceding page. (67)

100' Tape #079 @ 68°

From Pt. "A" to "A-1"

100.080'
99.980'
100.575'
100.480'
100.310'
100.410'
12.180'
614.015' @ 74°
+.0524
614.03'
4

Pt. "A-1" to "A-2"

100.310'
100.190'
100.435'
100.405'
100.320'
97.550'
599.210' @ 72°
+.0156
599.22
3

From Pt. "A-2" to "A-3"

100.020'
100.165'
100.300'
100.215'
39.155'
437.855' @ 64°
-.0181
439.84'

From Pt. "A-3" to "A-4"

100.040'
100.210'
100.595'
100.430'
54.000'
455.275' @ 64°
-.012
455.265
3

100' Tape #079 @ 68°

300' Tape #100 @ 74°

From Pt. "A-4" to "A-5."

200.350'
200.150'
200.395'
156.320'
757.215' @ 66°
-.09
757.125'

From Pt. "A-5" to "A-6"

200.555'
200.570'
109.220'
510.365' @ 74°
-.033'
510.3X'
3

From Pt. "A-6" to "A-7"

200.420'
200.190'
86.940
487.55' @ 74°
-.03'
487.52'

From Pt. "A-7" to "A-8"

200.220'
200.310'
200.440'
200.380'
88.980'
890.33' @ 66°
-.104'
890.2256'

Notes Cont'd at top of pg. 69

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS
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 Long S. Subsidence	F. B. 937 Pg. 69
Map No.	W. O. 4922 Tape No. 108 56 St'd 84 °F	
Office Work	Surveyed by G. W. Kleineck	
Checked	Notes G.W.K. Date 12-12-49	
Date	Indexed A. C. Johnson	

"A" Circuit — Notes Cont'd from bot. pg. 68

From Pt. "A-8" to "A-9"

194.21'
131.10'
325.31' @ 56°
— .06'
325.25'

From Pt. "A-9" to "A-10"

132.45' @ 2°58' @ 58° =
132.62' @ 4°17' @ " = } 132.24'
85.58' @ 0°00' @ " = 85.65'
217.805'

From Pt. "A-10" to "A-11"

40.75'
132.78'
174.03'
166.92'
514.48' @ 58°
— .0857
514.395'

* * * *

Measured Angles — Traverse Line "A"

At "A-2"

(2) 351-30-30
175-45-15
(4) 343-01-00
(6) 334-31-30
175-45-15

At "A-4"

(2) 188-34-00
94-17-00
(4) 17-08-00
(6) 205-42-15
94-17-~~02~~ 05

At "A-5"

(2) 171-23-30
85-41-45
(4) 342-47-00
(6) 154-10-30
85-41-45

At "A-7"

(2) 351-30-30
175-45-15
(4) 343-01-00
(6) 334-31-30
175-45-15

Cont'd top of pg. 70

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.
Do not extend notes this side of this line.
RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS
FORM 247 5M 11-46

F. B. 999 PG. 70 — "A" Circuit —

Notes Contd from bot. pg. 69

At "A-8"

(2) 334-00-15
167-00-07½

(4) 308-00-20

(6) 282-00-45
167-00-~~07½~~ 10

At "A-9"

(2) 286-22-15
143-11-07½

(4) 12-44-30

(6) 139-07-00
143-11-10

At "A-10"

(2) 263-39-00
131-49-30

(4) 167-18-30

(6) 70-59-45
131-49-~~37½~~ 40

At "A-11"

(2) 195-59-30
97-59-45

(4) 31-59-00

(6) 277-58-45
97-59-~~47½~~ 50

Notes Contd bot of pg. 71.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS
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.

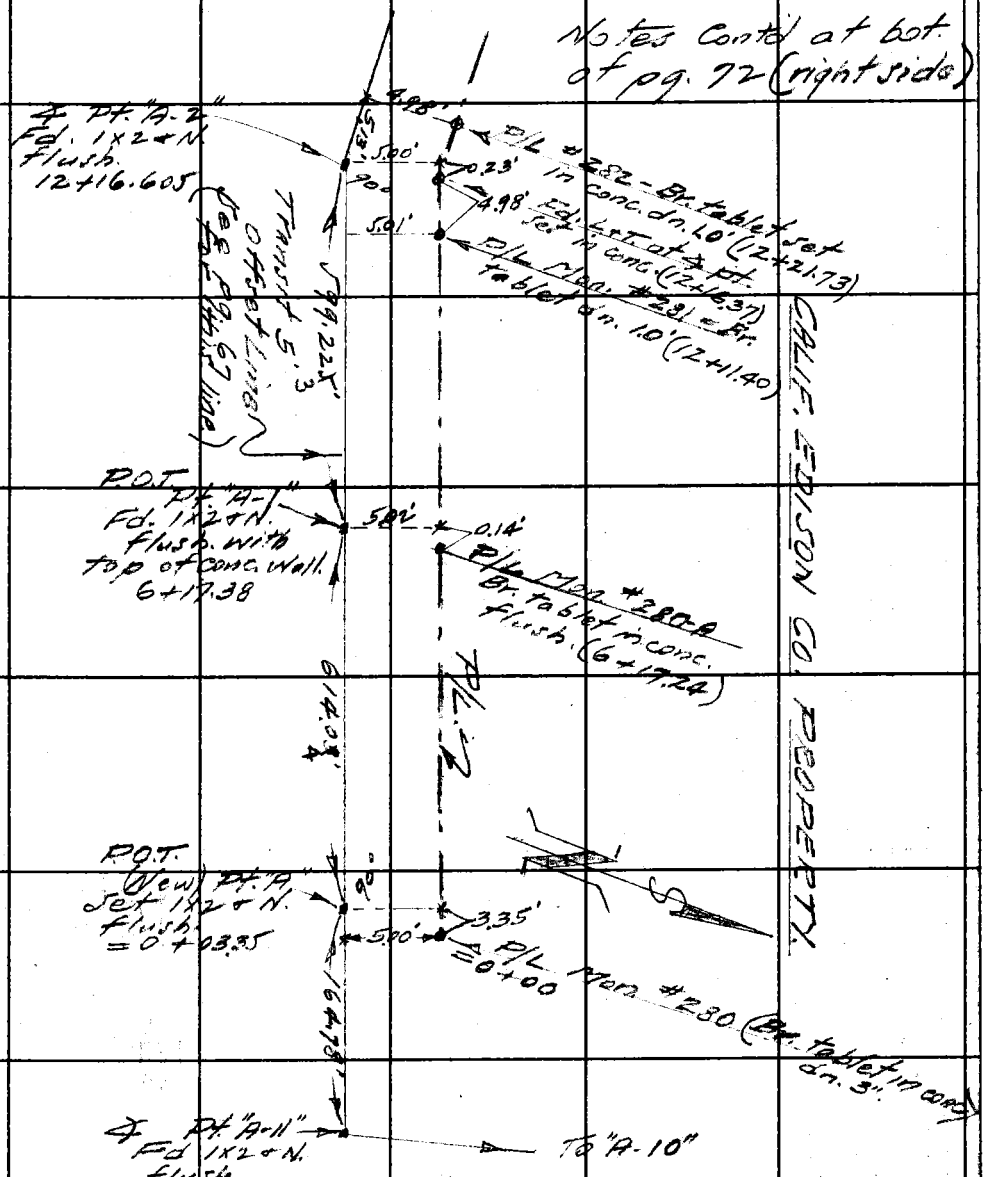
Notes Ck'd by	Survey of
Map No.	W. O. 4492 Tape No. St'd °F
Office Work	Surveyed by
Checked	Notes Date
Date	Indexed E. C. Johnson

F. B. 937 Pg. 71

"A" Circuit

P/L & GEODETIC TIES ALONG TRAVERSE LINE "A"

Notes Cont'd at bot. of pg. 72 (right side)



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

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 5M 11-46

F. B. 939 PG. 72

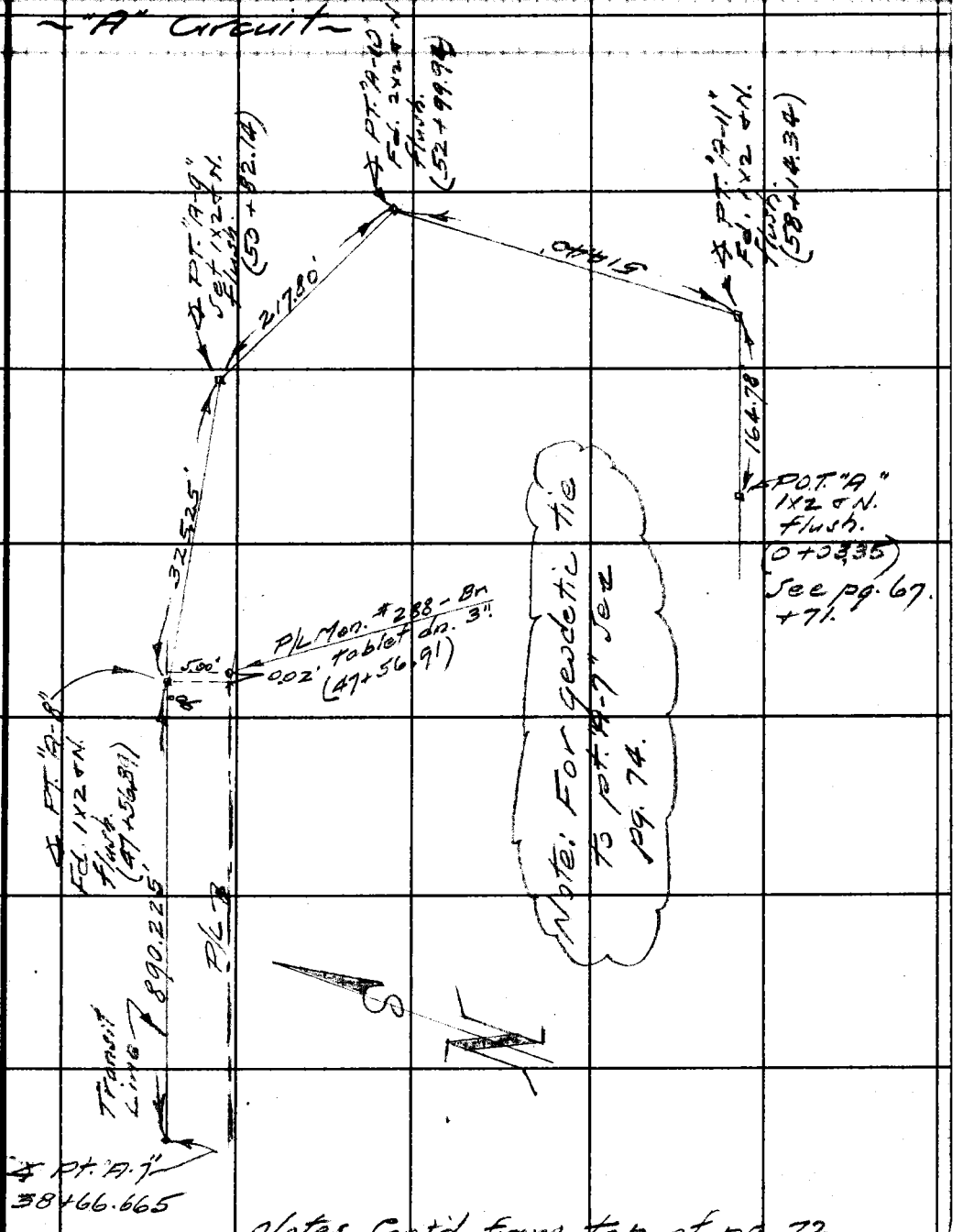
RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 [illegible] F. B. 939 Pg. 93
Map No.	W. O. 4922 Tape No. 100 St'd 84 °F
Office Work	Surveyed by [illegible]
Checked	Notes [illegible] Date 12-9-44
Date	Indexed [illegible] C. Johnson

~"A" Circuit~



Notes Cont'd from top of pg. 72

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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

Do not extend notes this side of this line.

FORM 247 SM 11-46

F. B. 937 PG. 24

~"A" Circuit~

TRAVERSE LINE TIE AT PT. "A-7" TO CALIF. EDISON CO. BASE LINE AT "BASE D-1."

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 [illegible]
Map No.	W. O. 4422 Tape No. 56 St'd 34°F
Office Work	Surveyed by G.W. Hancock
Checked	Notes G.W.H. Date 12-5-49
Date	Indexed E. C. Johnson

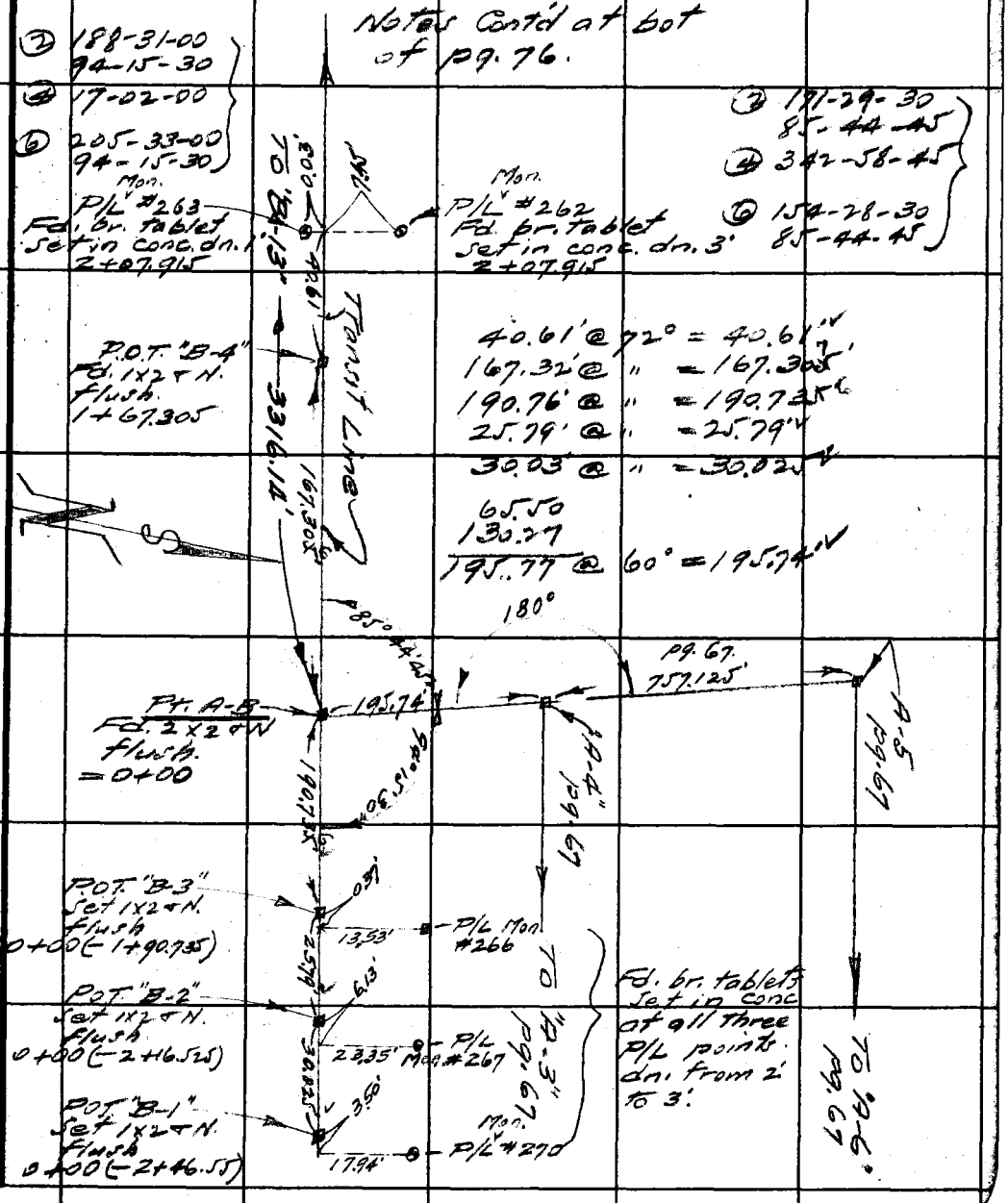
F. B. 939 Pg. 75

TRAVERSE LINE "B" CIRCUIT WITH P/L & GEODETIC TIES.

Notes Cont'd at bot of pg. 76.

(2) 188-31-00
94-15-30
(4) 17-02-00
(6) 205-33-00
94-15-30

(2) 171-29-30
85-44-45
(4) 342-58-45
(6) 154-28-30
85-44-45



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

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 BM 11-48

F. B. 937 Pg. 76

Notes Cont'd at bot. of pg. 77.

Mon. P/L #255 Fd. br. tablet set in conc. dn. 1' 10+68.42

Mon. P/L #254 Fd. br. tablet set in conc. dn. 18" 10+68.42

"B" Traverse Line

Mon. P/L #257 Fd. br. tablet set in conc. dn. 3'

P.O.T. "B-6" Fd. 1x2 + N. 006 So. of line - Reset. 8+26.96

Transit Line

Chng pt. 6+79.54

P.O.T. "B-5" Fd. 1x2 + N. flush 003' S. of line - Reset. 4+73.215

Mon. P/L #258 Fd. br. tablet set in conc. dn. 2' 4+68.775

Mon. P/L #261 Fd. br. tablet set in conc. dn. 2' 4+08.82

Mon. P/L #263 2+07.915

Mon. P/L #262 2+07.915

To "B-13" ← 3316.14' → To "A-B" = 0+00

300' Tape #056 Tpd @ 84°

200.92' @ 72° = 200.905'
59.96' @ " = 59.955'
4.44' @ " = Same
206.34' @ " = 206.325'
147.43' @ " = 147.42'
7.24' @ " = Same
234.24' @ 70° = 234.22'

Notes Cont'd from top of pg. 75

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

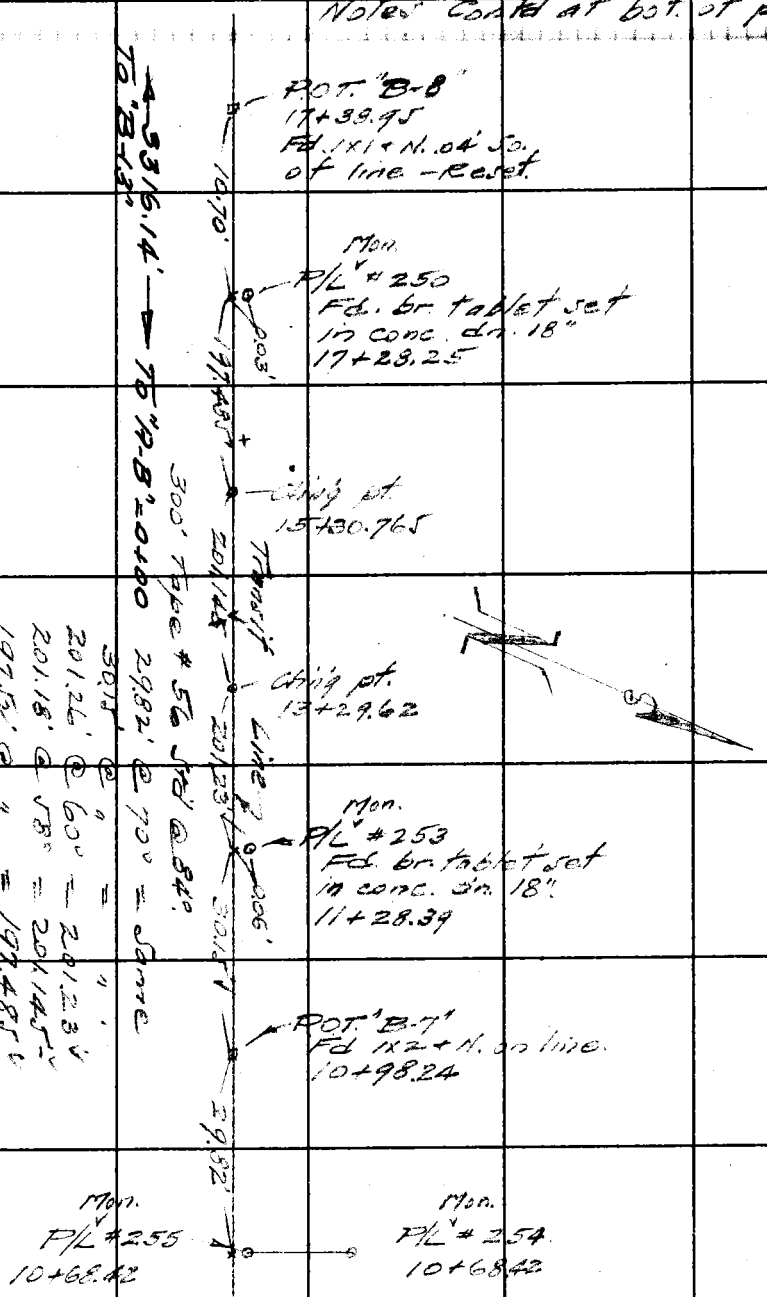
Do not extend notes this side of this line.

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 [illegible]	F. B. 937 Pg. 77
Map No.	W. O. [illegible] Tape No. 56 St'd 84 °F	
Office Work	Surveyed by G.W. Kleineck	
Checked	Notes G.W.K. Date 12-6-'49	
Date	Indexed A. C. Johnson	

"B" Traverse Line.

Notes Cont'd at bot. of pg. 78.



Notes Cont'd from top of pg. 76

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

Do not extend notes this side of this line.

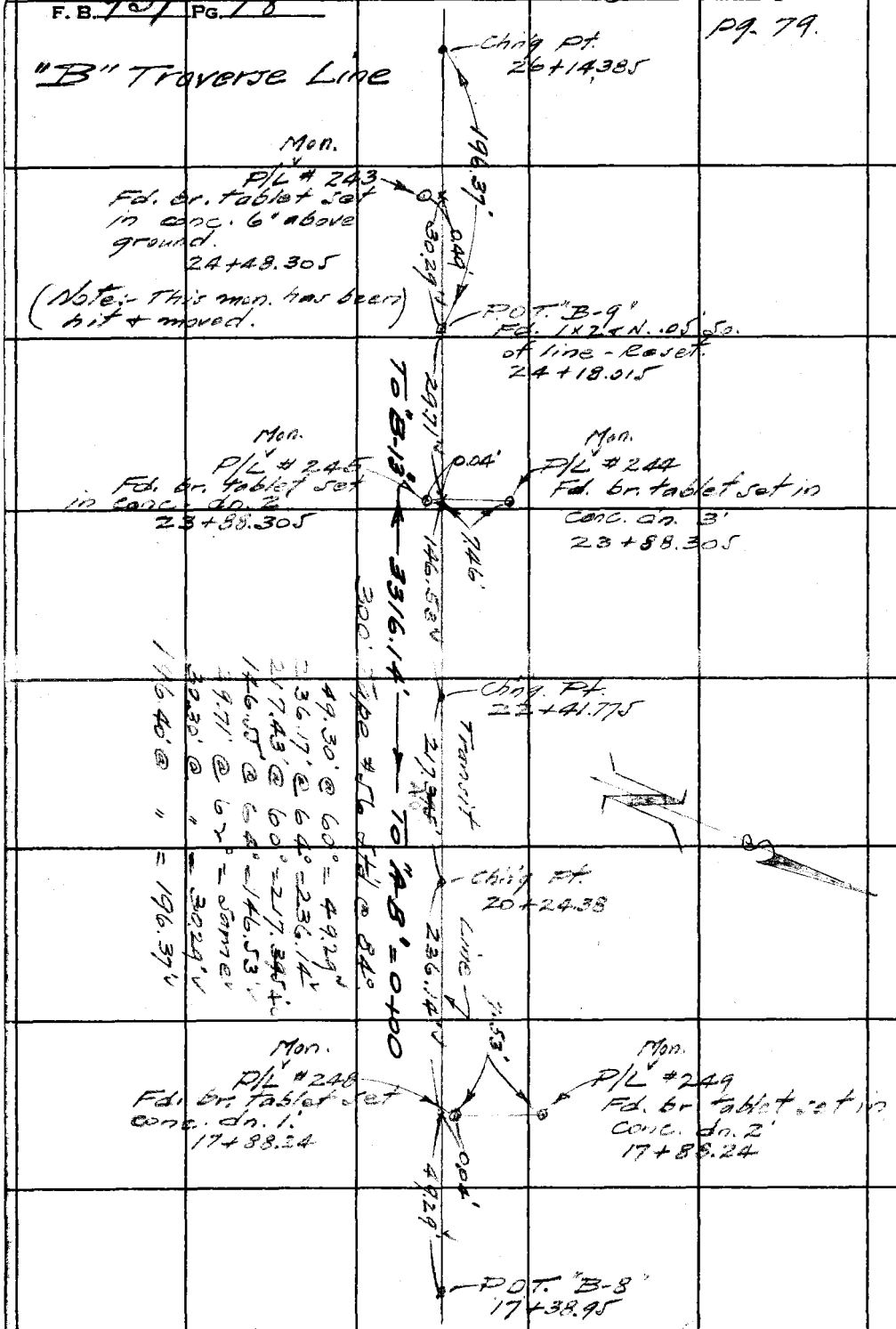
RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 SM 11-46

F. B. 937 Pg. 78

Notes Cont'd at bot of pg. 79.

"B" Traverse Line



Notes Cont'd from top of pg. 77

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS
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 [illegible]	F.B. 937 Pg. 79
Map No.	W. O. 4922 Tape No. 56 St'd 34°F	
Office Work	Surveyed by G.W. Kleineck	
Checked	Notes G.W.K. Date 12-6-49	
Date	Indexed A. C. Johnson	

Notes Cont'd at Bot. of pg. 80

℄ Pt. "B-13" = old "B-10" pages 16 + 29.

33+16.14 (New)

"B" Trav. Line

To Rail #1 (U.S.C. & G.S.)

61.125'

Mon. P/L #235 Fd 4x4 & N. over br. tablet fd. Set in conc. dn. 5'±. 32+55.015

To "B-13" 193.015' 0.16'

P.O.T. "B-12" Fd. 1x2 & N. on line 30+62.00

33+16.14' 41.735'

P.O.T. "B-11" Fd. 1x2 & N. .02' So. of line - Reset. 30+20.265

44.175'

P.O.T. "B-10" Fd. 2x2 & N. on line. 29+76.09

To A-B = 0+00.

149.33'

Transit Line

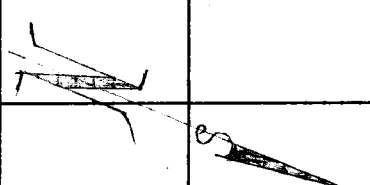
149.69' @ 3°50' @ 64°
149.52' @ 2°45' @ " } = 149.33'

212.40' @ 64° = 212.375"
44.18' @ 62° = 44.175'
41.74' @ " = 41.735'
193.04' @ 64° = 193.015'
61.13' @ 66° = 61.125'

Chng Pt. 28+26.76

212.375'

Chng Pt. 26+14.385



Notes Cont'd from top of pg. 78.

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

Do not extend notes this side of this line.

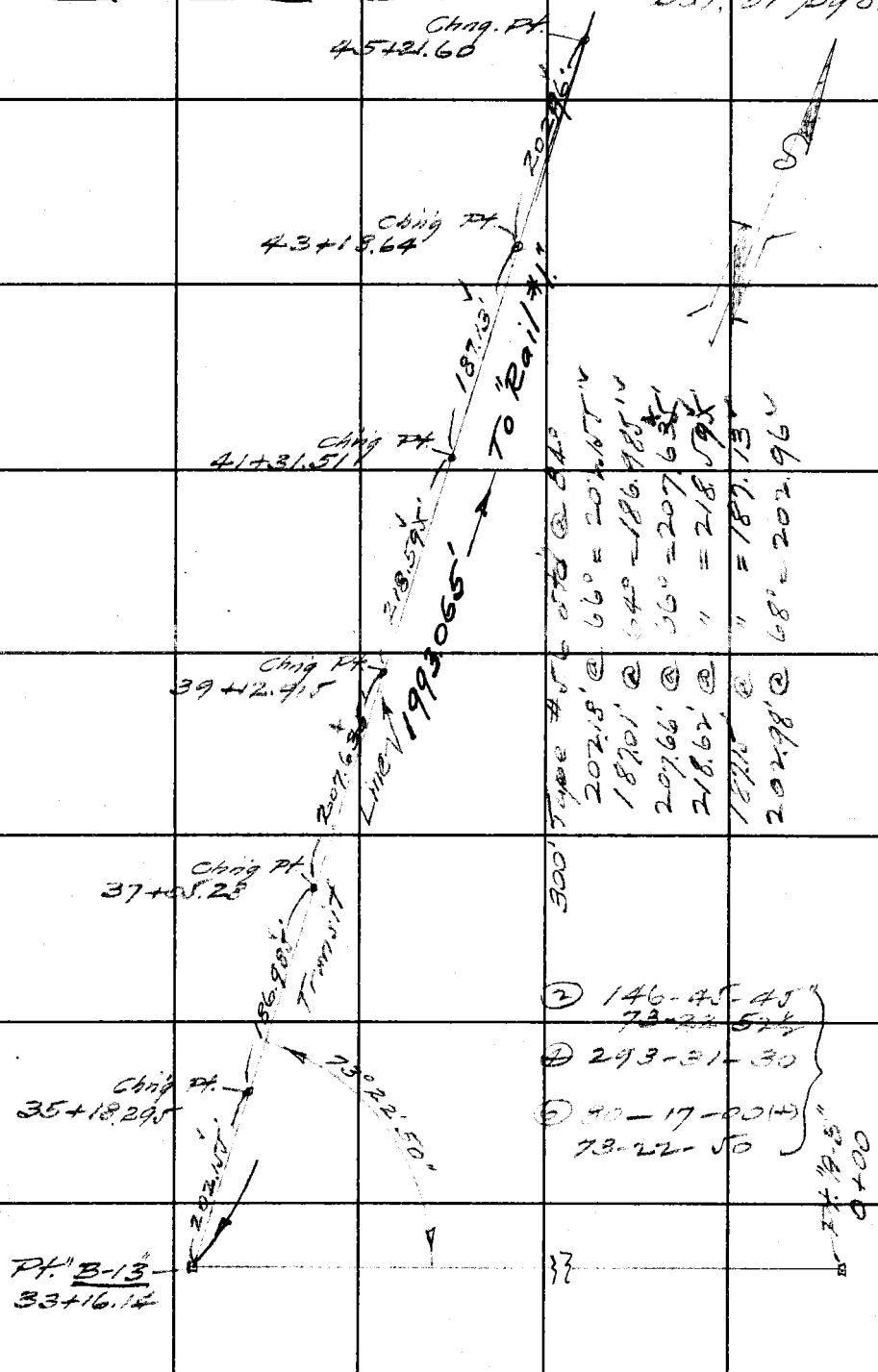
RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 5M 11-46

F. B. 937 PG. 80

"B" Traverse Line

Notes Contd at bot. of pg 81.



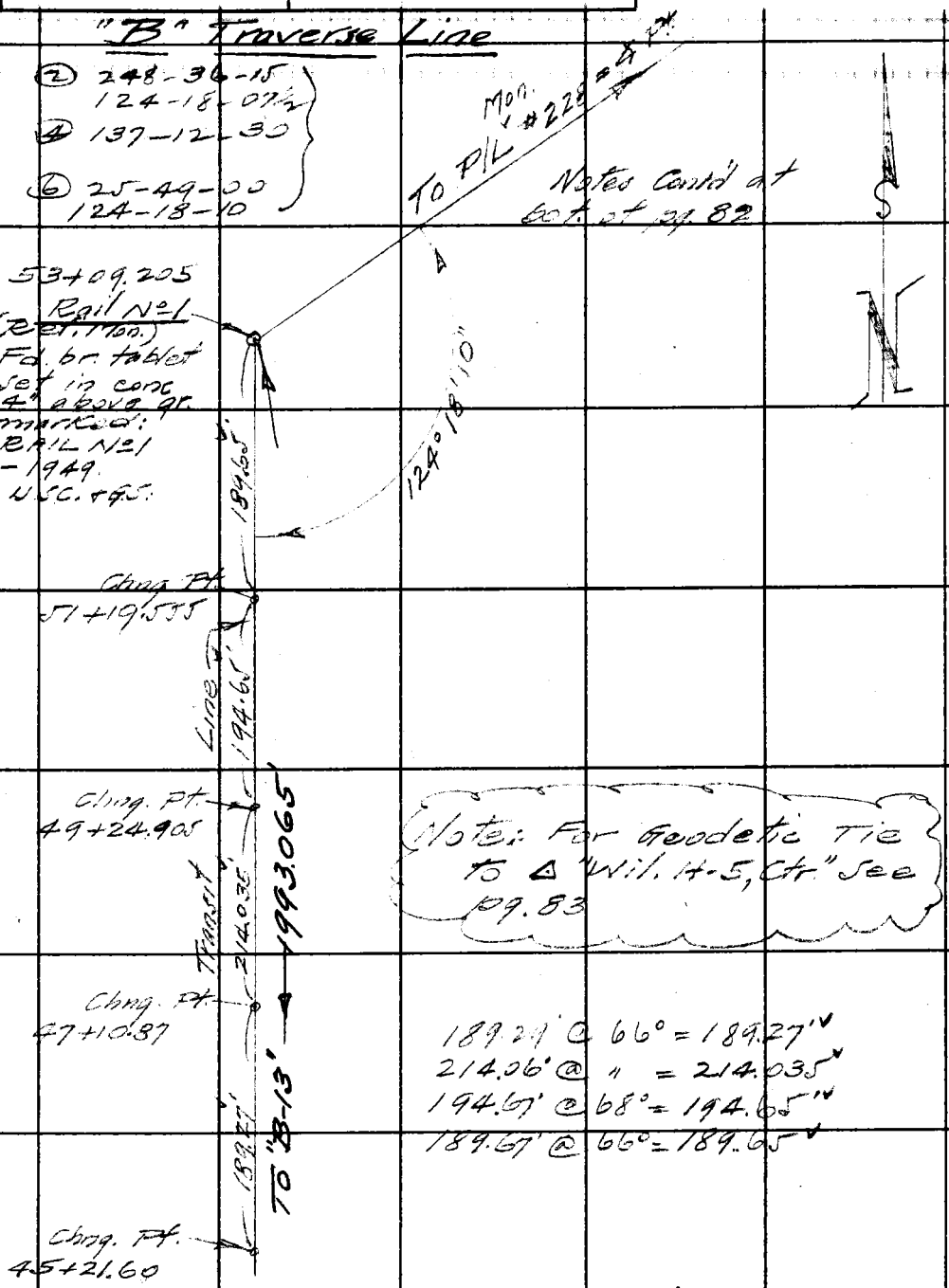
Notes Contd from top of pg. 79.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS
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 [illegible]	F. B. 937 Pg. 81
Map No.	W. O. 4922 Tape No. 56 St'd 84 °F	
Office Work	Surveyed by G.W. Kleweck	
Checked	Notes GWK Date 12-6-49	
Date	Indexed A. C. Johnson	

"B" Traverse Line

(2) 248-36-15
124-18-07½
(4) 137-12-30
(6) 25-49-00
124-18-10



Notes Cont'd from top of pg. 80.

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

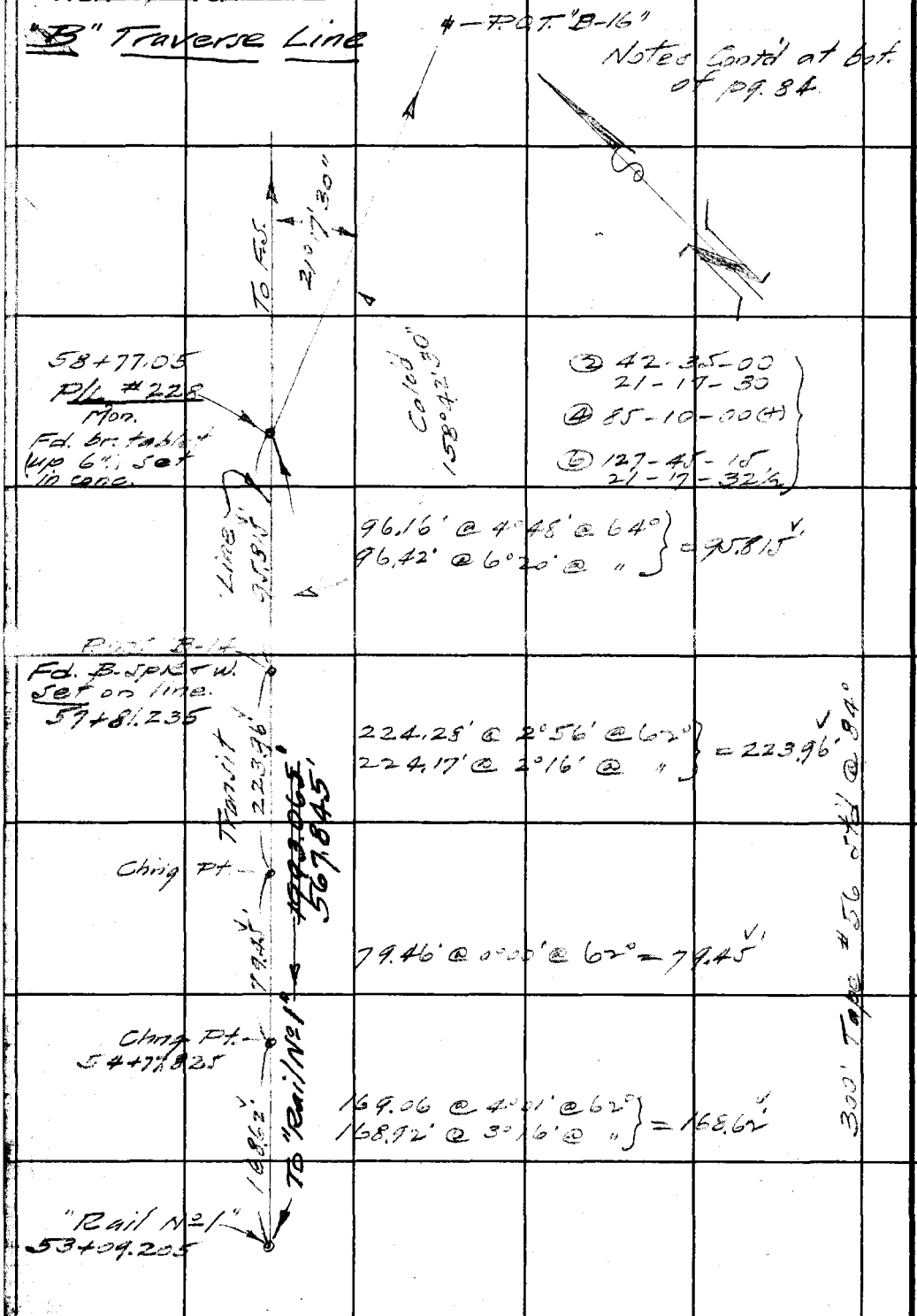
Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 5M 11-46

F. B. 937 PG. 82

"B" Traverse Line



Notes Cont'd from top of pg. 81.

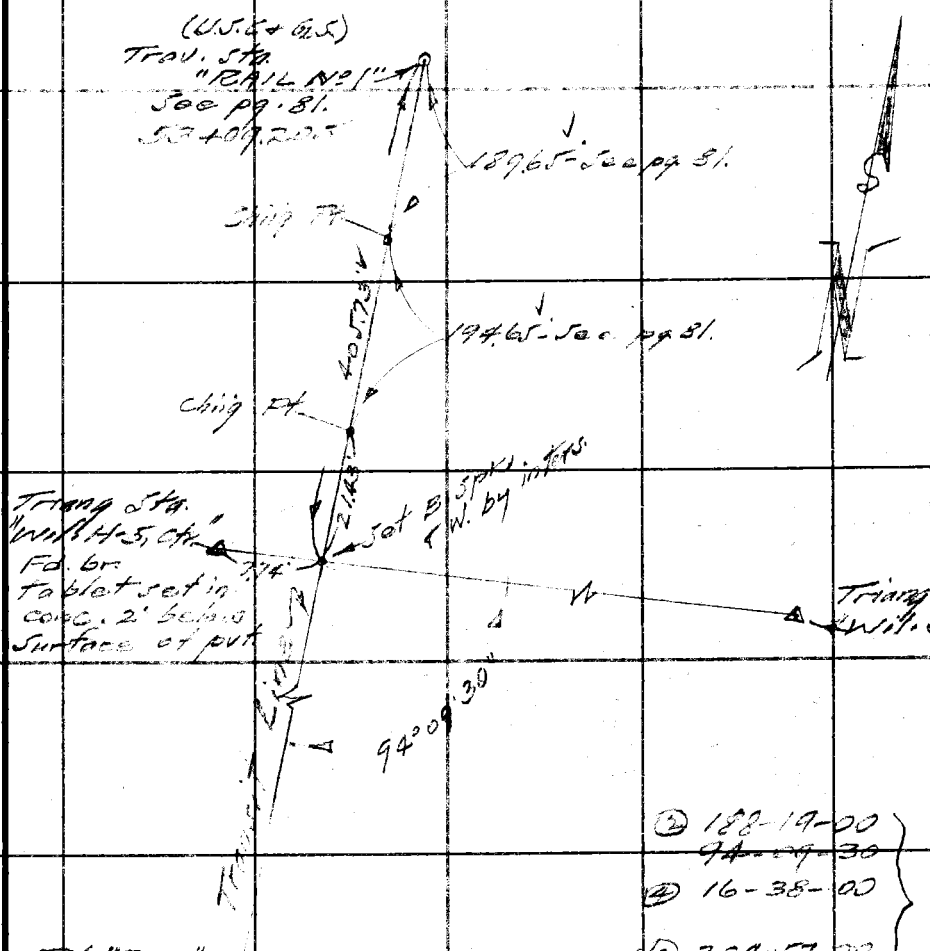
RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS
Do not extend notes this side of this line.
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of [illegible]
Map No.	W. O. [illegible] Tape No. 56 St'd 84 °F
Office Work	Surveyed by G. W. Howard
Checked	Notes PWK Date 12-7-49
Date	Indexed A. C. Johnson

F. B. 939 Pg. 83

"B" Traverse Line

TIE TRANSIT TRAVERSE LINE TO GEOD. CONTROL STA. "WIL. H-5, CTR."



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

Do not extend notes this side of this line.

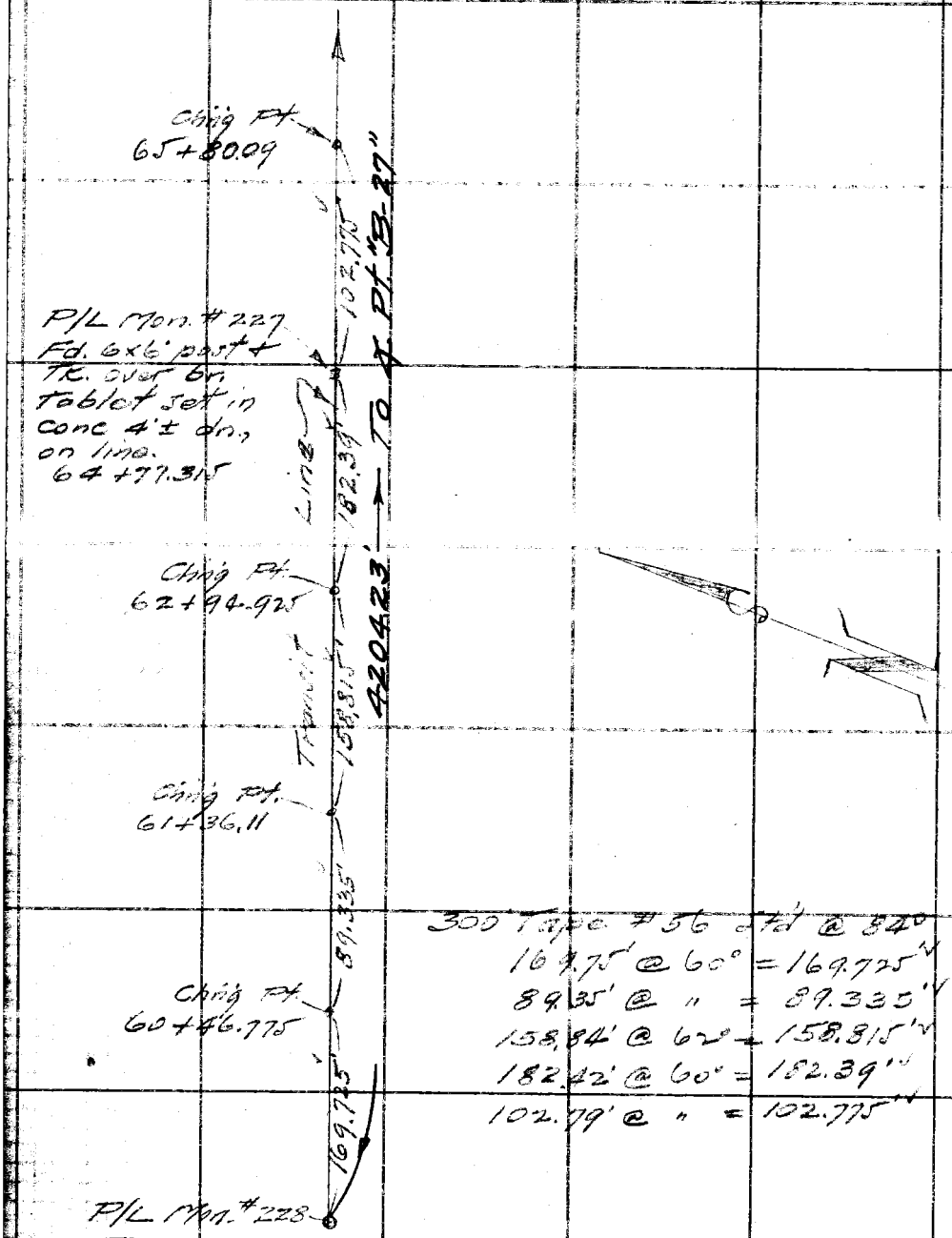
RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 5M 5-46

F. B. 937 PG. 84

Notes Cont'd at bot. of pg. 85.

"B" Traverse Line



300 Tape #56 std @ 84°
169.75' @ 60° = 169.725'
89.35' @ " = 89.335'
158.84' @ 60° = 158.815'
182.42' @ 60° = 182.39'
102.79' @ " = 102.775'

Notes Cont'd from top of pg. 82

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 [illegible]
Map No.	W. O. 4927 Tape No. 56 St'd 84°F
Office Work	Surveyed by F.W. Kleineck
Checked	Notes F.W.K. Date 12-7-44
Date	Indexed A. C. Johnson

F. B. 937 Pg. 85

"B" Traverse Line

Notes Cont'd at bot. of pg. 86.

Ching Pt. 74+08.82

300' Tape #56 Std @ 84°
76.06' @ 64° = 76.05'
[illegible]
[illegible]

Ching Pt. 72+15.775

Ching Pt. 71+95.885

193.065'
1987'
76.05'

Transit Line

P.O.T. "B-16" Set W. spk. & T. 71+19.835

500'

P.O.T. "B-17" Set W. spk. & N. 71+19.835

131.46 @ 4°53' @ 60°
131.37' @ 4°23' @ "
= 130.965'

76.84' @ 0°00' @ 60° = 76.83'

130.965'
76.830'
207.795'

207.795'

P/L Mon. #226 Fd. Sr. tablet set in conc. 4" dn. 69+12.04

.006'

5' Offset Line

27.19'
3.82'
300.99'
332.00' @ 60° = 331.95'

Transit 331.95'

Ching Pt. 65+80.09

5' offset at P/L Mon. #228.

Notes Cont'd from top of pg. 85.

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

Do not extend notes this side of this line.

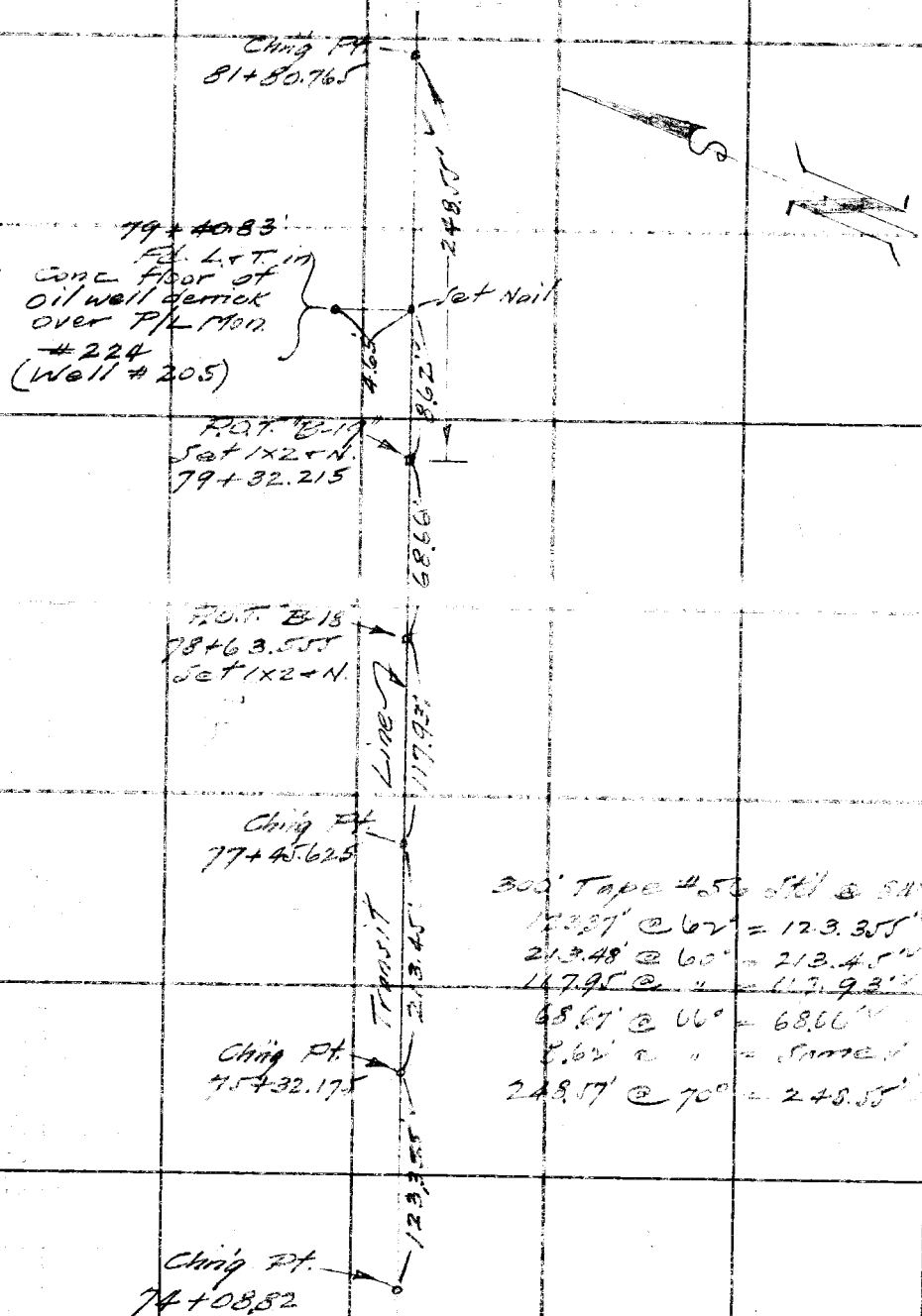
RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 5M 5-46

F. B. 937 PG. 86

Notes Cont'd at bot. of pg. 88

"B" Traverse Line



300' Tape #56 Std @ 68°
123.37' @ 62° = 123.355'
213.48' @ 60° = 213.45'
117.95' @ " = 117.93'
68.67' @ 66° = 68.66'
8.62' @ " = Same
248.57' @ 70° = 248.55'

Notes Cont'd from top of pg. 85.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

Do not extend notes this side of this line.

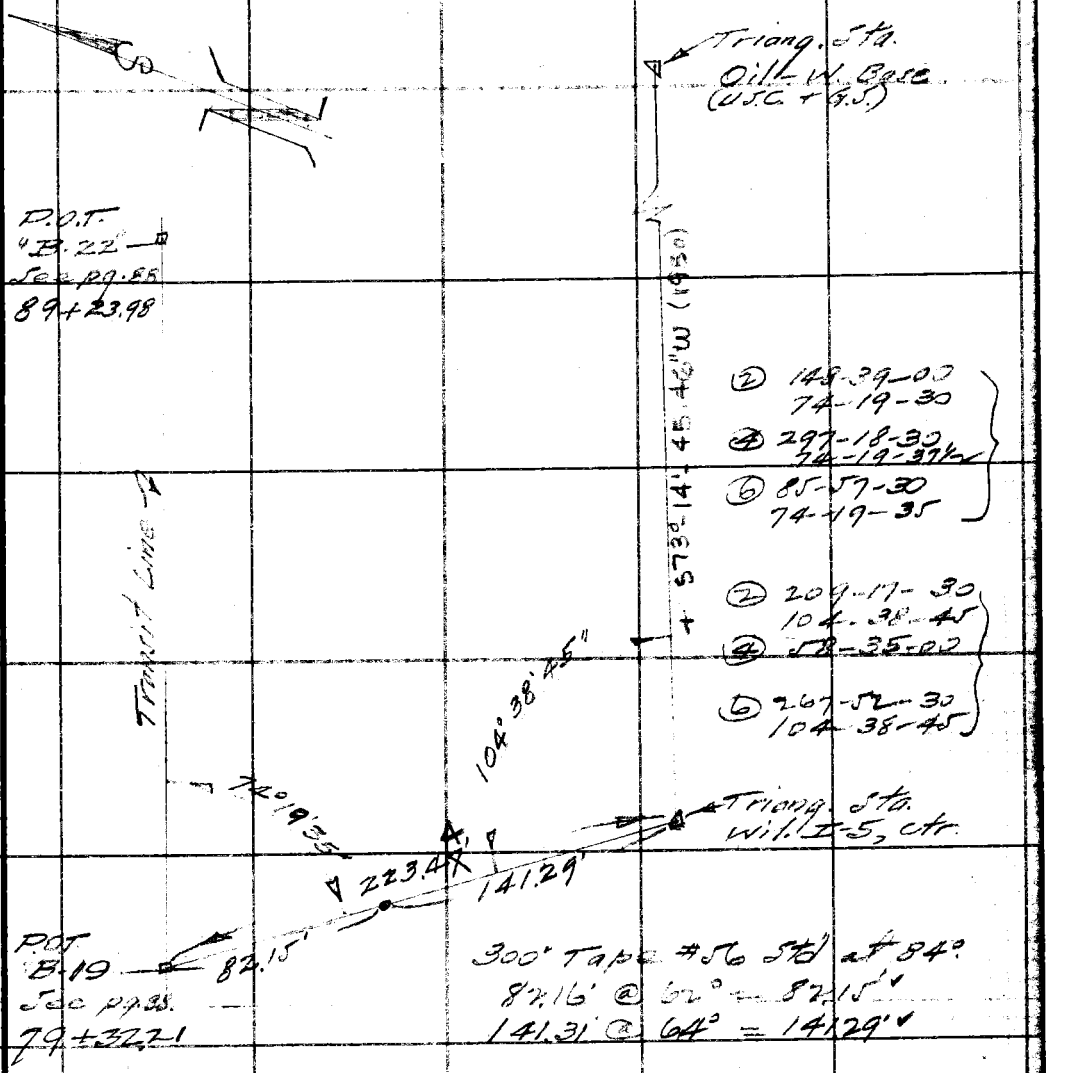
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of [illegible]
Map No.	W. O. 4922 Tape No. 56 St'd 54 °F
Office Work	Surveyed by [illegible]
Checked	Notes FWK Date 12-13-49
Date	Indexed A. C. Johnson

F. B. 937 Pg. 89

"B" Traverse Line

TRANSIT TRAVERSE LINE TIE TO TRIANGULATION STA. "WIL. I 5"



300' Tape #56 Std at 54°
82.16' @ 62° = 82.15' ✓
141.31' @ 64° = 141.29' ✓

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

Do not extend notes this side of this line.

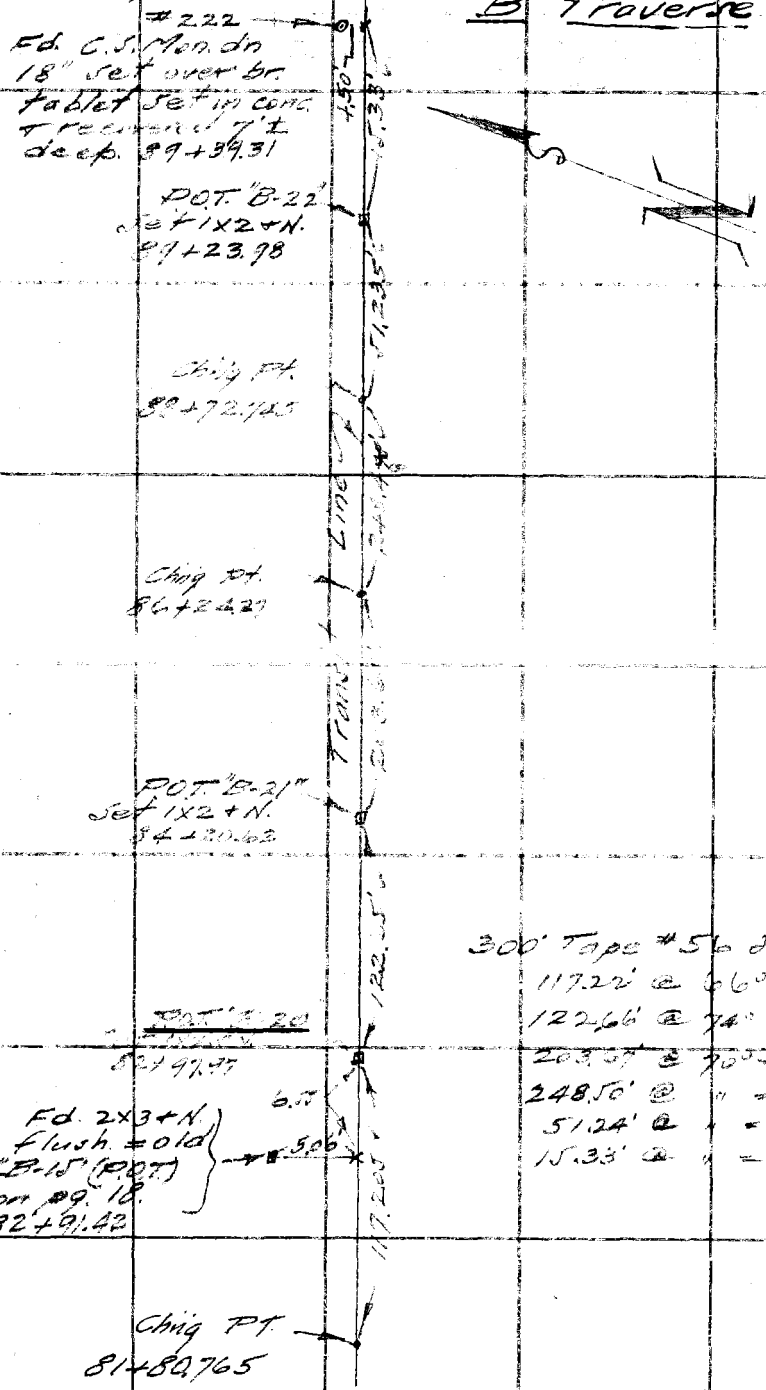
RETURN TO LOS ANGELES COUNTY SURVEYOR 700 HALL OF RECORDS

FORM 247 5M 5-46

F. B. 937 PG. 88

Notes Cont'd at bot. of pg. 89.

"B" Traverse Line



300' Tape #56 Std @ 84°
117.22' @ 66° = 117.205'
122.66' @ 74° = 122.65'
203.67' @ 70° = 203.65'
248.50' @ " = 248.475'
51.24' @ " = 51.235'
15.33' @ " = Same

Notes Cont'd from top of pg. 86

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 [illegible]
Map No.	W. O. [illegible] Tape No. [illegible] St'd [illegible] °F
Office Work	Surveyed by [illegible]
Checked	Notes [illegible] Date 12-9-49
Date	Indexed A. C. Johnson

F. B. 939 Pg. 89

"B" Traverse Line

Notes Cont'd at bot. of pg. 90.

Chng Pt. 95+57.47

P/L Mon. #221 Fd. 4x4 + Tk. over br. tablet fd. set in conc. dn. 7'±. 94+38.51 — 4.49'

Fd. 1x2 + N. 93+85.01 = old P.O.T. "B-18", pg. 19. — 5.19'

53.50' 188.136

5.68'

P.O.T. "B-25" Set 1x2 + N. 93+69.335

Line 91.52'

P.O.T. "B-24" 92+77.815 Set 1x2 + N.

Transit 182.07'

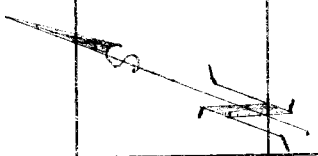
P.O.T. "B-23" Set 1x2 + N. 90+95.745

10.32'

Fd. 2x3 + N. flush = old P.O.T. B-17 pg. 19. 90+85.42 (New) — 5.12'

171.765

P.O.T. "B-22" 89+23.98



Tape #56 Std @ 84°.
171.78' @ 72° = 171.765
10.32' @ " = Same
182.09' @ 66° = 182.07
91.53' @ " = 91.52
15.65 @ 64° = Same
53.51' @ " = 53.50
188.16' @ " = 188.135

Notes Cont'd from top of pg. 88.

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

Do not extend notes this side of this line.

RETURN TO LOS ANGELES COUNTY SURVEYOR 700 HALL OF RECORDS

FORM 247 5M 5-46

F. B. 937 PG. 90

"B" Traverse Line

② 206-44-30
103-22-15
④ 53-29-00
⑥ 260-13-30
103-22-15

Chng Pt. 101+97.525

135.76' @ 1°38' @ 56°
135.85' @ 2°42' @ " } 135.68'

P.O.T. "B-28"
Set 1x2 + N
103+33.205

Notes Cont'd at bot. of pg. 91

135.68
860,515'
To ℄ Pt. "B-29-A-9"

℄ Pt. "B-27"
Set 2x4 + N. flush
100+81.28

116.245

P/L Mon. #219
Fd. 4x4 post + tk
dn. 1' over br.
tablet fd. set
in conc. dn. 3.5'±
100+41.98

4.47'

103°22'15"

15.476

P/L Mon. #220
Fd. 4x4 post + N.
3" dn. over br.
tablet set in
conc. 3'± dn.
99+37.75

4.44'

115.46'

11.23'

154.82' @ 1°25' @ " } 154.76

P.O.T. B-26
Set 1x2 + N.
99+26.52

Line

214.035'

4204.23

214.27' @ 2°06' @ 58°
214.17' @ 1°13' @ " } 214.035'

Chng Pt.
97+12.485

Transit

155.015'

To P/L Mon #228

300' Tape #56 Std @ 84°
155.33' @ 66° = 155.015'
11.23' @ " = Same
115.47' @ 68° = 115.46'
116.27' @ 54° = 116.245'

Chng Pt.
95+57.47

Notes Cont'd from top of pg. 89

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

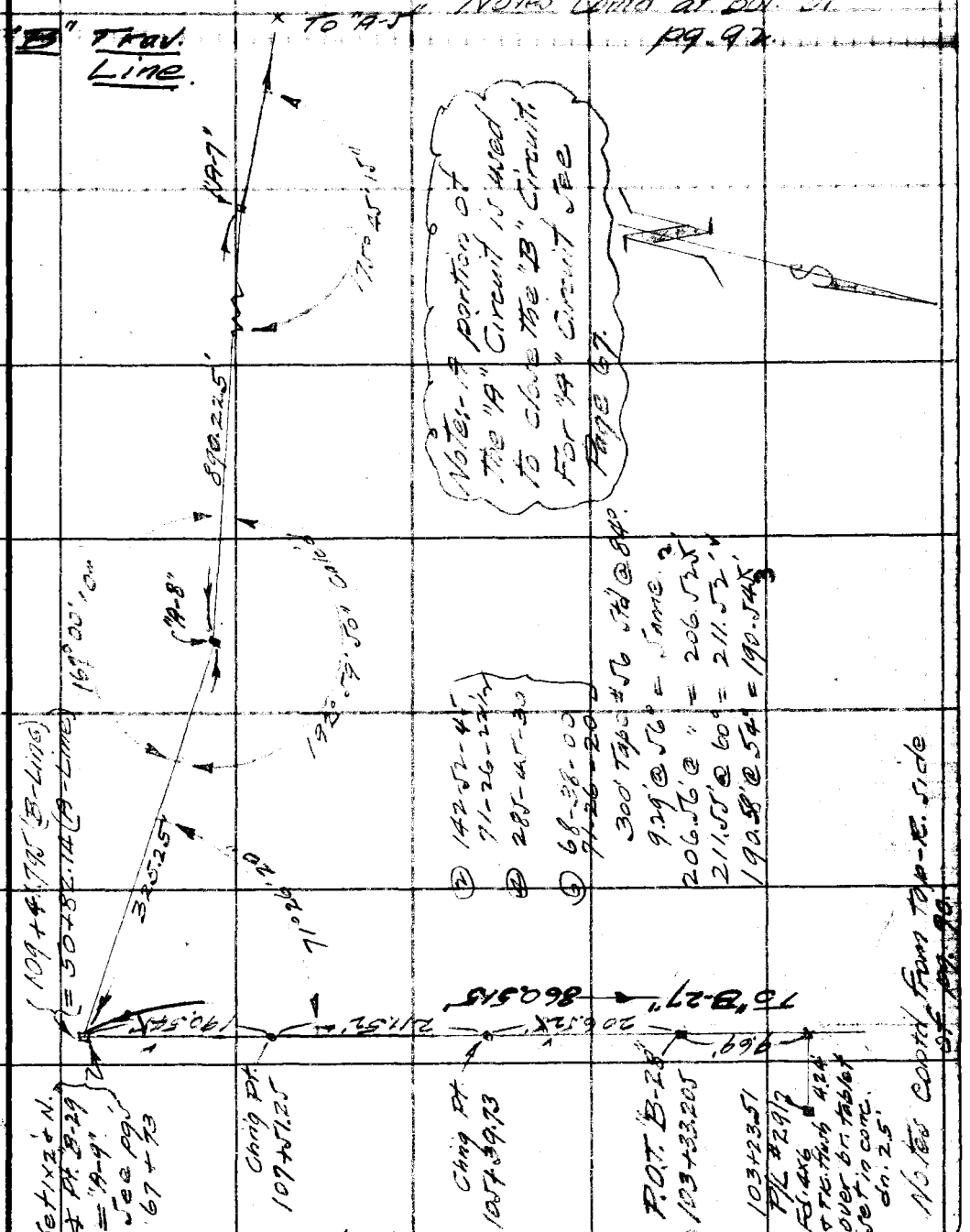
Do not extend notes this side of this line.

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 [illegible]
Map No.	W. O. 2922 Tape No. 56 St'd. 84 °F
Office Work	Surveyed by G.W. Klemack
Checked	Notes G.W.K. Date 12-12-49
Date	Indexed A. C. Johnson

F. B. 937 PG. 91

Notes Cont'd at bot. of pg. 92.



Notes Contd from top-R. side of pg. 90.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

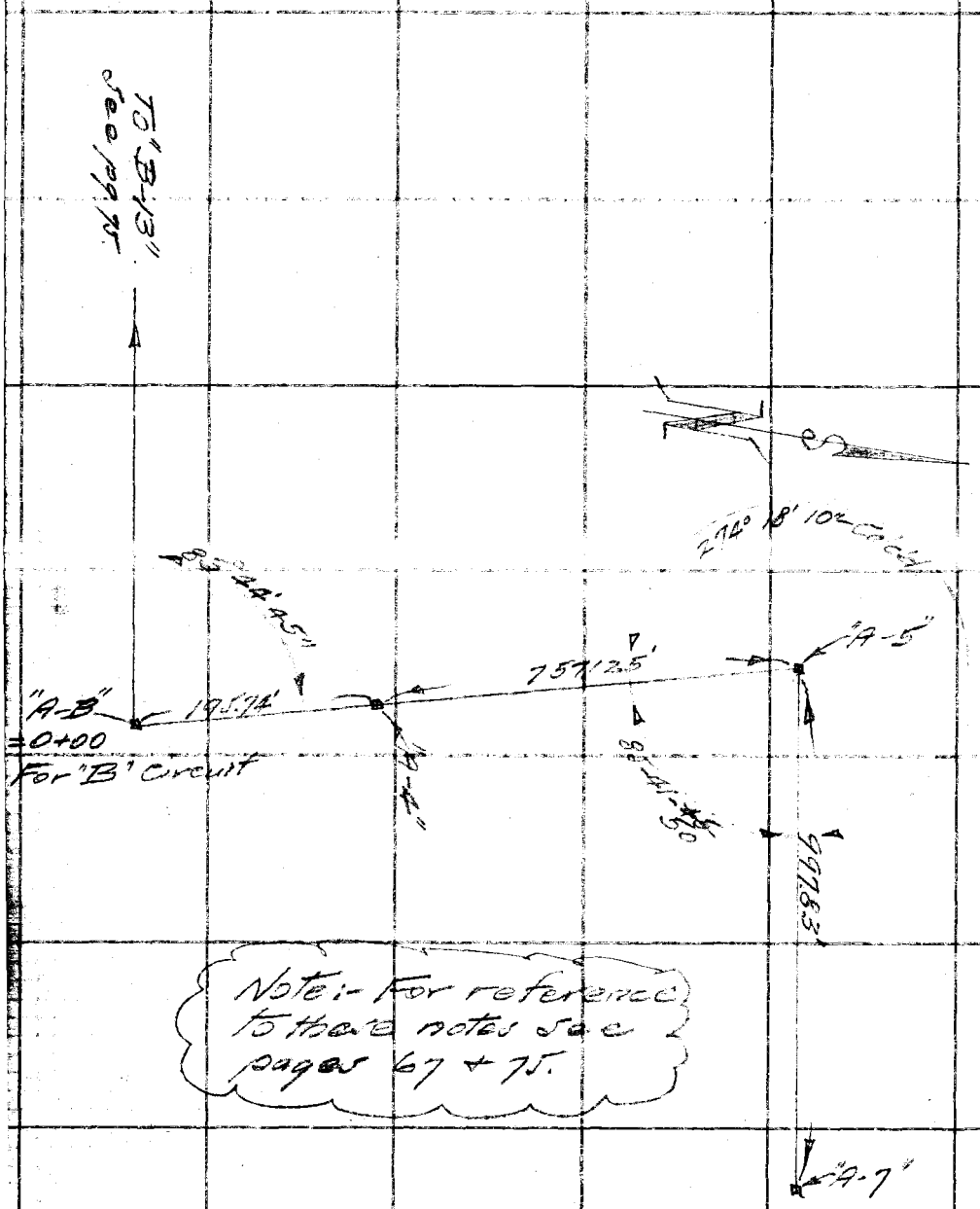
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

FORM 247 5M 5-46

F. B. 939 PG. 92

"B" Traverse Line



Note:- For reference to these notes see pages 67 + 75.

Notes Cont'd from top of pg. 91.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS
Do not extend notes this side of this line.

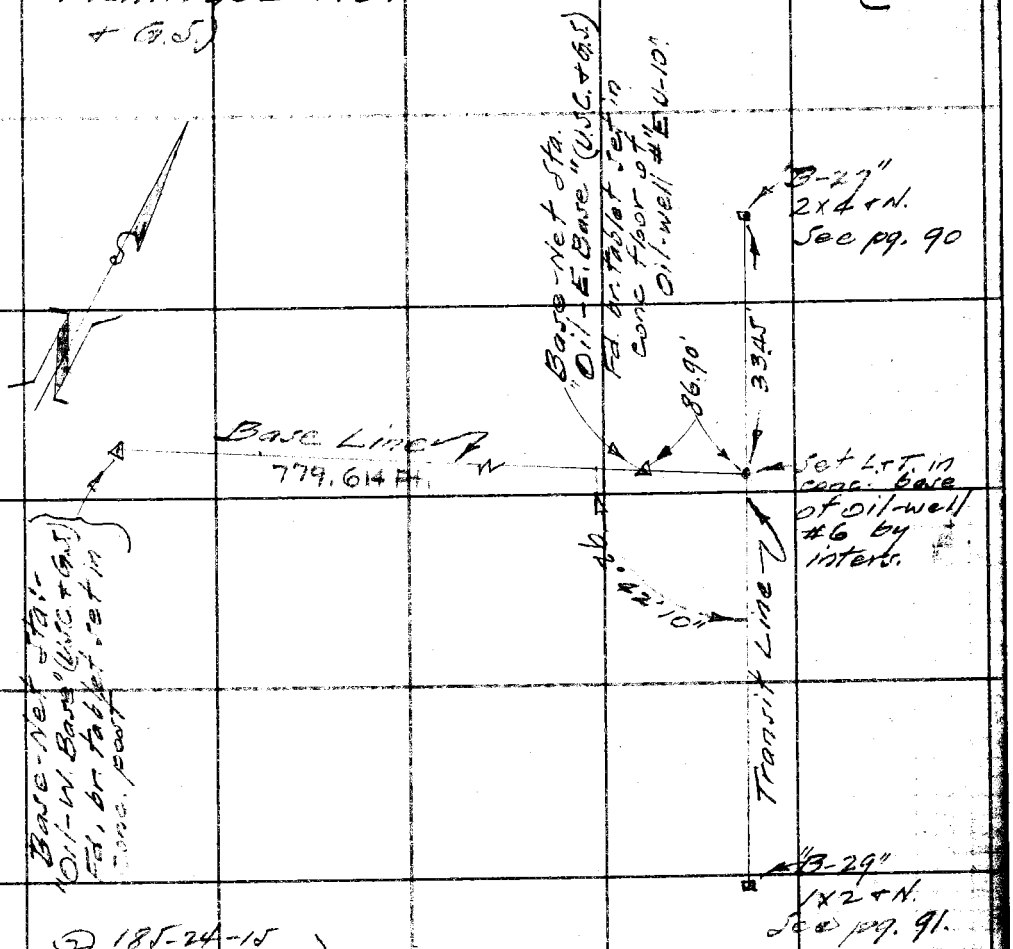
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of [illegible]
Map No.	W. O. 4922 Tape No. 56 St'd 84 °F
Office Work	Surveyed by G.W. Kleineck
Checked	Notes GWK Date 12-13-44
Date	Indexed A. C. Johnson

F.B. 937 PG. 93

"B" Traverse Line

TRAVERSE LINE TIE TO GEOD. CONT. TRIANGULATION STA. "OIL-E. BASE" (U.S.C. + G.S.)



② 185-24-15
92-42-07½
④ 10-48-30
⑥ 196-13-00
92-42-10

86.91' @ 68° = 86.90'

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

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 5M 5-46

F. B. 937 PG. 94

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
Map No.	W. O. Tape No. St'd. °F
Office Work	Surveyed by
Checked	Notes Date
Date	Indexed A. C. Johnson 12-6-51

F. B. Pg. 991

LONG BEACH SUBSIDENCE
J.N. 4922.

PROPERTY LINE TIES TO
GEODETIC CONTROL SYSTEM

~ REFERENCE MAP ~
UNION PACIFIC R.R. CO. PROPERTY
SURVEY. LOS ANGELES — LONG
BEACH HARBOR AREA.
By Francis Bates
1937-1941.

Personnel — Field Survey.

G.W. Kleineck.	H.E. Granquist
J.W. Moore.	A. Carrasco.
C.E. Shoemaker.	D. Le Gault.
D. Sappell.	D.H. Parker.
J.H. Brown.	Paul K. Swisher.
A. Guizado.	
E.F. Shure.	

July — Nov., 1951.

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RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
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76F309S 247 10M 1-49

F. B. 937 PG. 98

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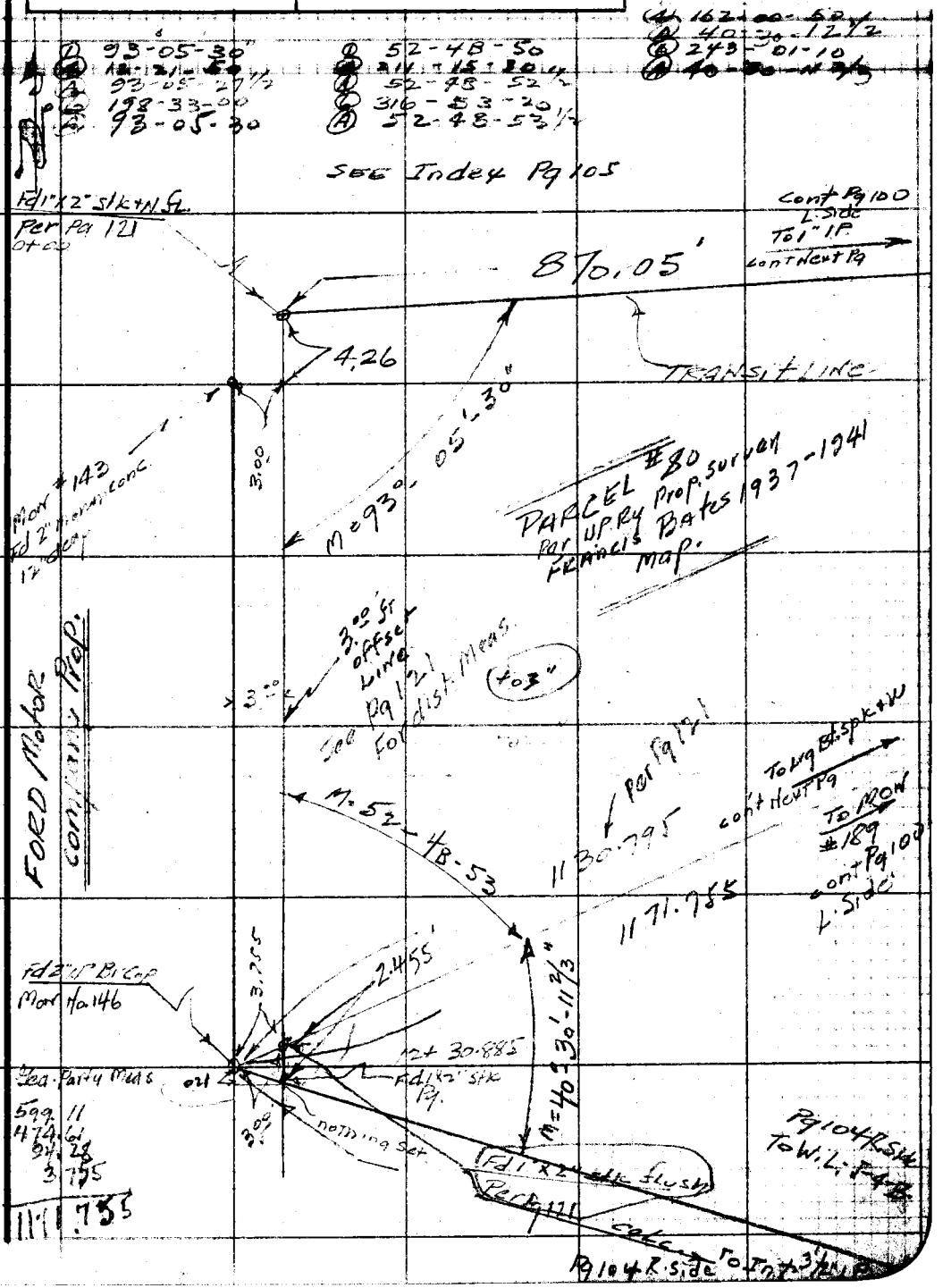
Notes Ck'd by	Survey of Long Beach Subsidiary
Map No.	W. O. 4920 Tape No. 0123 St'd. 68 °F
Office Work	Surveyed by H. E. GRANDQUIST
Checked	Notes G. Date 11-2-51
Date	Indexed [illegible] Johnson

F. B. [illegible] PG. 99



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726 LOS ANGELES COUNTY
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F. B. 937 PG. 100

Fd Lt T
Ch Wk. I-3-R.

Calc.

49-44-50
198-59-40
49-44-55
298-29-10
49-44-51 2/3

870.05 @ norm.

cont Pg 102
Left Bot.

PARCEL 82
W.P. By Prop. Survey

826.19 @ 70° = 826.19

97-20-20
29-21-10
97-20-17½
224-01-30
97-20-15

M=97°-20'-15"

M=826.19

66°-02'-40"
264°-10'-40"
66-02-40
36-16-20
66-02-43½

55-37-10
222-28-40
55-37-10
333-42-40
55-37-06½

M=49°-44'-52"

89°-42'-45"
358°-51'-00"
89-42-45"
178-16-40"
89-42-46⅔

Point
SET 1" I.P. 6" Deep

58-20-00
233-19-50
58-19-57½
349-59-40
58-19-56⅔

107-52-05
71-28-30
107-52-07½
287-13-00
107-52-10"

cont Pg 97

Tot 1x2 3/12
870.05
M= (Mag Br. N-84° 30' E)

M=89°-42'-46⅔

Trav. Rd

M=66°-02'-43½
(66-02-45 adj. Field)

Calc.

Fd Lt T
Ch Wk. I-4-B

Pg 104

Pg 101

101.16
Pot

268.99

M=58°-19'-57"
(58°-20'-05 Adj. Field)

Scrap Pole

Trav Rd

W.P. Well No. 231

Parcel #81

M=594.85'

Pot.
Set 1" Bl Spk
3" deep in Trav Rd

M=55°-37'-06⅔"
(55-37-10 adj. Field)

Calc.
638.69'
(Mag Bear = N-46° 15' E)

Pot.
Set 1" Bl Spk
3" deep in Trav Rd

40.96'

0.68' Meas.

594.85 @ norm. °W. Leg.

Pg 121

Pg 84

Pg. 1171.755

Mon. No. 189
Fd. 2" I.P. Brass Cap
3" dp. Set 2" I.P. R.C.
Number Hot Leg.
with 4"x4" Stk
Reset 4"x4" 3" dp.

W.P. Oil Well #228

PARCEL #83
W.P. Ry. Property Survey
By Francis Bates 1937-1941
MAP.

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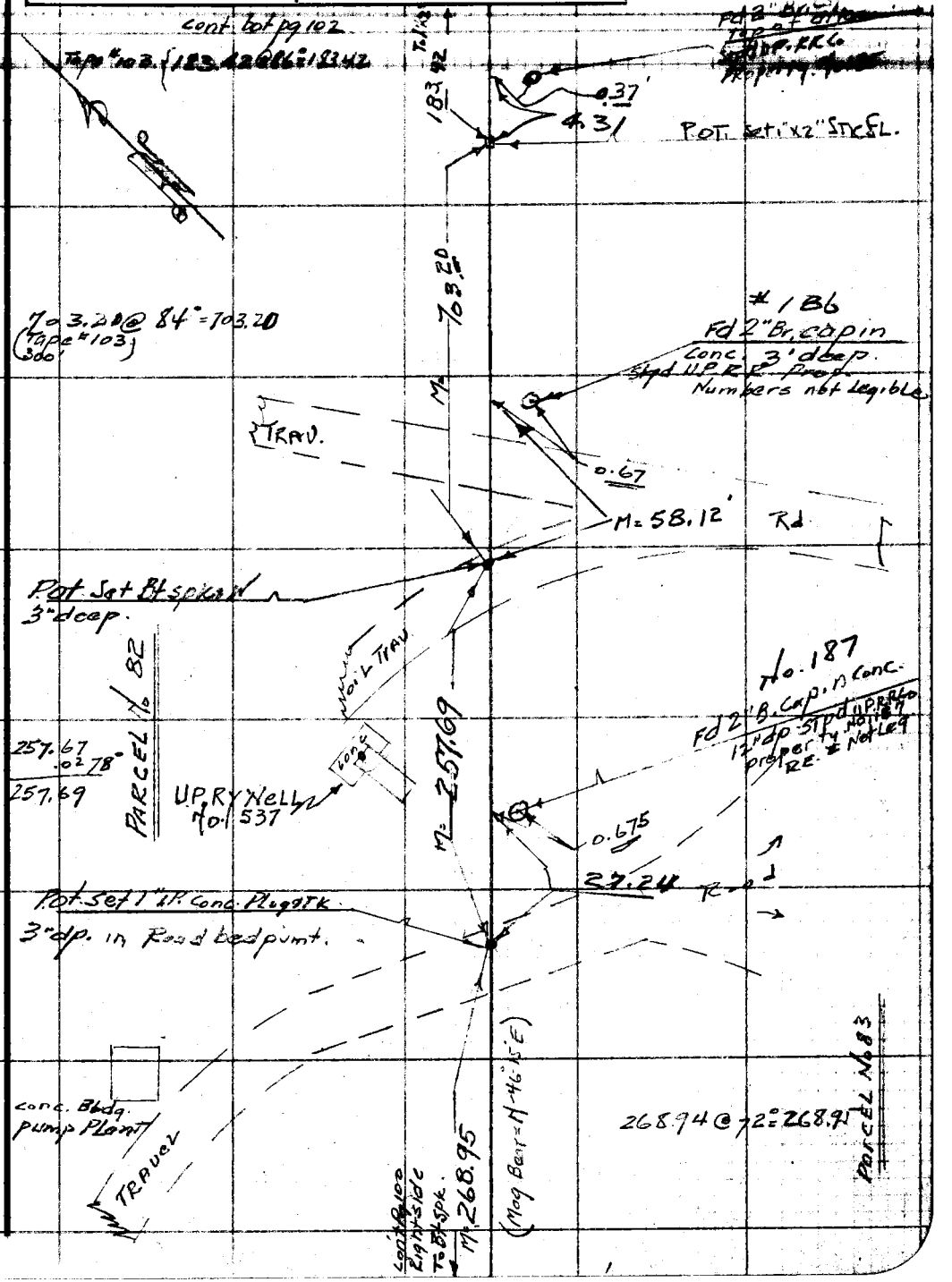
Notes Ck'd by	Survey of Long Beach Subsidence
Map No.	W. O. 4922 Tape No. 0123 St'd 68 °F
Office Work	Surveyed by H.E. Granquist
Checked	Notes G Date 11-6-51
Date	Indexed R. C. Johnson

F. B. 937 Pg. 101

also tape #103 = 300' @ 1.84°



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726 LOS ANGELES COUNTY
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76F309S 247 10M 1-49

F. B. 937 Pg. 102

Ⓐ 85° 54-30
Ⓑ 343-29-50
Ⓒ 85-52-27½
Ⓓ 155-14-50
Ⓐ 85-52-28½
472.745

211.43 @ 2°24' = 211.245
261.51
472.755
.01
472.745

Tape #103
T = 80° =

TRAV.
Road
Set 1"x2" Stk E. Edge Rd.
Prod.

261.51
83.73
345.24

0.055

Fd 2' I.P. Mrkd So. Cal. G. Edison Co. Station

345.24 M.

Prod
0.08
479
5.21
0.08

Fd 2" I.P. + Cap
Mrkd Southern California Edison Co. Station
Up 10"

No. 172
Fd. 2" Br. Cap. Conc. 12" dp.
Stpd. U.P. R.R. Co. Property
Numbers not Legible

No. 171
Fd 2" Br. Cap. in conc. 12" dp.
Stpd U.P.R.R. Co. Property
Not Legible
Used drilled hole for Br pt

490.06 Norm
Tape #0123
490.06

222.81 @ 86° = 222.81
(Tape #103 = 300' @ 84°)

M = 85° - 52' - 28½"

222.81

M = 52° - 44' - 50"

No. 168
Fd 2" Br. Cap. Conc. 12" dp.
Stpd. Property U.P.R.R. Co.
Numbers not Legible

Cont. Pg. 103
173.604

U.P.R.Co.
Of Weil
No. E 17

Cont. Pg. 100 top of Map
Calc.

TRAVEL

M = 33° - 07' - 40"

Pot Set 8" Sp K & W 3' dp

RD

M = 313.00

Mag. Br. N-46°-E

Parcel No. 83

Ⓐ 52-44-50
Ⓑ 210-59-20
Ⓒ 52-44-50
Ⓓ 316-29-00
Ⓐ 52-44-50

PARCEL No. 82

Ⓐ 33°-07'-40"
Ⓑ 132-30-40
Ⓒ 33-07-40
Ⓓ 198-46-00
Ⓐ 33-07-40

To U.P.R.Co. W.L. 2-3-A

335

No. 184
Fd 2" Br. Cap.
Stpd. U.P.R.R. Co.
Property
not Legible

8.53 M.

P.O.T. Set 1"x2" fl.

313.00 @ 86° = 313.00
Tape # 103

183.42

Cont fr. top of Pg 101

PARCEL No. 86

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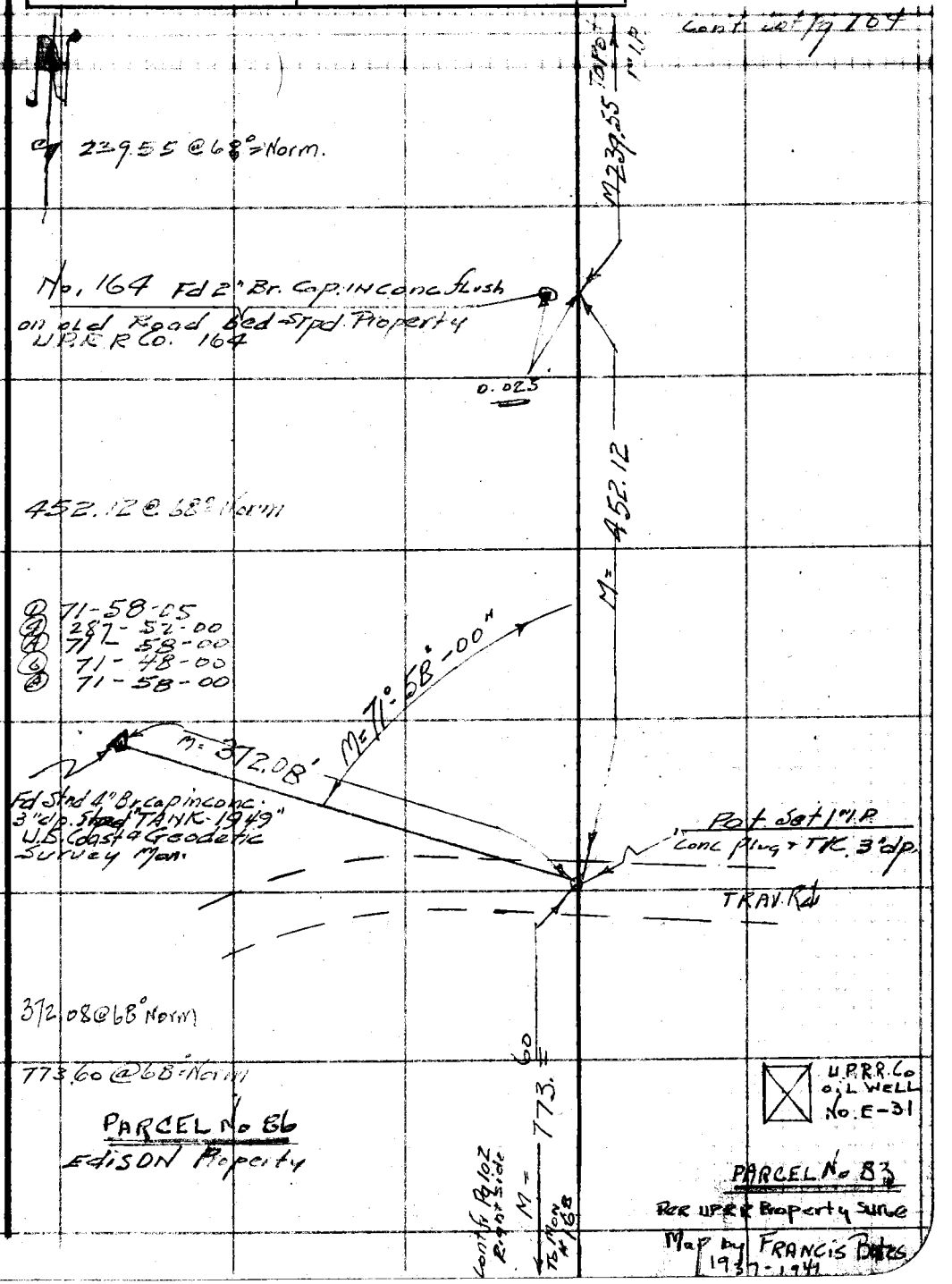
Notes Ck'd by	Survey of Long Beach Subsidence
Map No.	W. O. 49x Tape No. 0123 St'd. 68 °F
Office Work	Surveyed by [illegible]
Checked	Notes G. Date 11-7-51
Date	Indexed [illegible]

F. B. 937 PG. 102



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726 LOS ANGELES COUNTY
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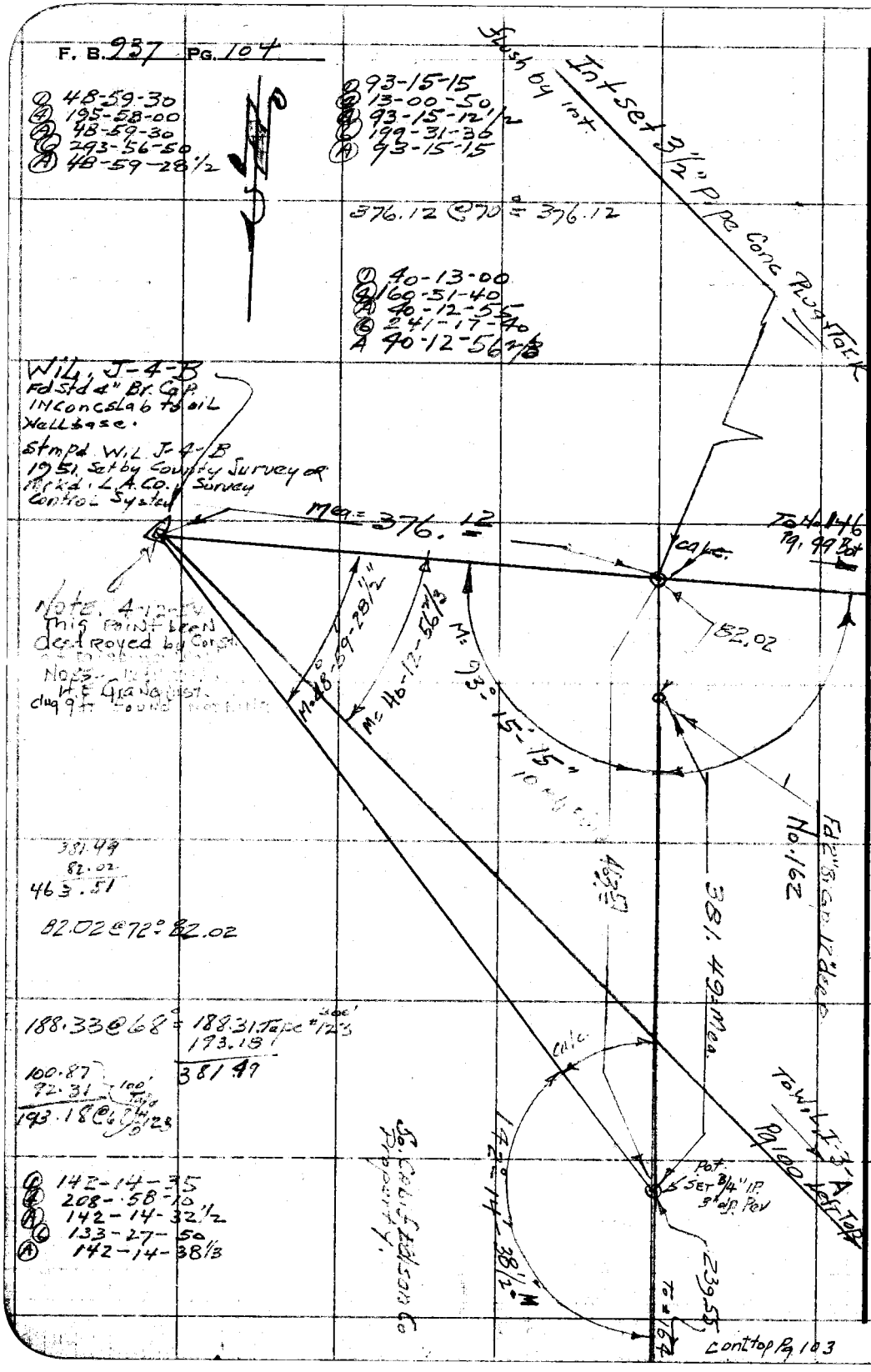
76F309S 247 10M 1-49

F. B. 937 PG. 104



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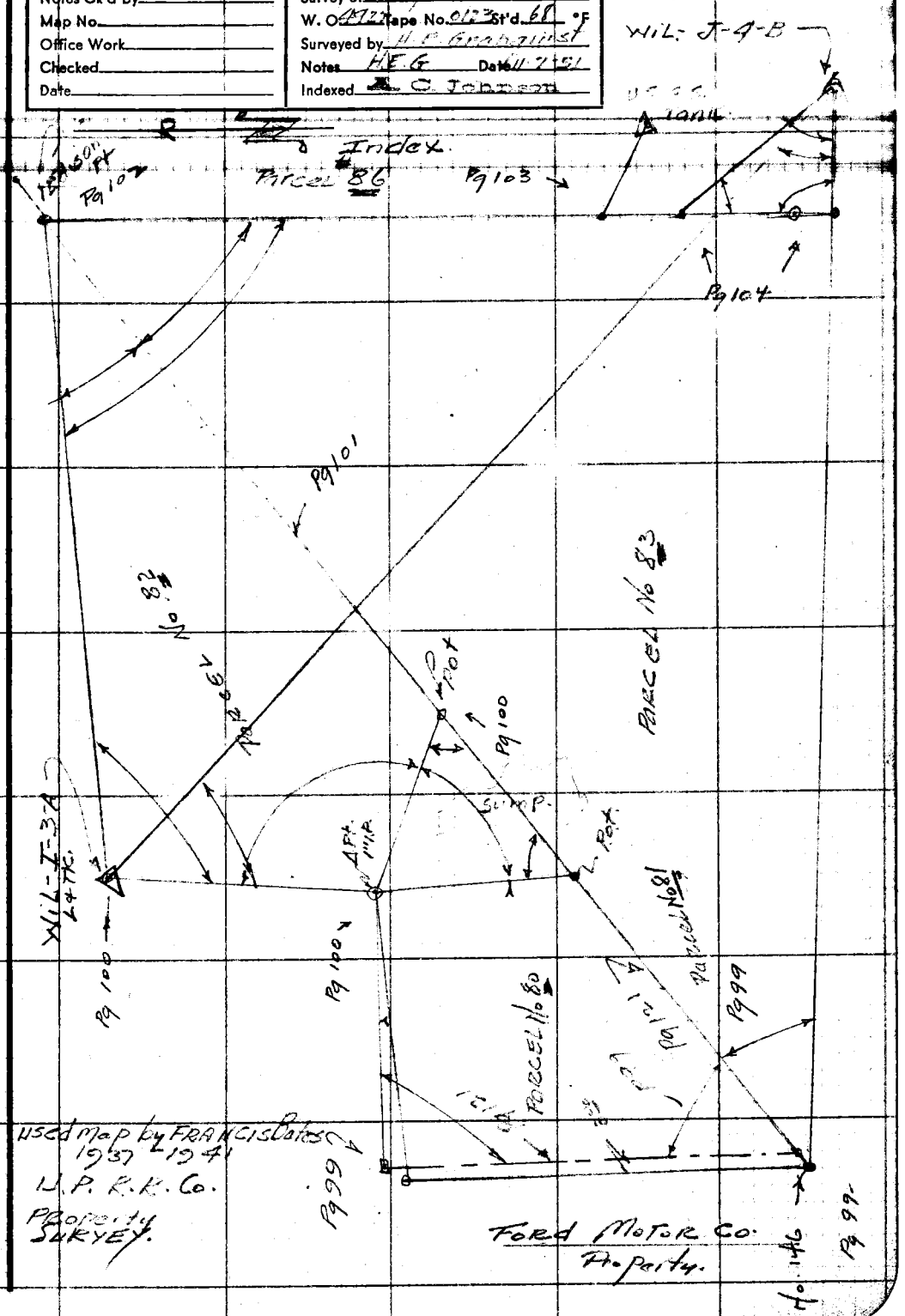
Notes Ck'd by	Survey of
Map No.	W. O. 4727 Tape No. 0123 St'd. 68 °F
Office Work	Surveyed by H. P. Grabquist
Checked	Notes H.E.G. Date 11-7-51
Date	Indexed C. Johnson

F. B. 937 Pg. 105



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726 LOS ANGELES COUNTY
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76F309S 247 10M 1-

F. B. 937 PG. 106

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

Survey of Long Beach Subdivision
W. O. 4922 Tape No. 0123 St'd. 68 °F
Surveyed by H. E. Grenquist
Notes H.E.G. Date 11-14-51
Indexed A. C. Johnson

F. B. 737 Pg. 157

Fd Std. 4" Br. disk in conc. with Bag. Surv.
BAG. N. 5. (Flush)

Fd 2" Br. Cap Conc. 18" Deep
Set 2" Br. Cap No. 39 Prop. Line
UP Ry Co.

Set 1"x2" Stk + Tk. St.
6+58.61

5.00
90°

No 48
St 46.80
Fd 2" Br. Cap Conc. Stk Prop. Line
2" Br. Cap

0.06
5.06
19.00
5.02
6.92
0.02

137.73
137.73 @ Abs.
M = 84°-49'-00"
M = 54°-54'-35"
Geodetic Note

Pot Set Nail
54+20.88
R. Ry Tie

54.57

Fd 2" Br. Cap
No. 43 Std. 1949 U.S.B.G.
5+72.80 ± 0.02

5.09
90°
4.09

4466.31
Pot Set 1"x2" Stk. Fl.

① 54-54-35
② 217-38-30
③ 54-54-37½
④ 329-27-40
Ⓐ 54-54-36⅔

Fd 2" Br. Cap
No 51

253.79
253.79

① 84-49-00
② 339-16-10
③ 84-49-02½
④ 148-54-20
Ⓐ 84-49-03⅓

Fdc dist see Geodetic Note

① 163-43-10
② 294-52-30
③ 163-43-07½
④ 262-18-30
Ⓐ 163-43-05

PATTEN - BLUNT LUMBER Co.

0.05
5.08
90°

12+12.52
Pot Set 1"x2" Stk Flush

Fd 2" Br. Cap UP
Std. Tag UP Ry Co.
12+12.52

M = 56°-33'-05
163°-43'-05
M

Std. 4" Br. Cap in Conc. U.S.G.S. Std. "Bag. 5B" 1949

5.00' off Transit Line
212.52 @ 68°-21'-52"

286.88
M = 286.88

286.89 @ 64° 286.88

① 56-33-10
② 226-12-20
③ 56-33-05
④ 327-18-30
Ⓐ 56-33-03⅓

No. 54
Fd 2" Br. Cap. 12" Deep
Std. no legible

5.00'
90°

0+00 Going North
Set 1"x2" Stk Flush

PARCEL No 61

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76F309S 247 10M 1-49

F. B. 937 PG. 108

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Notes Ck'd by	Survey of Long Beach Subdivision
Map No.	W. O. 4922 Tape No. 0123 St'd. 68 °F
Office Work	Surveyed by H. E. Green, Chief
Checked	Notes H.E.G. Date 11-15-51
Date	Indexed A. C. Johnson

F. B. 939 Pg. 100

117.14 @ 72° = 117.14

201.62 @ 72° = 201.63

Norm 449

Fd 2" Br Cap in Conc L.S. Mon. Stpd W.W.L.-2 1951 F.B. 329

Fd Br. Cap. 3" dp. in Road Bed Stpd T.P. A-E-No 2. 1951

County Surveyor R.E. 3d Pipe

2" Br Cap 3d Pipe

Transit Line

M = 132° 09' 09"

M = 117.14

90-44-20.0
362-57-20 ④
90-44-20 ⑥
184-26-00 ⑥
90-44-20

M = 201.63 To Pat 1K2SHL Pg 110 Bot

M = 235.67

2" Br Cap P No 267 = 4" dp

M = 90° 44' 20"

138-10-00
192-40-10
138-10-02½
109-00-40
138-10-08½

132-09-10
168-36-40
132-09-10
72-54-50
132-09-08½

193.04 @ 74° = 193.05

Fd 2½" Stk in N.F. 2" dp 7+56.36 fr. N L4

Transit Line 100 off S.C. on Pg 118 Bot Pg 5

M = 450.58'

Pg 118 Bot

94° 17' 20"

34 P/L

2" Wire Mesh Fence 6 ft High

94-17-20
94-17-20
94-17-20
206-44-20
94-17-20

Fd 2" Br Cap 12" dp No 284

M = 4.82

7+51.73 fr. N L4

Fd Lt Tag in Conc base To fr. Post as per U.P.R.R. Co. Property Survey map by Francis Bates 1937-1941

M = 85° 48' 18⅓"

85-48-20
343-13-10
85-48-17½
154-49-50
85-48-18⅓

Southern California Edison Co. Property

85-40-40
342-42-30
85-40-37½
154-04-00
85-40-40

Fd 2" Br Cap in Conc No 286 P.

M = 85° 42' 42"

756.36 @ 68° Norm

Transit Line

Fd 2" Br Cap in Conc. 12" deep Stpd Point U.P.R.R. Co. # 285 S.C.E. Co.

2" Wire Mesh Fence 6 ft high

Fd 2" Br Cap in Conc. 2" dp Stpd Point U.P.R.R. Co. S.C.E. Co. # 282-A

(Fd 2" Br Cap 15" deep Punch Hole S. edge 286)

508.75'

508.74 @ 72° = 508.75

Fd 2½" Stk in N.F. 0+00 90 in Pg 52 4 E Stng

Cont Bot Pg 117

Pat 1K2SHL

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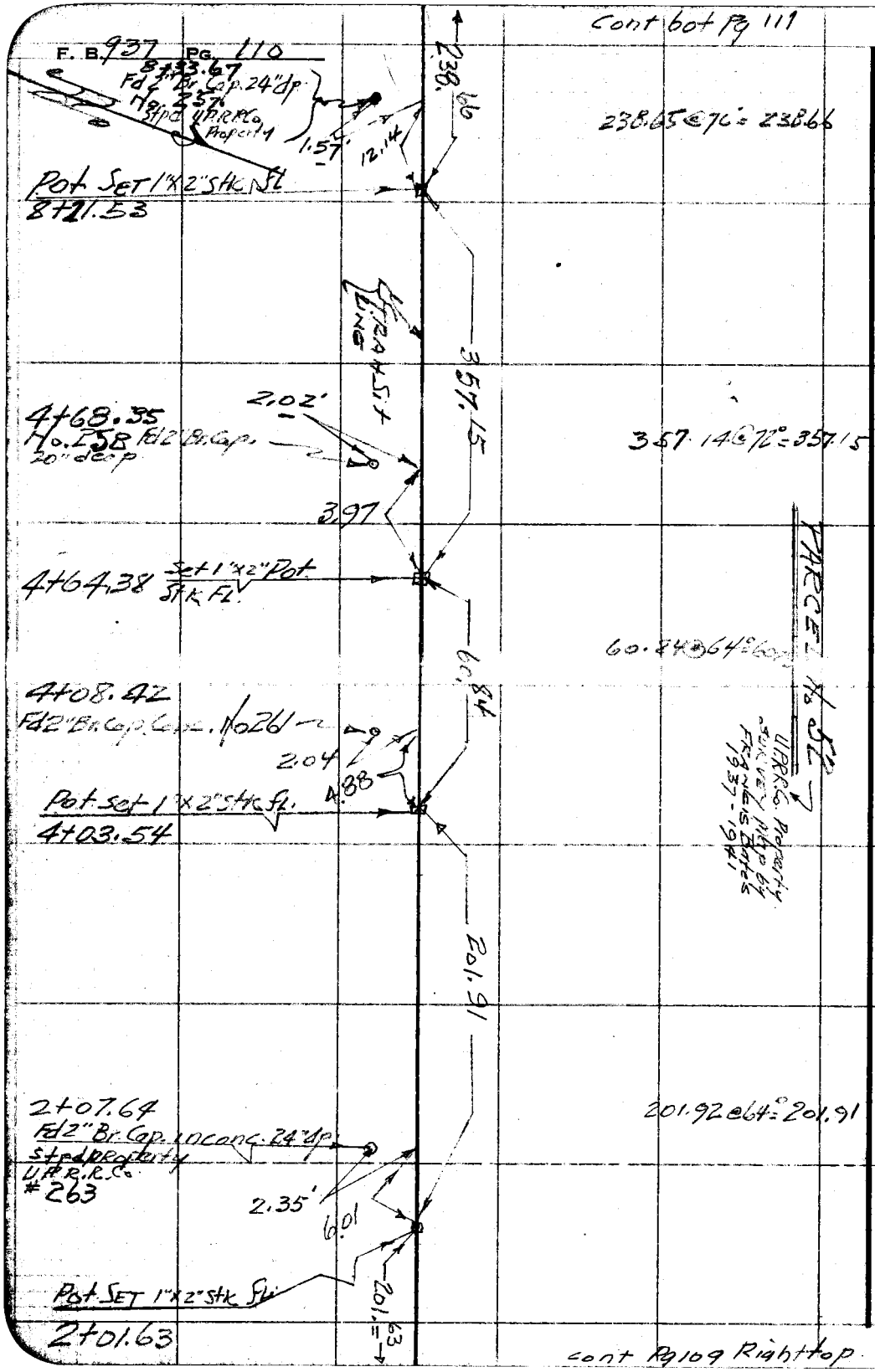
76FS09S 247-10M 1-49



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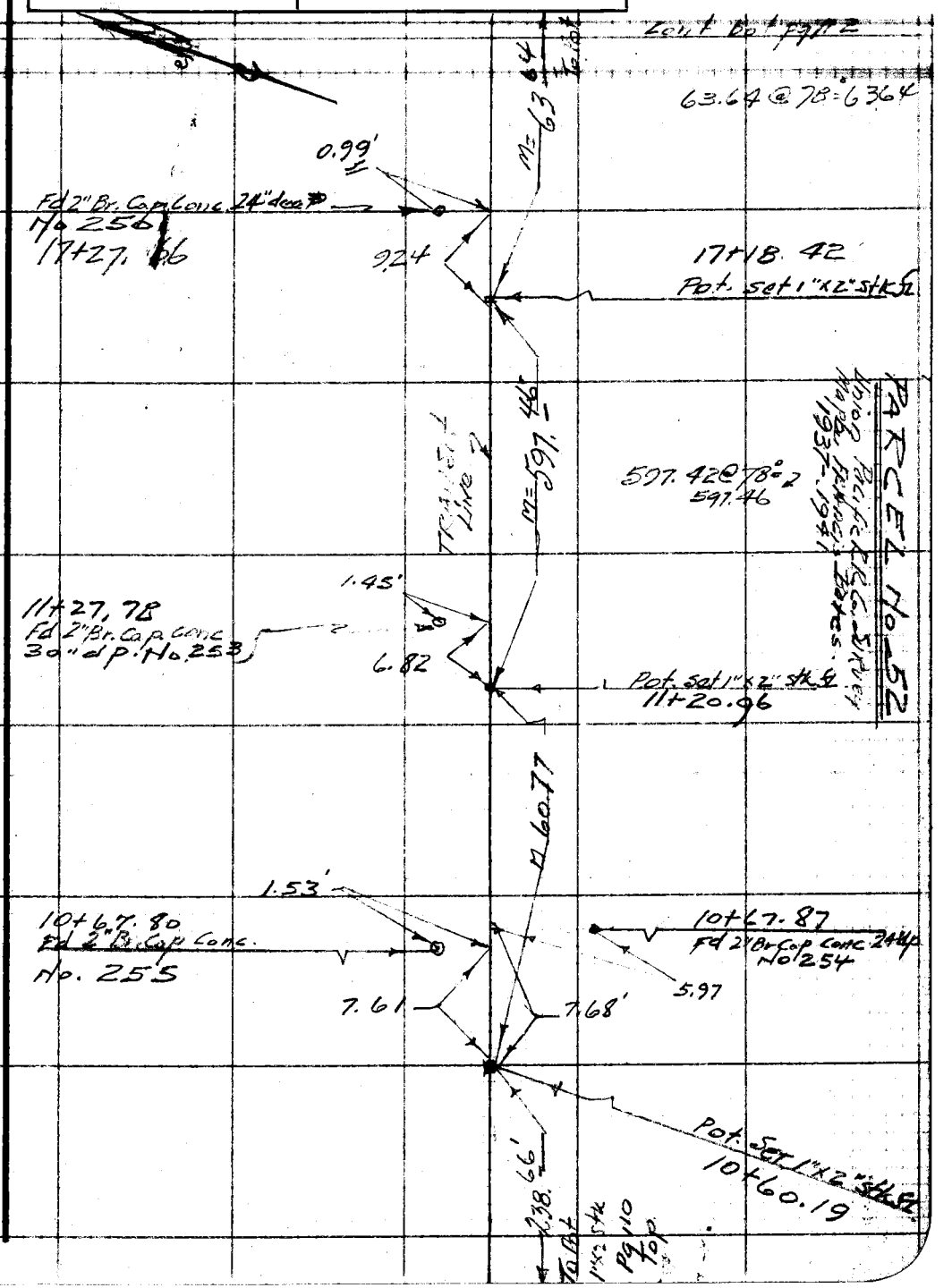
Notes Ck'd by	Survey of Long Beach Subsidence
Map No.	W. O. 4922 Tape No. 4922 St'd. 68 °F
Office Work	Surveyed by H.E. Granquist
Checked	Notes H.E.G. Date 11-16-51
Date	Indexed A. C. Johnson

F. B. 937 PG. 111



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RETURN TO
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726 LOS ANGELES COUNTY
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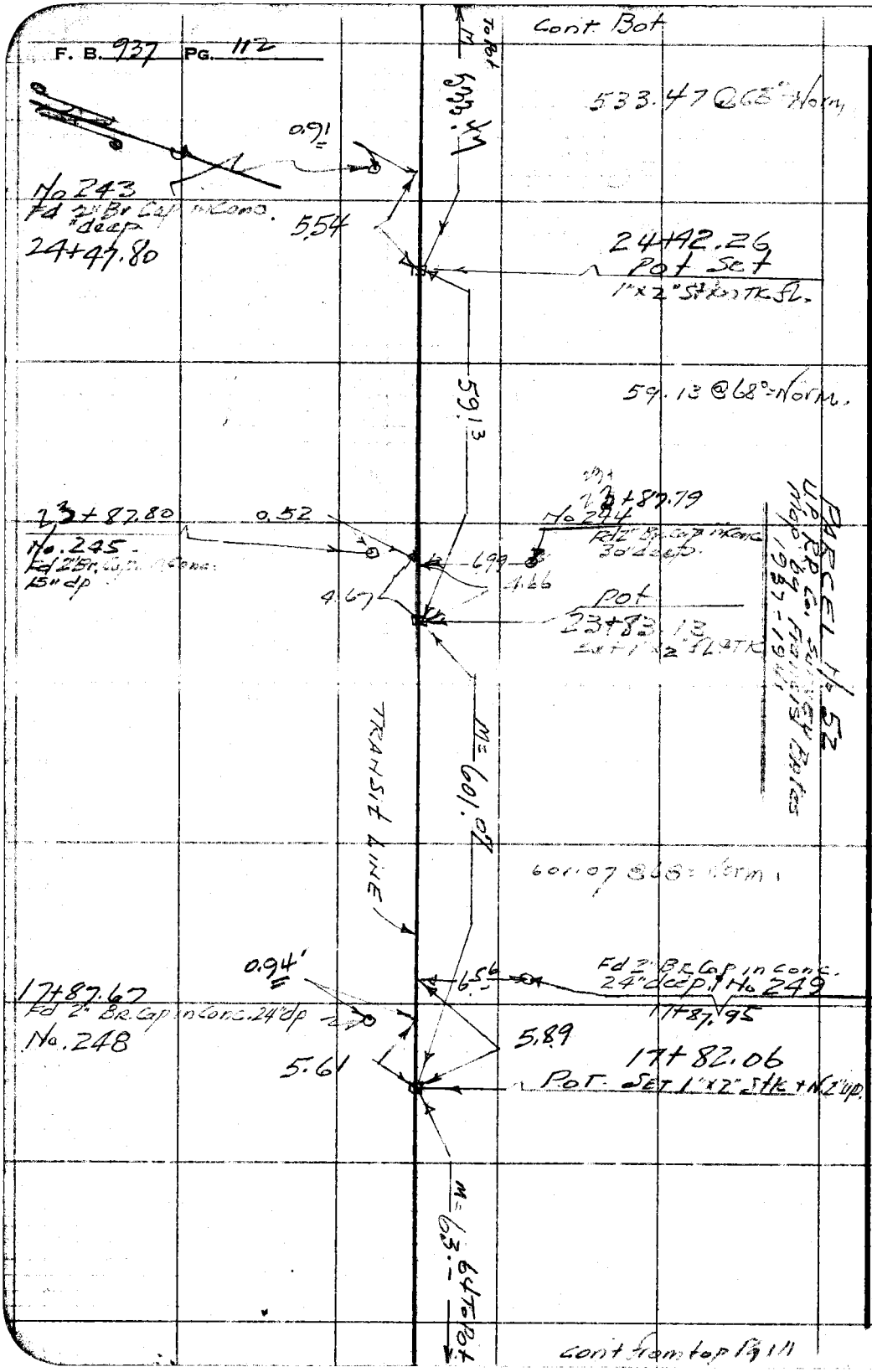
76F309S 247 10M 1-49



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726 LOS ANGELES COUNTY
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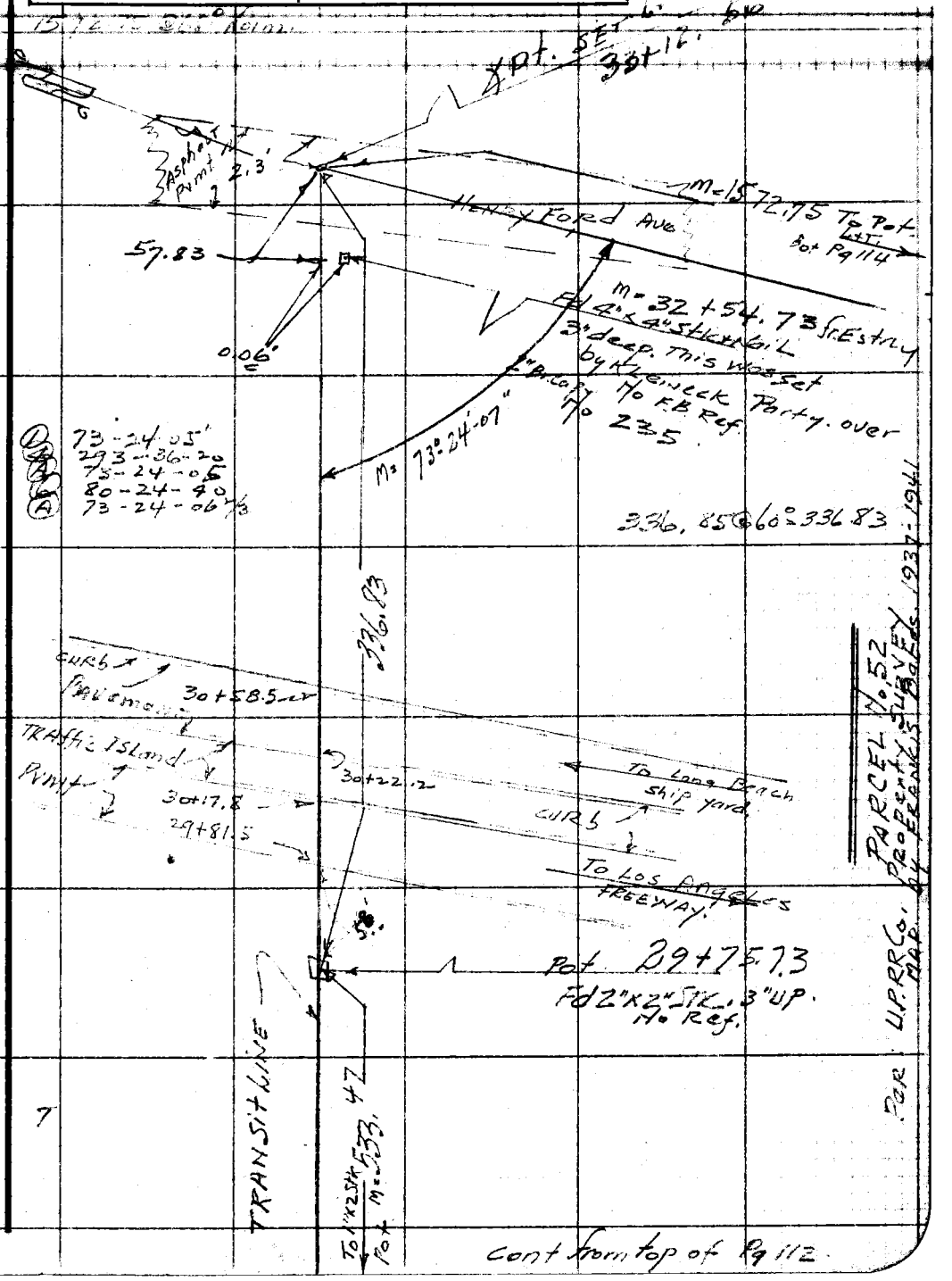
Notes Ck'd by	Survey of Long Beach Subsidence
Map No.	W. O. 4922 Tape No. 0123 St'd. 68 °F
Office Work	Surveyed by H E Grandonel
Checked	Notes H E G Date 11-16-51
Date	Indexed C. Johnson

F. B. 937 PG. 113



Cont from top of Pg 112

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726 LOS ANGELES COUNTY
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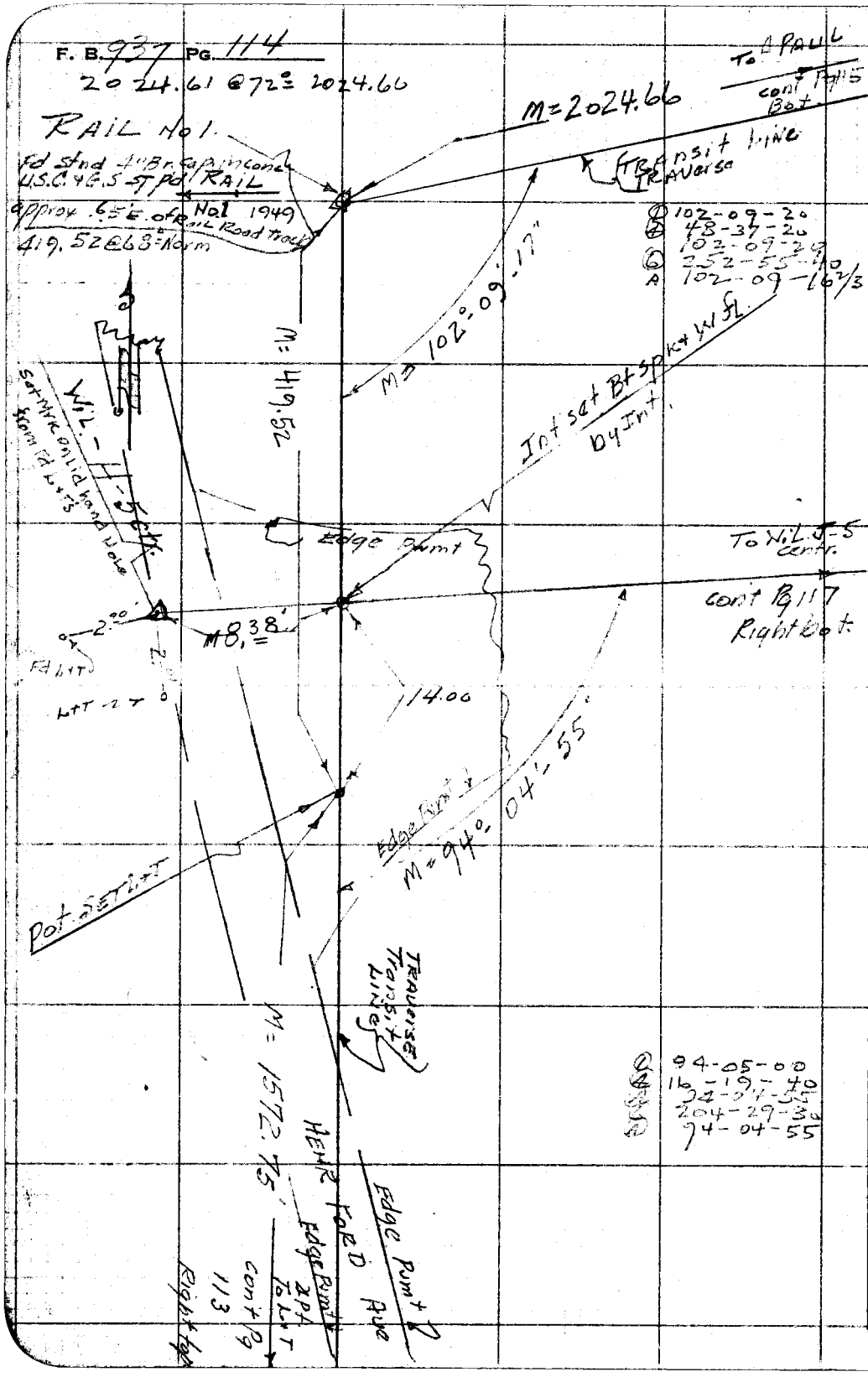
76F309S 247 10M 1-49



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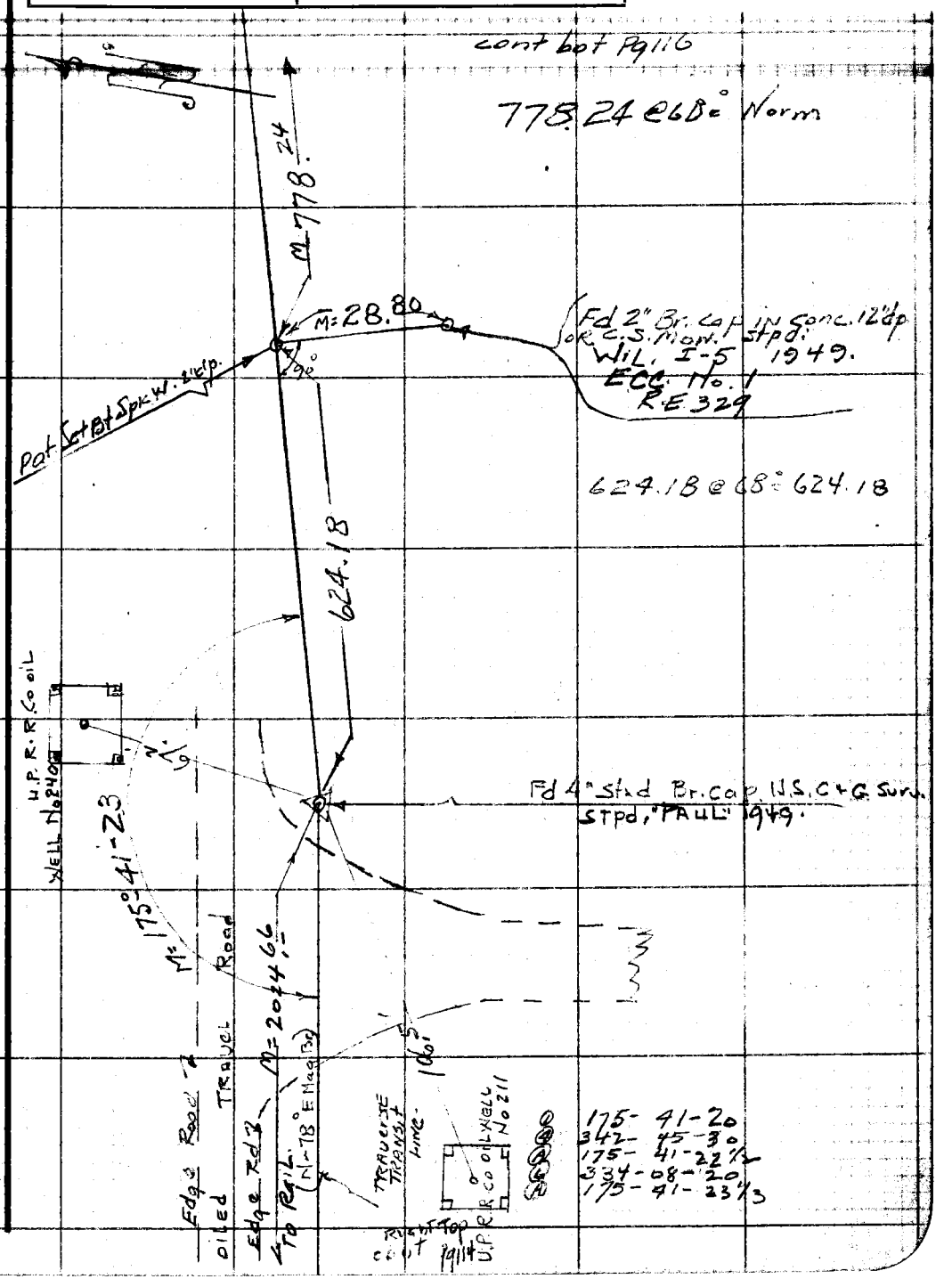
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of [illegible]
Map No.	W. O. 4922 Tape No. 0123 St'd. 68 °F
Office Work	Surveyed by H. E. Grunhaus
Checked	Notes HEG Date 11-23-51
Date	Indexed A. C. Johnson

F. B. 937 Pg. 115



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RETURN TO
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726 LOS ANGELES COUNTY
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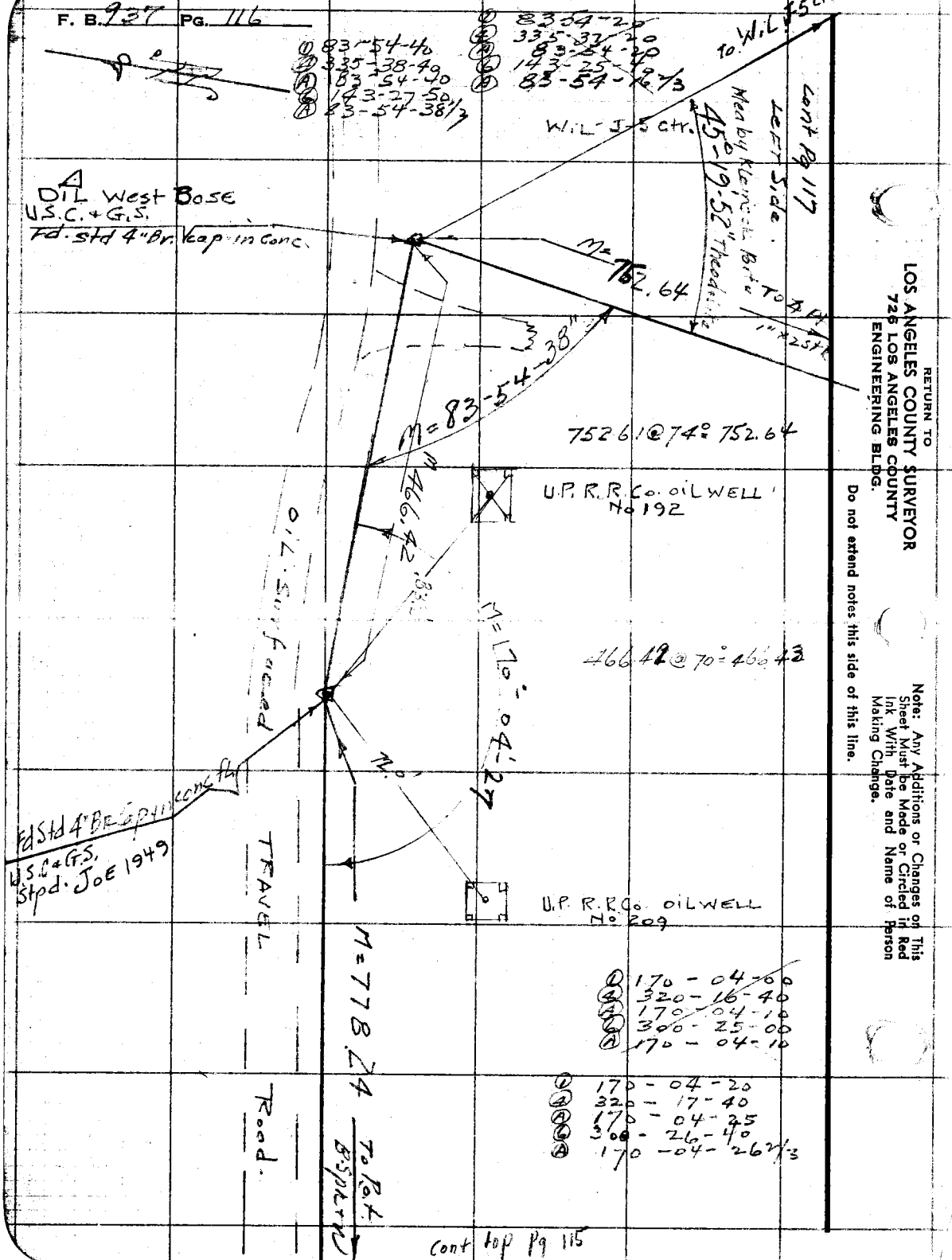
76F309S 247 10M 1-49

F. B. 937 PG. 116



RETURN TO
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Notes: 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 *Long Beach Subsidence*
Map No.	W. O. *4922* Tape No. *0123* St'd. *68* °F
Office Work	Surveyed by *H. E. GRANQUIST*
Checked	Notes *H.E.G.* Date *11-26-51*
Date	Indexed *A. C. Johnson*

F. B. *937* PG. *117*

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728 LOS ANGELES COUNTY ENGINEERING BLDG.

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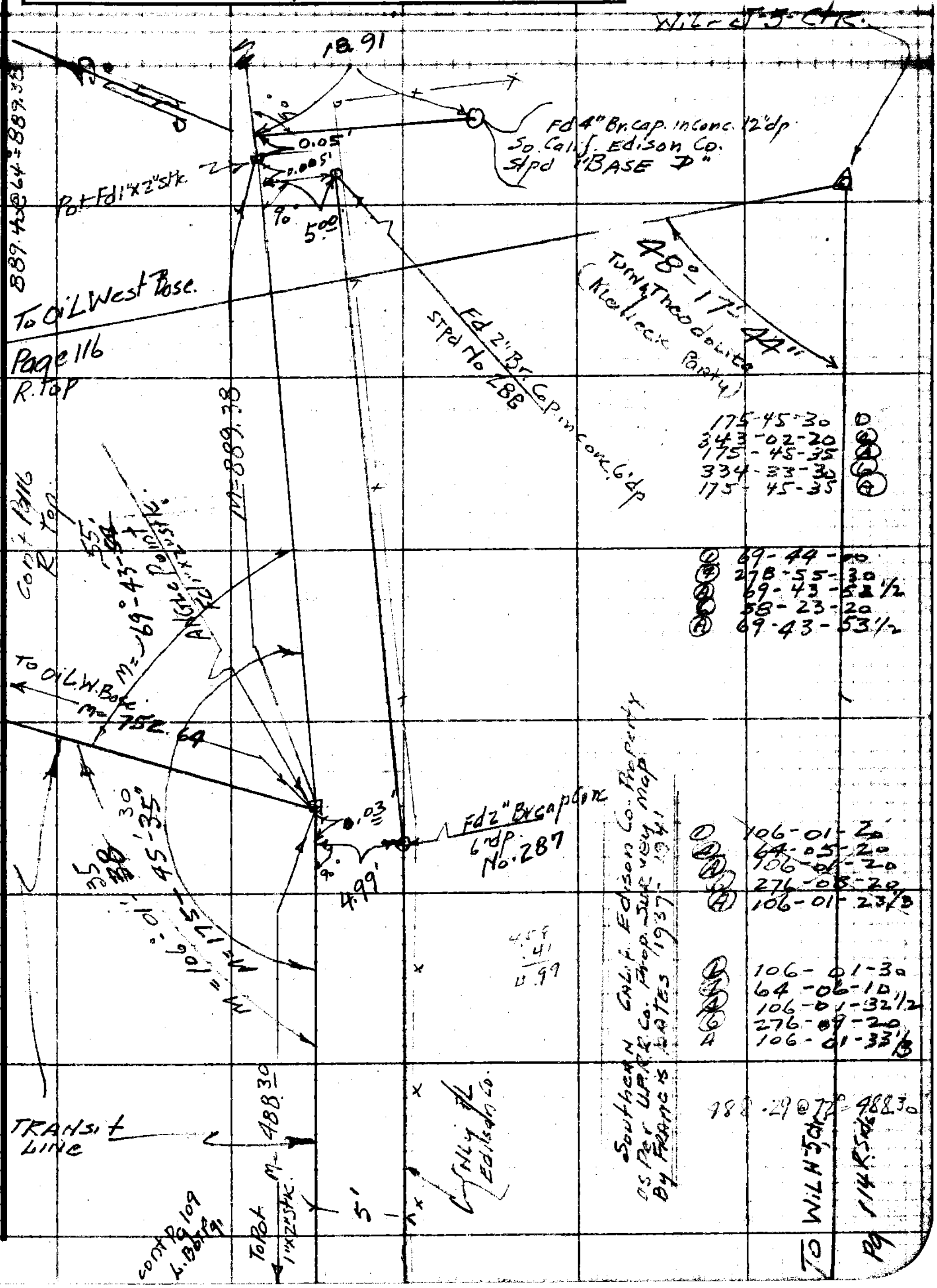
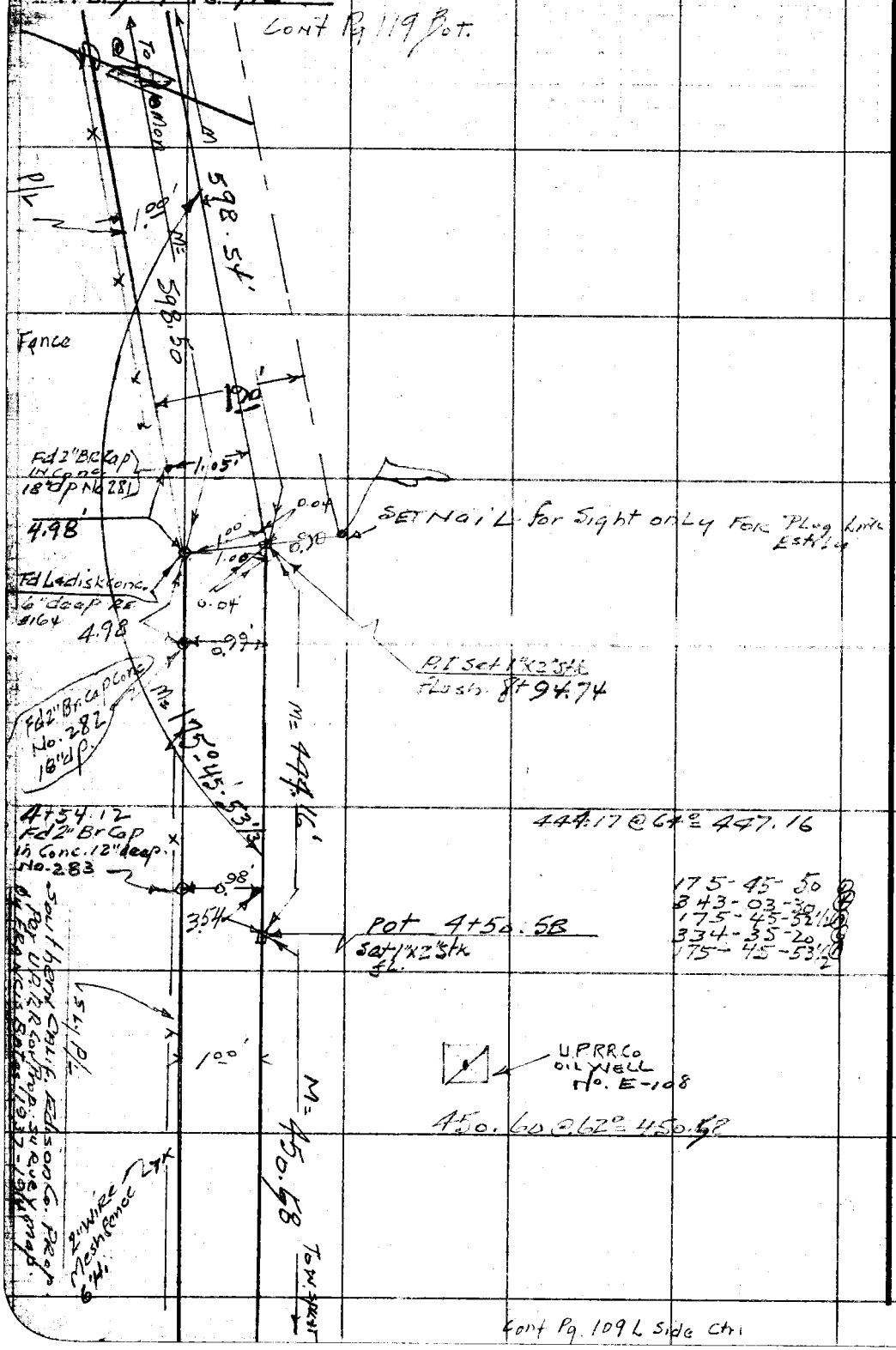


76F309S 247 10M 1-49

F. B. 937 PG. 118

Cont Pg 119 Bot.



Cont Pg. 109 L Side Ctr.

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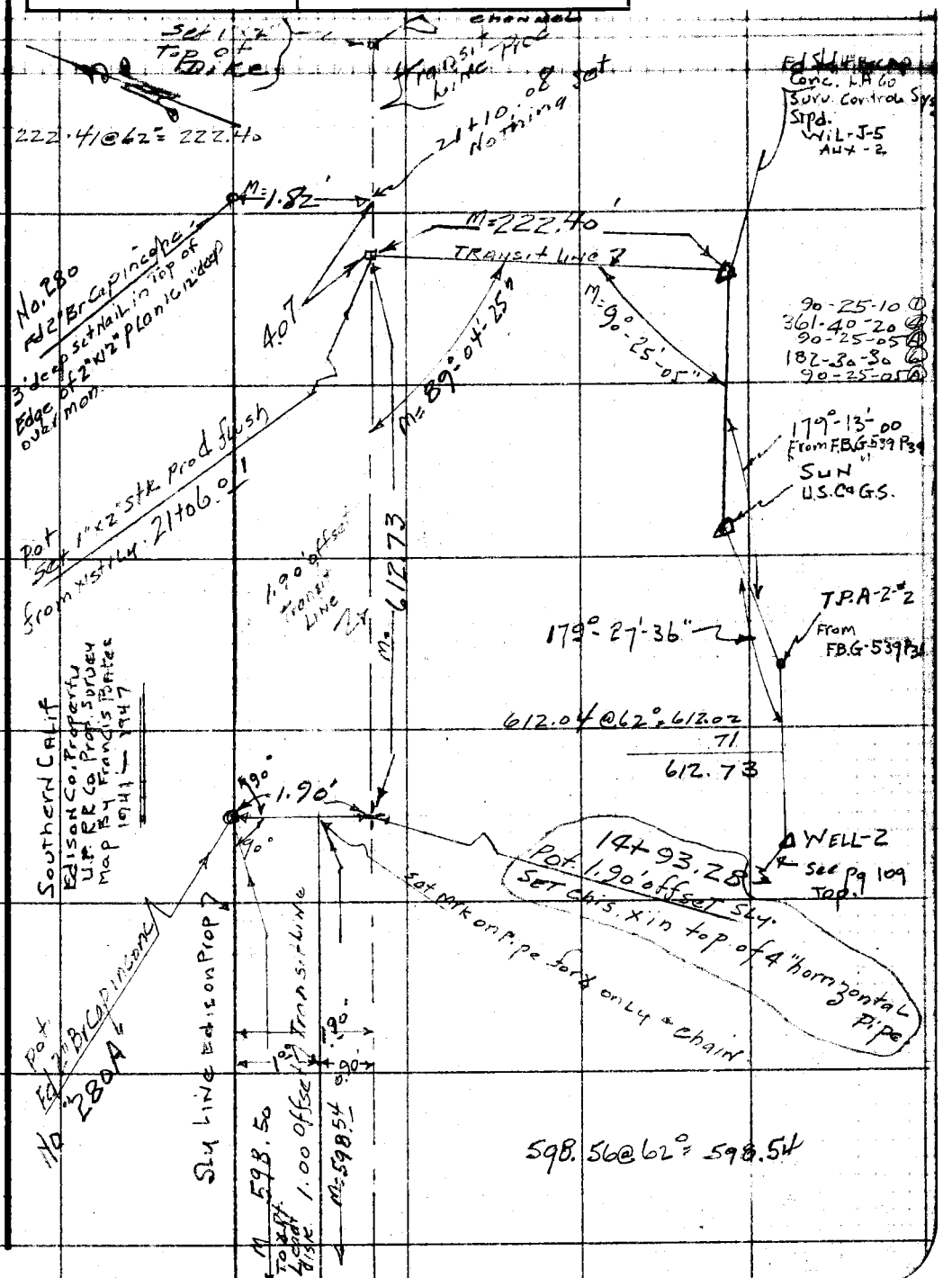
Notes Ck'd by	Survey of Long Beach Subsidence
Map No.	W. O. 9922 Tape No. 0123 St'd. 68 °F
Office Work	Surveyed by H. E. Grandquist
Checked	Notes G. Date 12-3-51
Date	Indexed A. C. Johnson

F. B. 937 PG. 119

① 89-04-20
② 356-18-00
③ [illegible]
④ 174-26-30
⑤ 89-04-25



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726 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S 247 10M 1-49

F. B. 937 PG. 120

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725 LOS ANGELES COUNTY
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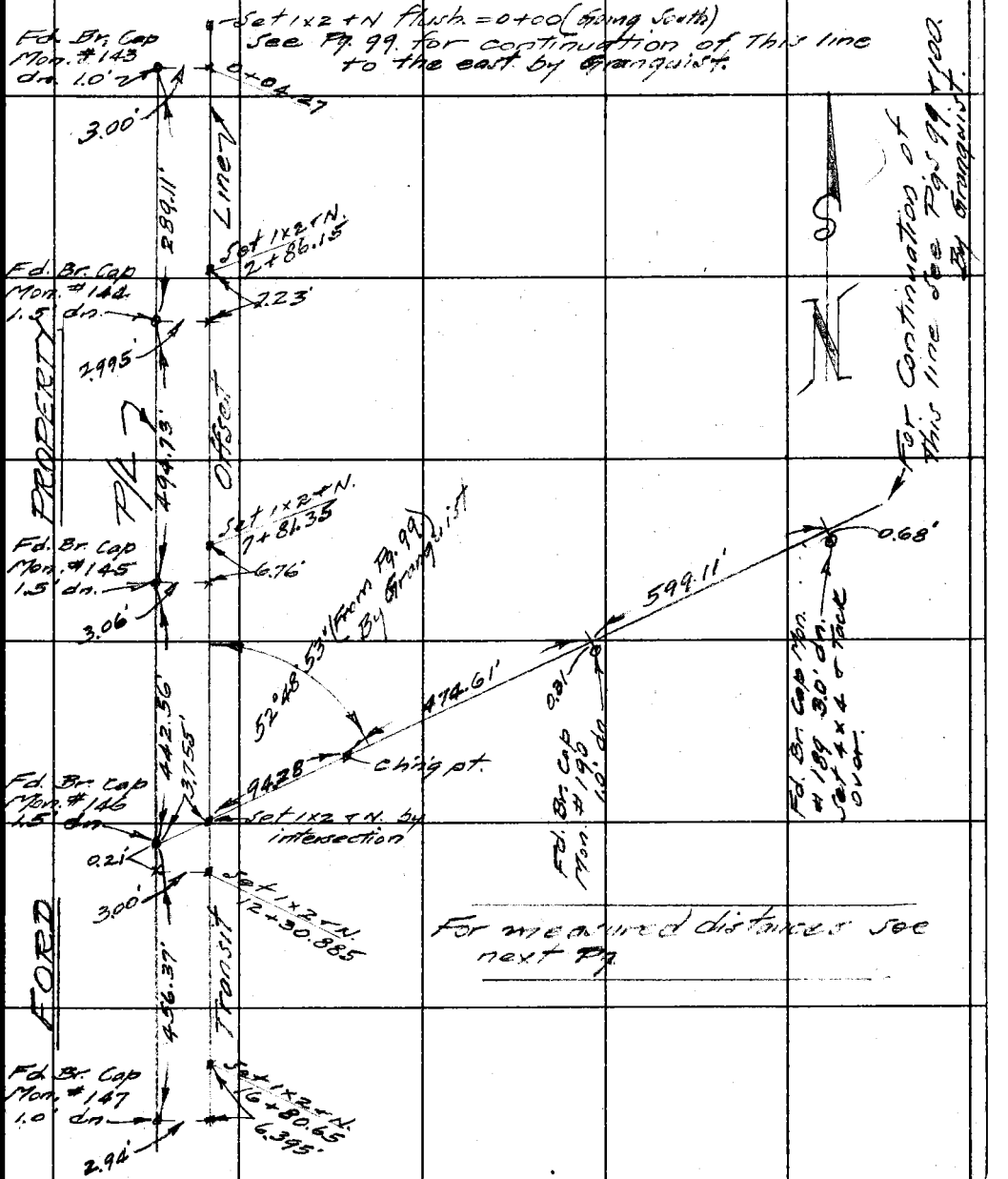
Notes Ck'd by	Survey of L. Beach Subsidence
Map No.	W. O. 4922 Tape No. 97 St'd. 84 °F
Office Work	Surveyed by J. W. Klamecki
Checked	Notes [illegible] Date 7-16-51
Date	Indexed

F. B. 737 PG. 121

TRANSIT TRAVERSE LINE SOUTH ALONG E. LINE OF FORD MOTOR CAR PROPERTY



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726 LOS ANGELES COUNTY
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76F309S 247 2-51

F. B. 937 PG. 122

Field measurements shown on preceding page.

300' Tape # 97 Std at 84°

~ Double Chaining ~

"A"	"B"		"A"	"B"
136.12'	138.05'		71.390'	72.16
150.03	148.10		133.145	133.49
186.15	186.15	@ 84°	164.780	164.60
			105.300	104.38
			474.615	474.63

Aver. = 186.15

Aver. = 474.62 @ 80°
= 474.61'

206.430	207.97			
147.435	146.96			
141.330	140.27			
495.195	495.20	@ 84°		

Aver. = 495.20'

			198.890	199.58'
			198.290	198.26'
			137.855	144.08
			64.080	57.19
			599.115	599.11

Aver. = 599.11' @ 86°
= 599.11

139.91	140.98	
145.56	145.70	
164.07	162.85	
449.54	449.53'	@ 82°

Aver. = 449.53

201.820	202.65	
153.625	154.07	
94.330	93.06	
449.775'	449.78'	@ 80°

Aver. = 449.77

94.295' @ 0° 46' @ 80° = 94.287'
94.35' @ 2° 17' @ " = 94.275 @ 84°
Aver. = 94.28'

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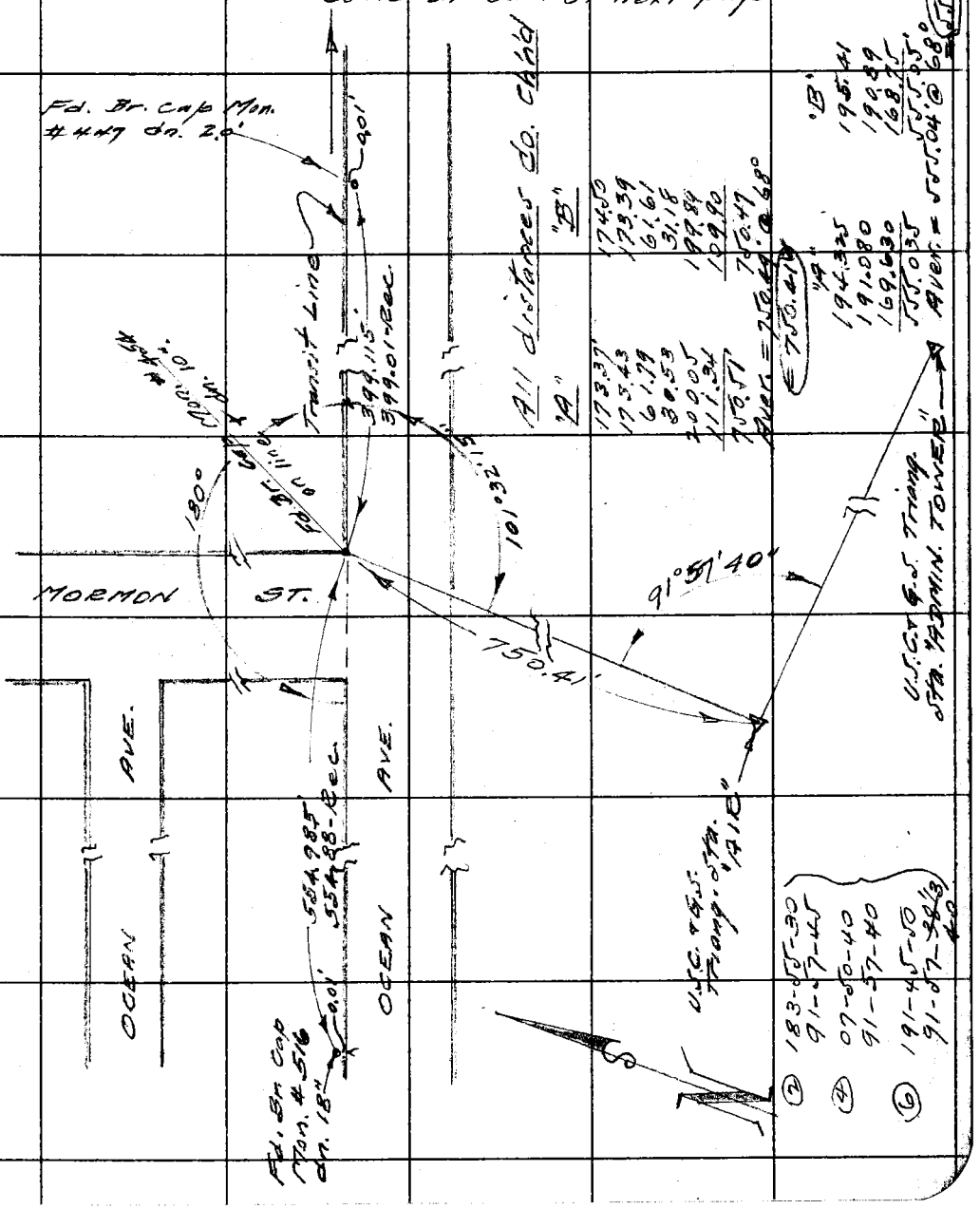
Notes Ck'd by	Survey of Long Beach Subsidence
Map No.	W. 4922 Tape No. 97 St'd. 84 °F
Office Work	Surveyed by G.W. Kleineck
Checked	Notes G.W.K. Date 7-13-51
Date	Indexed

F. B. 737 PG. 123

Union Pacific Property Line Ties To U.S.C.&G.S. Triangulation Sta. "A1R".

Cont'd at bot. of next page.



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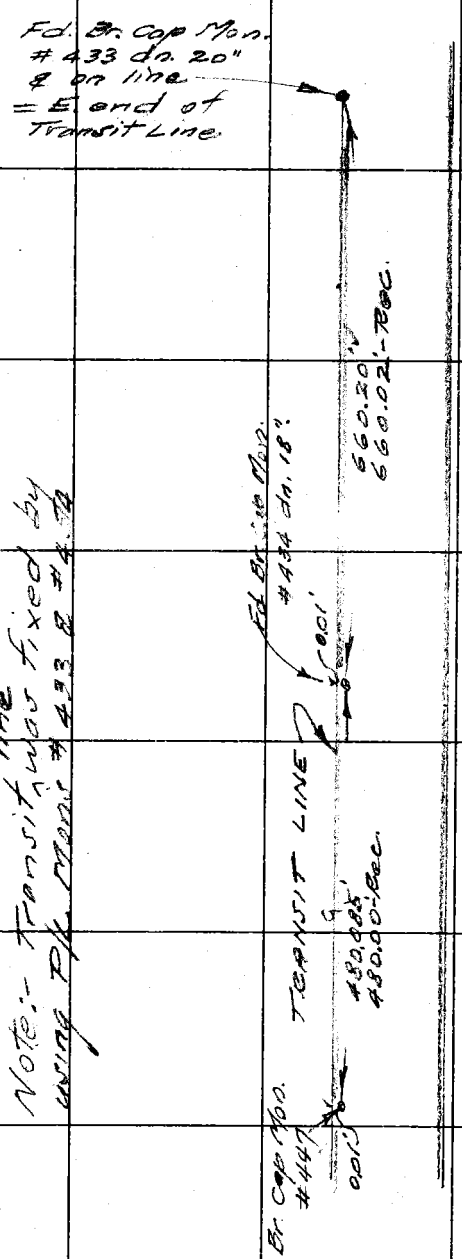
76F309S 247 2-51

F.B. 937 PG. 124



Note:- Transit line was fixed by using P/L Mons #433 & #434

"A"	"B"
199.25	200.43
154.29	154.39
45.63	44.34
399.17	399.16

Aver. = 399.165 @ 64°
= 399.115

199.05	200.76
199.65	198.74
81.44	80.64
480.14	480.14

480.14' @ 66° = 480.085'

175.310	176.450
175.200	175.030
175.065	175.130
134.690	133.665
660.265	660.275

Aver. = 660.27' @ 68°
= 660.20'

Cont'd from top of preceding page.

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Notes Ck'd by KRM	Survey of LB Subsidence
Map No.	W. O 4922 Tape No 0137 St'd. 68 °F
Office Work	Surveyed by M.A. Van Deren
Checked	Notes Van Date 6-10-52
Date	Indexed E. C. Johnson 6-18-52

F. B. 937 Pg 125

JN 4922

LONG BEACH SUBSIDENCE

TRAVERSE LINE No 1

Tape No 0137 22½ @68° Temp taken on tape
Ref City FB C-50-C96
" H.D. FB 1112
Atlas Sheet E-12 to M-12

Note did not mak tie to Wilm L-3 as ties per FB 9[illegible]-267 are out by const. also E.L&T in conc abutment is out by const

6-10-52
Van Deren
Blankenship
Richards
Myers

Chainage with tape #0137 averages about 0.0085' per 100' short compared to the precise chaining between Stas. Aux 1 - Aux 2 & Aux 2 to Aux 3.

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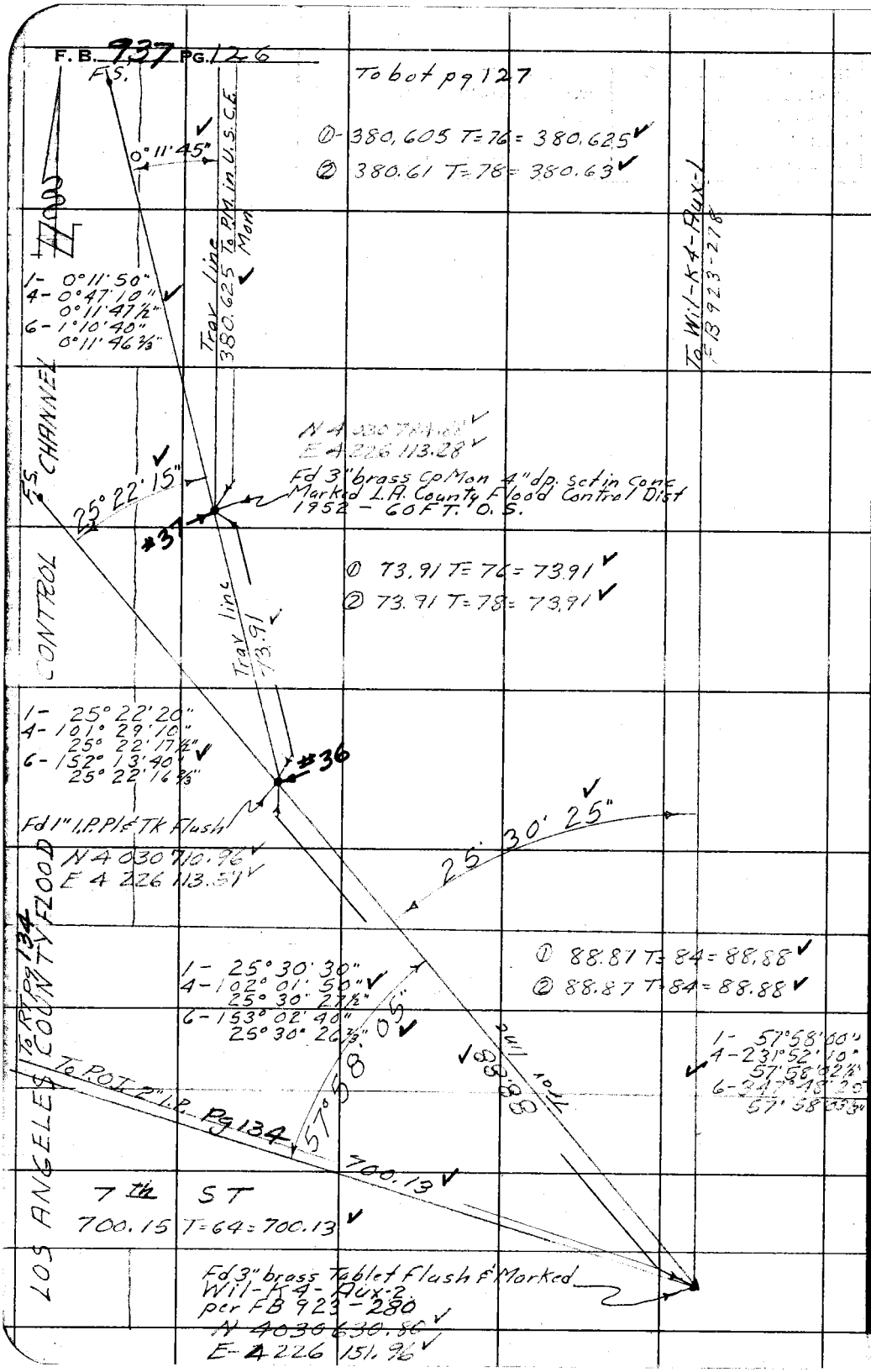
76F309S 247 2-51



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F. B. 937 PG 127

Notes Ck'd by KRM	Survey of L.B. Subsidence
Map No.	W. O. 4922 Tape No. 2137 St'd. 68 °F
Office Work	Surveyed by M.A. Van Der en
Checked	Notes Van Date 6-10-52
Date	Indexed ~~A. C. Johnson~~

To bot pg 128

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RETURN TO
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726 LOS ANGELES COUNTY
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LOS ANGELES COUNTY FLOOD CONTROL
CHANNEL

1- 179° 55' 20"
4- 359° 41' 20"
179° 55' 20"
6- 359° 32' 10"
179° 55' 21⅔"

179° 55' 20"

Trav line
To 3" br Cp Mon
299.66

0- 299.645 T=74 = 299.655
0 299.655 T=80 = 299.675

#40

identical
Fd nail
Fd nail per Long Beach
0.05
N 4 031 371.00
E 4 226 113.01

Fd 2" I.P. P/L nail Flush

205.445

0 205.415 T=88 = 205.445
0 205.43 T=80 = 205.45

Trav line

set P.M.
0.03
P.M. Fd
0.035
1948
U.S.C.E.

identical

90°

#38

59.755
59.755 T=74

#39

Fd 2" br Cp Mon set in cone 30" dp. with P.M. in W. side of Mon. Mon No 2178 39+75.077 per City FB C-36
39+75.06 per H.D. FB 1112
See Atlas Sheet H-12
N 4 031 165.56
E 4 226 172.86

Fd 2" I.P. with Cap Flush Marked U.S.C.E.-1948, P.M. in Cap is 0.035 W. & 0.035 S. set P.M. in Cap at 90° to Mon to the East
N 4,031,165.53
E 4,226,113.10

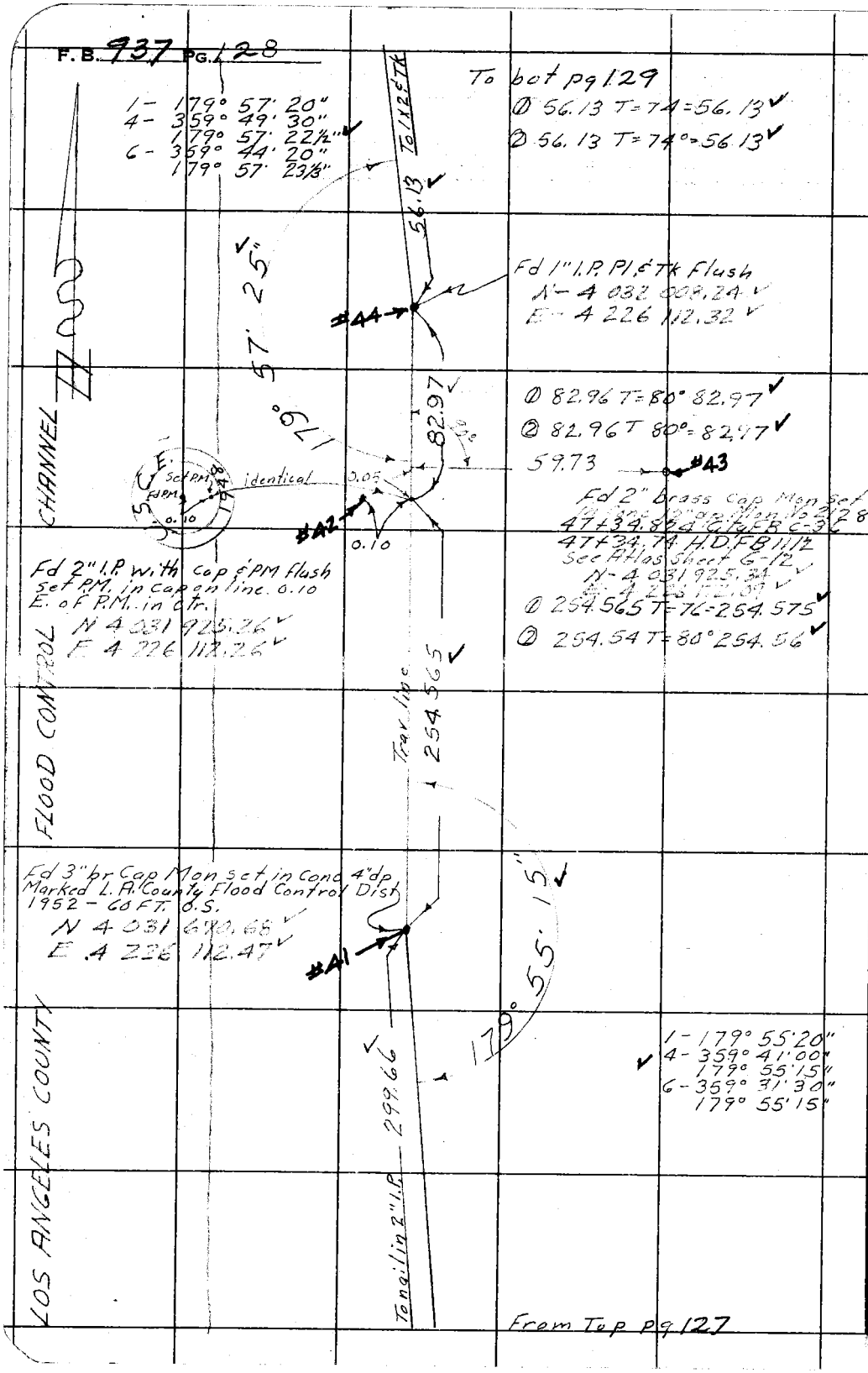
380.625

Trav line
To 3" br Cp Mon

From Top pg 126

76F309S 247 2-51

F.B. 937 PG. 128



From Top pg 127

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

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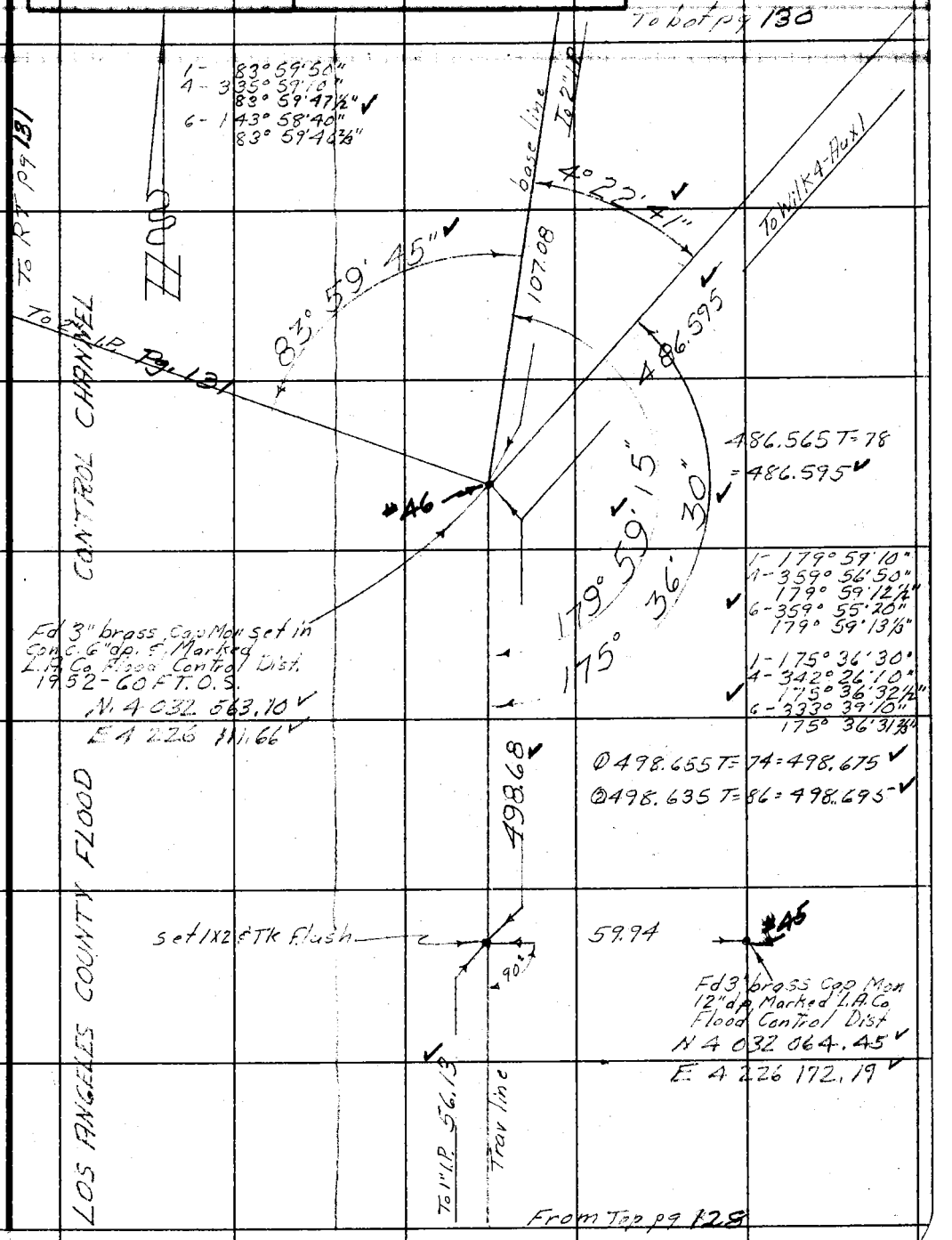
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by RRM	Survey of L B Subsidence
Map No.	W. O. 4922 Tape No. 0137 St'd. 68 °F
Office Work	Surveyed by M. A. Van Deren
Checked	Notes Van Date 6-10-52
Date	Indexed R. C. Johnson

F. B. 937 Pg 129

1- 4° 22' 40"
4- 17° 30' 50"
4° 22' 42½"
6- 26° 16' 10"



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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F309S 247 2-51

F.B. 937 PG. 130

See Atlas Sheet E-12
Fd 2" brass Cap Mon Set in
Conc. P.M. in Center. 14" dp
on 15' line Mon No 2127
60+84.357 per City FBC-36
60+84.22 per HD FB 112
148.46 T=78=148.47
N 4 033 274.74
E 4 223 155.96

LOS ANGELES COUNTY FLOOD CONTROL DIST
60 FT. O.S.
0.08
old P.M.
New P.M.

Fd 3" br Cap Mon set in Conc 3" dp
P.M. in center of Mon has been
destroyed. Fd new P.M. 0.08 W. of
Center of Mon

F.S.
#4
164° 20' 25"
148.47
226.505 T=76
=226.515

1- 164° 20' 20"
4- 297° 21' 40"
164° 20' 25"
6- 266° 02' 20"
164° 20' 23 1/3"

#5
N-4 033 133.21
E-4 226 111.11
To RT 19 CHANNEL
To 2" I.P.
812.735
Calc
Fd 1.31
51°
26° 47' 15"
138° 43' 45"
226.515

1- 138° 43' 40"
4- 194° 55' 00"
138° 43' 45"
6- 112° 22' 30"
138° 43' 45"

1- 154° 23' 10"
4- 257° 33' 00"
154° 23' 15"
6- 206° 19' 30"
154° 23' 15"

92.685 T=76
=92.695

To RT 19 132
FLOOD CONTROL
Fd 4" nail No 2097
P9132
25° 37' 15"
92.695
54° 23' 15"
462.995
base line

1- 23° 37' 40"
4- 94° 30' 40"
23° 37' 40"
6- 141° 45' 50"
23° 37' 38 1/3"

To
Fd 3" brass Toilet Flush
Mon set in Wil Rd 4-Aux-1
FB 923-278
51° 46' 20"
4 207° 05' 00"
51° 46' 15"
6 310° 37' 30"
51° 46' 15"

N 4 033 048.36
E-4 226 148.32

Fd 2" I.P. no plug Flush
Set Conc ctr & cap wire
on line
N-4 032 670.19
E 4 226 111.56
#59

1- 26° 47' 40"
4- 107° 10' 20"
26° 47' 35"
6- 160° 45' 30"
26° 47' 35"

28° 00' 20"
486.595
F.S.

LOS ANGELES COUNTY

107.08
base line
Trav line
To 3" br Cp Mon

D 462.975 T=74=462.795
② 462.975 T=74=462.795

④ 4° 24' 30"
④ 17° 38' 10"
⑥ 26° 27' 10"
4° 24' 31 2/3"
① 107.075 T=74=107.08
② 107.075 T=74=107.08

From: Top pg 129

To 3" br Cp Mon
4° 24' 30"
#2
To Aux. 2

1- 28° 00' 20"
4- 112° 01' 20"
28° 00' 20"
6- 168° 01' 51"
28° 00' 18 1/3"

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725 LOS ANGELES COUNTY
ENGINEERING BLDG.

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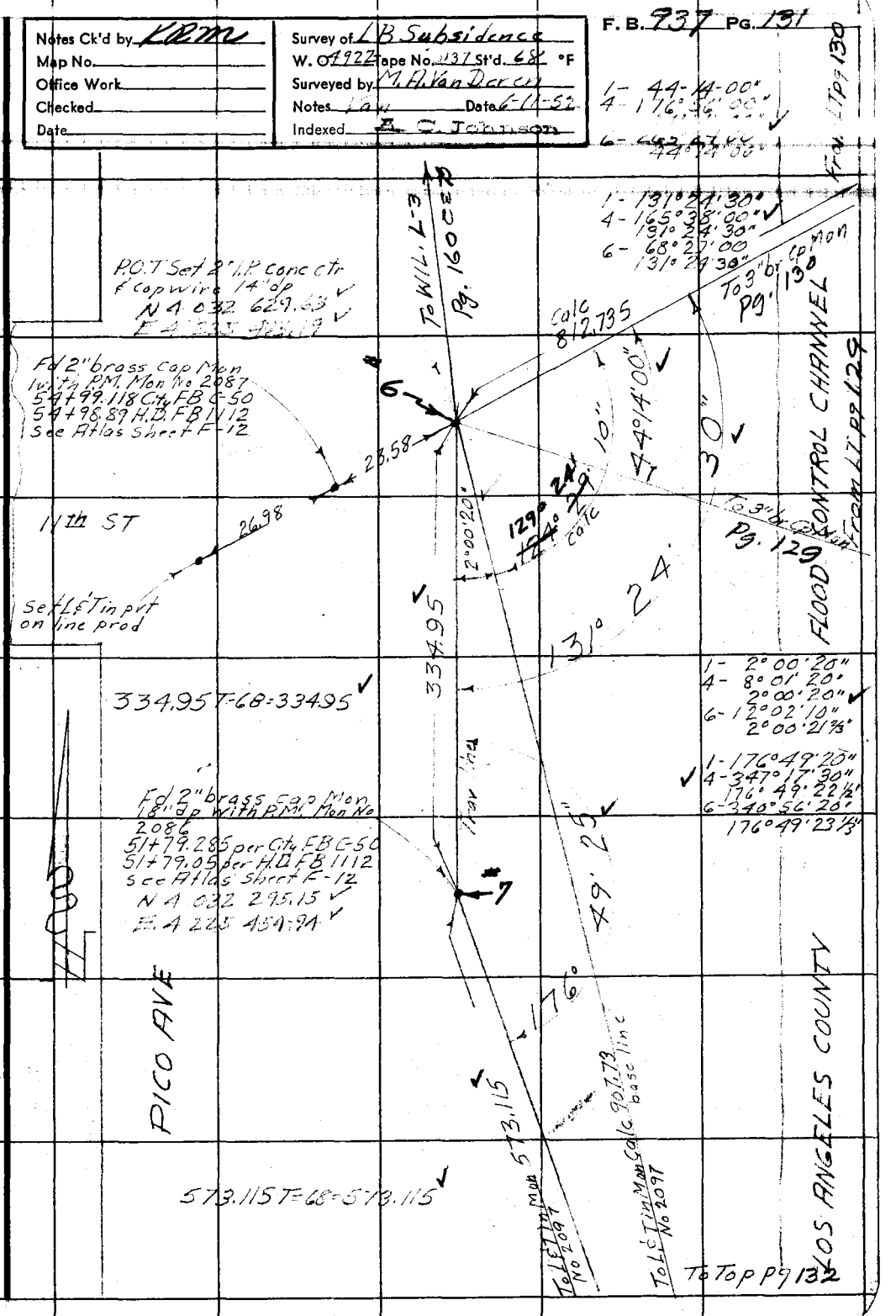
Notes Ck'd by KRM	Survey of LB Subsidence
Map No.	W. O. 4922 Tape No. 137 St'd. 68 °F
Office Work	Surveyed by M. A. Van Deren
Checked	Notes Van Date 6-11-52
Date	Indexed A. C. Johnson

F. B. 937 PG. 131



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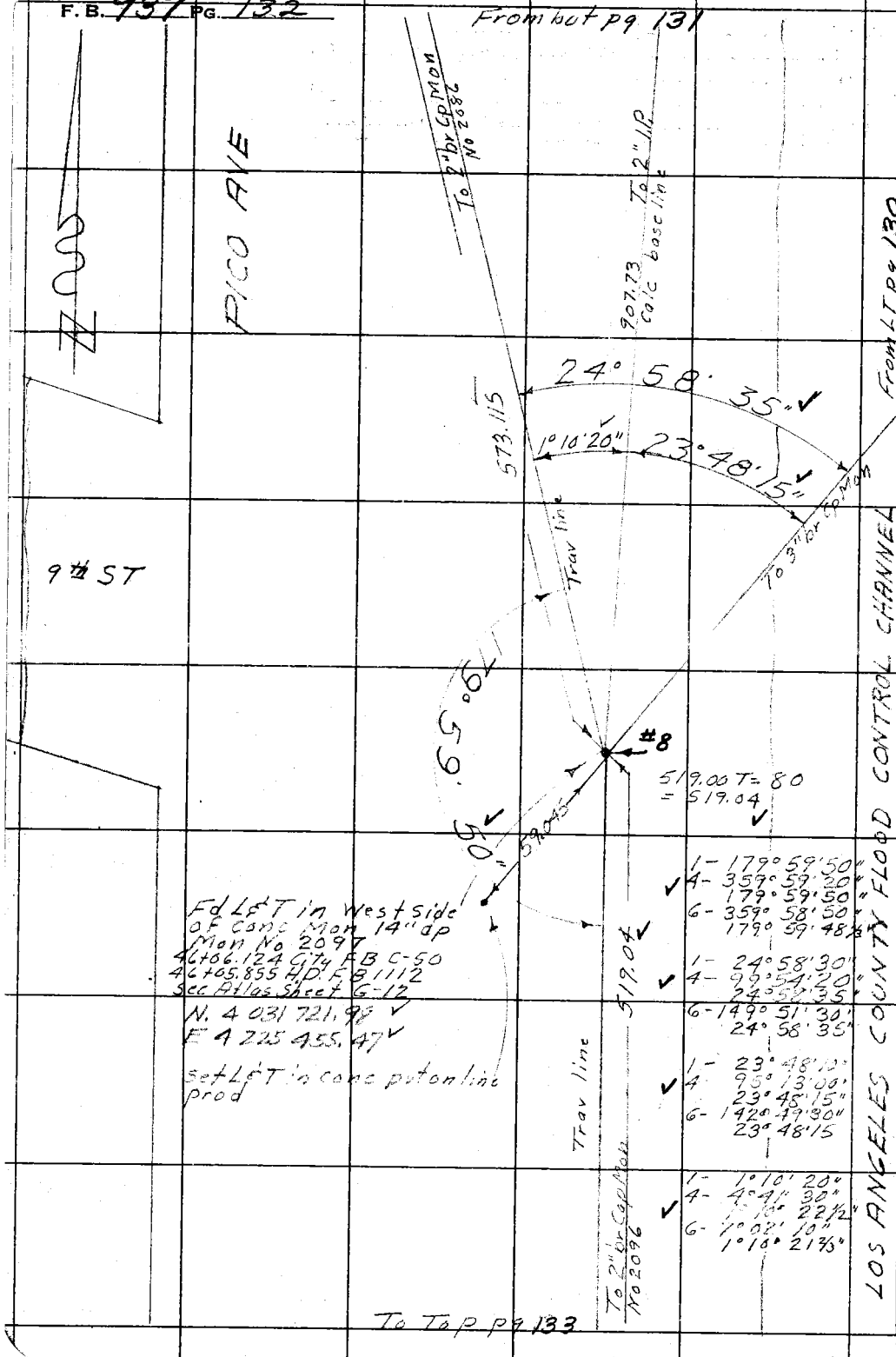
76F309S 247 2-51

F.B. 937 PG. 132

From but pg 131



From LT pg 130

To Top pg 133

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726 LOS ANGELES COUNTY
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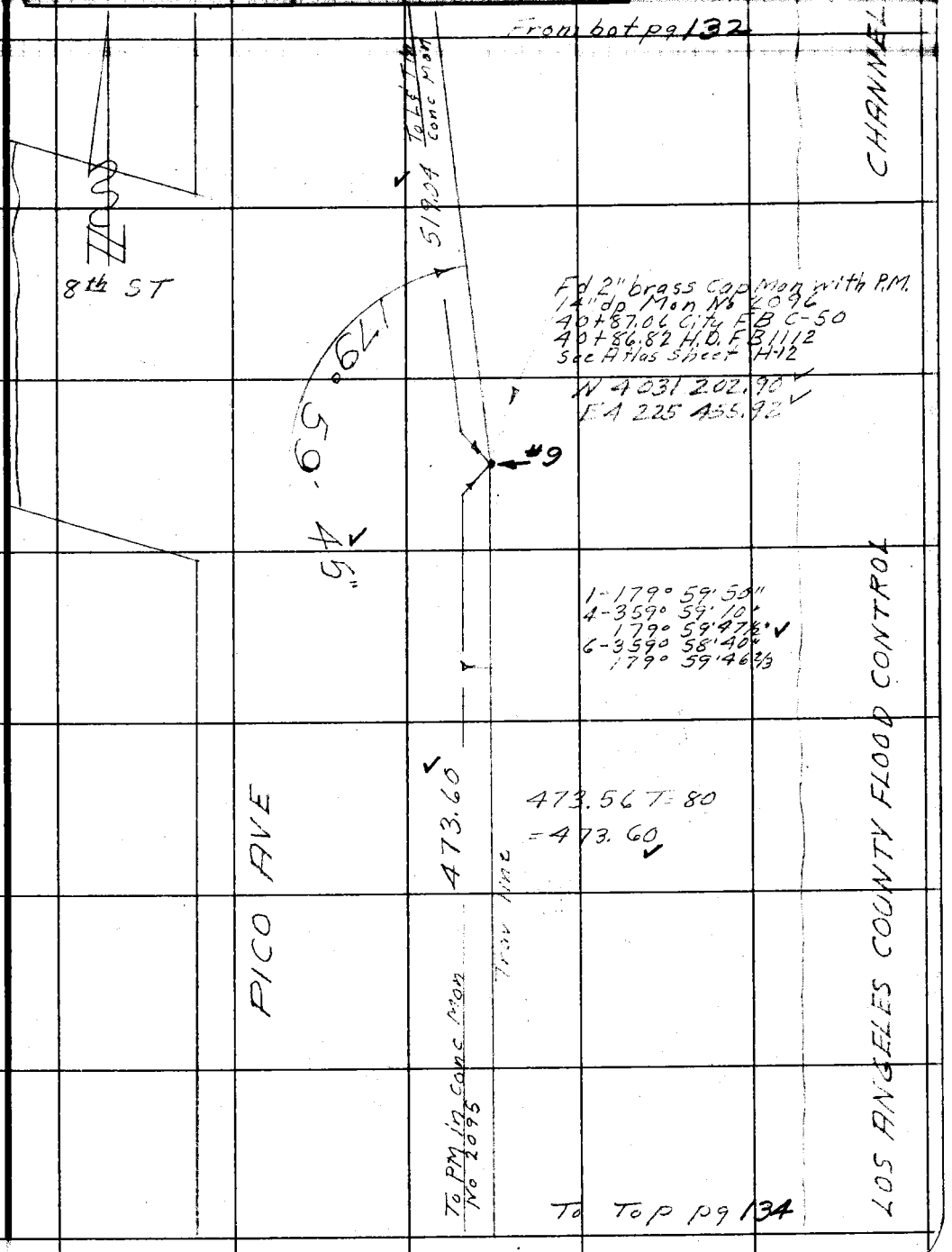
Notes Ck'd by R.P.M.	Survey of L B Subsidence
Map No.	W. O. 4922 Tape No. 237 St'd. 68 °F
Office Work	Surveyed by M. A. Van Der Cy
Checked	Notes Van Date 6-11-52
Date	Indexed A. C. Johnson

F. B. 937 PG. 133



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RETURN TO
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726 LOS ANGELES COUNTY
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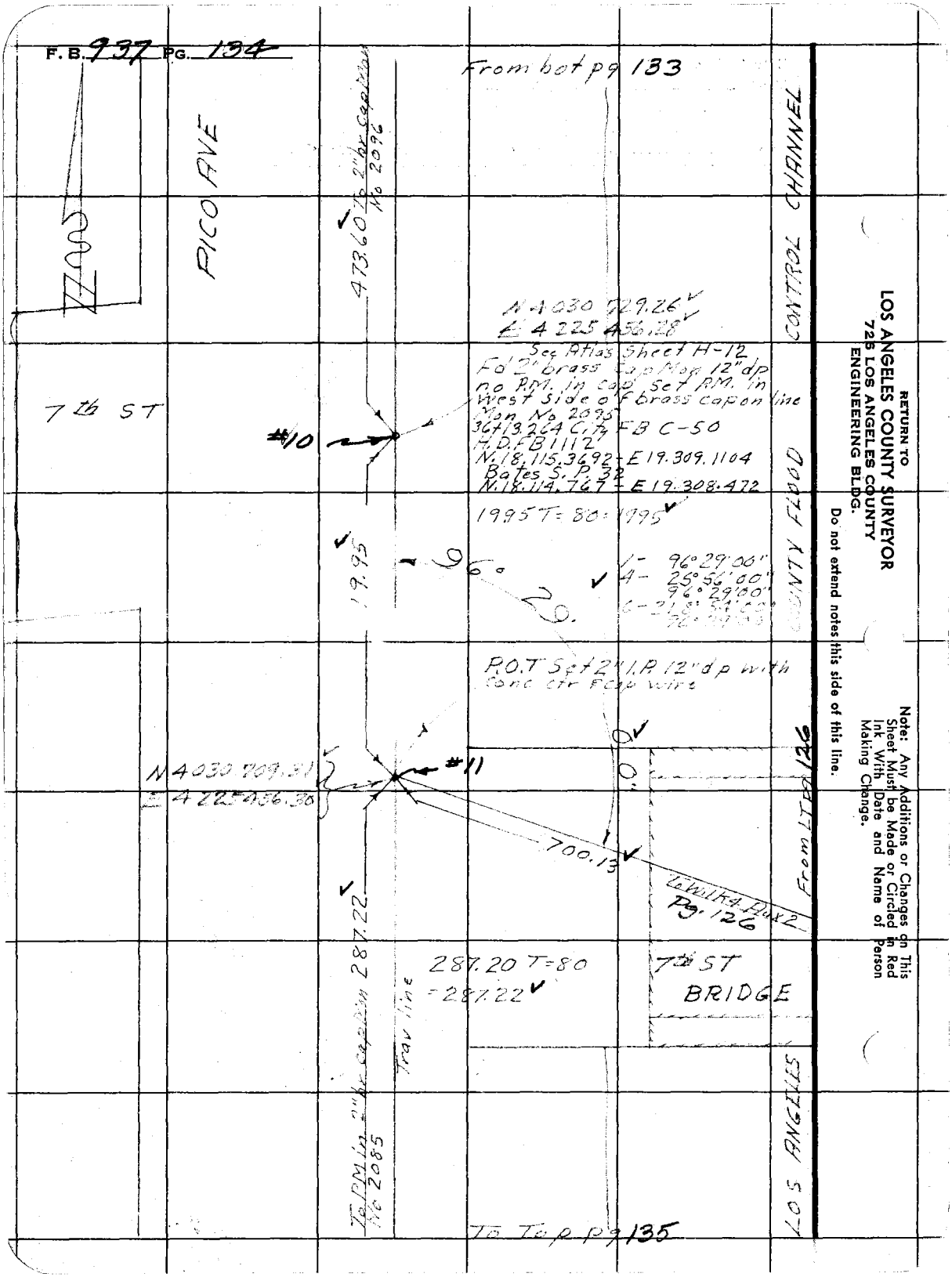
76F309S 247 2-51


F.B. 937 PG. 134
From bot pg 133
PICO AVE
473.60 To 2" br cap Mon No 2096
CONTROL CHANNEL
N 4030 729.26
E 4225 456.28
See Atlas Sheet H-12
Fd 2" brass cap Mon 12" dp no P.M. in cap Set P.M. in West side of brass cap on line
Mon No 2095
36+13.264 City FB C-50
H.D.FB 1112
N.18.115.3692 - E19.309.1104
Bates S.P. 32
N.18.114.767 - E19.308.472
7th ST
#10
1995 T=80=1995
19.95
96°29'
1- 96°29'00"
4- 25°56'00"
96°29'00"
COUNTY FLOOD
P.O.T Set 2" I.P. 12" dp with conc ctr & cap wire
N 4030 709.31
E 4225 456.30
#11
700.13
From LTP 126
Pg. 126
287.22
287.20 T=80
=287.22
7th ST
BRIDGE
Trav line
To PM in 2" br cap Mon No 2085
LOS ANGELES
To Top pg 135
RETURN TO
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725 LOS ANGELES COUNTY
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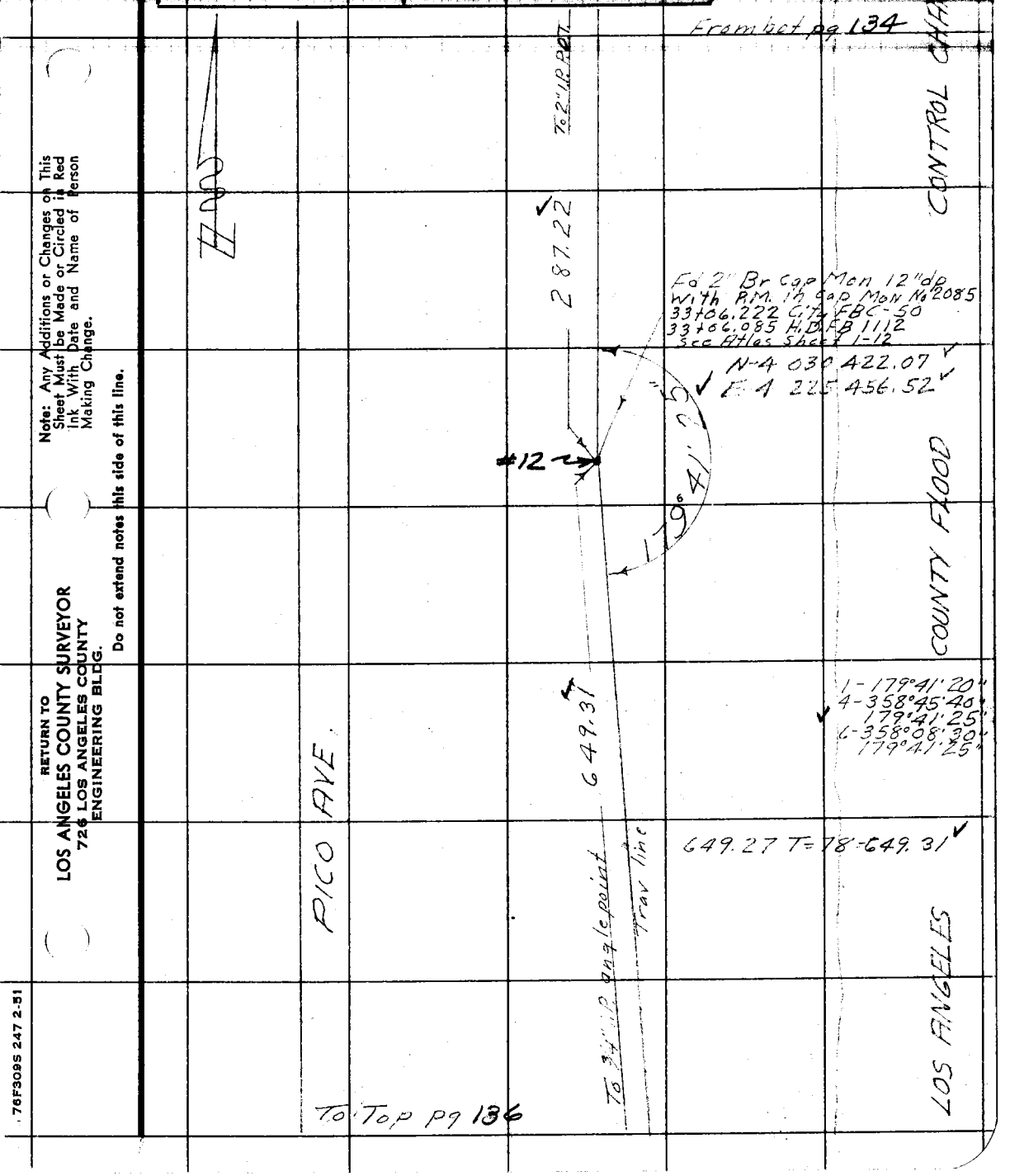
Notes Ck'd by RRM	Survey of LB Subsidence
Map No.	W. O. 4922 Tape No. 2137 St'd. 68 °F
Office Work	Surveyed by M.A. VanDeren
Checked	Notes Van Date 6-12-52
Date	Indexed R. C. Johnson

F.B. 937 Pg. 135



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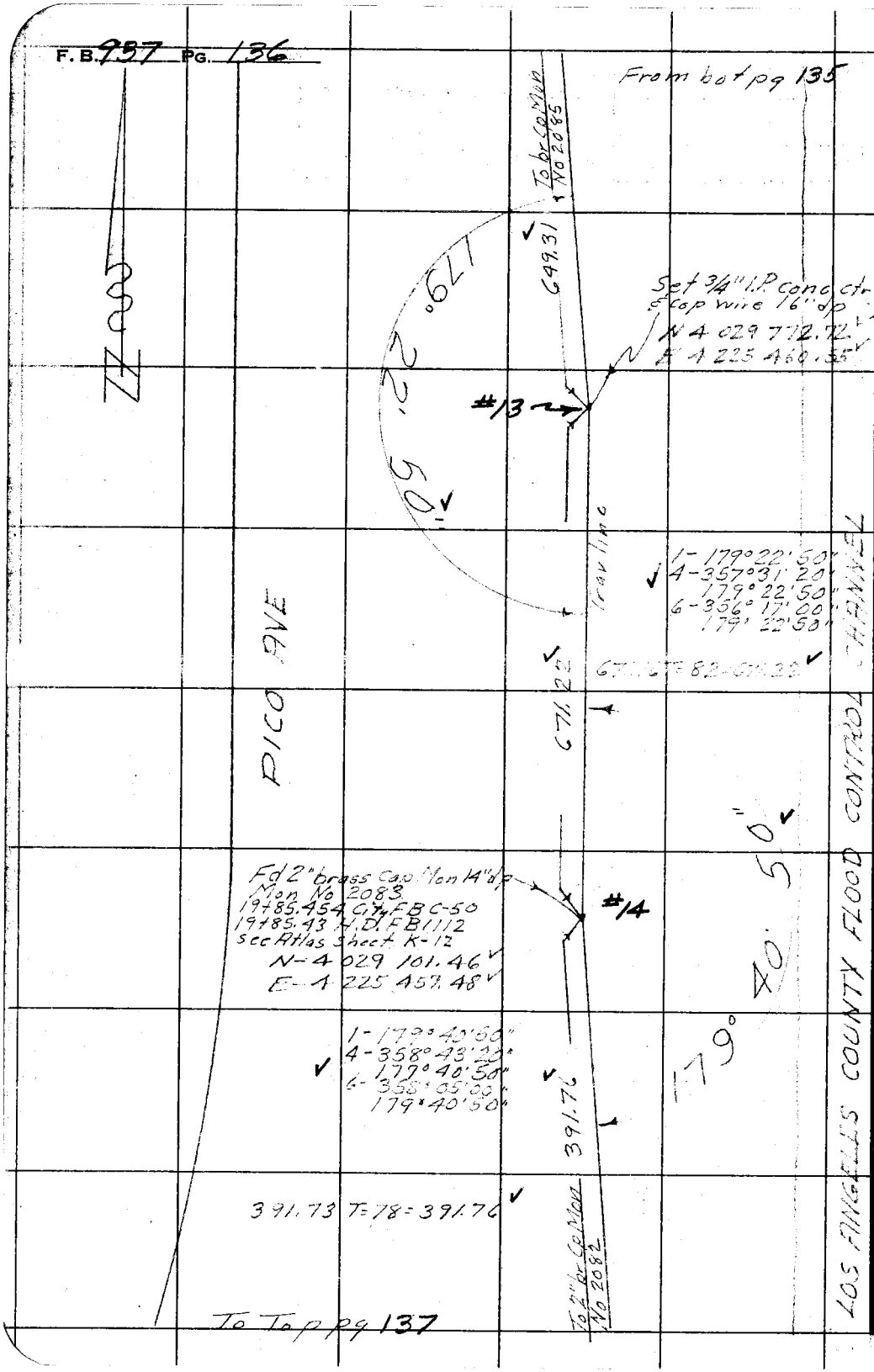
76F309S 247 2-51

F.B. 937 PG. 136



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Notes Ck'd by KRM	Survey of LB Subsidence
Map No.	W. O. 4922 Tape No. N37 St'd. 68 °F
Office Work	Surveyed by [illegible] Van Deren
Checked	Notes Van Date 6-13-52
Date	Indexed A. C. Johnson

F. B. 937 PG. 137

From bot pg 136

To 23 hr Cp Mon No 2383

391.76

M27
Fd 2" brass Cap Mon
14" dp. Mon No 2082
15+93.581 City FB C-50
15+93.565 H.D. FB 1112
N 16.095.400 E 19.309.480
Bates Sec. 4 pg 451
See Atlas Sheet K-12
N-4 028 709.66
E-4 225 457.88

179° 59' 20"

3rd ST

#15

1-179° 59'20"
4-359° 57'20"
179° 59'20"
6-359° 56'20"
179° 59'21⅔"

641.37 T=68°
=641.37

CONTROL CHANNEL

641.37

Trav line

179° 23' 50"

M29
Fd L&T in Conc Mon 14" dp
Mon No 2090
9+51.865 City FB C-50
9+51.875 H.D. FB 1112
Bates Sec. 4 pg 451
N 15.453.847 E 19.309.784
See Atlas Sheet L-12
N 4 028 068.24
E 4 225 458.42

1st ST

#16

378.25

378.25 T=68°
=378.25

LOS ANGELES COUNTY FLOOD

1-179° 23'50"
4-357° 35'20"
179° 23'50"
6-356° 23'00"
179° 23'50"

To S&W angle point

To Top pg 138

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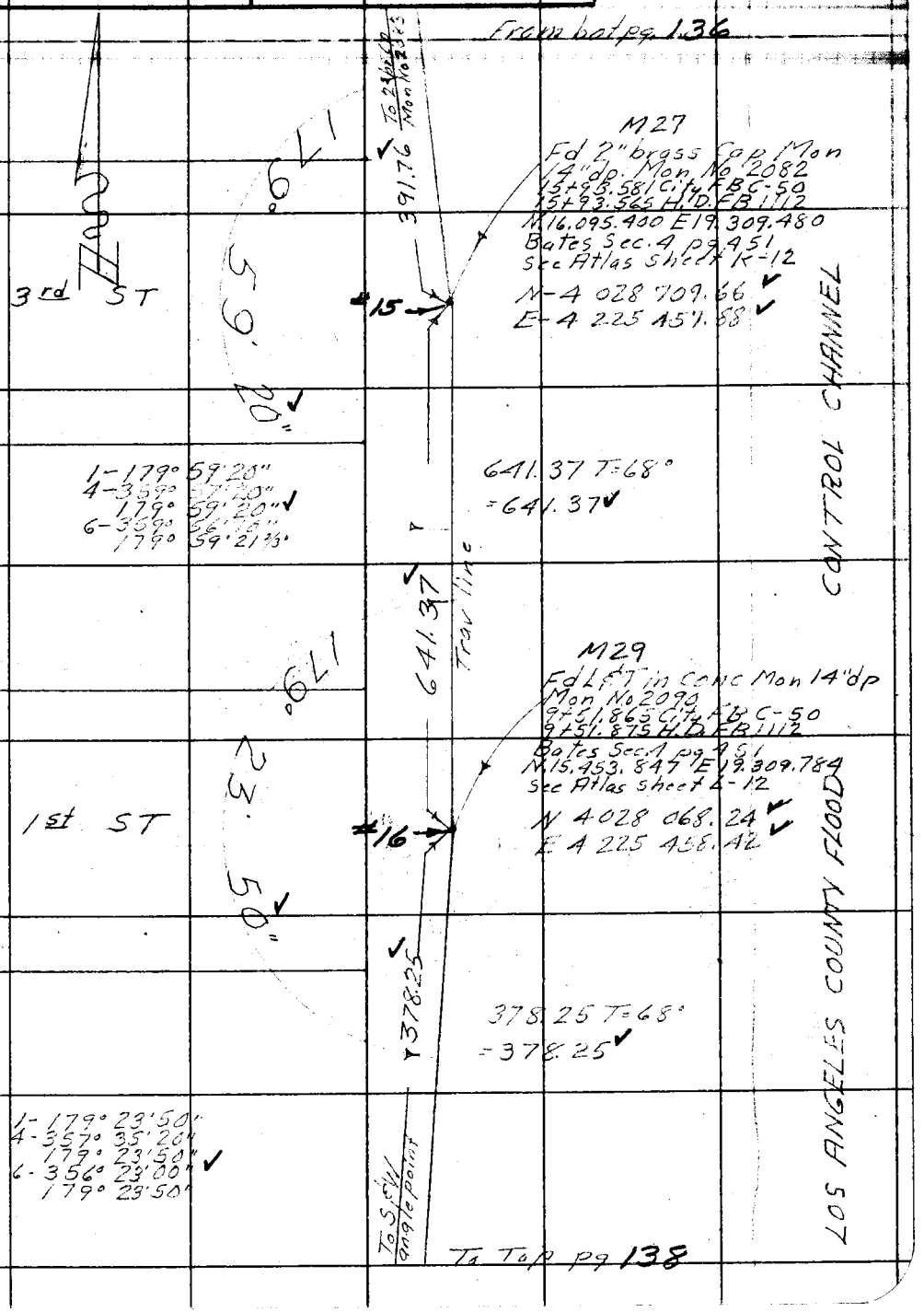

76F309S 247 2-51

F.B. 937 PG. 138

From bot pg 137

To L&T in conc Mon No 2090

Trav line

378.25

82° 38' 10"

45

To L.T. pg 141

CONTROL CHANNEL

OCEAN AVE

Angle point set S&W on the South side of ocean Ave

N. 4 027 689.98

#17

699.64

To Wil K4-Anx3 Pg. 141

OCEAN AVE

BRIDGE

10.90

16

#18

179°

Set L&T in conc walk on line

N-4 027 679.08

E-4 225 454.80

699.65 T=66=699.64

1- 179° 16' 50"
4- 357° 07' 10"
179° 16' 47½"
6- 355° 40' 40"
179° 16' 46⅔'

573.06

1- 82° 38' 10"
4- 330° 32' 50"
82° 38' 12½"
6- 135° 49' 10"
82° 38' 11⅔'

To 4"x4" & Top LS 2387 No E411

573.06 T=68°
= 573.06

LOS ANGELES COUNTY FLOOD

To Top pg 139

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LOS ANGELES COUNTY SURVEYOR
725 LOS ANGELES COUNTY
ENGINEERING BLDG.

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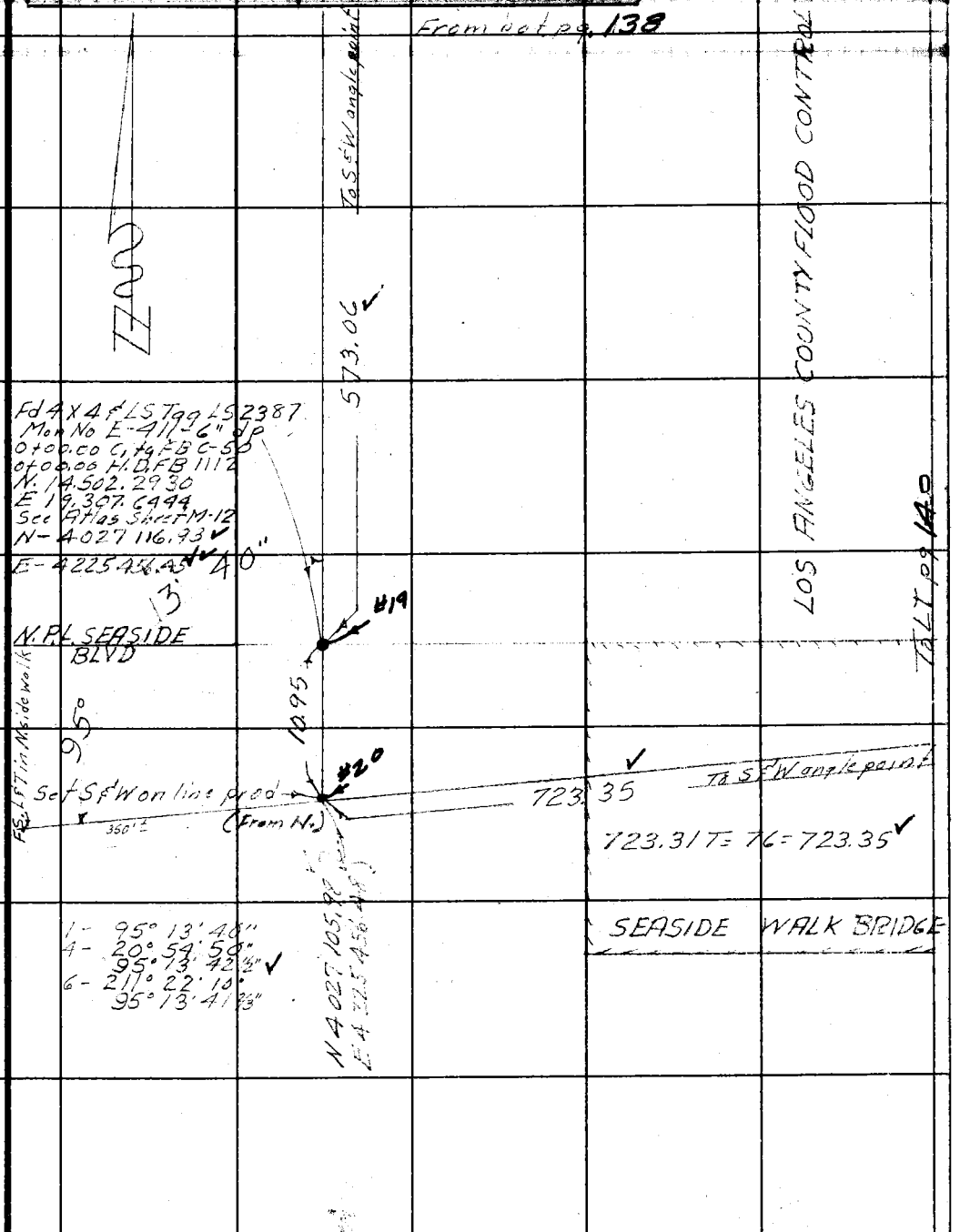
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by KRM	Survey of L.B. Subsidence
Map No.	W. O. 4922 Tape No. 6137 St'd. 68 °F
Office Work	Surveyed by M.A. Van Deren
Checked	Notes Van Date 6-16-52
Date	Indexed E. C. Johnson

F. B. 937 Pg. 139

From bot pg. 138



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

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F309S 247 2-51

F.B. 937 PG. 140

To bot pg 141

1- 173° 22' 50"
4- 333° 31' 40"
173° 22' 55"
6- 320° 17' 30"
173° 22' 55"

229.44 T=76 = 229.45

To Will K4-Aux3

229.45

173° 22' 55"

Fd Bt Spk & W Flush Mon No 2119
3+53.822 City FB C-36
3+53.79 H.D. FB 1112
see Atlas Sheet M-12
N- 4 027 545.06
E- 4 226 [illegible]

#23

SANTA CRUZ ST

353.63 T=76 = 353.65

353.65

LOS ANGELES COUNTY FLOOD CONTROL CHANNEL

VENETIAN SQ

1- 84° 40' 20"
4- 338° 41' 30"
84° 40' 22½"
6- 148° 02' 10"
84° 40' 21¾"

Fd New 4X4 & Cap nail Flush
Mon No 2118
0+00.00 City FB C-36
See Atlas Sheet M-12
N- 4 027 191.41
E- 4 226 176.60

84° 40' 20"

#22

SEASIDE WALK BRIDGE

17.41

#21

FS

To S&W angle pt 723.35

N- 4 027 174.00
E- 4 226 176.62

Set S&W on line prod. from N.

SEASIDE WALK

From RT pg 139

RETURN TO
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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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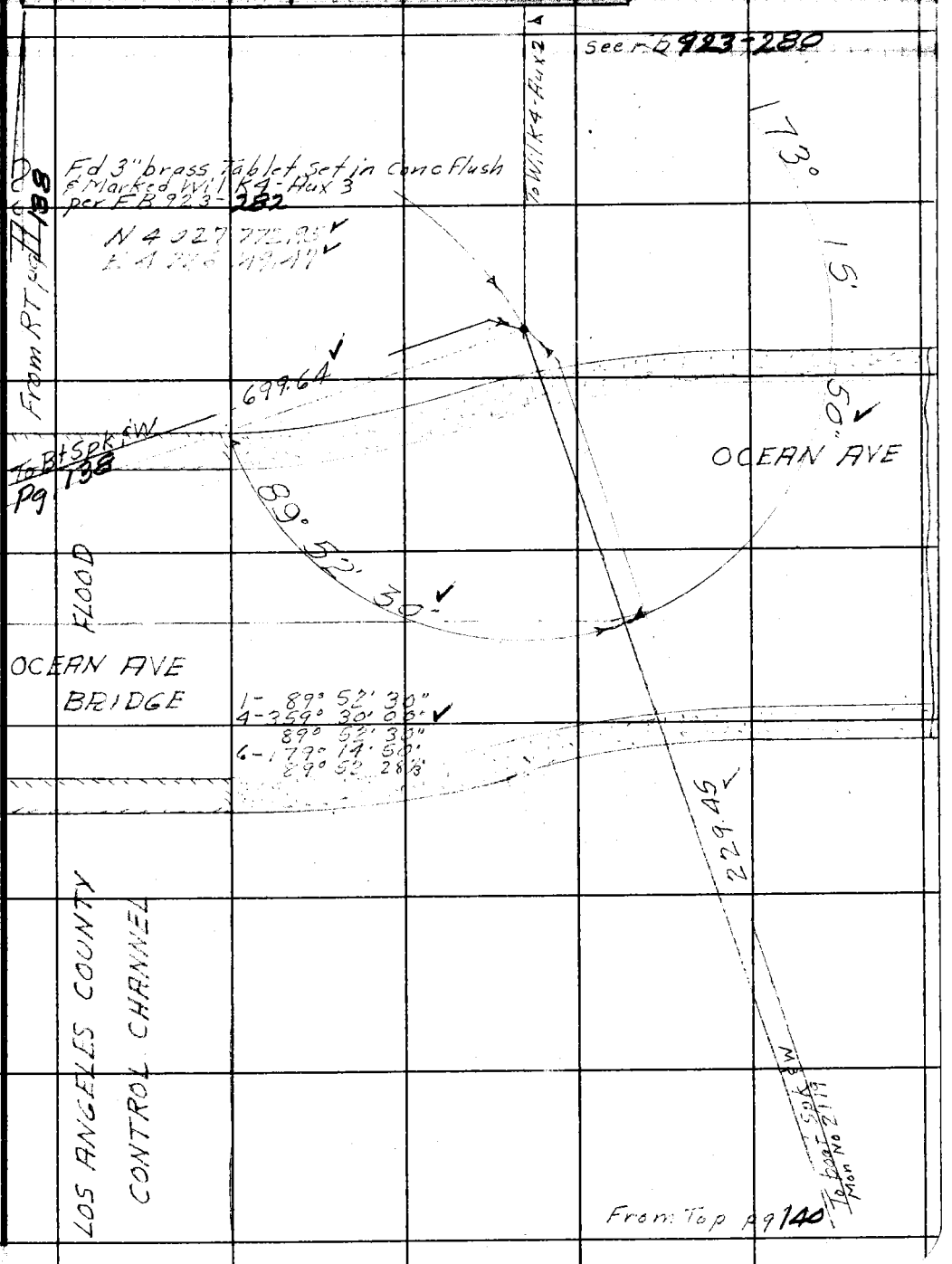
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by KRM	Survey of LB Subsidence
Map No.	W. O. 1922 Tape No. 0137 St'd. 68 °F
Office Work	Surveyed by M. A. Van Deren
Checked	Notes Van Date 6-17-62
Date	Indexed A. C. Johnson

F. B. 937 PG. 141

1- 173°15'50"
4- 333°03'30"
173°15'52"
6- 319°35'10"



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

Do not extend notes this side of this line.

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

76F309S 247 2-51

F. B. 937 PG. 142

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

Do not extend notes this side of this line.

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

Notes Ck'd by KRM	Survey of LB Subsidence
Map No.	W. O. 4922 Tape No. 0137 St'd. 68 °F
Office Work	Surveyed by M.A. Van Deren
Checked	Notes Van Date 6-17-52
Date	Indexed E. C. Johnson 6-20-52

F. B. 937 PG. 143

JN 4922

LONG BEACH SUBSIDENCE

TRAVERSE LINE No 2 (GOLDEN AVE)

Tape No 0137 22½ @ 68° Temp taken on tape

Ref City FB C-50 - C-36
" H. D. FB 1112
" Atlas Sheet E-12 To M-12

6-18-52
Van Deren
Blankenship
Richards
Myers

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

Do not extend notes this side of this line.

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

76F309S 247 2-51

F. B. 937 PG. 144

To RT pg 152

LOS ANGELES COUNTY FLOOD CONTROL CHANNEL

To Wil K 4 Aux 2 FB 923-280

1- 173°15'50"
4- 333°53'30"
173°15'52½"
6- 319°35'10"
173°15'51⅔"

1- 93°46'30"
4- 15°06'00"
93°46'30"
6- 202°39'00"
93°46'30"

173°15'50"
93°46'30"

Fd a 3" brass Tablet Flush & Marked Wil K 4-Aux No 3 per FB 923-282
N 4 627 772.95
E 4 226 149.47

785.80

To S & W at Golden Ave

Gone walk

OCEAN AVE

BRIDGE

785.767-76=785.80

To Tp 145

OCEAN AVE

Gone walk

To Mon No 2119 per pg 140

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

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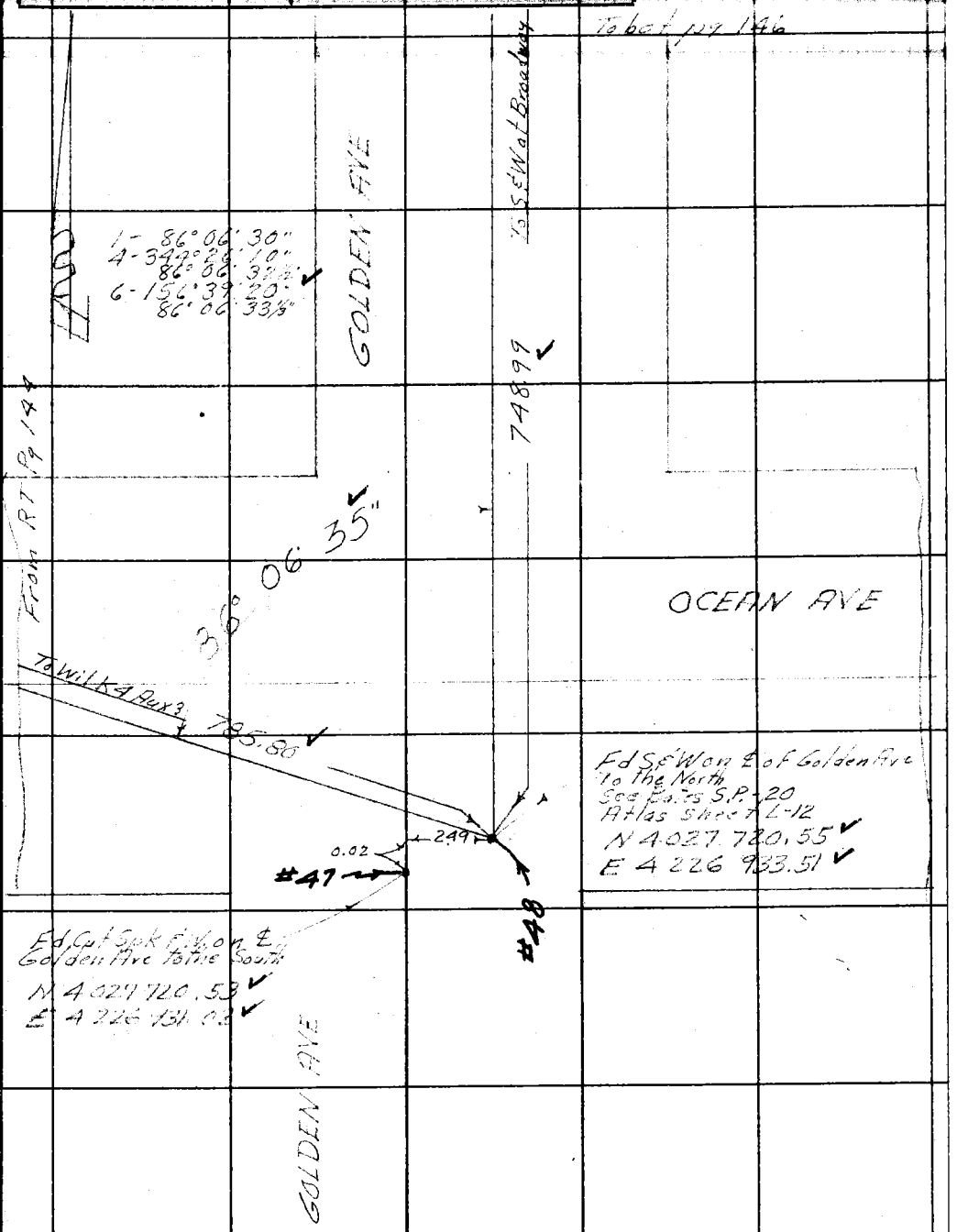
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by KRM	Survey of LB Subsidence
Map No.	W. O. 4922 Tape No. 0137 St'd. 68 °F
Office Work	Surveyed by M. A. van Deren
Checked	Notes Van Date [illegible]
Date	Indexed A. C. Johnson

F. B. [illegible] PG. [illegible]



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

Do not extend notes this side of this line.

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

76F309S 247 2-51

F. B. 937 PG. 146

To bot pg 147

To X Cut at 3rd St

GOLDEN AVE

440.12

Ed S&W Cty FBC 8
See [illegible]
See Atlas Sheet [illegible]

N-4 328 469.56
E-4 226 932.66

BROADWAY

#49

748.93 T-80=748.97

To S&W at Ocean Ave 748.97

From Top pg 145

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

Do not extend notes this side of this line.

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

76F309S 247 2-51

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

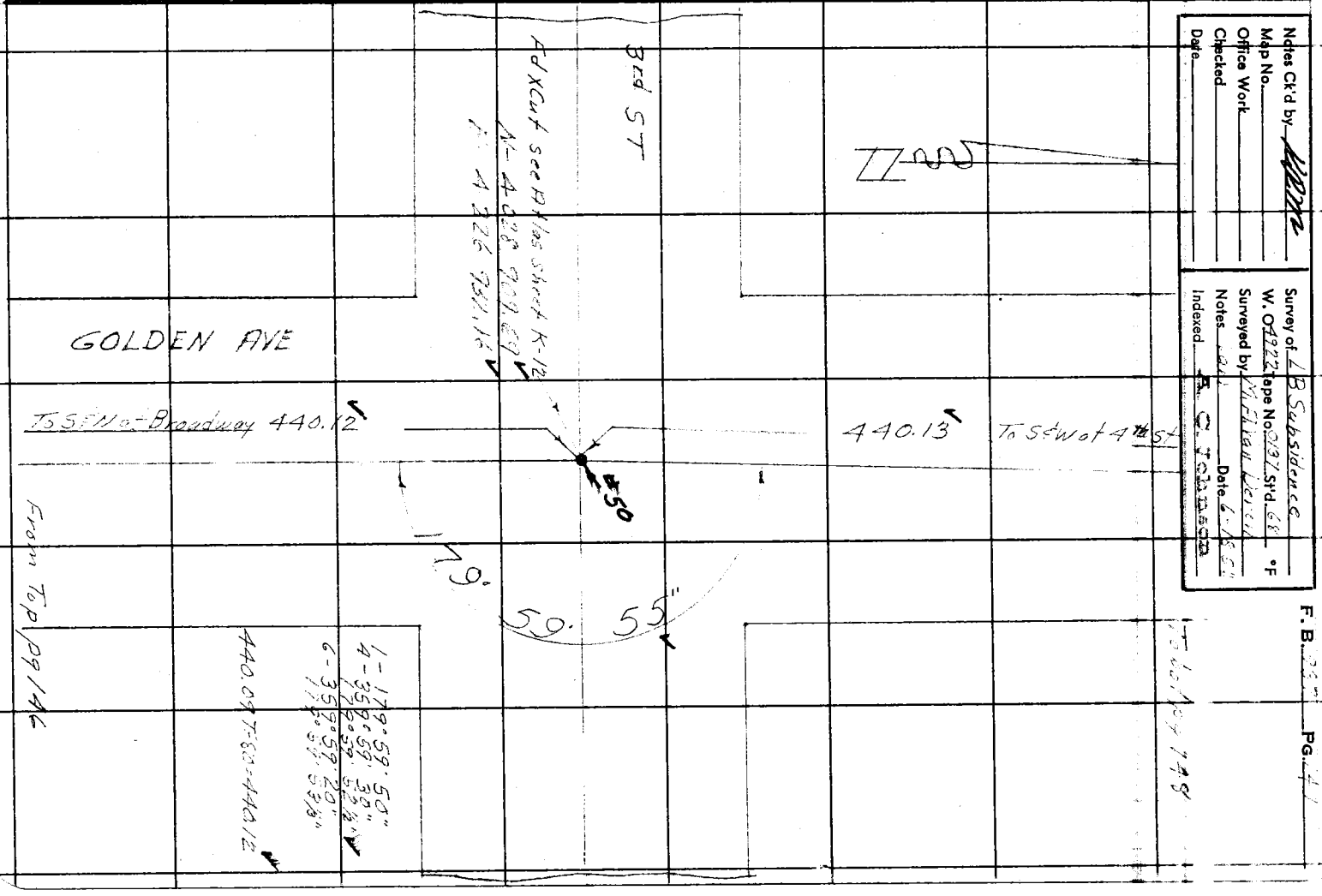
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

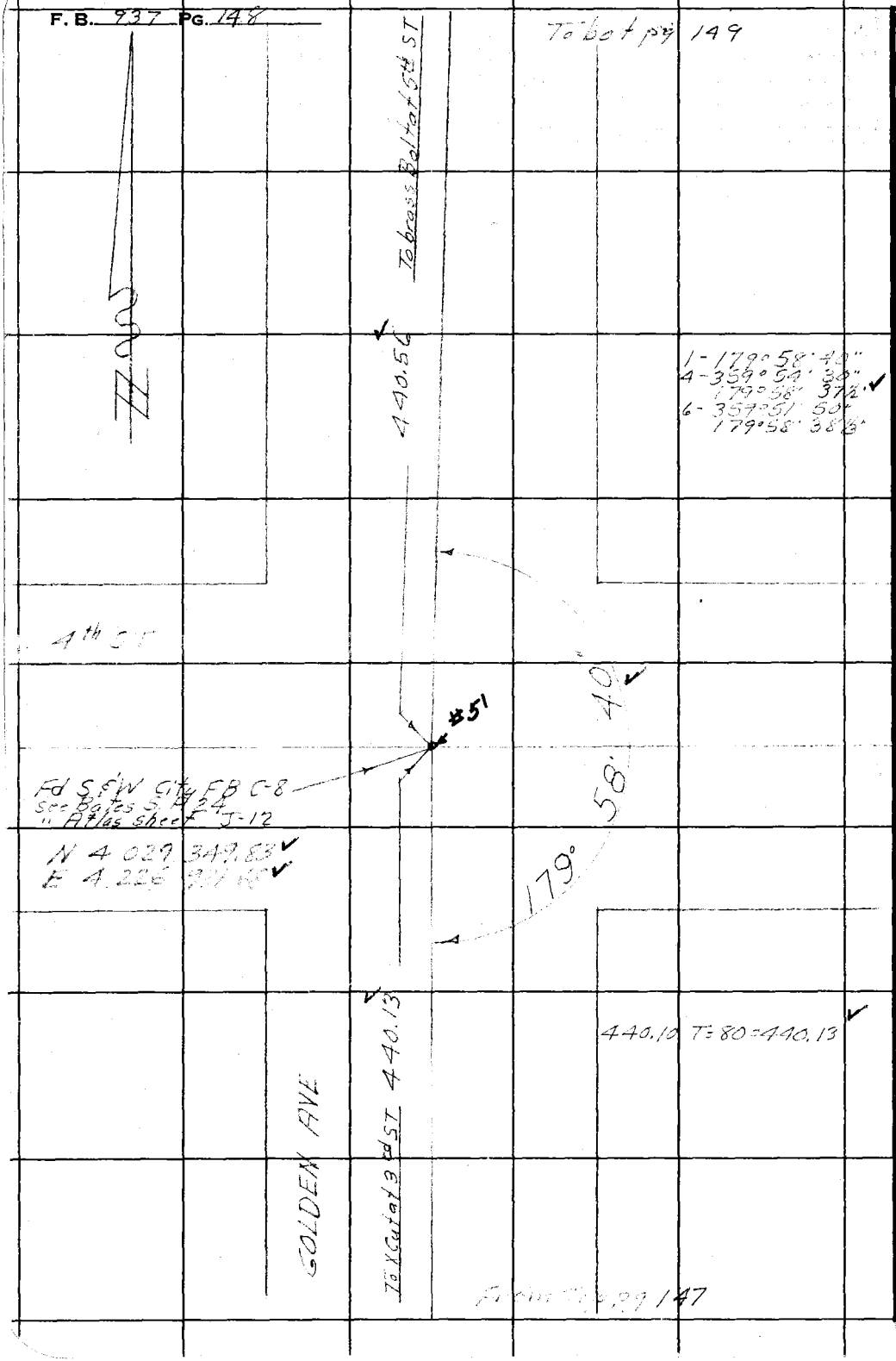
Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LB Subsidence
W. O. 42222 Tape No. 2197 Std. 68 °F
Surveyed by
Notes
Date
Indexed

F. B. PG.



F. B. 937 PG. 148



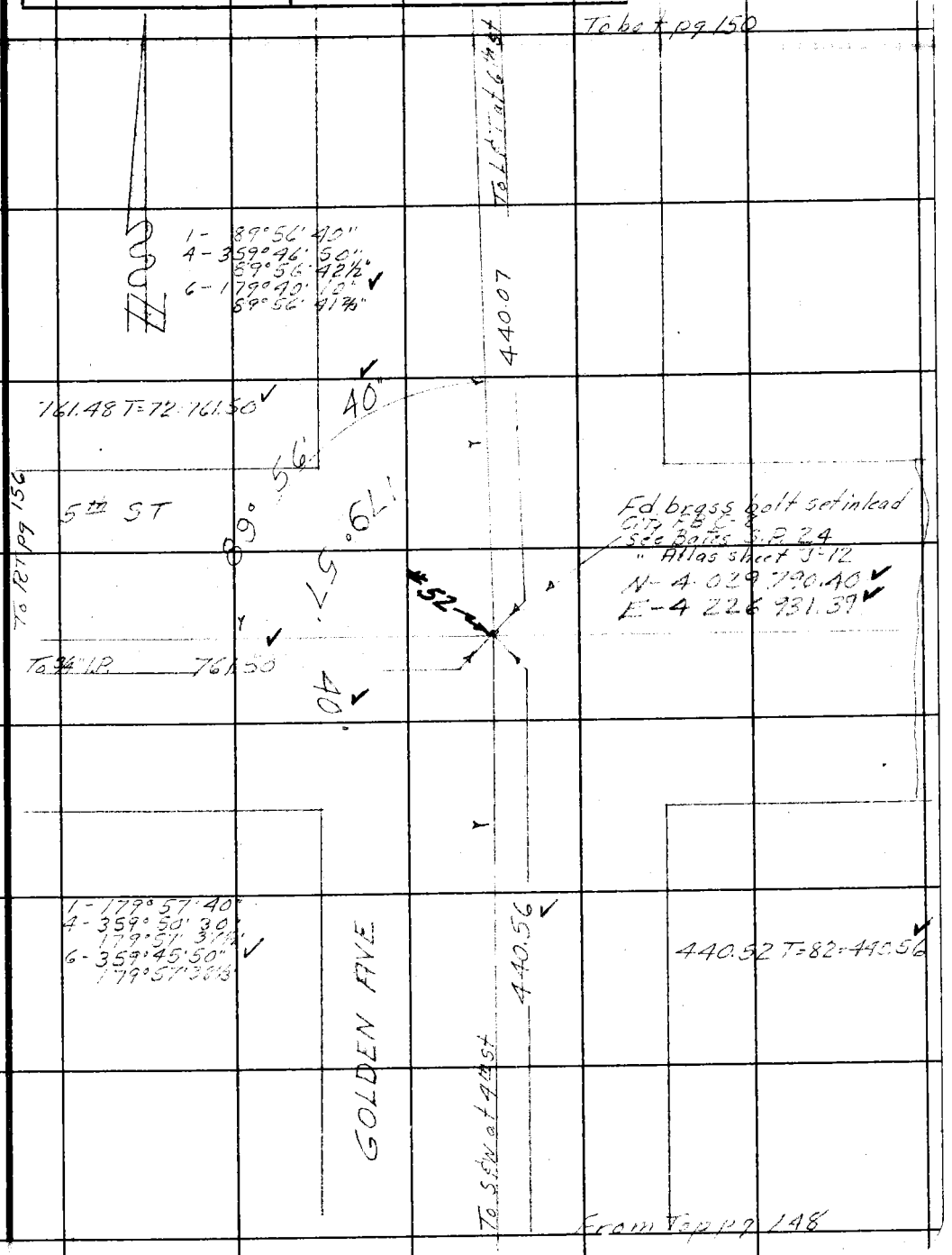
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

Do not extend notes this side of this line.

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

Notes Ck'd by KRM	Survey of L.B. Subsidence
Map No.	W. O. 4922 Tape No. 737 St'd. 68 °F
Office Work	Surveyed by M.A. Van Deren
Checked	Notes Van Date 4-16-52
Date	Indexed A. C. Johnson

F. B. 737 PG. 149



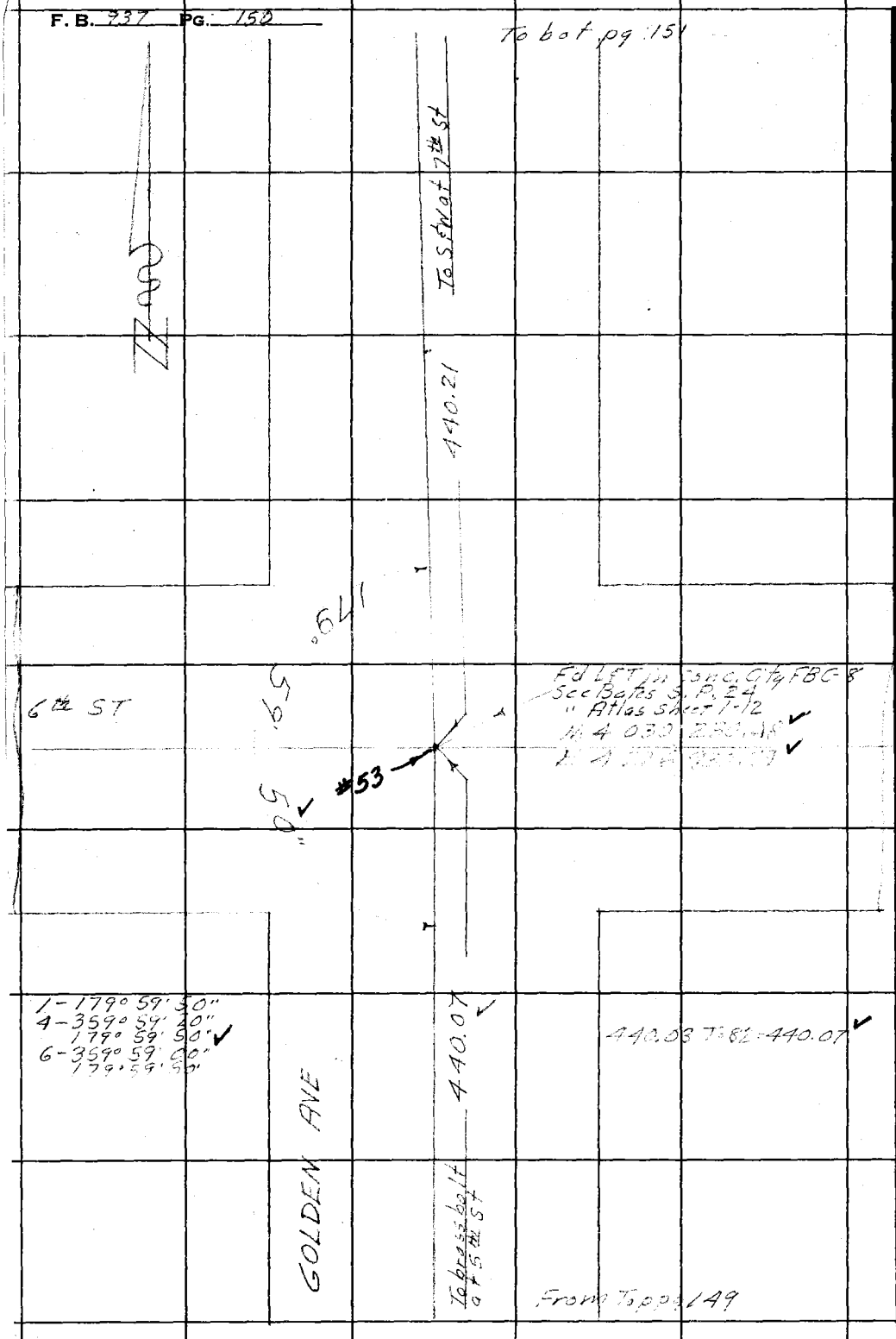
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

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

76F309S 247 2-51

F. B. 937 PG. 150



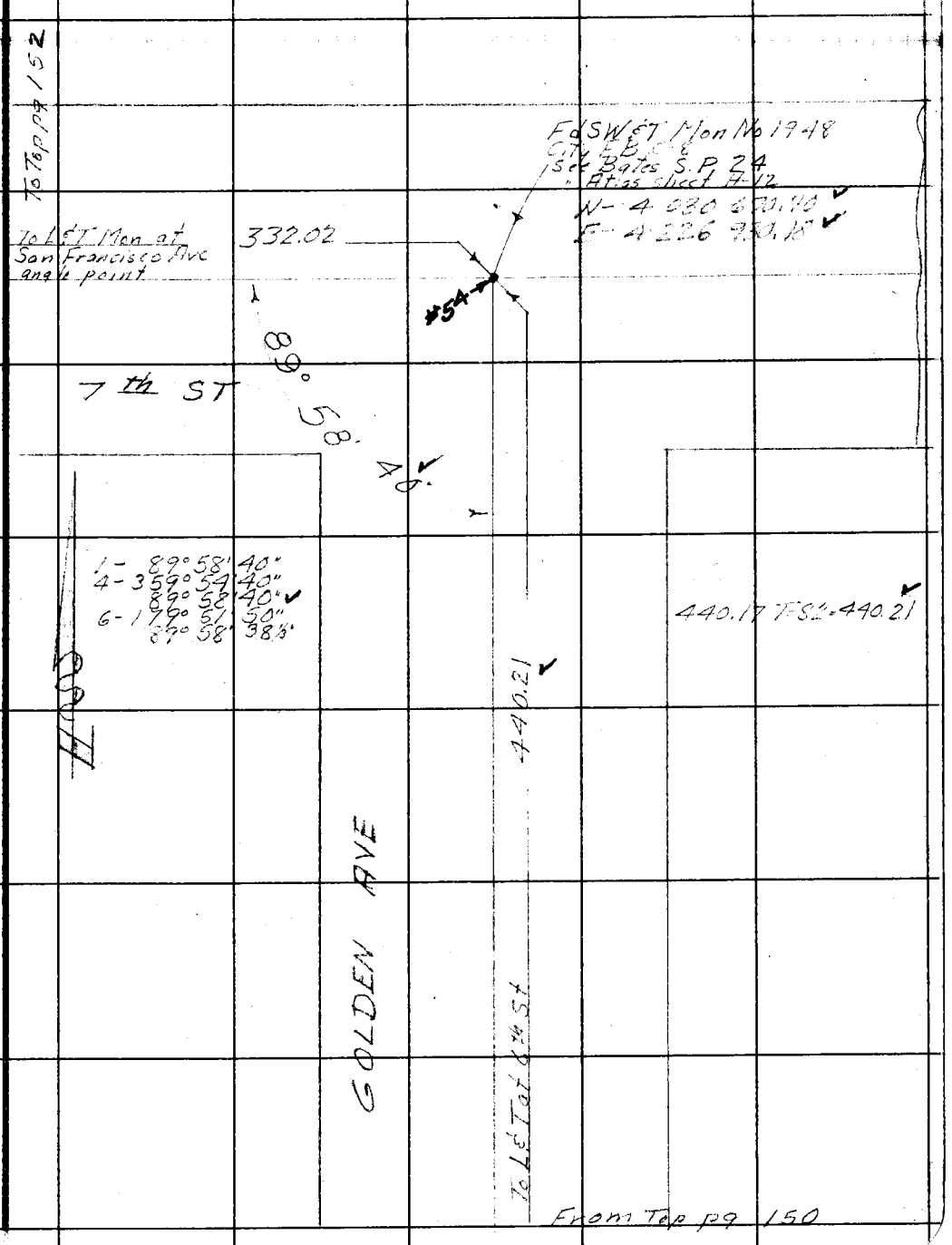
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

Do not extend notes this side of this line.

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

Notes Ck'd by KRM	Survey of L B Subsidence
Map No.	W. O. 4922 Tape No. 2137 St'd. 68 °F
Office Work	Surveyed by Y. Alan Doren
Checked	Notes Van Date 6-18-54
Date	Indexed A. C. Johnson

F. B. [illegible] PG. [illegible]

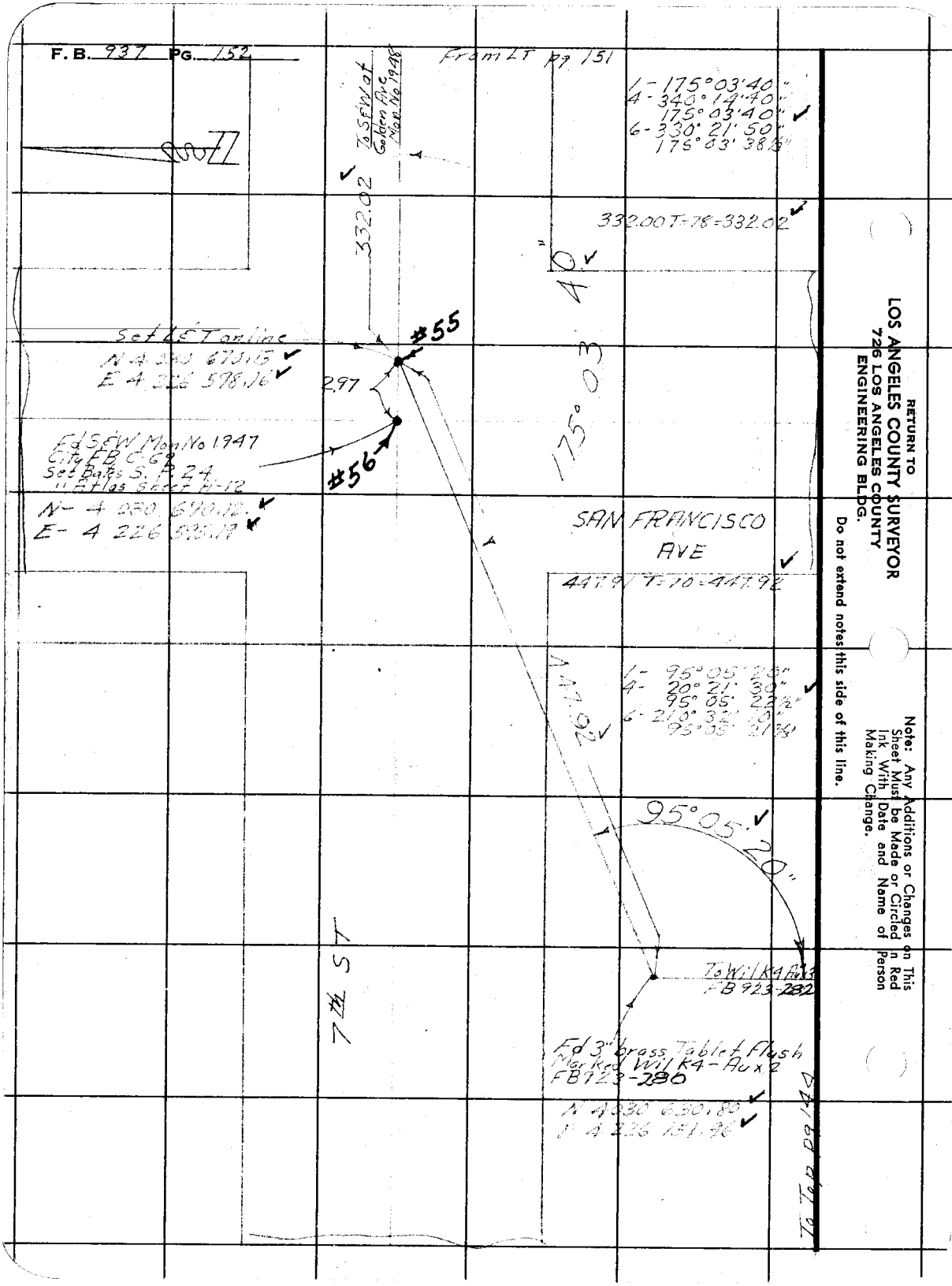


Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

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

76F309S 247 2-51



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

Do not extend notes this side of this line.

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

Notes Ck'd by KRM	Survey of LB Subsidence
Map No.	W. O. 4922 Tape No. 0137 St'd. 68 °F
Office Work	Surveyed by [illegible]
Checked	Notes Van Date 6-1952
Date	Indexed A. C. Johnson 6-23-52

F. B. [illegible] PG. 75

JN 4922

LONG BEACH SUBSIDENCE

TRAVERSE LINE NO 3

Tape No 0137 22½ @ 68° Temp taken on tape

6-19-52
Van Deren
Blankenship
Richards
Myers

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

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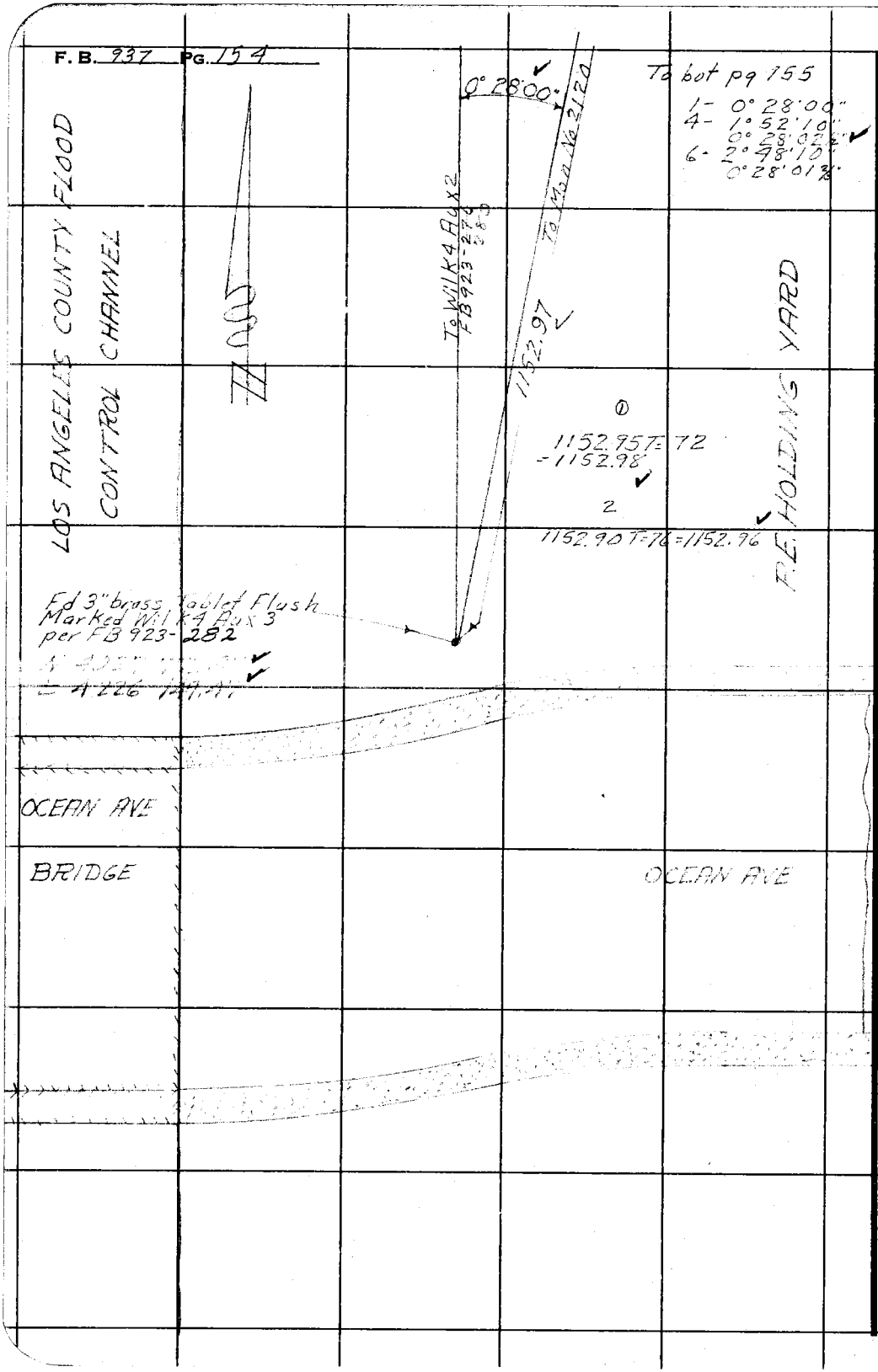
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F309S 247 2-51

F. B. 937 PG. 154



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

Do not extend notes this side of this line.

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

Notes Ck'd by KRM	Survey of LB Subsidence
Map No.	W. O. 4822 Tape No. 2137 St'd 68 °F
Office Work	Surveyed by M. Van Wert
Checked	Notes
Date	Date 6-28-52
	Indexed A. O. Johnson

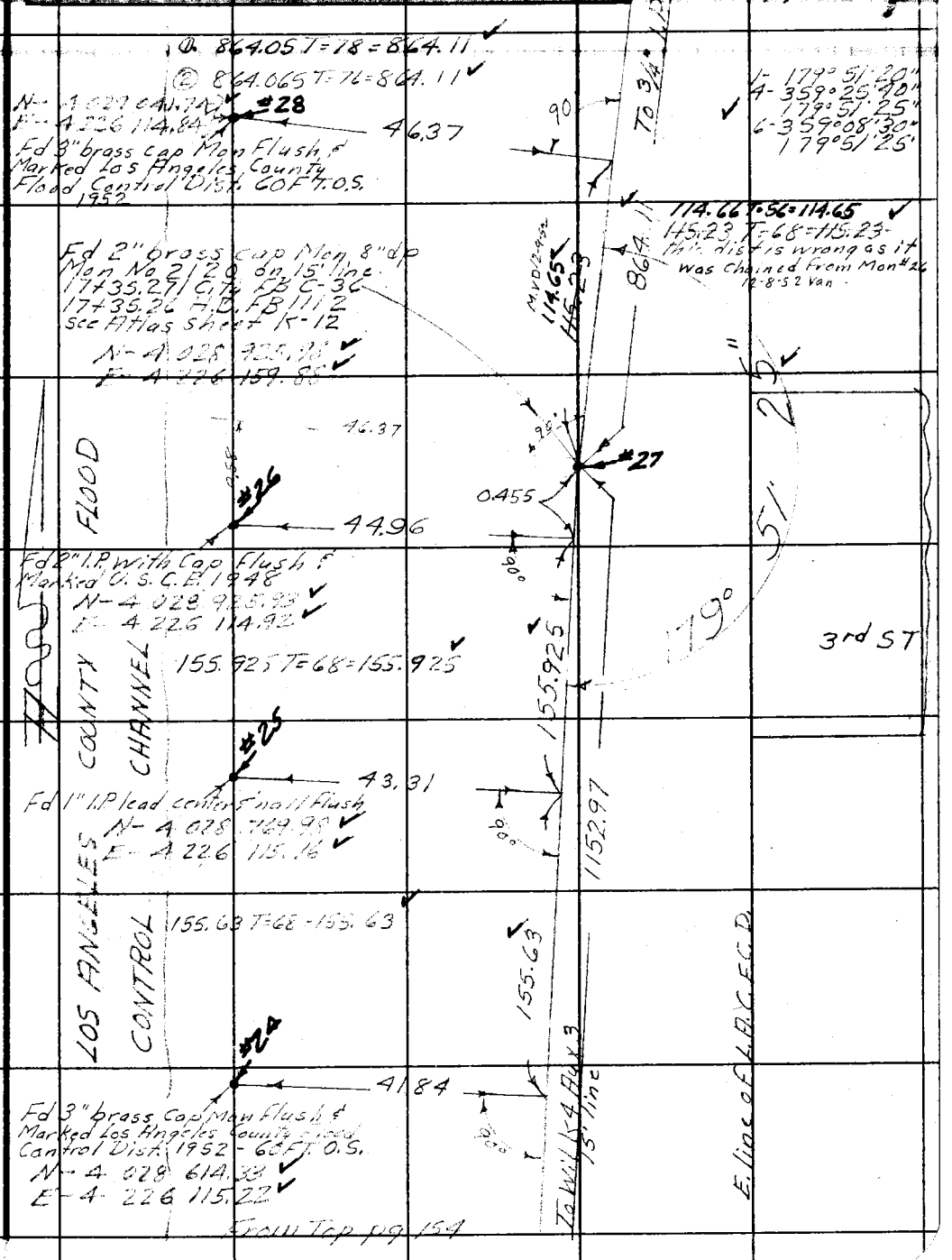
F. B. 297 PG. 155

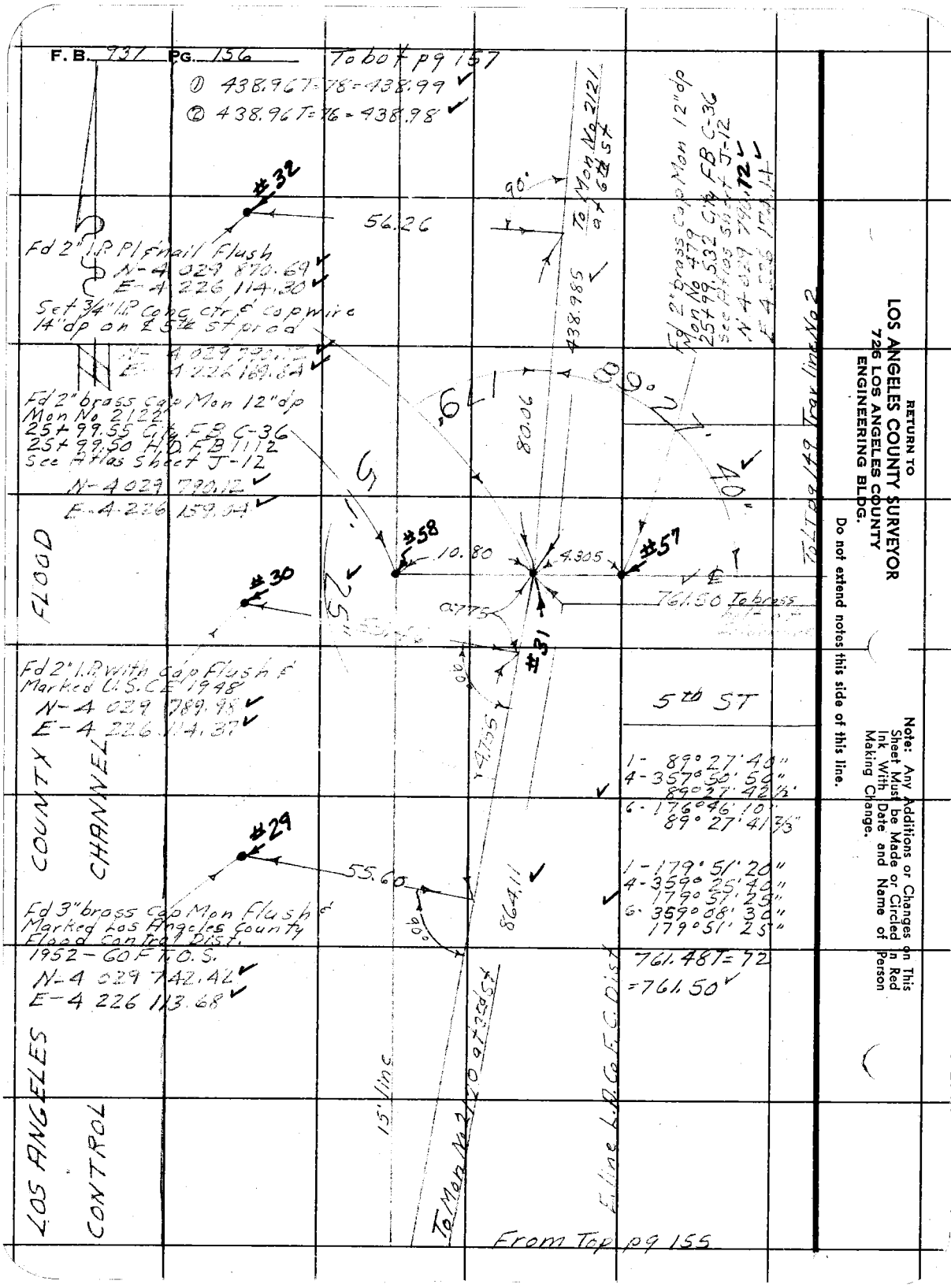
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

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

76F309S 247 2-51





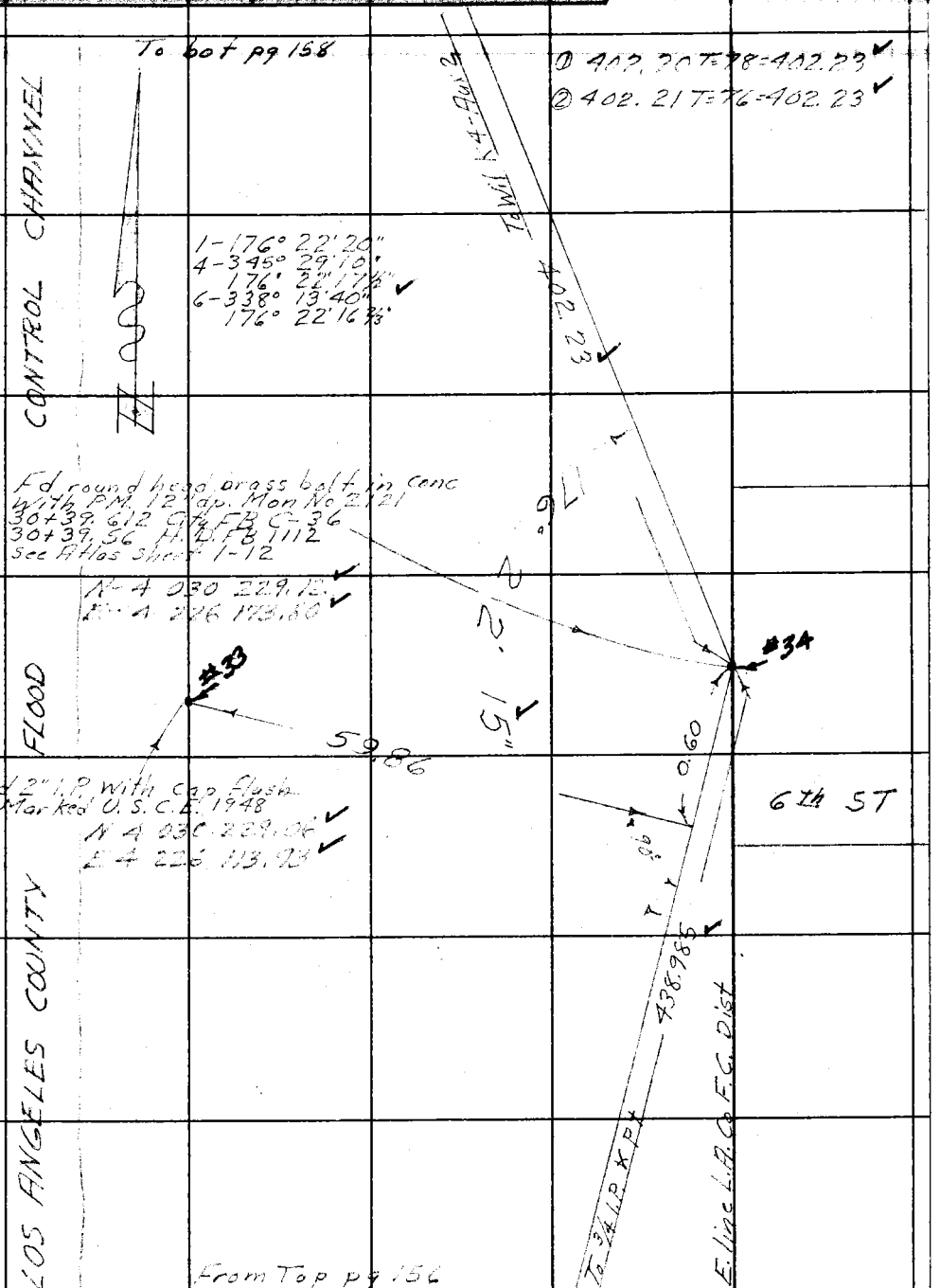
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

Do not extend notes this side of this line.

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

Notes Ck'd by KRM	Survey of LB Subsidence
Map No.	W. O. 4922 Tape No. 0137 St'd. 68 °F
Office Work	Surveyed by M. H. Van Deren
Checked	Notes [illegible] Date [illegible]
Date	Indexed A. C. Johnson

F. B. [illegible] PG. [illegible]



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

76F309S 247 2-51

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

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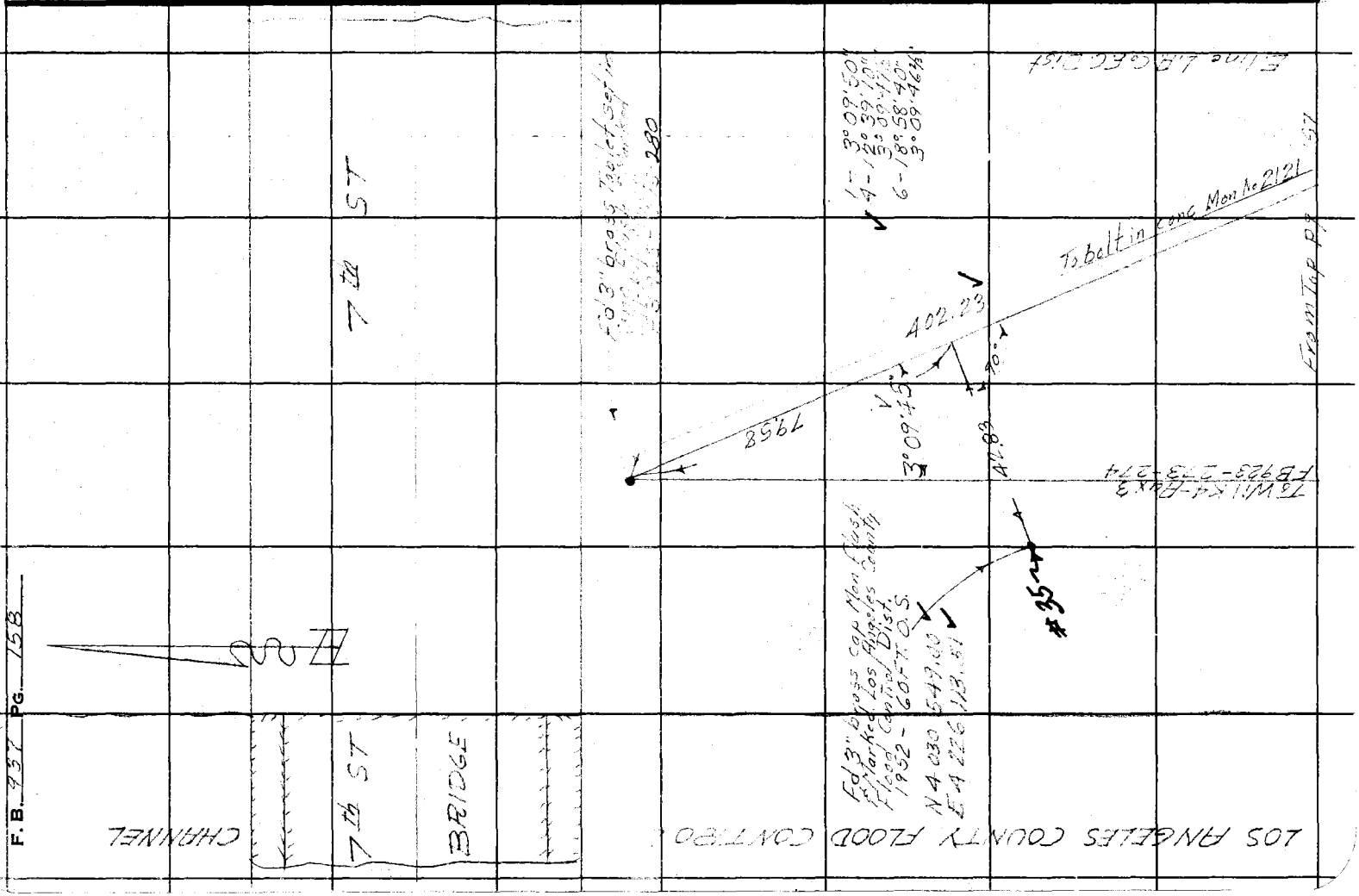
Do not extend notes this side of this line.

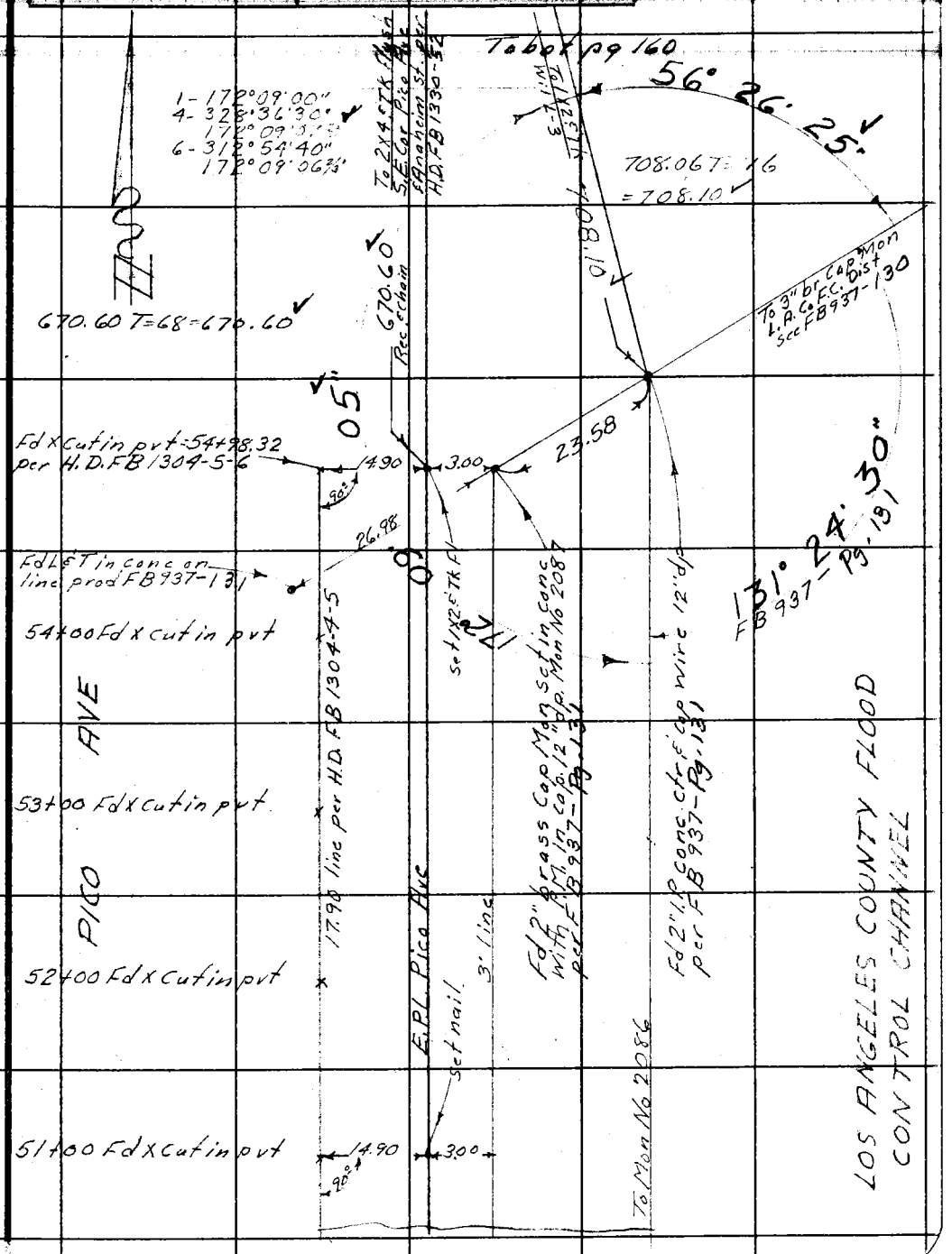


F.B. 457 PG. 158

Notes Ck'd by KRM	Survey of L.B. Subsidence
Map No.	W. O. 4922 Tape No. 0137 St'd. 68 °F
Office Work	Surveyed by M.A. Van Deren
Checked	Notes Van Date 6-23-52
Date	Indexed A. C. Johnson

F. B. 237 PG. 159

1 - 56° 26' 20"
4 - 225° 45' 40"
56° 26' 25"
6 - 338° 38' 30"



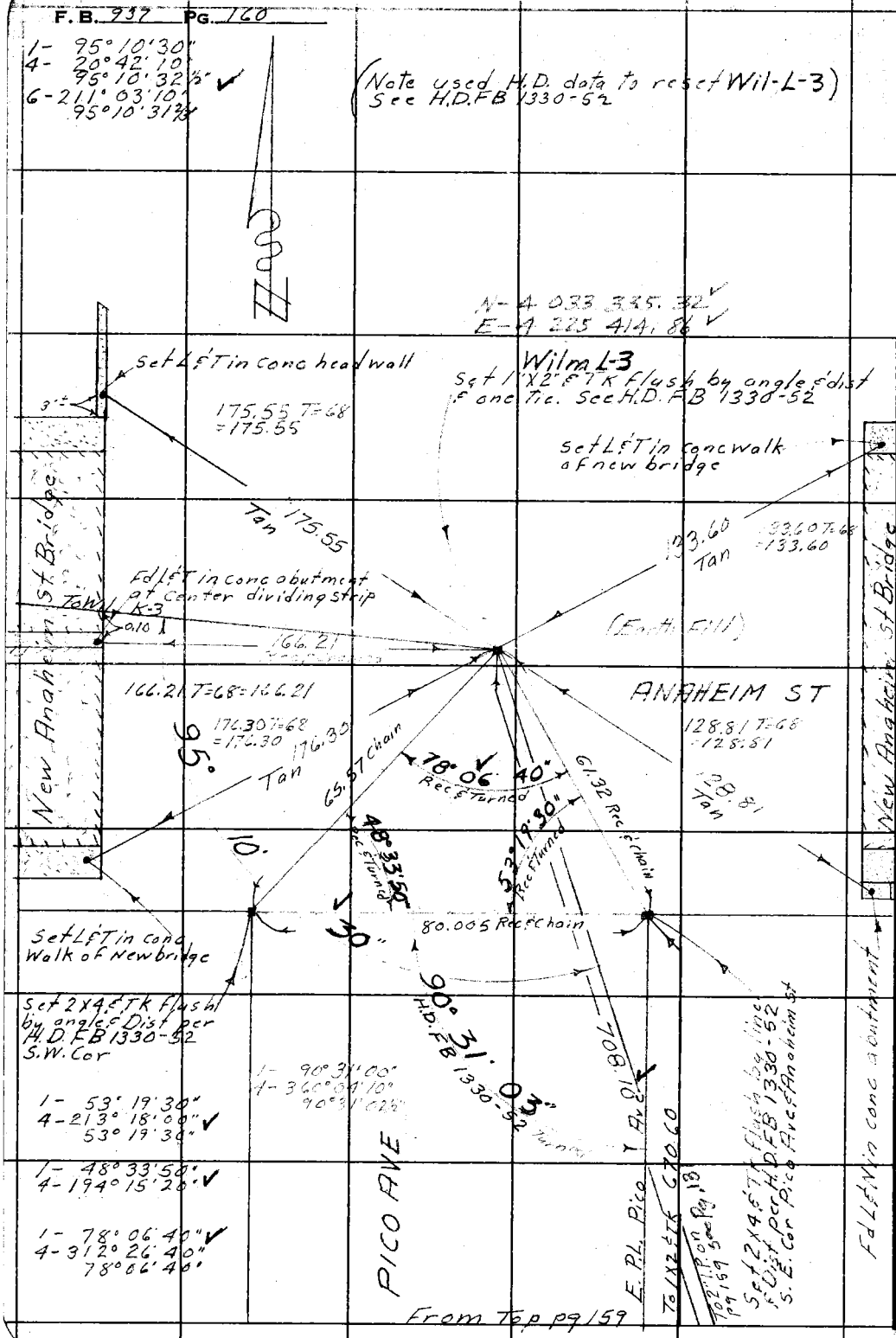
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

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

76F309S 247 2-51

F.B. 937 PG. 160



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

Do not extend notes this side of this line.

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

F.B. [illegible]

NOTES RED. _____ JOB NO. 4922 SURVEY OF L.B. Subsidence

DATE _____ SURVEY BY G.E. Dreier

NOTES CHKD. GEB NOTES BY _____ DATE 7-22-52

DATE _____ INDEXED R. O. Johnson DATE 7-24-52

JH4922

LONG BEACH SUBSIDENCE

Check of 5 L.B.H.D. BM's.
following earthquake of 7-21-52

G.E. DREIER
E. LANDA
S. SHINODA
M. SONNENSCHEIN
T. OHASHI
J. CALDERON

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION

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

Do not extend notes this side of this line

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

765420 353 3-51

769420 353 3-51

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

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

Do not extend notes this side of this line

JOB NO. 4922 SURVEY OF L.B. SUBSIDENCE NOTES RED.
SURVEY BY G.E. DREIER DATE
NOTES BY J. SHINODA DATE 7-22-52 NOTES CHKD. LEB
INDEXED R. C. Johnson DATE

F.B. 937 Pg. 62

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
B.M. 5-44	36.484					B.M. 5-44 (B.M. 2 (L.A. Co. Rd. DEPT.)
+	4.021					ALAMEDA ST. & L.A. CITY BOUNDRY
Π	40.505					E.B. 1206-41 1952 ADJ ELEV. 36.484
−	4.897					
T.P.	35.608					
+	5.883					
Π	41.491					
−	5.145					
T.P.	36.346					
+	4.420					
Π	40.766					
−	4.186					
T.P.	36.580					
+	4.411					
Π	40.991					
−	4.438					
T.P.	36.553					
+	4.286					
Π	40.839					
−	4.388					
T.P.	36.451					
+	4.409					
Π	40.860					
−	4.460					
T.P.	36.400					
+	4.455					
Π	40.855					
−	4.511					
T.P.	36.344					

768420 353 3-51

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

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

Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	36.344					CONT FROM PREVIOUS PAGE
+	4.603					
⊼	40.947 ✓					
−	4.592					
T.P.	36.355 ✓					
+	5.376					
⊼	41.731 ✓					
−	5.440					
BM 5-45	36.291 ✓					{B.M 5-45 (U.S. 3747) (J-615)
	36.309					ALAMEDA ST. AT W. THENARD TOWER
+	5.412					1952 ADJ. ELEV. 36.309 F.B. 1206-43
⊼	~~41.703~~	41.721				
−	5.817					
T.P.	~~35.886~~	35.904				
+	3.862					
⊼	39.748	39.766				
−	5.008					
T.P.	34.740	34.758				
+	3.999					
⊼	38.~~739~~	.757				
−	5.381					
T.P.	33.~~358~~	.376				
+	3.668					
⊼	37.~~026~~	.044				
−	5.025					
T.P.	32.~~001~~	.019				
+	4.442					
⊼	36.~~443~~	.461				
−	5.077					
T.P.	31.~~366~~	.384				

NOTES RED. _____ JOB NO. 4522 SURVEY OF L.B. SUBSIDENCE
DATE _____ SURVEY BY G.E. WREIER
NOTES CHKD. LEB NOTES BY J. SHINODA DATE 7-22-52
DATE _____ INDEXED R. C. Johnson DATE _____

F.B. 937 PG. 163

JOB NO. 4922 SURVEY OF L. B. SUBSIDENCE NOTES RED. _____
SURVEY BY G. E. DREIER DATE _____
NOTES BY J. SHINODA DATE 7-22-52 NOTES CHKD CEB
INDEXED A. C. Johnson DATE _____

B.M. Pg. 1644

768420 353 3-51

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

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

Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	31.~~366~~	.364				CONT. FROM PREVIOUS PAGE
+	4.121					
⊼	35.~~487~~	.505				
−	6.133					
T.P.	29.~~354~~	.372				
+	4.027					
⊼	33.~~391~~	.399				
−	5.582					
T.P.	27.~~799~~	.817				
+	4.860					
⊼	32.~~659~~	.677				
−	6.155					
X T.P.	26.~~504~~	.522				
+	4.018					
⊼	30.~~522~~	.540				
−	5.762					
T.P.	24.~~760~~	.778				
+	4.342					
⊼	29.~~102~~	.120				
−	6.051					
T.P.	23.~~051~~	.069				
+	4.361					
⊼	27.~~412~~	.430				
−	6.032					
T.P.	21.~~380~~	.398				
+	3.243					
⊼	24.~~623~~	.641				
−	5.364					
T.P.	19.~~259~~	.277				{HENRY FORD AVE & DENNI ST, N END C.R., N.W. COR.

769420 353 3-51

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

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Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P	19.~~259~~	19.277				CONT. FROM PREVIOUS PAGE
+	4.155					
⊼	23.~~414~~	.432				
−	5.224					
T.P	18.~~190~~	.208				
+	4.669					
⊼	22.~~859~~	.877				
−	5.698					
T.P	17.~~161~~	.179				
+	5.050					
⊼	22.~~211~~	.229				
−	6.676					
T.P	15.~~535~~	.553				
+	3.350					
⊼	18.~~885~~	.903				
−	7.540					
T.P	11.~~345~~	.363				
+	4.237					
⊼	15.~~582~~	.600				
−	6.875					
T.P	8.~~707~~	.725				
+	4.729					
⊼	13.~~436~~	.454				
−	4.918					
T.P	8.~~518~~	.536				HENRY FORD AVE & ANAHEIM ST S.W. COR. P.K. IN CB 26 FT ± S. OF S.C. C.R.
+	4.729					
⊼	13.~~247~~	.265				
−	6.001					
T.P	7.~~246~~	7.264				

NOTES RED. _____ JOB NO. 4922 SURVEY OF L.B. Subsidence
DATE _____ SURVEY BY G.E. DREIER
NOTES CHKD. CEB NOTES BY S. SHINODA DATE 7-22-52
DATE _____ INDEXED L. C. John DATE _____

F. 8737 PG. 163

F.B. 937 PG. 166

JOB NO. 4922 SURVEY OF L.B. Subsidence NOTES RED. DATE

SURVEY BY G.E. DREIER

NOTES BY S. SHINODA DATE 7-22-52 NOTES CHKD CEB

INDEXED A. C. Johnson DATE DATE

76S420 353 3-51

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

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

Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	7.~~246~~	7.264				CONT. FROM PREVIOUS PAGE
+	5.042					
π	12.~~288~~	.306				
−	5.839					
T.P.	6.~~449~~	.467				
+	4.998					
π	11.~~447~~	.465				
−	5.557					
T.P.	5.~~890~~	.908				
+	7.798					
π	13.~~689~~	.706				
−	5.269					
T.P.	8.~~419~~	.437				
+	3.921					
π	12.~~340~~	.358				
−	8.220					
T.P.	4.~~120~~	.138				
+	5.299					
π	9.~~417~~	.437				
−	6.554					
T.P.	2.~~865~~	.883				
+	3.708					
π	6.~~573~~	.591				
−	4.917					
T.P.	~~1.656~~	1.674				
+	5.618					
π	7.~~274~~	.292				
−	4.642					
T.P.	2.632	2.650				

76S420 353 3-51

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

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

Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P	~~7.604~~	7.622				CONT. FROM PREVIOUS PAGE
+	2.417					
π	10.~~021~~	10.039				
−	6.002					
T.P	~~4.019~~	4.037				
+	5.331					
π	~~9.350~~	9.368				
−	5.385					
T.P	~~3.965~~	3.983				
+	5.120					
π	~~9.085~~	9.103				
−	5.262					
T.P	~~3.823~~	3.841				
+	5.215					
π	~~9.058~~	9.056				
−	5.064					
T.P	~~3.974~~	3.992				
+	5.642					
π	~~9.616~~	9.634				
−	5.160					
T.P	~~4.456~~	4.474				
+	5.679					
π	10.~~135~~	10.153				
−	1.943					
T.P	~~8.192~~	8.210				
+	1.908					
π	10.100	10.118				
−	5.930					
T.P	~~4.170~~	4.188				

NOTES RED. ____ JOB NO. 4922 SURVEY OF L.B. Subsidence
DATE ____ SURVEY BY G.E. DREIER
NOTES CHKD. CEB NOTES BY S. SHINODA DATE 7-22-52
DATE ____ INDEXED L. C. Johnson DATE ____

F.B. 937 PG. 169

765420 353 3-51

PLEASE RETURN TO
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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	~~4.170~~	4.188				CONT. FROM PREVIOUS PAGE
+	4.783					
⊼	~~8.953~~	8.971	2.913			
−	6.058		2.80			
B.M.	~~2.895~~	2.913	5.713 LBHD Datum			B.M. "H.D. 202" AT TERMINAL ISLAND, W. OF HENRY FORD AVE., N OF SEASIDE BLVD., S OF WILMINGTON REFINERY CO. PLANT, AT ANGLE POINT IN LONG BEACH CITY BOUNDARY, 8 FT S AND 27 FT E OF POWER POLE "550 U.P.L.B.", 132.5 FT N OF N CURB OF SEASIDE BLVD. A BRASS DISK SET IN CONC. AND MARKED "24+89.51"
+	8.013					
⊼	~~10.908~~	10.926				
−	4.955					
T.P.	~~5.953~~	5.971				
+	5.077					
⊼	11.~~030~~	.048				
−	5.430					
T.P.	~~5.600~~	5.618				
+	4.340					
⊼	9.~~940~~	9.958				
−	5.532					
T.P.	~~4.408~~	4.426				
+	2.565					
⊼	~~6.973~~	6.991				
−	4.330					
T.P.	~~2.643~~	2.661				
+	4.270					
⊼	~~6.913~~	6.931				
−	5.728					
T.P.	~~1.185~~	1.203				

JOB NO. 4922 SURVEY OF L.B. Subsidence NOTES RED. DATE
SURVEY BY G.E. DREIER NOTES CHKD CEB
NOTES BY S. SHINODA DATE 7-22-52 DATE
INDEXED A. C. Johnson DATE

F.B. 937 PG. 170

76S420 353 3-51

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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	~~2.632~~	2.650				CONT. FROM PREVIOUS PAGE
+	4.966					
⊼	~~7.598~~	.616				
−	5.169					
T.P	~~2.429~~	2.447				
+	5.370					
⊼	~~7.799~~	7.817				
−	6.010					
T.P	~~1.789~~	1.807				
+	5.436					
⊼	~~7.225~~	7.243				
−	5.930					
T.P	~~1.295~~	1.313				
+	4.382					
⊼	~~5.677~~	5.695				
−	6.155					
T.P	~~0.522~~	0.540				
+	4.795					
⊼	~~5.317~~	5.335				
−	5.690					
T.P.	−0.373	~~−0.355~~				
+	8.217					
⊼	~~7.844~~	7.862				
−	5.383					
T.P.	~~2.461~~	2.479				
+	6.142					
⊼	~~8.603~~	8.621				
−	5.083					
T.P.	~~3.520~~	3.538				

NOTES RED. _____ JOB NO. 4722 SURVEY OF L.B.E. Elbsidence
DATE _____ SURVEY BY G.E. Dreier
NOTES CHKD. CEB NOTES BY J. Sunora DATE 7-22-54
DATE - INDEXED R. C. Johnson DATE

F.B. 937 PG. 167

76S420 353 3-51

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

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	~~3.520~~	3.538				CONT. FROM PREVIOUS PAGE
+	6.786					
π	~~10.306~~	.324				
−	4.373					
T.P.	~~5.933~~	5.951				
+	10.055					
π	~~15.988~~	16.006				
−	1.981					
B.M.	~~14.007~~	14.025				U.S.C. & G.S. SURVEY TRAVERSE STA BRIDGE 1949, A BRASS DISK SET IN NORTHERLY CONC. ABUTMENT 17.5 FT SWLY FROM N.E. COR OF ABUTMENT OF BASCULE BRIDGE
+	3.495					
π	~~17.502~~	17.520	5.945 − 2.800			
−	11.575					
B.M.	~~5.927~~	5.945	8.745 Above MLLW LBHD. Datum			B.M. "TIDAL 37" AT LONG BEACH, FORD AVE DRAWBRIDGE. STANDARD U.S.C. & G.S. DISK SET IN TOP OF E. WING OF N. CONC. ABUTMENT (OLD) OF BASCULE BRIDGE AND STAMPED "37-1936"
+	5.593					
π	11.~~520~~	.538				
−	5.237					
T.P.	6.~~283~~	6.301				
+	9.853					
π	~~16.136~~	16.154				
−	4.637					
T.P.	~~11.499~~	11.517				
+	2.682					
π	~~14.181~~	14.199				
−	6.577					
T.P.	~~7.604~~	7.622				

JOB NO. 4922 SURVEY OF L.B. Subsidence NOTES RED.
SURVEY BY G.E. DREIER DATE
NOTES BY S. SHINODA DATE 7-22-52 NOTES CHKD. CEB
INDEXED A. C. Johnson DATE DATE

F.B. 497 PG. 16B

76S420 353 3-51

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

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Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	~~1.185~~	1.203				CONT. FROM PREVIOUS PAGE
+	4.863					
⊼	~~6.048~~	6.066				
−	5.690					
T.P.	~~0.358~~	0.376				
+	4.788					
⊼	~~5.146~~	5.164				
−	6.512					
T.P.	-~~1.366~~	-1.348				
+	4.678					
⊼	3.~~312~~	3.330				
−	6.007					
T.P.	-~~2.695~~	-2.677				
+	4.689					
⊼	~~1.994~~	2.012				
−	5.823					
T.P.	-~~3.829~~	-3.811				
+	4.760					
⊼	0.~~931~~	0.949				
−	5.887					
T.P.	-~~4.956~~	-4.938				
+	5.612					
⊼	~~0.656~~	0.674				
−	6.488					
T.P.	-~~5.852~~	-5.814				
+	5.435					
⊼	-~~0.397~~	-0.379				
−	5.647					
T.P.	-~~6.044~~	-6.026				

NOTES RED. _____ JOB NO. 4922 SURVEY OF L.B. Subsidence
DATE _____ SURVEY BY G.E. DREIER
NOTES CHKD CEB NOTES BY J. SHINODA DATE 7-22-52
DATE _____ INDEXED C. Johnson DATE _____

F.B. 937 PG. 171

765420 353 3-51

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

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P	~~-6.044~~	-6.026				CONT. FROM PREVIOUS PAGE
+	5.263					
π	~~-0.781~~	-0.763				
−	5.088					
T.P	~~-5.869~~	-5.851				
+	5.340					
π	~~-0.529~~	-0.511				
−	5.475					
T.P	~~-6.004~~	-5.986				
+	7.220					
π	~~1.216~~	+1.234				
−	7.501					
T.P	~~-6.285~~	-6.267				
+	4.373					
π	~~-1.912~~	-1.894				
−	5.048					
T.P	~~-6.960~~	-6.942				
+	5.580					
π	~~-1.380~~	-1.362				
−	5.352					
T.P	~~-6.732~~	-6.714				
+	5.668					
π	~~-1.064~~	-1.046				
−	5.170					
T.P	~~-6.234~~	-6.216				
+	5.755					
π	~~-0.479~~	-0.461				
−	6.008					
T.P	~~-6.487~~	-6.469				

F.B. 937 PG. 172

JOB NO. 4922 SURVEY OF L.B. Subdivisions NOTES RED
SURVEY BY G.E. DREIER DATE
NOTES BY S. SHINODA DATE 7-22-52 NOTES CHKD. CEB
INDEXED A. C. Johnson DATE DATE

765420 353 3-51

PLEASE RETURN TO
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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	~~6.497~~	6.469				CONT. FROM PREVIOUS PAGE
+	6.337					
π	~~-0.150~~	0.132				
−	4.202					
T.P.	~~4.352~~	4.334				
+	6.900					
π	~~2.549~~	2.566	1.411			
−	1.155		2.80			
B.M.	~~1.395~~	1.411	4.211 LB HD Datum			BM "H.D 220 R" NEAR S.E. CORNER OF SO CALIF EDISON CO. STEAM PLANT 7± FT W OF THE SOUTHERLY PRODUCTION OF THE E. BUILDING LINE OF THE EDISON CO. TRANSFORMER BLDG. AND 83.7 FT SOUTHEASTERLY OF THE UNION PACIFIC OIL WELL NO E 102. SPIKE IN LEAD ON TOP OF N.E. CORNER OF CONC. FIRE WALL AROUND UNIT E-3. THIS POINT IS 4.704 FT HIGHER THAN B.M. "H.D. 220" WHICH HAS BEEN COVERED WITH FILL.
			4.704			
			−0.493 HD 220 LB. HD. Datum			
+	11.569					
π	12.~~960~~	12.980				
−	0.231					
T.P.	12.~~731~~	.749				
+	6.342					
π	19.~~073~~	.091				
−	6.080					
T.P.	~~12.993~~	13.011				
+	6.182					
π	18.~~175~~	.193				
−	3.669					
T.P.	14.~~506~~	.524				
+	0.481					
π	~~14.982~~	15.005				
−	6.406					
T.P.	~~8.581~~	8.599				

NOTES RED _____ JOB NO. 4912 SURVEY OF L.B. Substation
DATE _____ SURVEY BY G.E. Dunker
NOTES CHKD CEB NOTES BY J. Shinoda DATE 7-22-52
DATE _____ INDEXED H.C. Johnson DATE _____

F.B. 987 Pg. 173

769420 353 3-51

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LOS ANGELES COUNTY SURVEYOR
725 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line

JOB NO. 4922 SURVEY OF L.B. Subsidence NOTES RED. DATE
SURVEY BY S. SHINODA G.E. DREIER NOTES CHKD. CEB
NOTES BY S. SHINODA DATE 7-22-52 DATE
INDEXED L. C. Johnson DATE

F.B. 937 Pg. 174

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	~~8.599~~	8.599				CONT. FROM PREVIOUS PAGE
+	5.152					
⊼	13.~~755~~	.751				
−	4.682					
T.P.	9.~~051~~	.069				
+	4.661					
⊼	13.~~712~~	.730				
−	4.742					
T.P.	8.~~970~~	.988				
+	5.250					
⊼	14.~~220~~	.238				
−	2.539					
T.P.	11.~~681~~	.699			5.106	
+	2.328				2.80	
⊼	14.~~009~~	.027			7.906	
−	5.620				−8.333	
T.P.	8.~~389~~	.407			−0.427	LBHD Datum B.M. 870
+	4.889					
⊼	13.~~279~~	.296				
−	8.190					
BM	~~5.089~~	5.106				(SIDE SHOT - THIS B.M. UNSUITABLE FOR A TURN). B.M. "870 AUX" ON TERMINAL ISLAND IN S. SIDE OF CERRITOS CHANNEL, N. OF SO. CALIF. EDISON CO. STEAM PLANT. HIGH PT. OF CONC. ON S.W. COR. OF S.W. PIER OF SO. CALIF. EDISON CO. HIGH LINE TOWER "S.C. ED. CO. MOT 2", APPROX. 40 FT W OF "WIL J-4" (B.M. 870). THIS B.M. IS 8.333 FT HIGHER THAN B.M. 870 (WIL J-4) WHICH IS UNDER WATER
−	7.516		overnight turn			
T.P.	~~5.762~~	5.780	STOPPED 4:00 7-22-52			
+	7.888		STARTED 8:30 7-23-52			
⊼	13.~~550~~	.668				
−	5.137					
T.P.	~~8.560~~	8.531				

76S420 353 3-51

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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	~~8.515~~	8.531				CONT. FROM PREVIOUS PAGE
+	5.398					
Π	~~13.941~~	13.929				
−	5.496					
T.P.	~~8.415~~	8.433				
+	5.568					
Π	~~13.983~~	14.001				
−	5.455					
T.P.	~~8.528~~	8.546				
+	5.442					
Π	~~13.970~~	13.988				
−	5.235					
T.P.	~~8.755~~	8.753				
+	5.350					
Π	~~14.085~~	14.103				
−	5.377					
T.P.	~~8.708~~	8.726				
+	5.167					
Π	~~13.875~~	13.893				
−	2.622					
T.P.	~~11.253~~	11.271				
+	6.981					
Π	~~18.234~~	18.252				
−	9.350					
T.P.	~~8.884~~	8.902				
+	4.925					
Π	~~13.809~~	13.827				
−	5.507					
T.P.	~~8.302~~	8.320				

NOTES RED. _____ JOB NO. 1922 SURVEY OF L.B. Subdivision
DATE _____ SURVEY BY G.E. Dreier
NOTES CHKD CEB NOTES BY G.E. Dreier DATE 7-23-52
DATE _____ INDEXED C. Johnson DATE _____

F.B. 937 Pg. 175

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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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JOB NO. 4922 SURVEY OF L.B. Subdivision NOTES RED. DATE
SURVEY BY G.E. DREIER
NOTES BY G.E. DREIER DATE 7-23-52 NOTES CHKD. CEB
INDEXED A. O. Johnson DATE

F.B. 937 Pg. 176

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	~~8.302~~	8.320				CONT. FROM PREV. PAGE
+	5.293					
⊼	~~13.595~~	13.613				
−	4.694					
T.P.	~~8.901~~	8.919				
+	5.197					
⊼	~~14.098~~	14.116				
−	5.202					
T.P.	~~8.896~~	8.914				
+	5.370					
⊼	~~14.266~~	14.284				
−	5.355					
T.P.	~~8.911~~	8.929				
+	5.330					
⊼	~~14.241~~	14.259				
−	5.321					
T.P.	~~8.920~~	8.938				
+	5.310					
⊼	~~14.230~~	14.248				
−	5.341					
T.P.	~~8.889~~	8.907				
+	5.150					
⊼	~~14.039~~	14.057				
−	3.913					
T.P.	~~10.126~~	10.144				
+	6.337					
⊼	~~16.463~~	16.481				
−	10.183					
T.P.	~~6.280~~	6.298				ON BRIDGE PIER

765420 353 3-51

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	~~6.280~~	6.298				
+	5.255					
Π	~~11.535~~	11.553				
−	5.618					
B.M.	~~5.917~~	5.935				BM "TIDAL 37" AT LONG BEACH FORD AVE DRAWBRIDGE. STANDARD U.S.C. & G.S. DISK SET IN TOP OF E. WING OF N. CONC ABUTMENT (OLD) OF BASCULE BRIDGE AND STAMPED "37-1936"
+	11.163					
Π	~~17.080~~	17.098				
−	3.080					
B.M.	~~14.000~~	14.018				U.S.C. & G.S. SURVEY TRAVERSE STA "BRIDGE 1929". A BRASS DISK SET IN NORTHERLY CONC ABUTMENT 17.5 FT SOUTHWESTERLY FROM N.E. COR OF ABUTMENT OF BASCULE BRIDGE
+	3.630					
Π	~~17.630~~	17.648				
−	10.940					
T.P.	~~6.690~~	6.708				
+	7.648					
Π	~~14.338~~	14.356				
−	10.790					
T.P.	~~3.548~~	3.566				
+	7.998					
Π	~~11.546~~	11.564				
−	9.140					
T.P.	~~2.406~~	2.424				

NOTES RED. _____ JOB NO. 1922 SURVEY OF L.B. Subdivision
DATE _____ SURVEY BY G.E. Dreier
NOTES CHKD. CEB NOTES BY G.E. Dreier DATE 7-23-52
DATE _____ INDEXED R. C. Johnson DATE _____

F.B. 337 Pg. 177

765420 353 3-51

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JOB NO. 4922 SURVEY OF L.B. Subdivision NOTES RED. DATE
SURVEY BY G.E. DREIER NOTES CHKD. LEB
NOTES BY G.E. DREIER DATE 7-23-52 DATE
INDEXED L. C. Johnson DATE

F.B. 927 PG. 178

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	~~2,406~~	2,424				CONTINUED FROM PREVIOUS PAGE
+	4,749					
⊼	~~7,155~~	7,173				
-	5,292					
T.P.	~~1,863~~	1,881				
+	6,237					
⊼	~~8,100~~	8,118				
-	5,716					
T.P.	~~2,384~~	2,402				
+	5,600					
⊼	~~7,984~~	8,002				
-	5,080					
T.P.	~~2,904~~	2,922				
+	5,500					
⊼	~~8,404~~	8,422				
-	5,242					
T.P.	~~3,162~~	3,180				
+	5,330					
⊼	~~8,492~~	8,510				
-	5,216					
T.P.	~~3,276~~	3,294				
+	5,388					
⊼	~~8,664~~	8,682				
-	5,233					
T.P.	~~3,431~~	3,449				
+	5,695					
⊼	~~9,126~~	9,144				
-	5,461					
T.P.	~~3,665~~	3,683				

76S420 353 3-51

PLEASE RETURN TO
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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	~~3.665~~	3.683				CONT. FROM PREVIOUS PAGE
+	5.656					
⊼	~~9.324~~	9.339				
−	5.393					
T.P.	~~3.928~~	3.946				
+	6.140					
⊼	~~10.068~~	10.086				
−	3.040					
T.P.	~~7.028~~	7.046				
+	6.188					
⊼	~~13.216~~	13.234				
−	9.037					
T.P.	~~4.179~~	4.197				
+	4.570					
⊼	~~8.749~~	8.767				
−	3.522					
T.P.	~~5.227~~	5.245				
+	10.498					
⊼	~~15.725~~	15.743				
−	5.530					
T.P.	~~10.195~~	10.213				
+	1.938					
⊼	~~12.133~~	12.151				
−	6.839					
T.P.	~~5.294~~	5.312				
+	5.540					
⊼	~~10.834~~	10.852				
−	4.961					
T.P.	~~5.873~~	5.891				

NOTES RED. _____ JOB NO. 1722 SURVEY OF L.B. Subsidence
DATE _____ SURVEY BY G.E. Dreier
NOTES CHKD. LEB NOTES BY G.E. Dreier DATE 7-23-52
DATE _____ INDEXED E. C. Johnson DATE _____

F. B. 937 PG. 179

F.B. 937 PG. 160

JOB NO. 4922 SURVEY OF L.B. Subsidence NOTES RED: DATE

SURVEY BY G.E. DREIER NOTES CHKD CEB

NOTES BY G.E. DREIER DATE 7-23-52 DATE

INDEXED E. C. Johnson DATE

76S420 353 3-51

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

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

Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	~~5.873~~	5.891				CONT FROM PREVIOUS PAGE
+	5.409					
⊼	~~11.282~~	11.300				
−	5.390					
T.P.	~~5.892~~	5.910				
+	4.420					
⊼	~~10.312~~	10.330				
−	4.558					
T.P.	~~5.754~~	5.772				
+	7.418					
⊼	~~13.172~~	13.190				
−	4.615					
T.P.	~~8.557~~	8.575				
+	5089					
⊼	~~13.646~~	13.664				
−	5.590					
T.P.	~~8.056~~	8.074				
+	5.283					
⊼	~~13.339~~	13.357				
−	5.829					
T.P.	~~7.510~~	7.528				
+	3.858					
⊼	~~11.368~~	11.386				
−	5.514					
T.P.	~~5.854~~	5.872				
+	5.547					
⊼	~~11.401~~	11.419				
−	4901					
T.P.	~~6.500~~	6.518				

766420 353 3-51

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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	~~6.500~~	4.518				CONT. FROM PREVIOUS PAGE
+	5.401					
Π	~~11.901~~	11.919				
−	5.629					
T.P.	~~6.272~~	6.290				
+	5.047					
Π	~~11.319~~	11.337				
−	5.236					
T.P.	~~6.083~~	6.101				
+	5.398					
Π	~~11.481~~	11.499				
−	4.725					
T.P.	~~6.756~~	6.774				
+	4.812					
Π	~~11.585~~	11.586				
−	5.412					
T.P.	~~6.156~~	6.174				
+	5.114					
Π	~~11.270~~	11.288				
−	5.520					
T.P.	~~5.750~~	5.768				
+	5.556					
Π	~~11.306~~	11.324	5.457			
−	5.867		2.80			
B.M.	~~5.439~~	5.457	8.257 LBHD Datum			B.M. CITY OF LONG BEACH #522 IN LONG BEACH, SOUTH OF ANAHEIM AND N OF R.R. TRACKS IN VICINITY OF PERRY AVE. CITY OF LONG BEACH STAMPED DISK SET IN N.E. COR. OF N.W. DI[illegible] OF WEST TOWER OF SO. CALIF EDISON CO. HIGH LINE STAMPED "BENCH MARK NO [illegible]

NOTES RED _____ JOB NO. 22 SURVEY OF L.B. Subsidence
DATE _____ SURVEY BY G.E. DREIER
NOTES CHKD CLB NOTES BY G.E. DREIER DATE 7-23-52
DATE _____ INDEXED A. O. Johnson DATE _____

F.B. 987 Pg. 161

76S420 353 3-51

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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
B.M. 522	~~5.439~~	5.457				B.M. CTY OF LONG BEACH # 522
+	6.041					CONT. FROM PREVIOUS PAGE
⊼	~~11.480~~	11.498				
−	4.930					
T.P.	~~6.550~~	6.568				
+	5.015					
⊼	~~11.565~~	11.583				
−	3.380					
T.P.	~~8.185~~	8.203				
+	5.517					
⊼	~~13.702~~	13.720				
−	5.070					
T.P.	~~8.632~~	8.650				
+	5.853					
⊼	~~14.485~~	14.503				
−	4.870					
T.P.	~~9.615~~	9.633				
+	6.002					
⊼	~~15.617~~	15.635				
−	4.819					
T.P.	~~10.798~~	10.816				
+	5.770					
⊼	~~16.568~~	16.586				
−	5.001					
T.P.	~~11.567~~	11.585				
+	5.757					
⊼	~~17.324~~	17.342				
−	5.053					
T.P.	12.271	12.289				

JOB NO. 4922 SURVEY OF L.B. Subsidence NOTES RED. DATE
SURVEY BY G.E. DREIER
NOTES BY G.E. DREIER DATE 7-23-52 NOTES CHKD CEB
INDEXED A. C. Johnson DATE DATE

F.B. 937 PG. 152

76S420 353 3-51

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LOS ANGELES COUNTY SURVEYOR
725 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P	1~~2.271~~	12,289				
+	5.567					
⊼	17.~~838~~	.856				
−	5.504					
T.P.	12.~~334~~	.352				
+	4.988					
⊼	17.~~322~~	.340				
−	5.671					
T.P	11.~~651~~	.669				
+	6.103					
⊼	17.~~754~~	.772				
−	4.970					
T.P.	12.~~784~~	.802				
+	4.918					
⊼	17.~~702~~	.720				
−	5.081					
T.P.	12.~~621~~	.639				
+	6.449					
⊼	19.~~070~~	.088				
−	3.982					
T.P.	15.~~088~~	.106				
+	6.570					
⊼	21.~~658~~	.676				
−	4.350					
T.P.	17.~~308~~	.326				
+	6.484					
⊼	23.~~792~~	.810				
−	4.209					
T.P	19.583	19.601				

NOTES RED. _____ JOB NO. 1072 SURVEY OF L.B. Subsidence
DATE _____ SURVEY BY C.E. DREIER
NOTES CHKD. CEB NOTES BY C.E. DREIER DATE 7-23-52
DATE _____ INDEXED E. C. Johnson DATE _____

P.B. 737 PG. 183

F.B. 537 PG. 154

JOB NO. 4922 SURVEY OF L.B. Subsidence NOTES RED. ____ DATE ____

SURVEY BY G.E. DREIER NOTES CHKD EEB

NOTES BY G.E. DREIER DATE 7-23-52

INDEXED H. C. Johnson DATE ____

769420 353 3-51

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

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

Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	~~19.585~~	19,601				CONT. FROM PREVIOUS PAGE
+	6.406					
Π	25.989	26,007				
−	4.658					
T.P.	21.~~331~~	.349				
+	5.972					
Π	27.~~303~~	.321				
−	5.088					
T.P.	~~22.215~~	22,233				
+	5.925					
Π	28.~~140~~	.158				
−	4.750					
T.P.	23.~~390~~	.408				
+	5.781					
Π	29.~~171~~	.189				
−	4.490					
T.P.	24.~~681~~	.699				
+	6.623					
Π	31.~~304~~	.322				
−	4.903					
× T.P.	~~26.401~~	26,419				×
+	6.037					
Π	32.~~438~~	.456				
−	4.739					
T.P.	27.~~699~~	.717				
+	6.355					
Π	34.~~054~~	.072				
−	4.800					
T.P.	29.254	29,272				

765420 353 3-51

PLEASE RETURN TO
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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	2~~9.254~~	29.272				CONTI FROM PREVIOUS PAGE
+	6.100					
⊼	35.~~354~~	.372				
−	4.086					
T.P.	31.~~268~~	.286				
+	5.252					
⊼	36.~~520~~	.538				
−	4.613					
T.P	31.~~907~~	.925				
+	6.142					
⊼	38.~~049~~	.067				
−	4.787					
T.P	33.~~262~~	.280				
+	6.094					
⊼	39.~~356~~	.374				
−	4.713					
T.P	34.~~643~~	.661				
+	5.782					
⊼	40.~~425~~	.443				
−	4.630					
T.P	35.~~795~~	.813				
+	5.723					
⊼	41.~~518~~	.536				
−	5.321					
B.M. 5-45	36 ~~197~~	36.215				B.M. 5-45 (U.S 3747 J-615)
						ALAMEDA ST & THENARD TOWER
						1952 ELEV. 36.309 F.B. 1206 45

NOTES RED _____ JOB NO. 2 SURVEY OF L.B. Subsidence
DATE _____ SURVEY BY G.E. DREIER
NOTES CHKD CEB NOTES BY G.E. DREIER DATE 7-23-52
DATE _____ INDEXED A. C. Johnson DATE _____

F.B. 937 Pg. 156

76S420 353 3-51

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LOS ANGELES COUNTY SURVEYOR
725 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line

JOB NO. 4922 SURVEY OF L.B. Subsidence NOTES RED.
SURVEY BY G.E. DREIER DATE
NOTES BY G.E. DREIER DATE 7-23-52 NOTES CHKD CEB
INDEXED C. Johnson DATE

F. 537 PG. 156

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
B.M. 5.45	36.~~192~~	36.215				CONTINUED FROM PREVIOUS PAGE
+	5.262					
Π	41.~~454~~	.477				
−	5.198					
T.P.	36.~~261~~	.279				
+	4.466					
Π	40.~~727~~	.745				
−	4.476					
T.P.	36.~~251~~	.269				
+	4.482					
Π	40.~~733~~	.751				
−	4.428					
T.P.	36.~~305~~	.323				
+	4.413					
Π	40.~~718~~	.736				
−	4.367					
T.P.	36.~~351~~	.369				
+	4.380					
Π	40.~~731~~	.749				
−	4.279					
T.P.	36.~~452~~	.470				
+	4.365					
Π	40.~~817~~	.835				
−	4.340					
T.P.	36.~~477~~	.495				
+	3.951					
Π	40.~~428~~	.446				
−	4.187					
T.P.	36.~~241~~	36.259				

769420 353 3-51

PLEASE RETURN TO
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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	36.~~241~~	36,259				CONT. FROM PREVIOUS PAGE
+	4.136					
⊼	40.~~377~~	.395				
-	2.871					
T.P.	37.~~506~~	.524				
+	4.864					
⊼	42.~~370~~	.388				
-	5.996					
B.M.5-44	36.~~374~~	36,392				B.M. 5-44 (B.M. 1 L.A.CO. RD DEPT.) ALAMEDA ST AT L.A.CITY BOUNDARY 1952 ADJ ELEV. 36.484 F.B. 1206 41

NOTES RED. _____ JOB NO. 4952 SURVEY OF L.B. Subsidence
DATE _____ SURVEY BY G.E. DREIER
NOTES CHKD. CEB NOTES BY C.E. DREIER DATE 7-23-52
DATE _____ INDEXED C. Johnson DATE _____

F.B. 737 PG. 187

F. B. 937 PG. 188

JOB NO. 4922 SURVEY OF L.B. Subsidence NOTES RED.

SURVEY BY DATE

NOTES BY DATE NOTES CHKD. CEB

INDEXED DATE DATE

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION

Do not extend notes this side of this line

765420 353 3-51

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LOS ANGELES COUNTY SURVEYOR

725 LOS ANGELES COUNTY ENGINEERING BLDG.

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 [illegible]
Map No.
Office Work
Checked
Date

Survey of L.B. Subsidence
W. O. 4922 Tape No. 0137 St'd. 68 °F
Surveyed by M.A. Van Deren
Notes [illegible] Date 11-24-52
Indexed [illegible]

F.B. 937 Pg. 1[illegible]

JN4922

LONG BEACH SUBSIDENCE

TRAVERSE LINE Nº 1

Tape #0137-22½-at 68° Temp taken on tape

SECOND RUN ON THIS LINE

11-24-52
M.A. Van Deren
B. Blankenship
W. Richards
K. Myers

FIRST RUN SEE FB937-125-142

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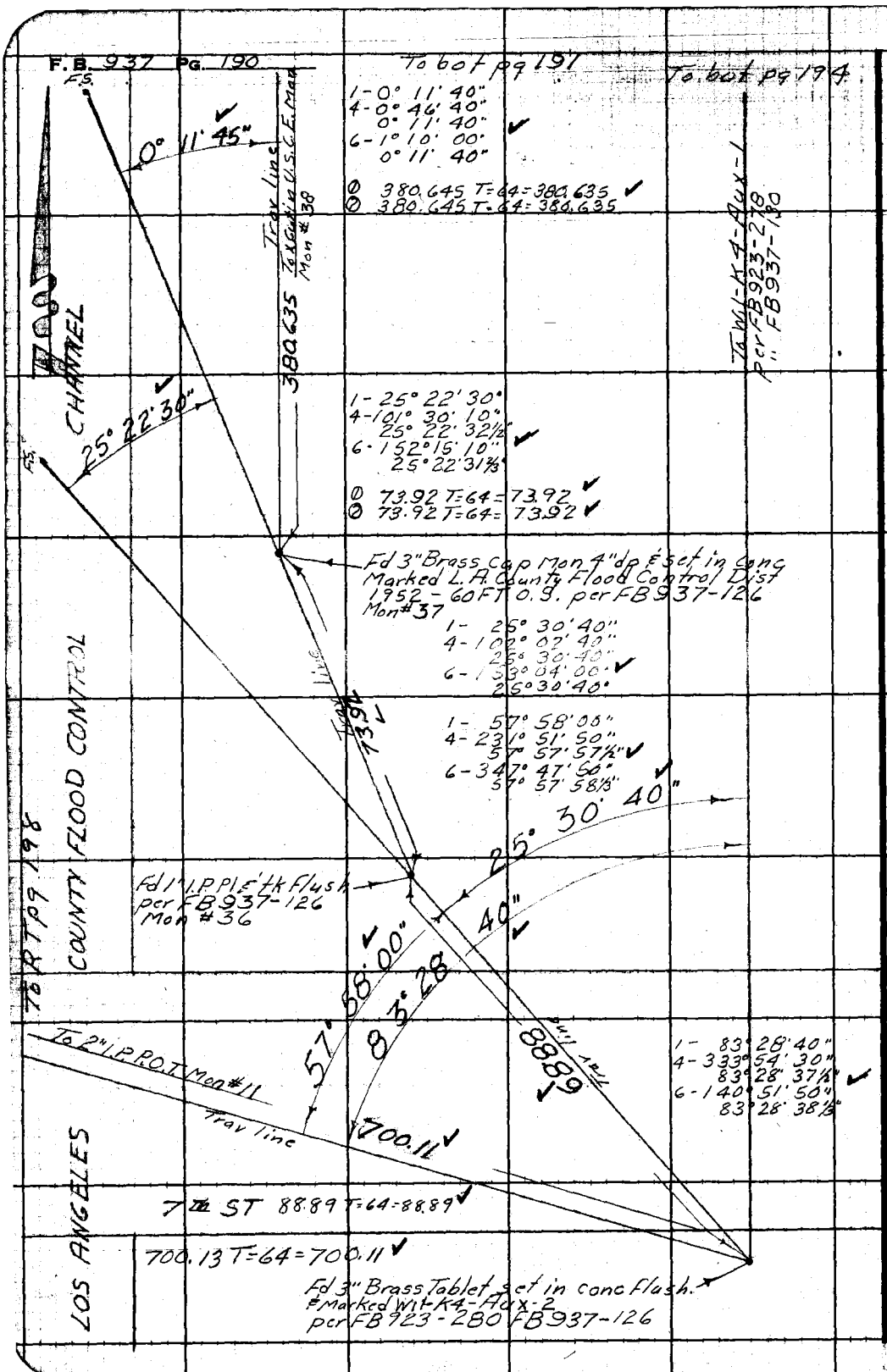
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3095 247 2-51



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

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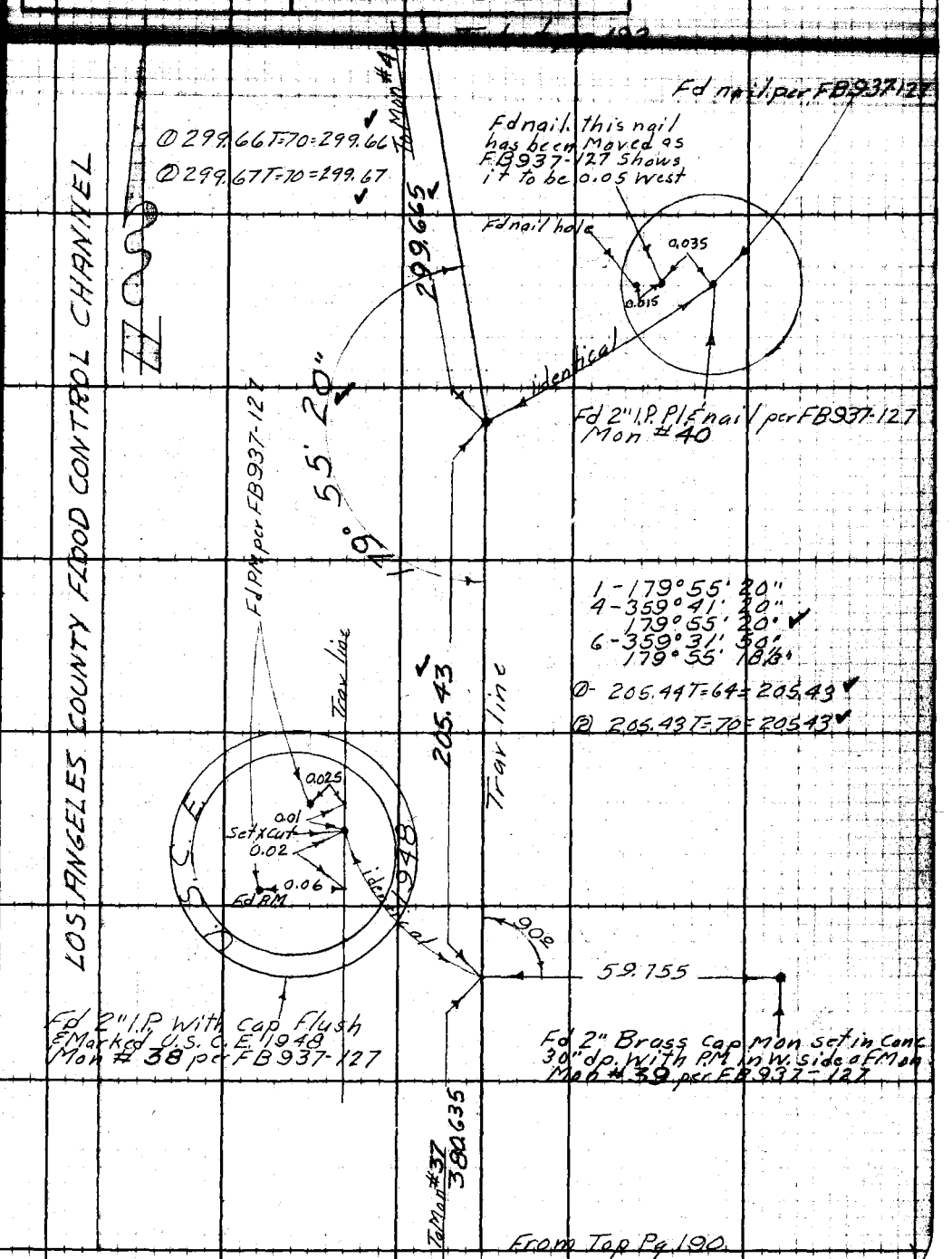
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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

Survey of L.B. Subsidence
W.O. 4922 Tape No. 2137 St'd. 68 °F
Surveyed by M.A. Van Deren
Notes Date 11-24-68
Indexed

F.B. 937 Pg. 191



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

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

78F3095 247 2-51

F.B. 937 PG. 192

To bot pg 193

① 56.13 T=74=56.13 ✓
② 56.13 T=74=56.13 ✓

Fd 1" I.P. P.L.S. Tk Flush per FB 937-128 Mon # 44

① 82.96 T=74=82.96 ✓
② 82.96 T=74=82.96 ✓

1-179° 57' 20"
4-359° 49' 10"
179° 57' 17½" ✓
6-359° 43' 40"
179° 57' 16⅜"

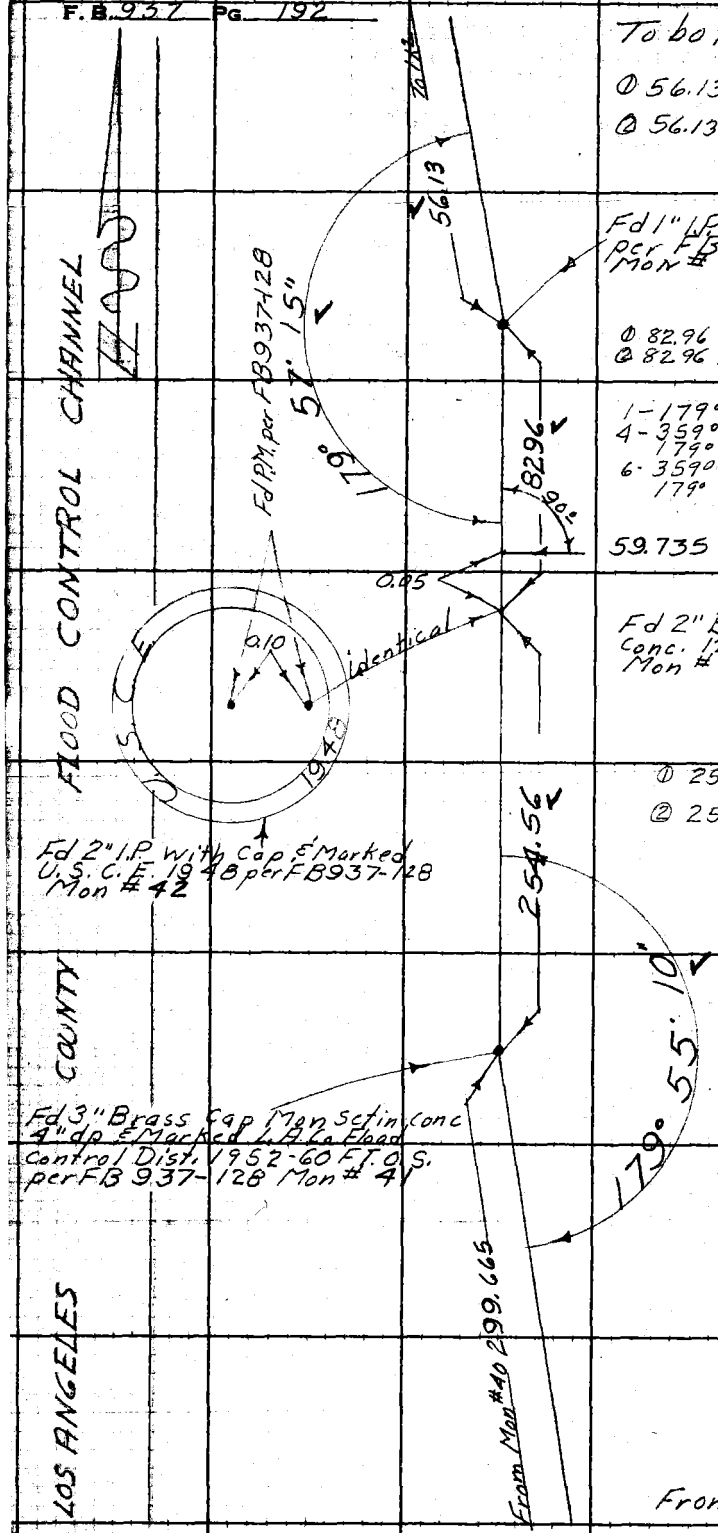
59.735

Fd 2" Brass cap Mon set in Conc. 12" dp per FB 937-128 Mon # 43

① 254.55 T=74=254.56 ✓
② 254.55 T=72=254.56 ✓

1-179° 55' 10"
4-359° 40' 40" ✓
179° 55' 10"
6-359° 31' 10"
179° 55' 11⅜"

From Top pg 191



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

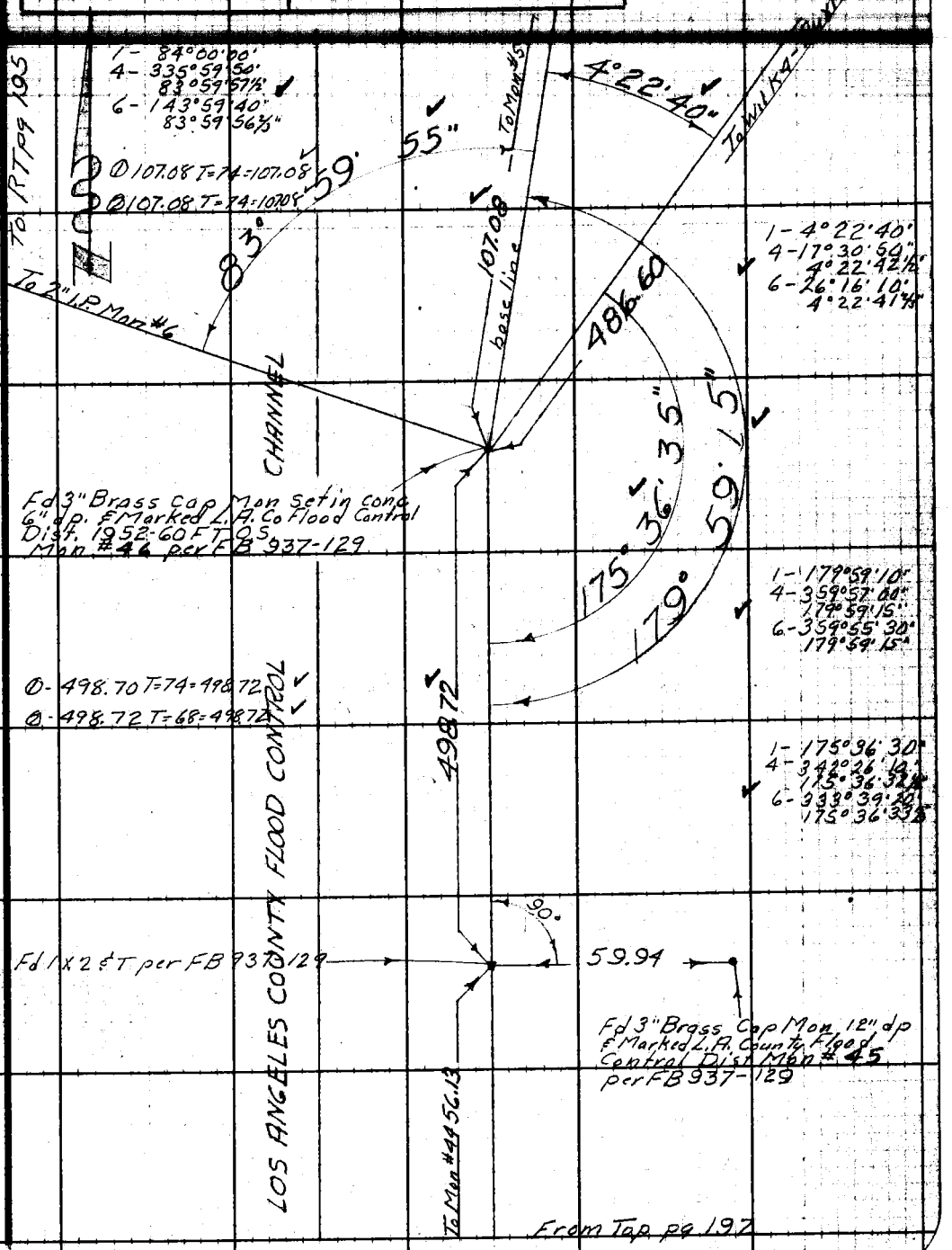
Do not extend notes this side of this line.

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

Notes Ck'd by KRM	Survey of L. B. Subsidence
Map No.	W.O. 1922 Tape No. 0137 St'd 68 °F
Office Work	Surveyed by M. A. Van Deren
Checked	Notes Van Date 11-25-52
Date	Indexed A. C. Johnson

F.B. 937 Pg. 193

To bot pg 194



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

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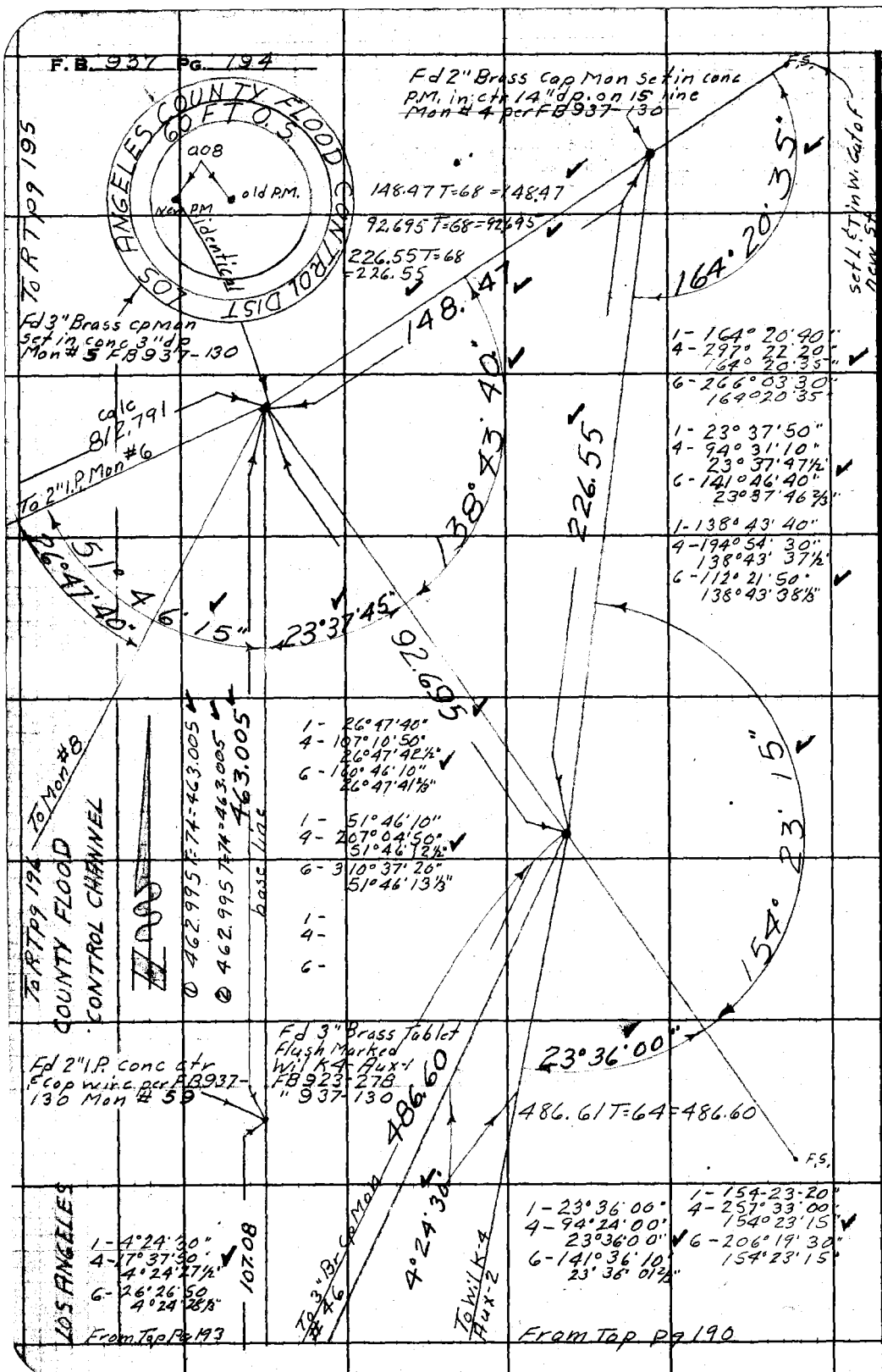
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3096 247 2-51



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

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

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

Survey of L B Subdivision
W. O. 1922 Tape No. 0137 St'd. 68 °F
Surveyed by M.R. Van Deren
Notes Van Date 11-26-57
Indexed E. G. Johnson

F.B. 937 Pg. 195

Set LS Tin conc

Tabot pg 206

① 707.96 T-68 = 707.96

② 707.94 T-68 = 707.94
= 707.95

707.95 T-68

812.791 calc

To Map

Fd 2" I.P. conc. ctr
& cap wire 14" d.p.
Mon #6 FB 937-131
This Mon to be covered
with conc slab.
11 II 57

50.84

Set LS T
FB 937-131

23.58

26.98

Fd 2" Br cp Mon
2087 FB 937-131
This Mon has been
Reset by City L.B.E.
Now is in conc. base
of conc. wall

2°00'10"

334.975

Trav line

907.793 calc

base line

1- 176°49'30"
4- 347°18'10"
176°49'32½"
6- 340°57'10"
176°49'31⅔"

① 334.965 T-68
Av = 334.975
② = 334.985 T-68

Fd 2" Brass cap Mon
18" d.p. with P.M.
Mon #7 per FB 937-131

① 573.22 T-48 = 573.15

① 573.22 T-48 = 573.15

573.15

To Mon #8

To Mon #8

To Tap P. 196

1- 172°09'30"
4- 328°38'10"
172°09'32½"
6- 312°57'10"
172°09'31⅔"

1- 56°26'20"
4- 225°45'10"
56°26'17½"
6- 338°37'40"
56°26'16⅔"

1- 129°23'50"
4- 157°35'30"
129°23'52½"
6- 56°23'20"
129°23'53⅓"

1- 131°24'10"
4- 165°36'20"
131°24'05"
6- 68°24'40"
131°24'06⅔"

1- 44°13'50"
4- 176°55'20"
44°13'50"
6- 265°23'10"
44°13'51⅔"

1- 2°00'10"
4- 8°00'40"
2°00'10"
6- 12°01'00"
2°00'10"

PICO AVE

LOS ANGELES COUNTY FLOOD CONTROL CHANNEL

To Map

To Tap

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

Do not extend notes this side of this line.

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

76P3095 247 2-51

F.B. 937 PG. 196

From bot pg 195

To Mon #7

To Mon #6

To Mon #5

From LT pg 194

1° 10' 15"

23° 48' 20"

24° 58' 35"

573.16

907.793 calc

9th ST

179° 59' 45"

59.045

Fd LET in west side of conc mon 1½" dia Mon # 8 per FB 937-132

1- 24° 58' 30"
4- 99° 54' 10"
24° 58' 32½"
6- 149° 51' 20"
24° 58' 33⅓"

1- 23° 48' 20"
4- 95° 13' 10"
23° 48' 17½"
6- 142° 49' 50"
23° 48' 18⅓"

1- 1° 10' 10"
4- 4° 40' 50"
1° 10' 12½"
6- 7° 01' 20"
1° 10' 13⅓"

1- 179° 59' 45"
4- 359° 59' 00"
179° 59' 45"
6- 359° 58' 20"
179° 59' 43½"

Fd LET on line prod per FB 937-132

PICO AVE

519.085

To Mon #9

① 519.14 T=52=519.09

② 519.135 T=52-519.085

LOS ANGELES COUNTY FLOOD CONTROL CHANNEL

To Top pg 197

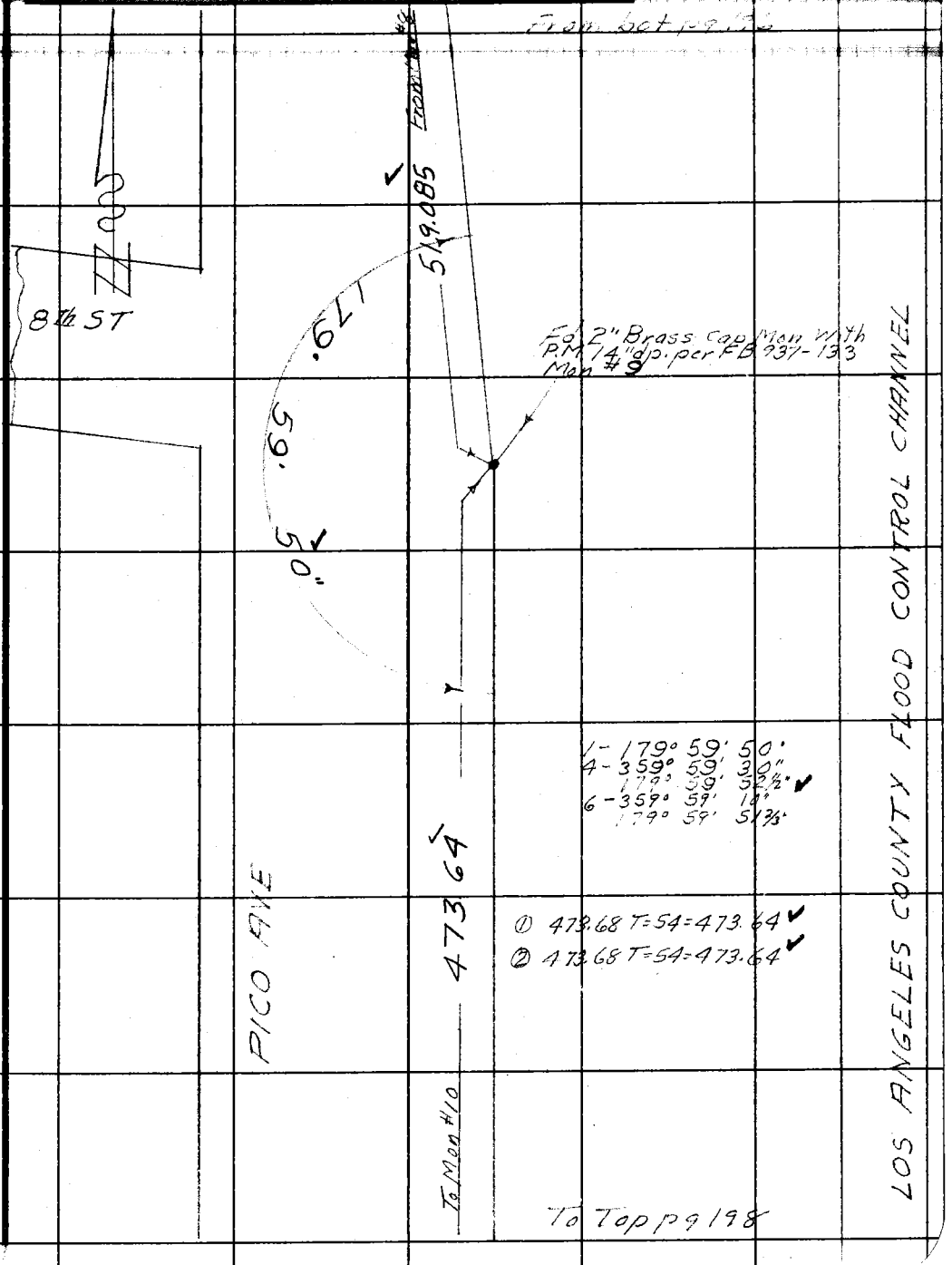
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

Do not extend notes this side of this line.

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

Notes Ck'd by RRM	Survey of L.B. Subsidence
Map No.	W. O. 4922 Tape No. 0137 St'd. 68 °F
Office Work	Surveyed by M.A. Van De[illegible]
Checked	Notes Van Date 12-1-52
Date	Indexed A. C. Johnson

F.B. 937 PG. 197



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

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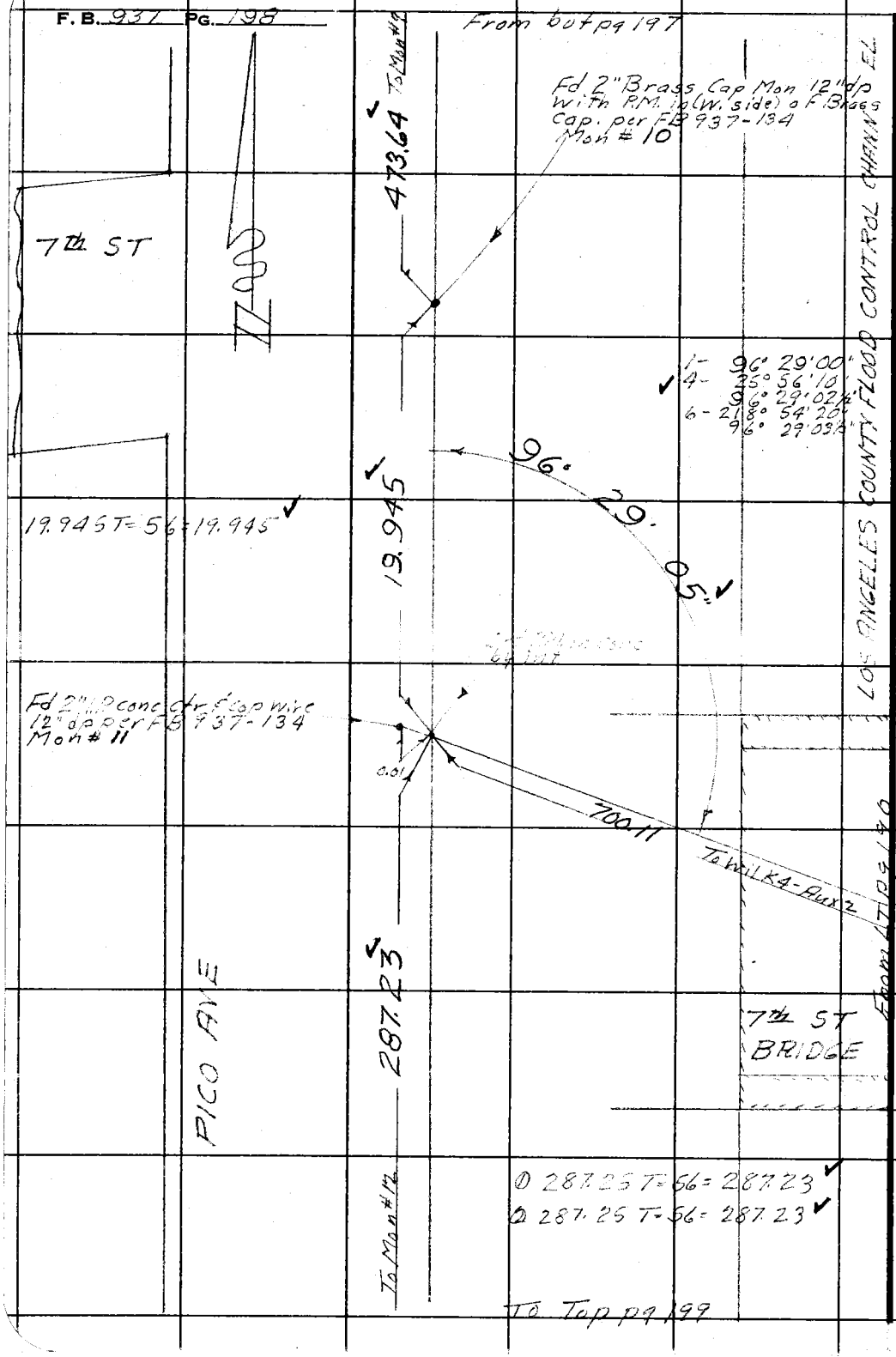
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F309S 247 2-51

F. B. 937 PG. 198



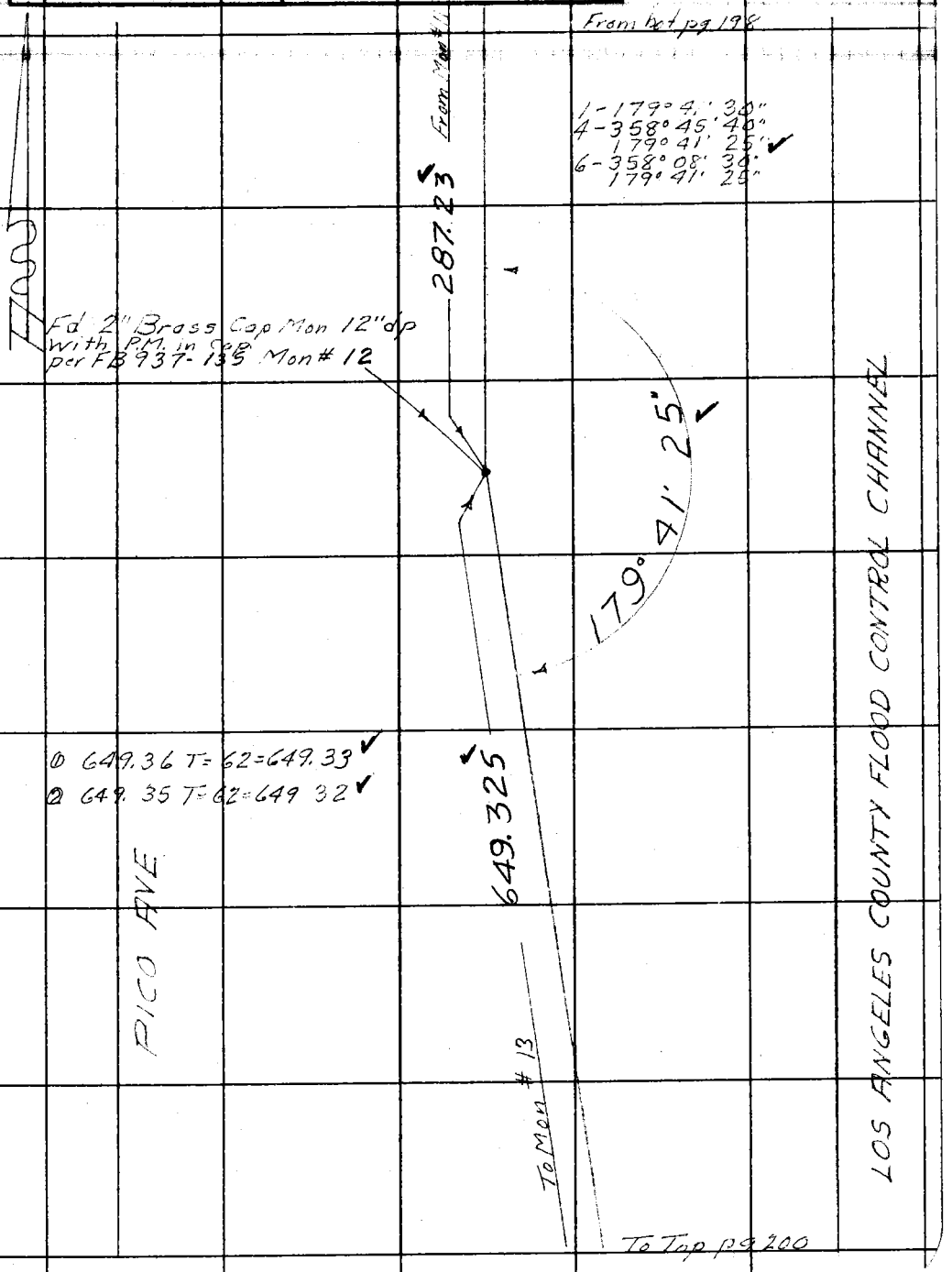
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

Do not extend notes this side of this line.

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

Notes Ck'd by KRM	Survey of L.B. Subsidence
Map No.	W. O. 4922 Tape No. 0137 St'd. 68 °F
Office Work	Surveyed by [illegible]
Checked	Notes Van Date 12-2-52
Date	Indexed A. C. Johnson

F. B. PG.



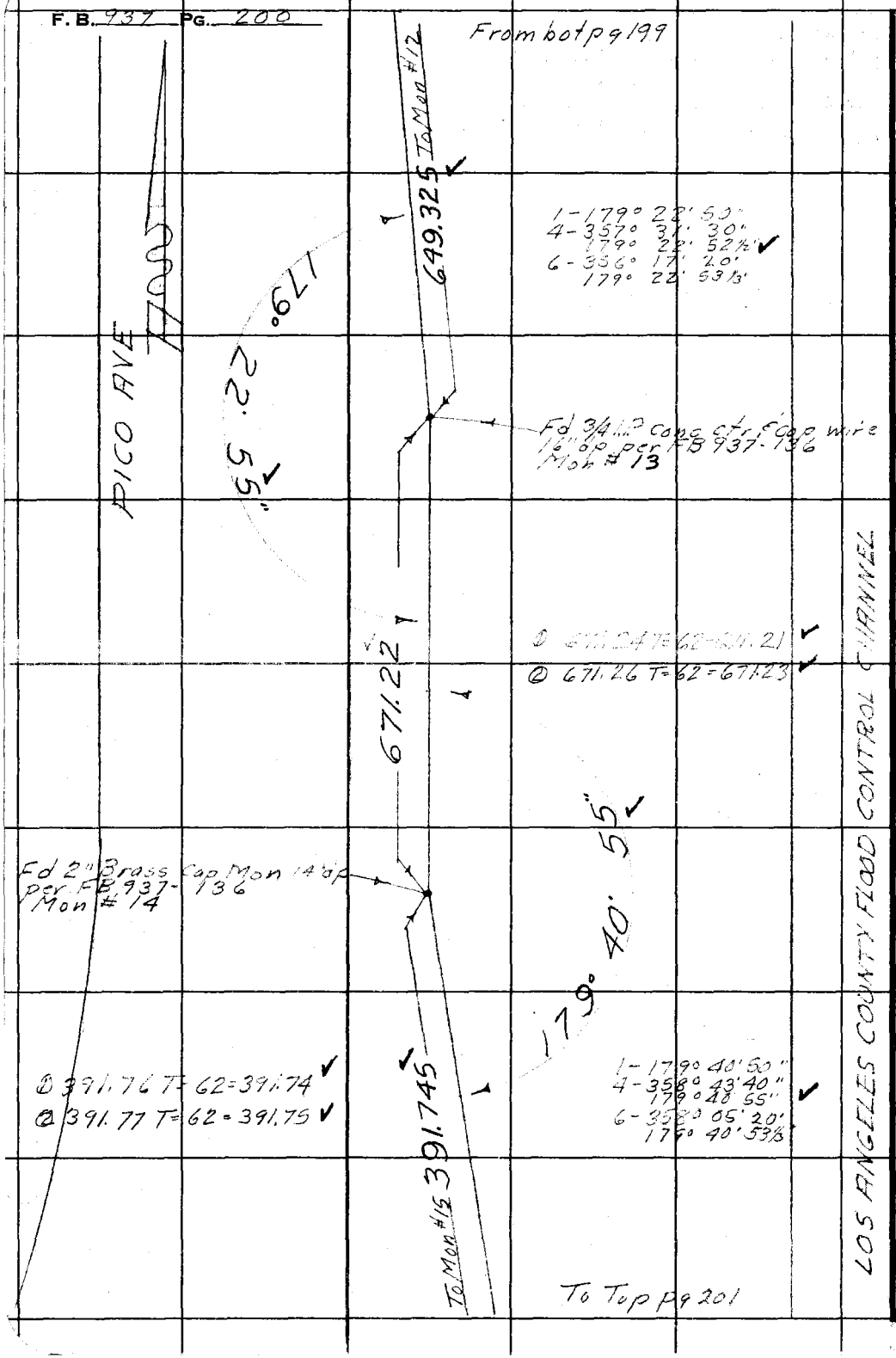
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

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

76F309S 247 2-51

F. B. 937 PG. 200



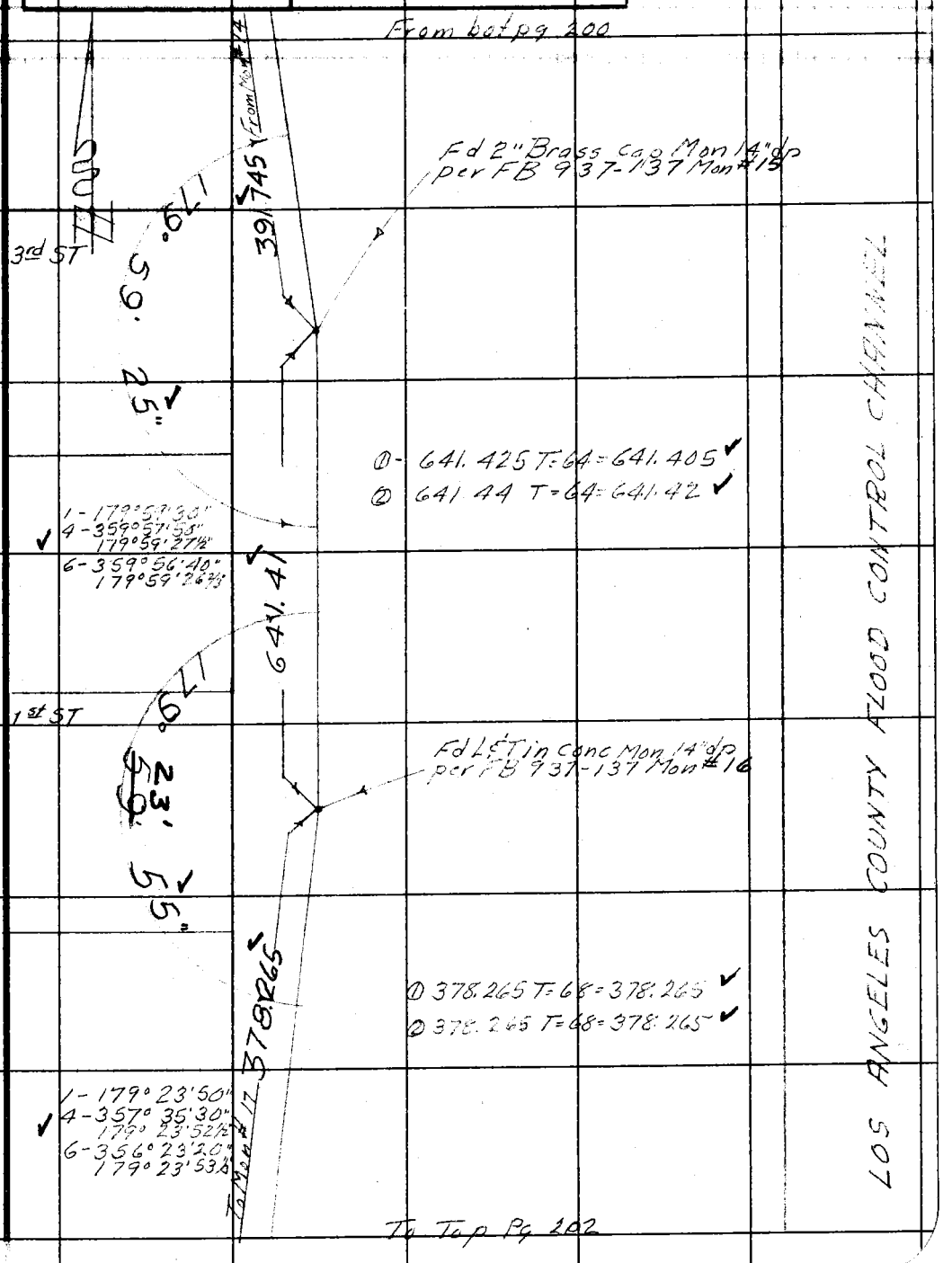
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

Do not extend notes this side of this line.

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

Notes Ck'd by KRM	Survey of L.B. Subsidence
Map No.	W. O. 4922 Tape No. 0137 St'd. 68 °F
Office Work	Surveyed by M.A. Van Dorn
Checked	Notes Van Date 12-2-52
Date	Indexed

F. B. 737 PG. 201



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

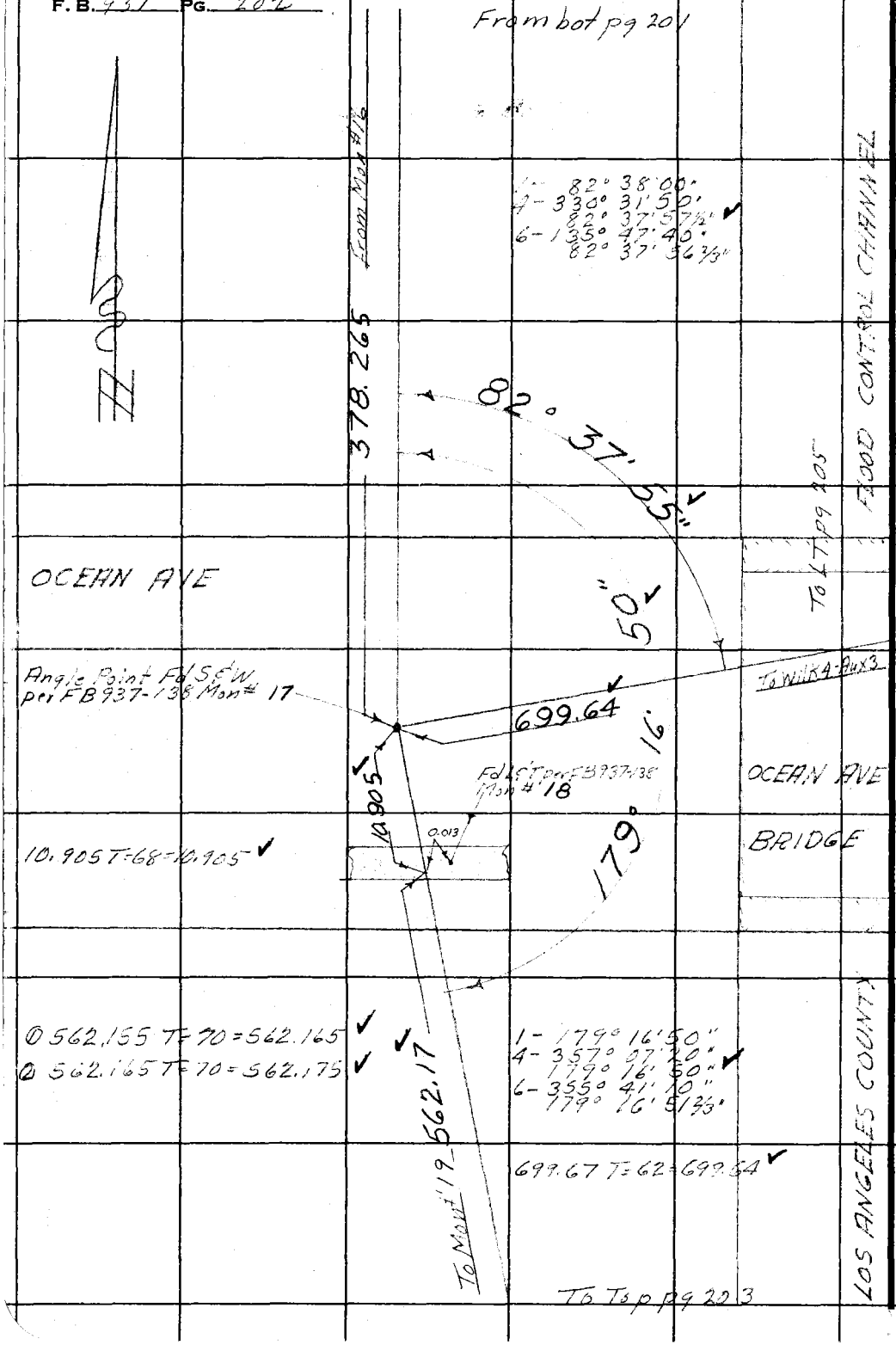
Do not extend notes this side of this line.

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

76F309S 247 2-51

F. B. 937 PG. 202

From bot pg 201



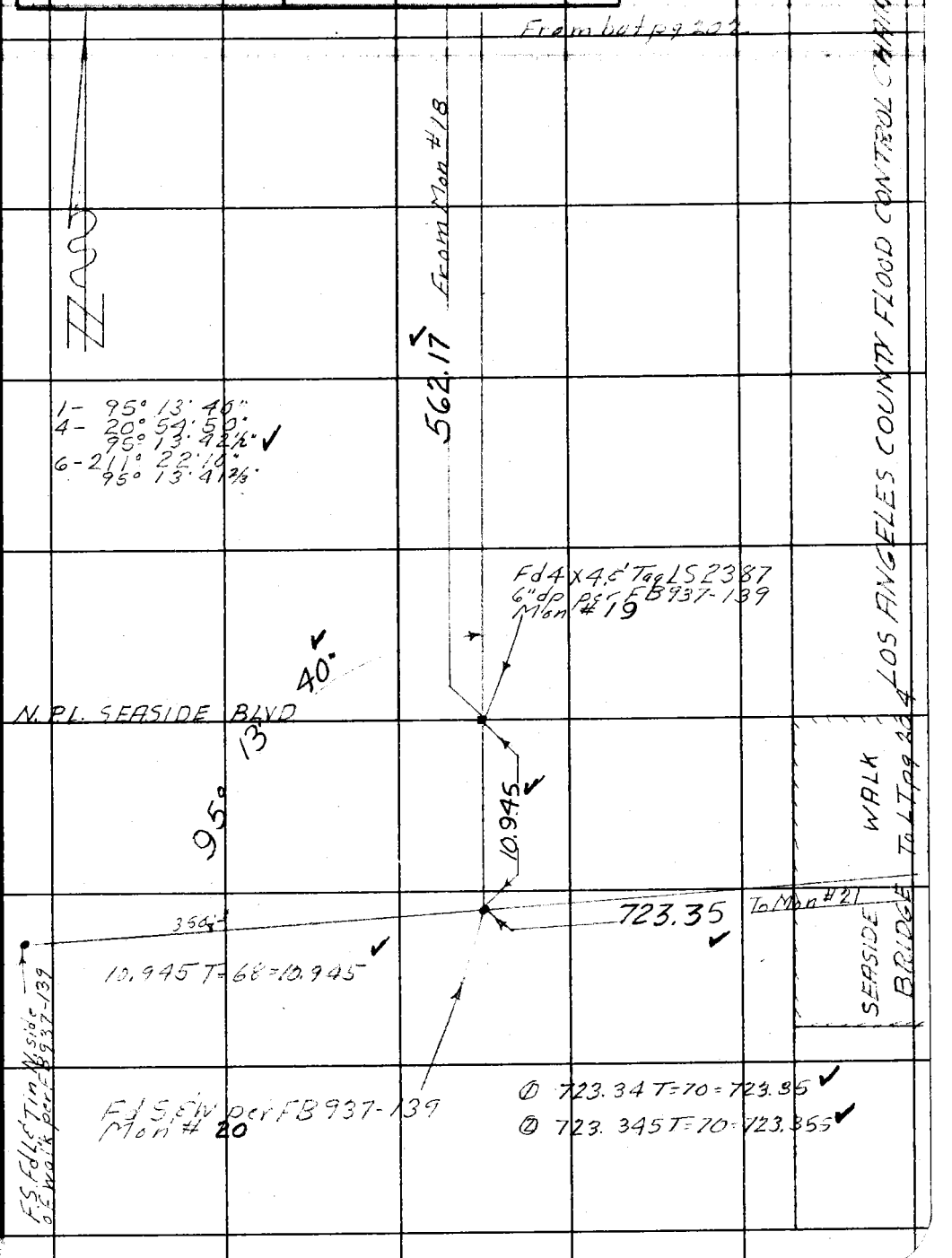
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

Do not extend notes this side of this line.

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

Notes Ck'd by KRM	Survey of L. B. Subsidence
Map No.	W. O. 4922 Tape No. 0137 St'd. 68 °F
Office Work	Surveyed by [illegible]
Checked	Notes Van Date 12-4-52
Date	Indexed A. C. Johnson

F. B. 737 PG.

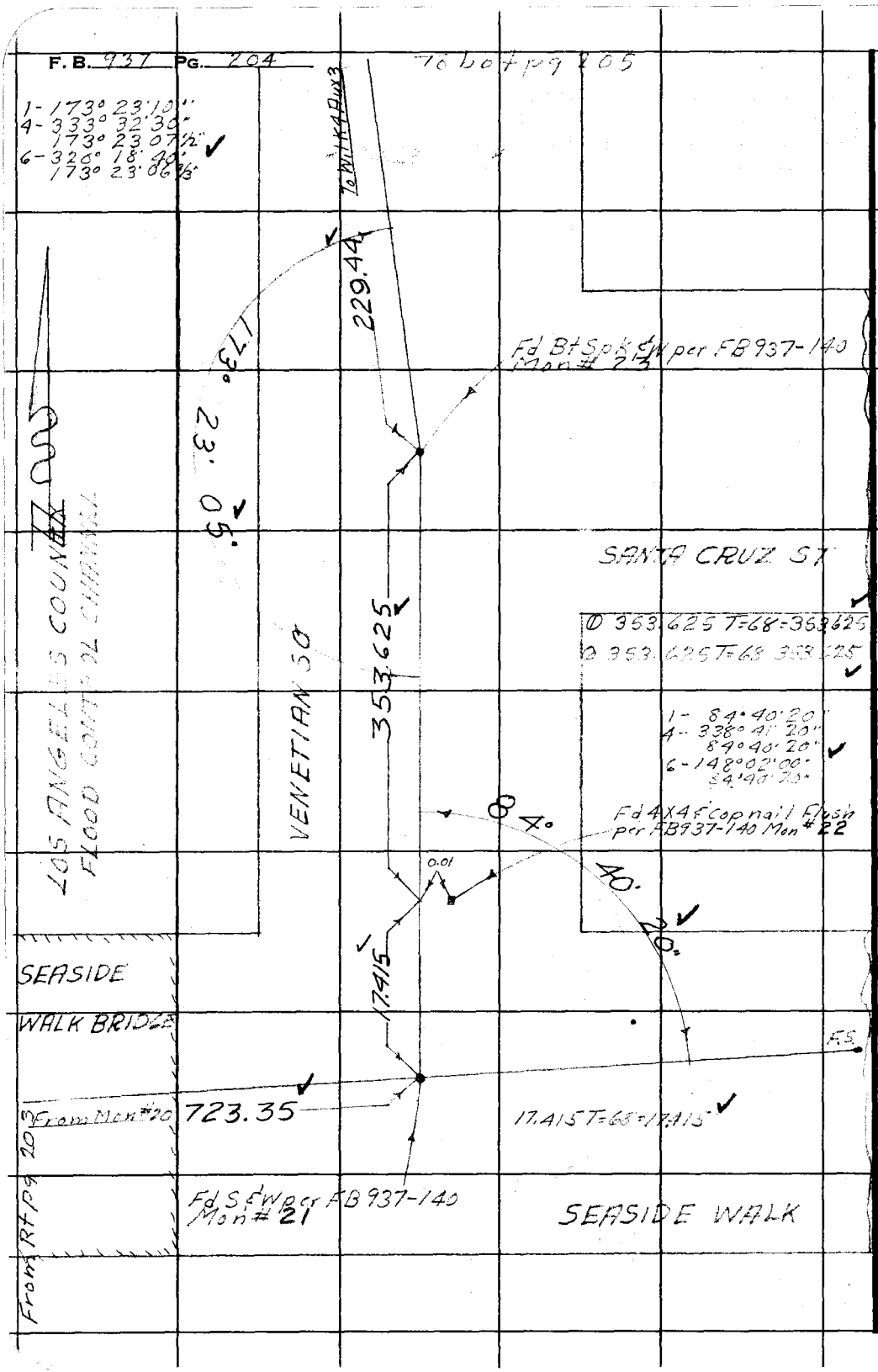


Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

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

76F309S 247 2-51



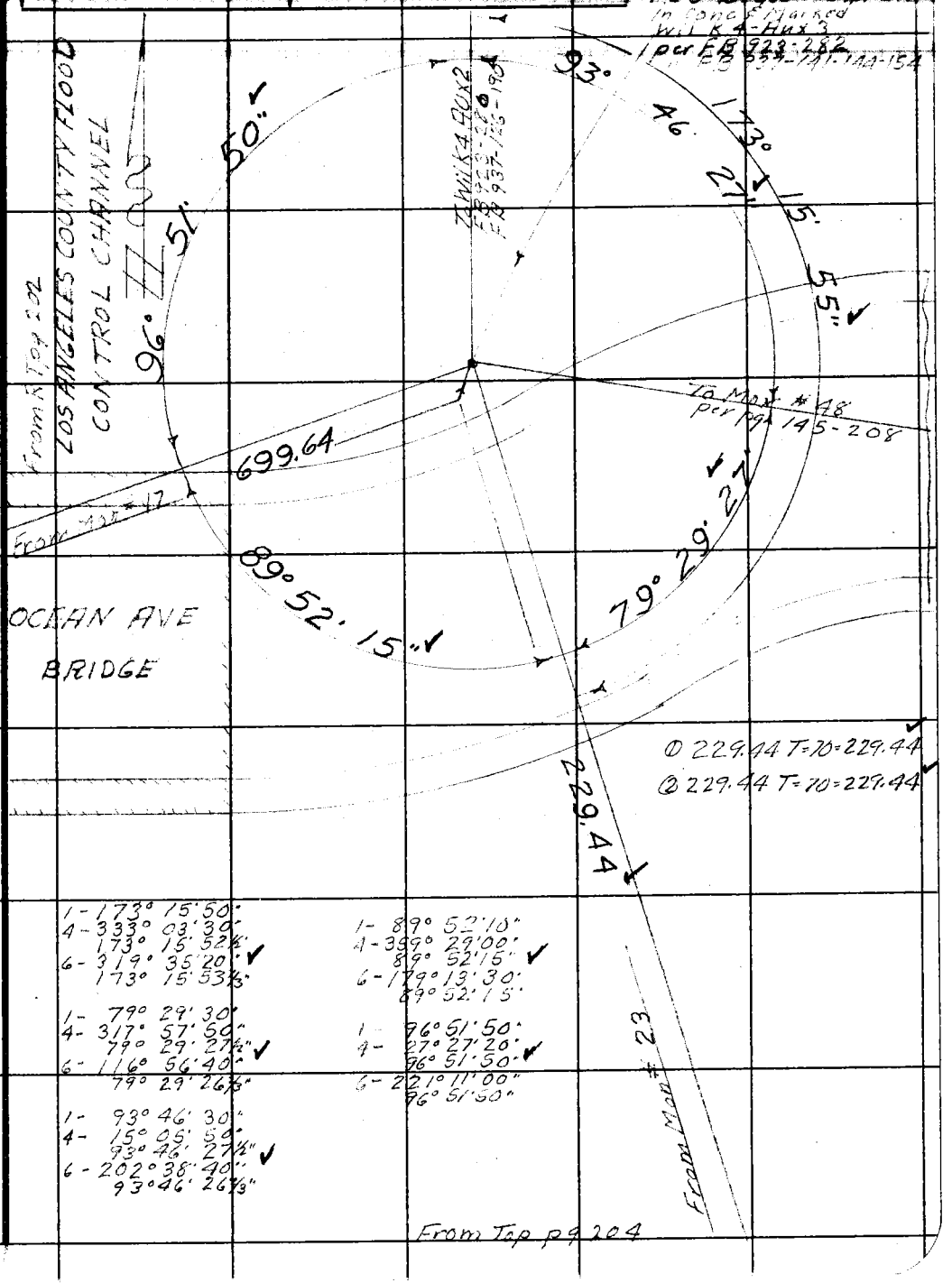
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

Do not extend notes this side of this line.

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

Notes Ck'd by KRM	Survey of LB Subsidence
Map No.	W. O. 4922 Tape No. 0137 St'd. 68 °F
Office Work	Surveyed by M.A. van Deren
Checked	Notes van Date
Date	Indexed A. C. Johnson

F. B. 93 PG. 205



1- 173° 15' 50"
4- 333° 03' 30"
173° 15' 52½"
6- 319° 35' 20"
173° 15' 53⅓"

1- 79° 29' 30"
4- 317° 57' 50"
79° 29' 27½"
6- 116° 56' 40"
79° 29' 26⅔"

1- 93° 46' 30"
4- 15° 05' 50"
93° 46' 27½"
6- 202° 38' 40"
93° 46' 26⅔"

1- 89° 52' 10"
4- 359° 29' 00"
89° 52' 15"
6- 179° 13' 30"
89° 52' 15"

1- 96° 51' 50"
4- 27° 27' 20"
96° 51' 50"
6- 221° 11' 00"
96° 51' 50"

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

Do not extend notes this side of this line.

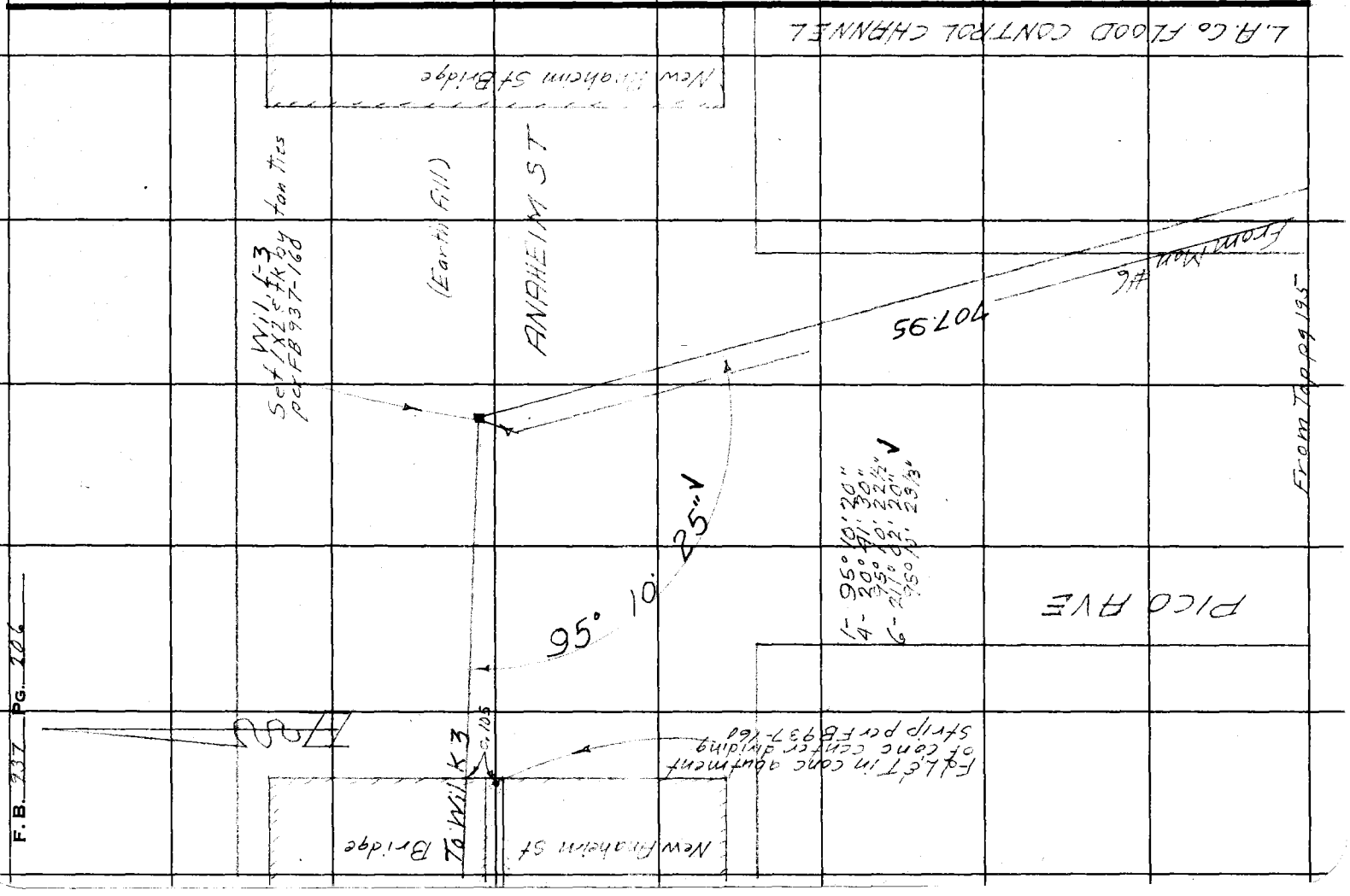
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S 247 2-51

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.



Notes Ck'd by KRM	Survey of L.B. Subsidence
Map No.	W. O. 4922 Tape No. 0137 St'd. 68 °F
Office Work	Surveyed by M.A. VanDeren
Checked	Notes Van Date 12-8-52
Date	Indexed A. C. Johnson 12-10-52

F. B. 737 PG. 207

JN 4922

LONG BEACH SUBSIDENCE

TRAVERSE LINE No 2 - GOLDEN AVE

Tape #0137 - 22½ @ 68° Temp taken on tape

SECOND RUN ON THIS LINE

FOR FIRST RUN SEE FB 937 - 143 To 152

12-5-52
M.A. VanDeren
B. Blankenship
W. Richards
K. Myers

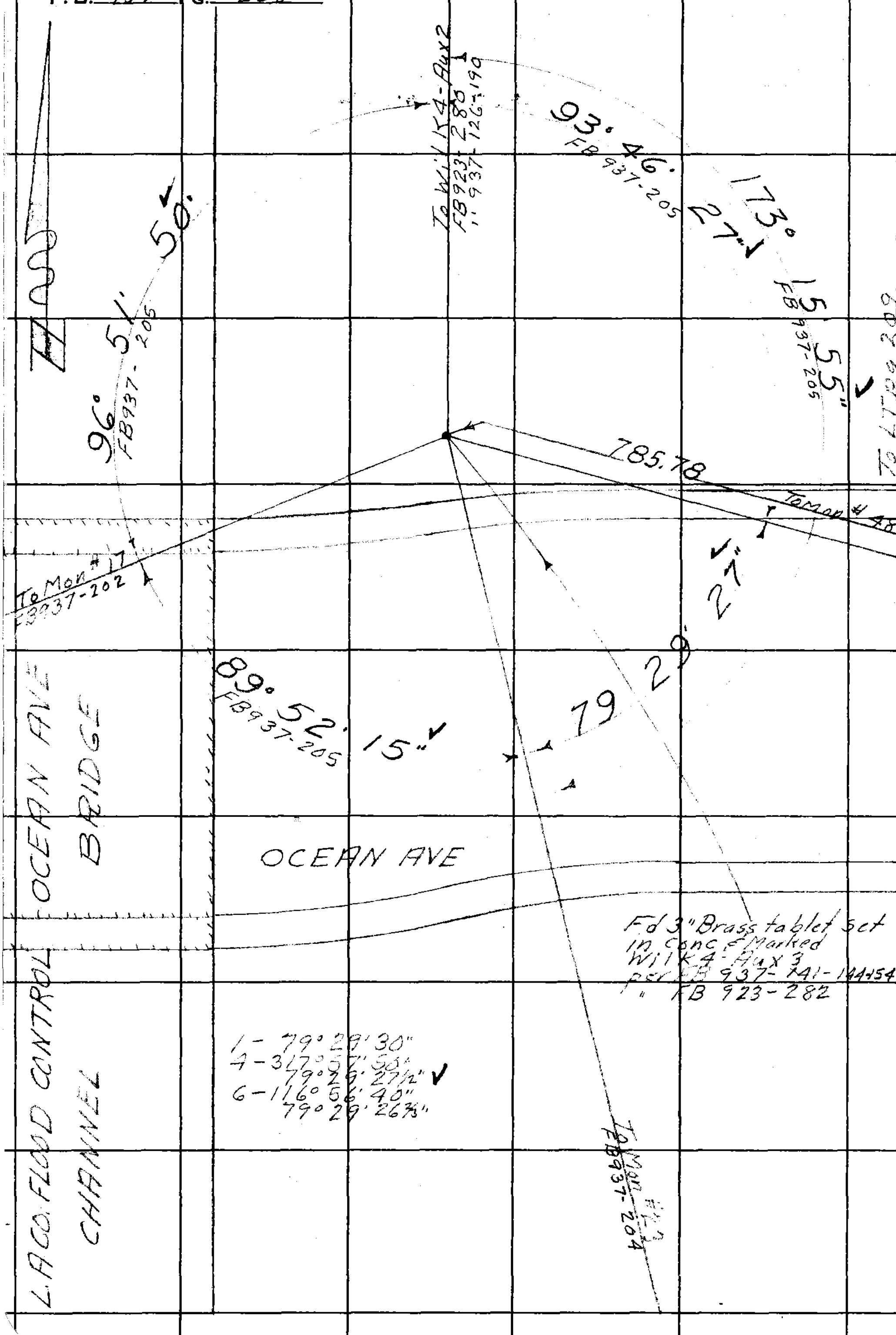
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

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

76F309S 247 2-51

F. B. 937 PG. 208



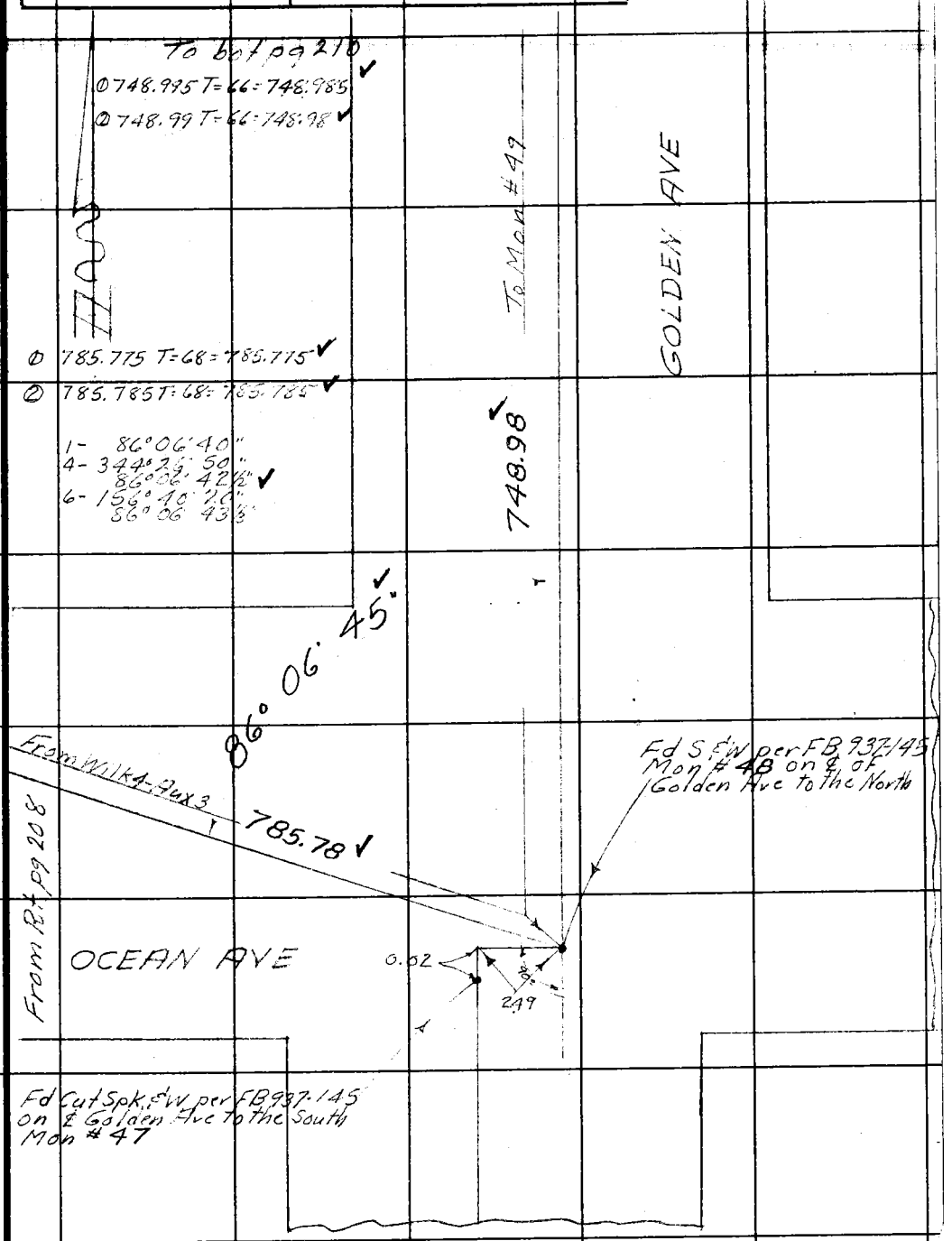
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

Do not extend notes this side of this line.

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

Notes Ck'd by KDM	Survey of L.B. Subsidence
Map No.	W. O. [illegible] Tape No. 0137 St'd. 68 °F
Office Work	Surveyed by M. A. Van Deren
Checked	Notes Van Date 12-5-52
Date	Indexed A. C. Johnson

F.B. 937 PG. 209



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

Do not extend notes this side of this line.

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

76F309S 247 2-51

F. B. 937 PG. 210

To bot pg 211

NORTH

GOLDEN AVE

To Mon #50

① 440.127=68=440.12
② 440.125 T=68=440.125

440.12

① 179° 59' 50"
② 359° 59' 40"
179° 59' 55"
③ 359° 59' 35"
179° 59' 55"

179° 59' 55"

BROADWAY

Fd SEW per FB937-146
Mon # 49

748.98

From Mon #48

From Top pg 209

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

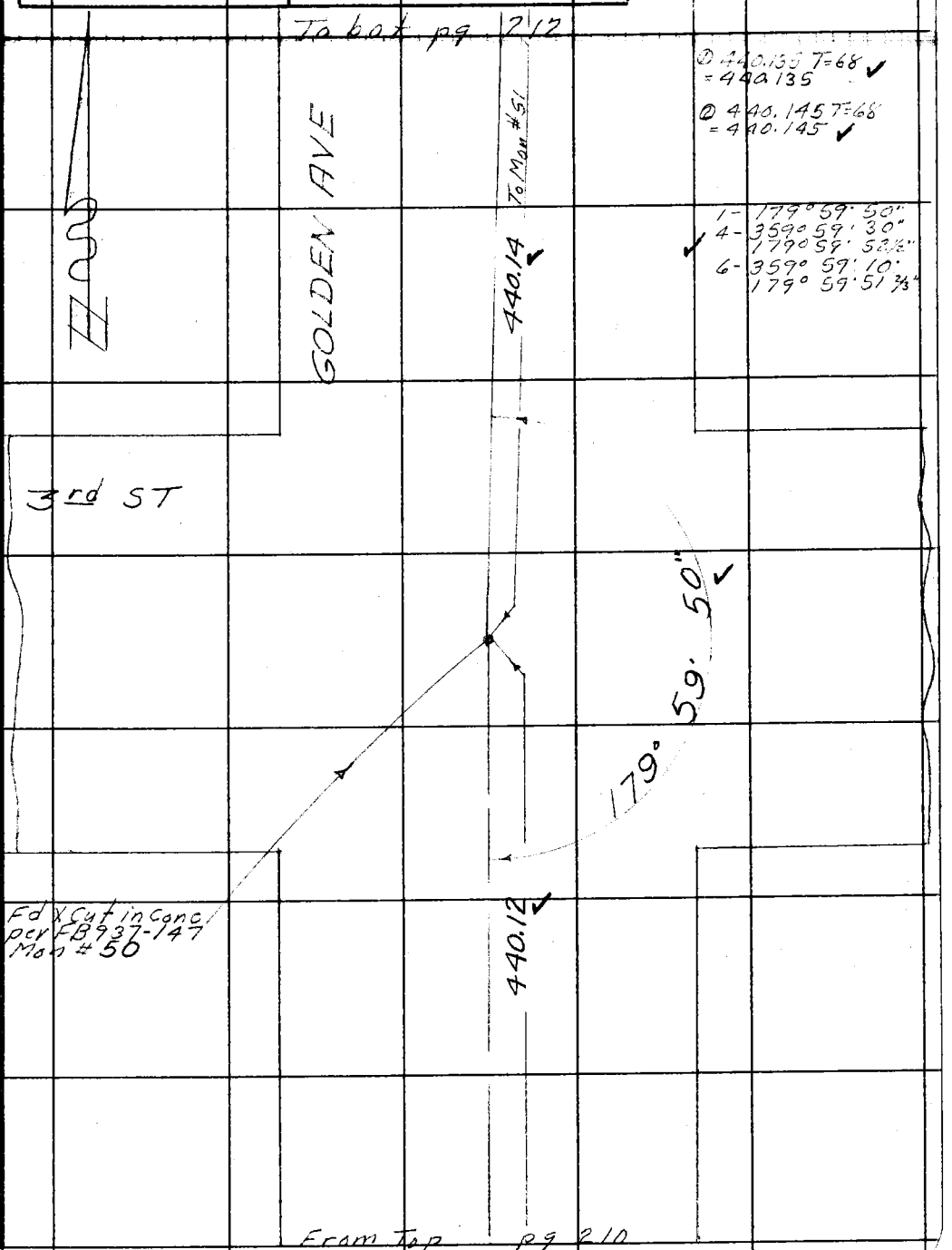
Do not extend notes this side of this line.

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

Notes Ck'd by KRM	Survey of L.B. Subsidence
Map No.	W. O. 4977 Tape No. 0137 St'd. 68 °F
Office Work	Surveyed by M.A. Van Dercar
Checked	Notes
Date	Date 12-5-59
	Indexed E. C. Johnson

F. B. 937 PG. 211

To bot. pg. 212



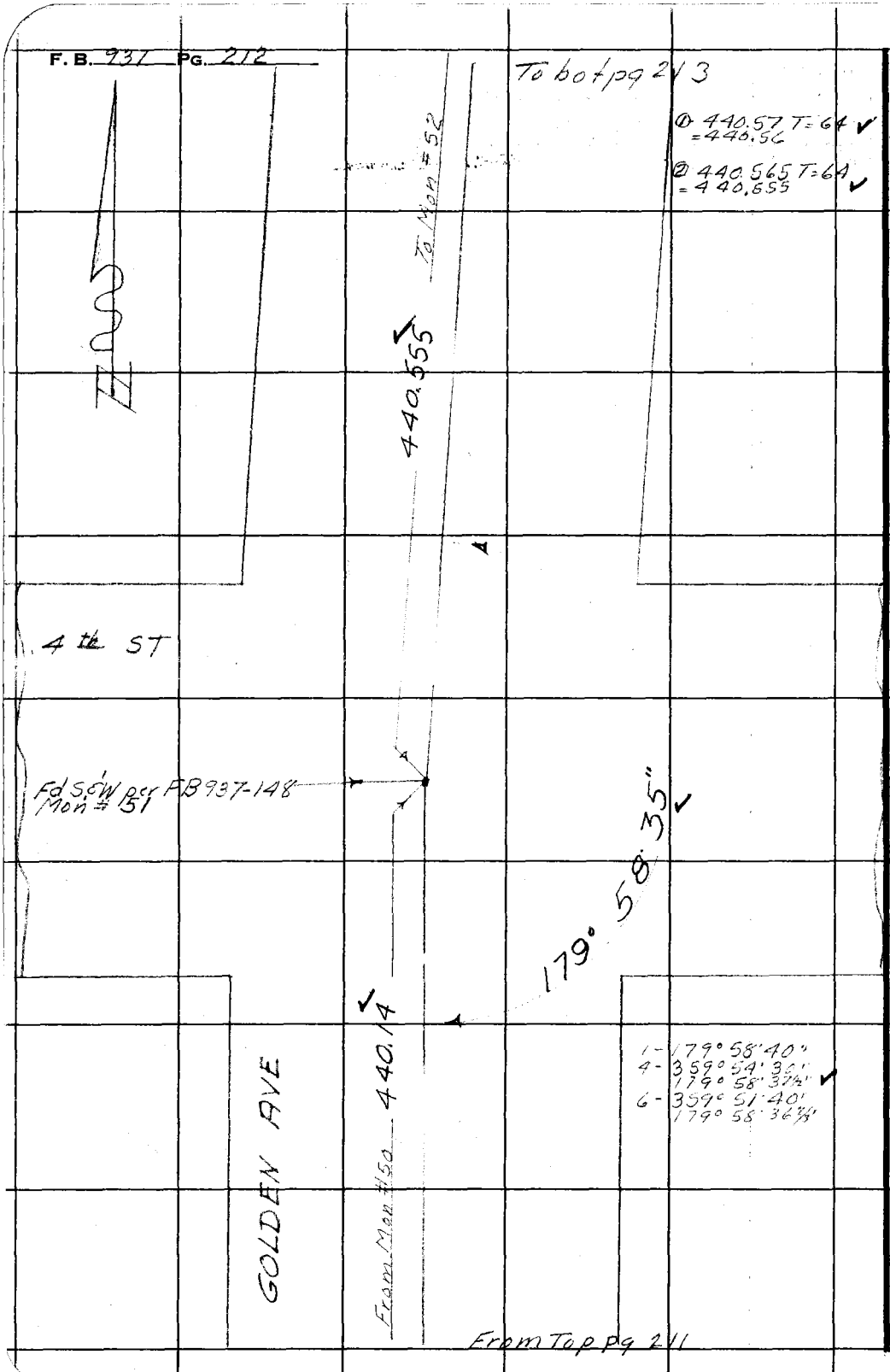
From Top pg. 210

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

Do not extend notes this side of this line.

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

76F309S 247 2-51



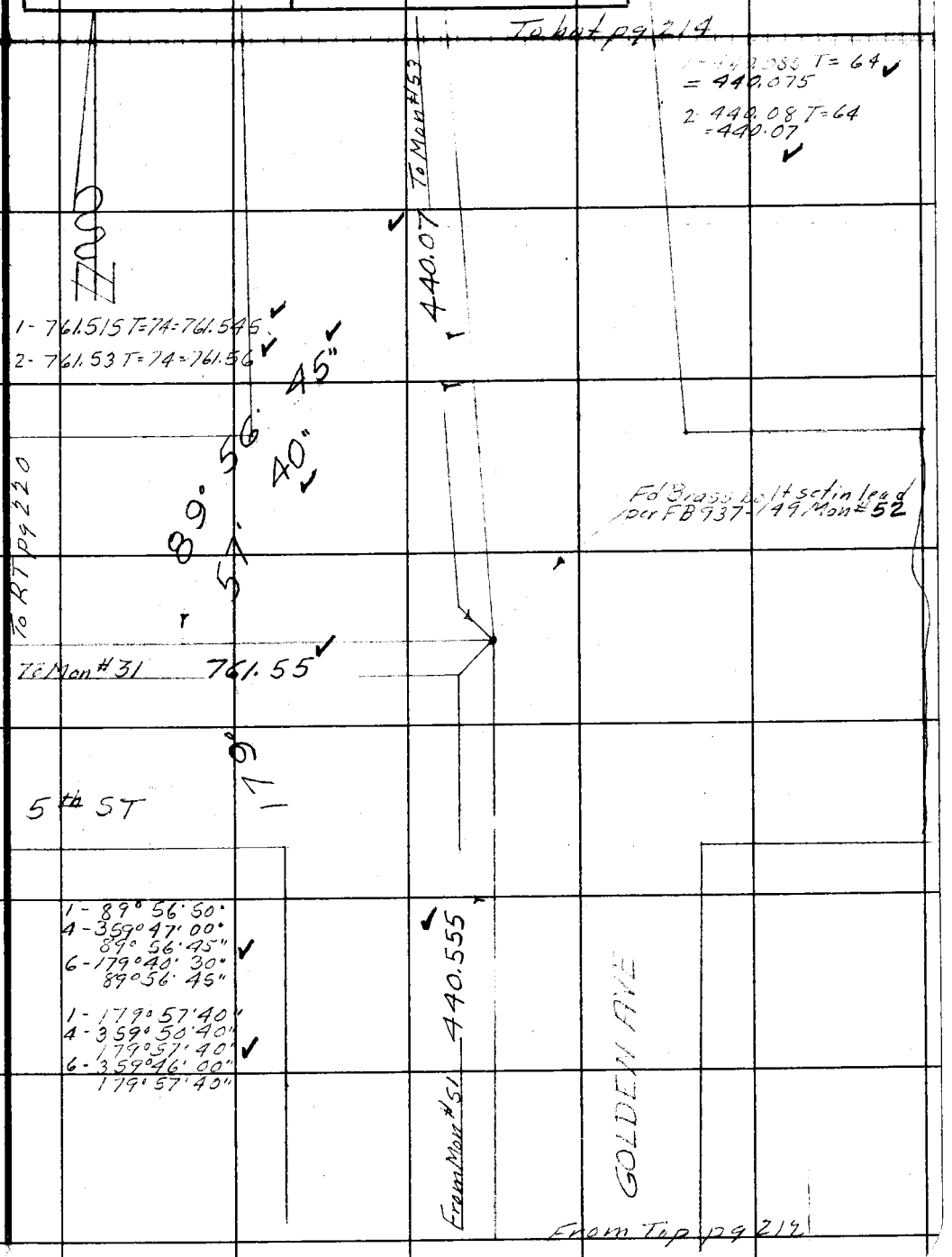
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

Do not extend notes this side of this line.

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

Notes Ck'd by RRM	Survey of L.B. Subsidence
Map No.	W. O. 1922 Tape No. 0137 St'd. 68° °F
Office Work	Surveyed by M.A. VanDeren
Checked	Notes Date 12-8-52
Date	Indexed A. C. Johnson

F. B. 937 PG. 213

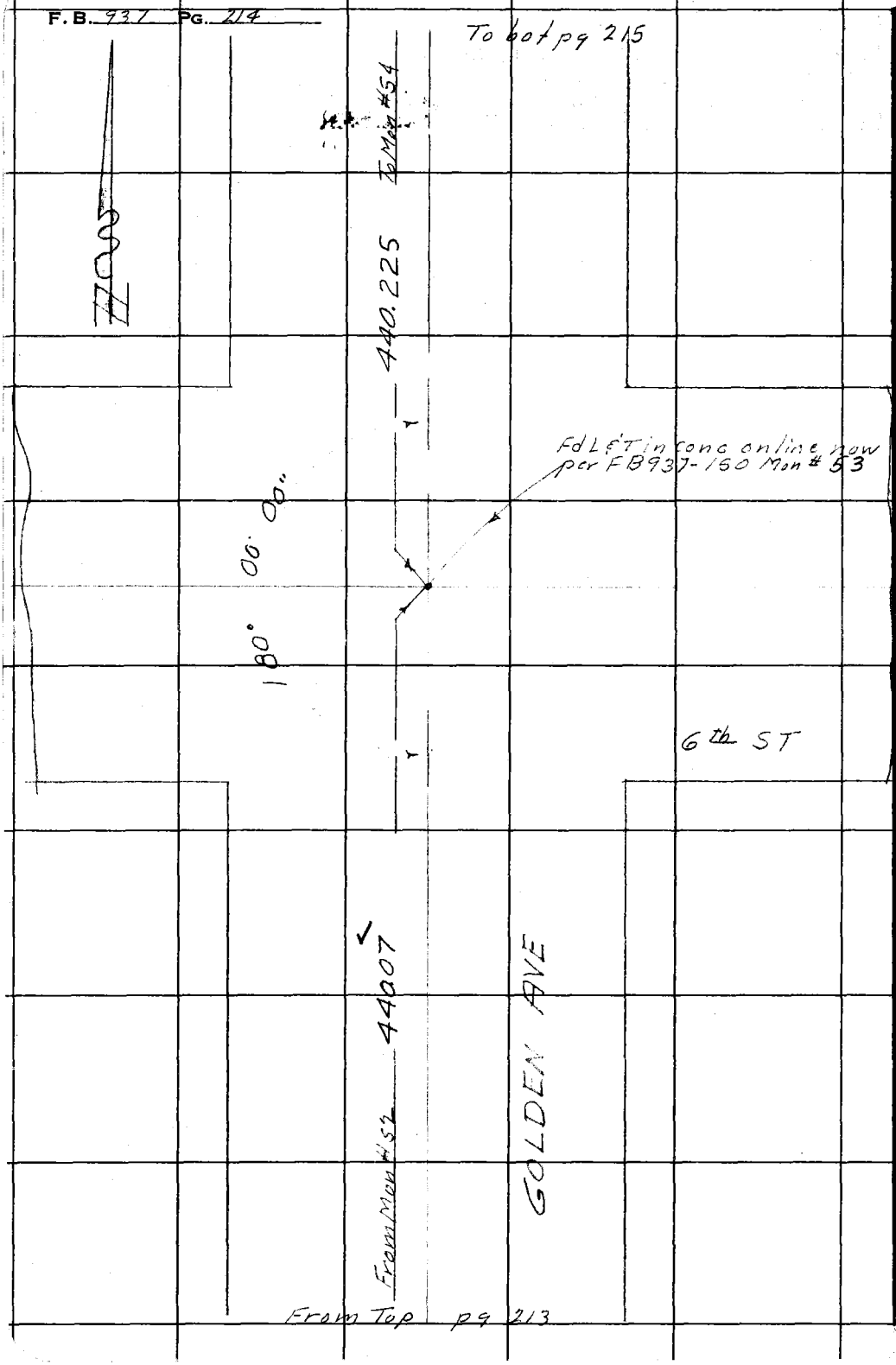


Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

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

76F309S 247 2-51



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

Do not extend notes this side of this line.

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

Notes Ck'd by KRM	Survey of L.B. Subsidence
Map No.	W. O. 4922 Tape No. [illegible] St'd. 68 °F
Office Work	Surveyed by M. A. Van Deren
Checked	Notes Date 10 [illegible]
Date	Indexed A. C. Johnson

F.B. 937 PG. 215

① 332.06 T= 60= 332.04 ✓
② 332.05 T= 60= 332.03 ✓

To Top pg 216

Fd SWF 7 per FB937-151
Mon # 54

To Mon #55 332.035 ✓

7th ST

89° 58' 30" ✓

1- 89° 58' 30"
4- 359° 54' 10"
89° 58' 32½" ✓
6- 179° 51' 10"
89° 58' 31⅔"

440.225

GOLDEN AVE

From Mon #53

From Top pg 214

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

Do not extend notes this side of this line.

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

76F309S 247 2-51

F. B. 937 PG. 216

From Lt pg 215

1- 175° 03' 40"
4- 340° 14' 40"
175° 03' 40"
6- 330° 22' 00"
175° 03' 40"

332.035 From Mon #54

Fd L&T per FB937-152
Mon # 55

2.97

Fd S&W per FB937-152
Mon # 56

175° 03' 40"

SAN FRANCISCO
AVE

447.91

1- 95° 05' 28"
4- 20° 22' 00"
95° 05' 30"
6- 210° 32' 50"
95° 05' 28"

① 447.945 T=58= 447.915
② 447.935 T=58= 447.905

95° 05' 28"

7th ST

To WILK4 Aux3
FB923-280
FB937-141-143

Fd 3" Brass tack
set in Conc & marked
WILK4-Aux2
FB923-280
FB937-126-158-190

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

Do not extend notes this side of this line.

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

Notes Ck'd by KRM	Survey of L.B. Subsidence
Map No.	W. O. Tape No. St'd. °F
Office Work	Surveyed by M.A. Van Dercn
Checked	Notes Date
Date	Indexed A. C. Johnson 12-10-52

F. B. 737 Pg. 217

JN 4922

LONG BEACH SUBSIDENCE

TRAVERSE LINE No 3

Tape #0137 - 22½ @ 68° Temp taken on tape

SECOND RUN ON THIS LINE

FOR FIRST RUN SEE FB 937 - 153 TO 158

12 - 9 - 52

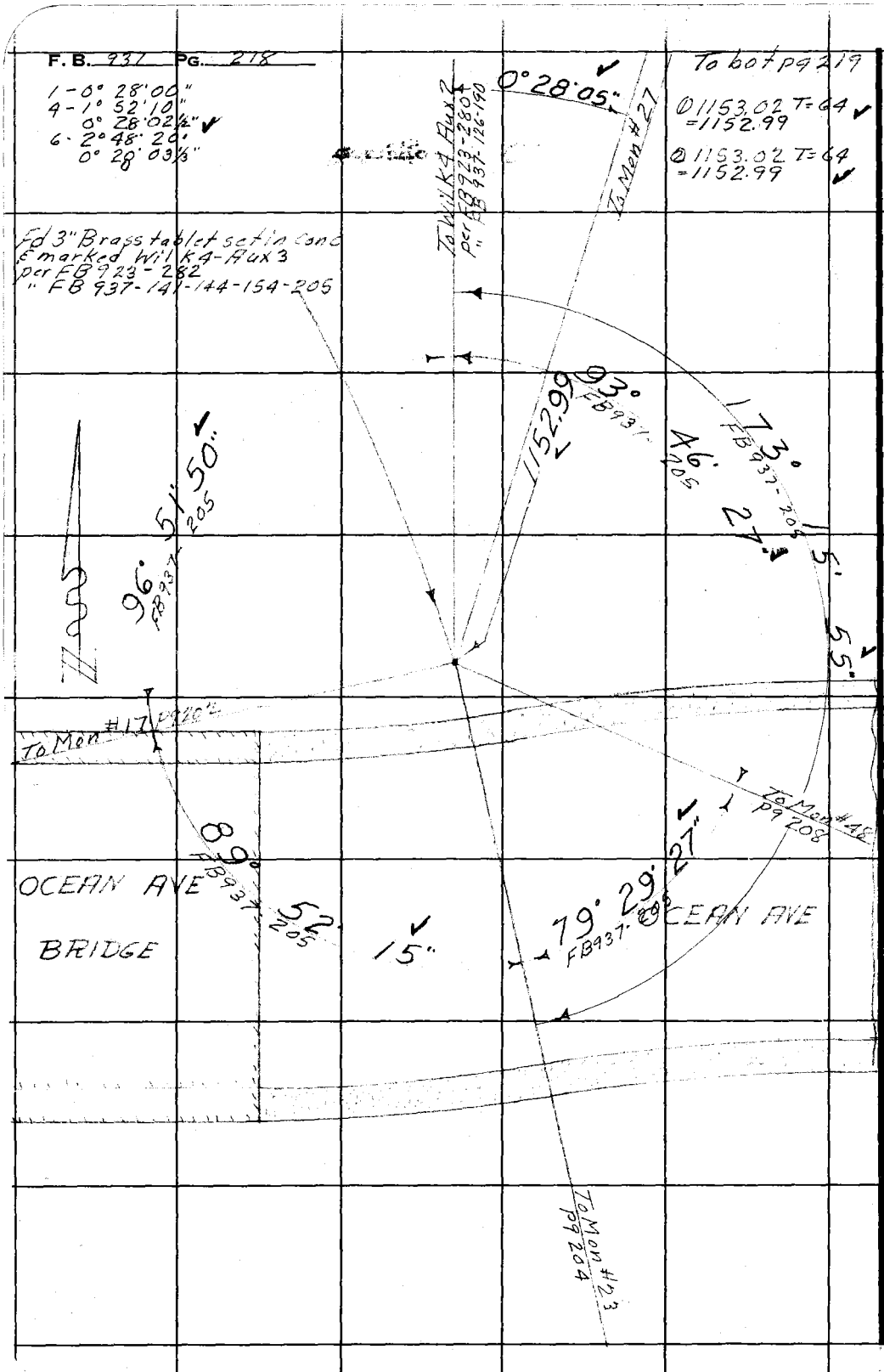
M.A. Van Dercn
B. Blankenship
W. Richards
K. Myers

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

Do not extend notes this side of this line.

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

76F3095 247 2-51



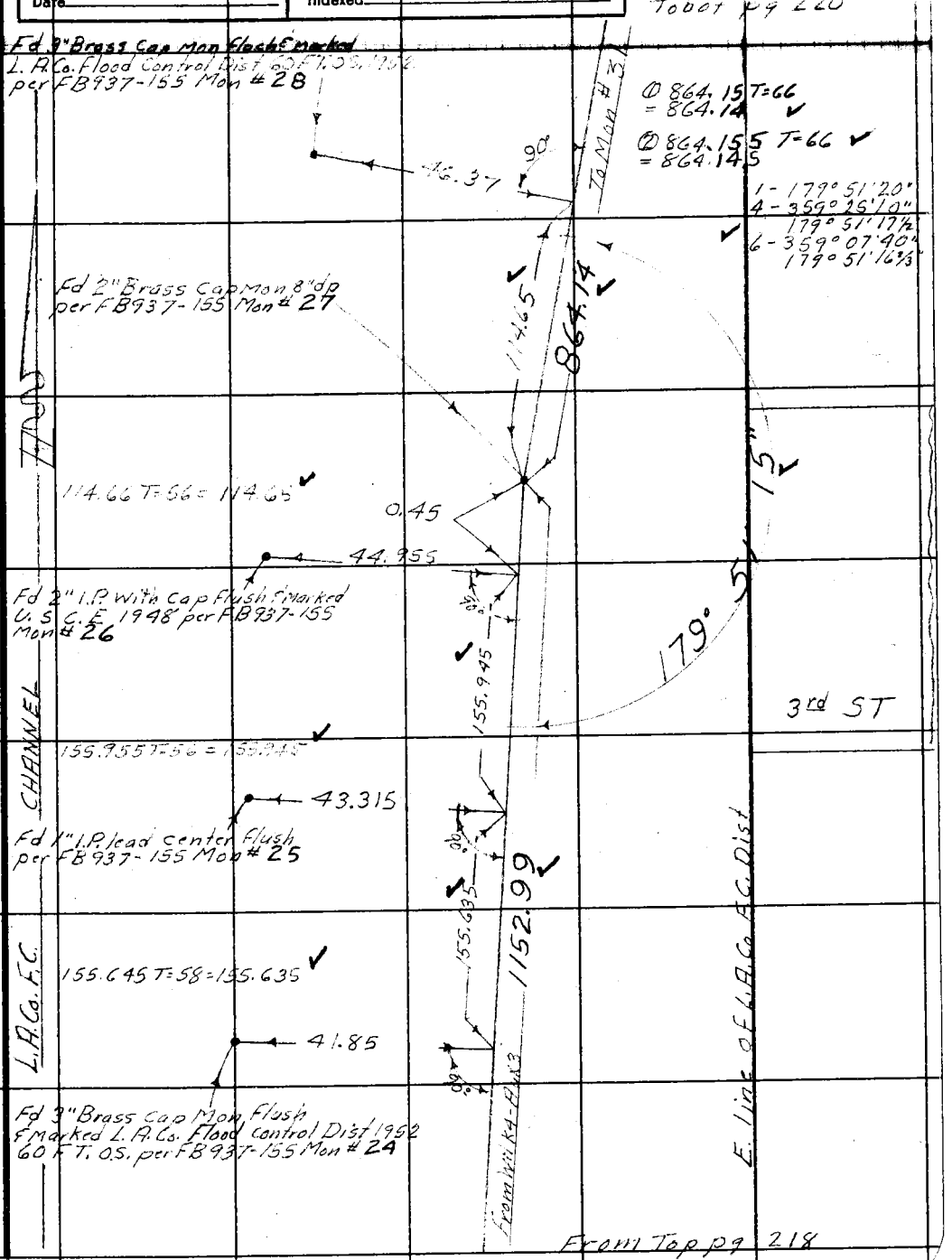
RETURN TO
LOS ANGELES COUNTY SURVEYOR
725 LOS ANGELES COUNTY
ENGINEERING BLDG.

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 KAM	Survey of L.B. Subsidence
Map No.	W. O. 4922 Tape No. 0137 St'd 58 °F
Office Work	Surveyed by M.A. Van Deren
Checked	Notes Vo Date
Date	Indexed A. C. Johnson

F.B. 937 Pg. 219



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

Do not extend notes this side of this line.

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

76F309S 247 2-51

F. B. 937 PG. 220

To bot pg 221

Fd 2" I.P. P/S nail Flush per FB 937-156 Mon #32

① 439.03 T=60 ✓
=439.01

② 439.035 T=60 ✓
=439.015

1- 89° 27' 30"
4- 357° 50' 10"
89° 27' 32½" ✓
6- 176° 45' 20"
89° 27' 33⅓"

To Mon #34

90°

56.26

Fd 3/4 I.P. conc ctr & cap wire 14" dp on 5th St prod from E. per FB 937-156 Mon #31

439.01

89° 27' 35" ✓

15" ✓

80.06

From LT pg 213

Fd 2" Brass Cap Mon 12" dp per FB 937-156 Mon #58

10.80

4.31

51'

761.55 From Mon #52

55.47

Fd 2" I.P. with cap Flush & Marked U.S.C.E. 1948 per FB 937-156 Mon #30

90°

5th ST

Fd 2" Brass Cap Mon 12" dp per FB 937-156 Mon #57

F.C. CHANNEL

1- 179° 51' 20"
4- 359° 25' 10"
179° 51' 17½" ✓
6- 359° 07' 40"
179° 51' 16⅔"

4.76

864.14

55.61

90°

Fd 3" Brass Cap Mon Flush & Marked L.A.Co. F.C. Dist 1952 60 FT O.S. per FB 937-156 Mon #29

L.A.Co

From Mon #27

E line of L.A.Co F.C. Dist

From Tap pg 219

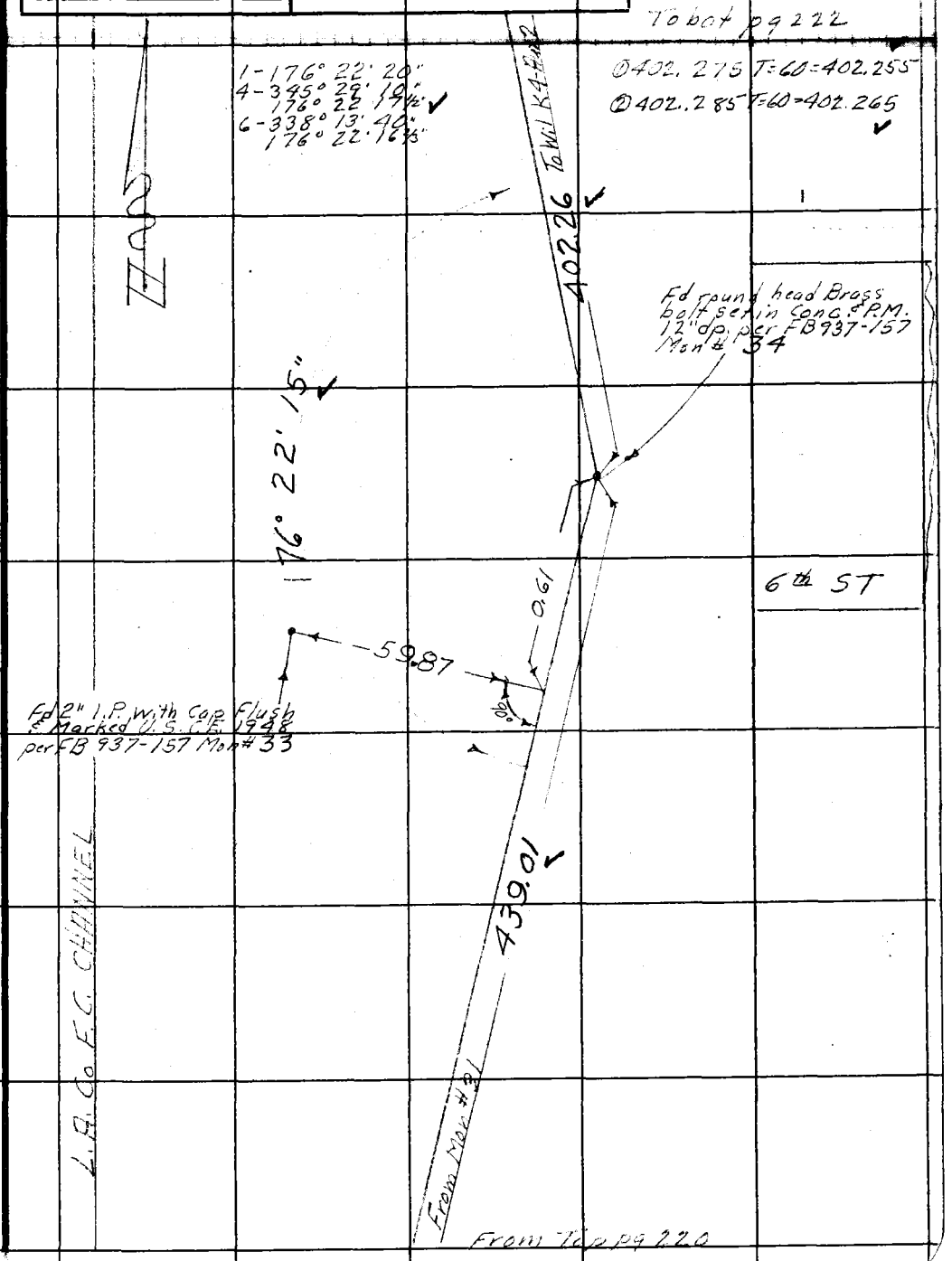
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

Do not extend notes this side of this line.

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

Notes Ck'd by KRM	Survey of L.B. Subsidence
Map No.	W. O. 4922 Tape No. 2137 St'd. 66 °F
Office Work	Surveyed by M.D. Van Deren
Checked	Notes Date
Date	Indexed A. C. Johnson

F. B. 937 PG. 221



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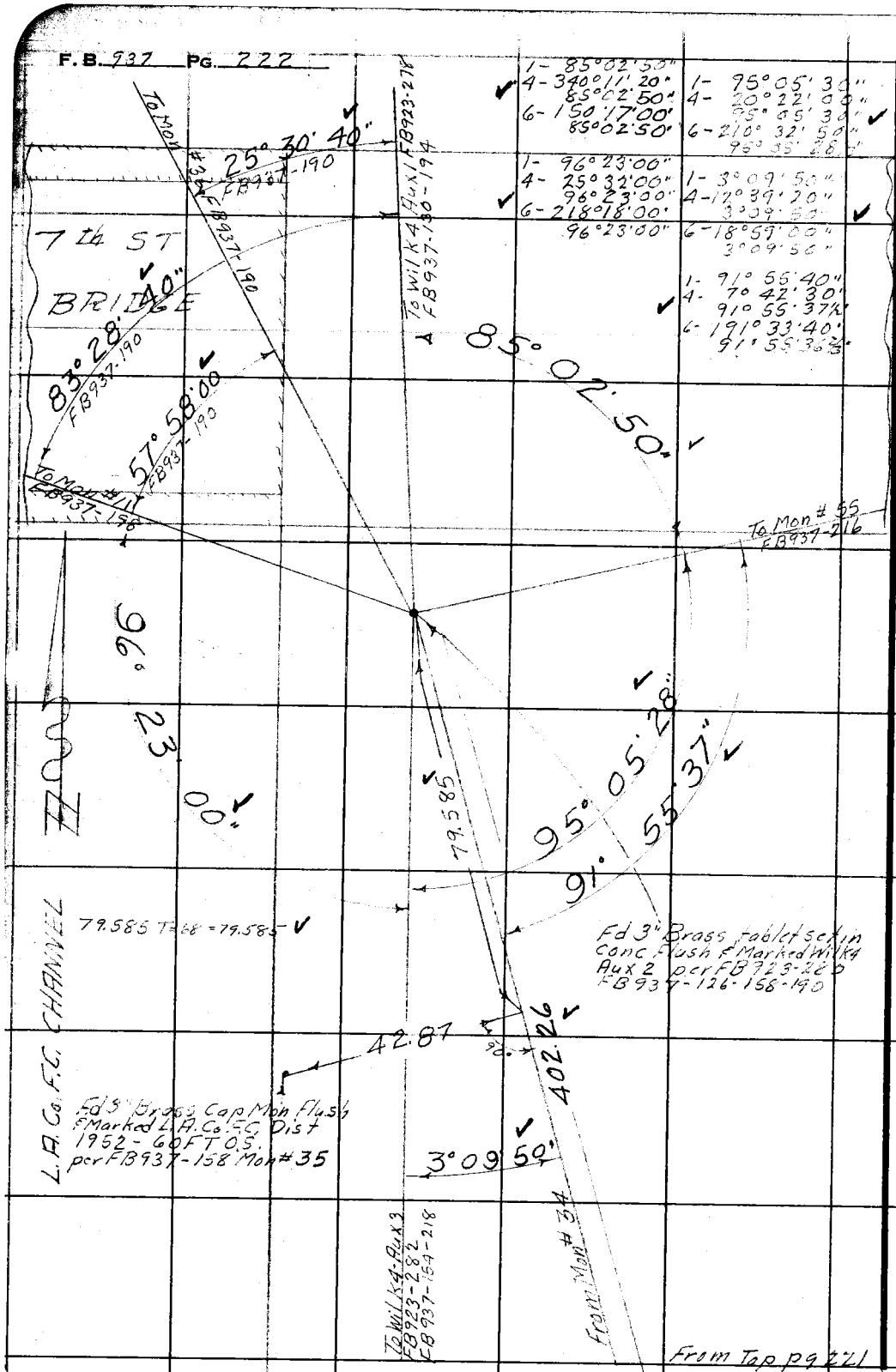
Do not extend notes this side of this line.

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

76F309S 247 2-51

F.B. 937 PG. 222



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

Do not extend notes this side of this line.

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

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

Survey of L.B. Subsidence
W. O. 1922 Tape No. 0137 St'd. 68 °F
Surveyed by M.A. Van Deren
Notes Van Date 9-28-53
Indexed K. C. Johnson

F. B. 937 Pg. 223

NOV 10 '53

JN 4922

LONG BEACH SUBSIDENCE

TRAVERSE LINE No 1

THIRD RUN ON THIS LINE

FOR FIRST RUN SEE FB 937-125-142
FOR SECOND RUN SEE FB 937-189-206

Tape # 0137 - 22½ - at 68° temp taken on tape

"Note" Mon # 21-22-23 Destroyed by Const

9-28-53
M.A. Van Deren
W. Richards
K. Myers
J. Miller
R. Skerry

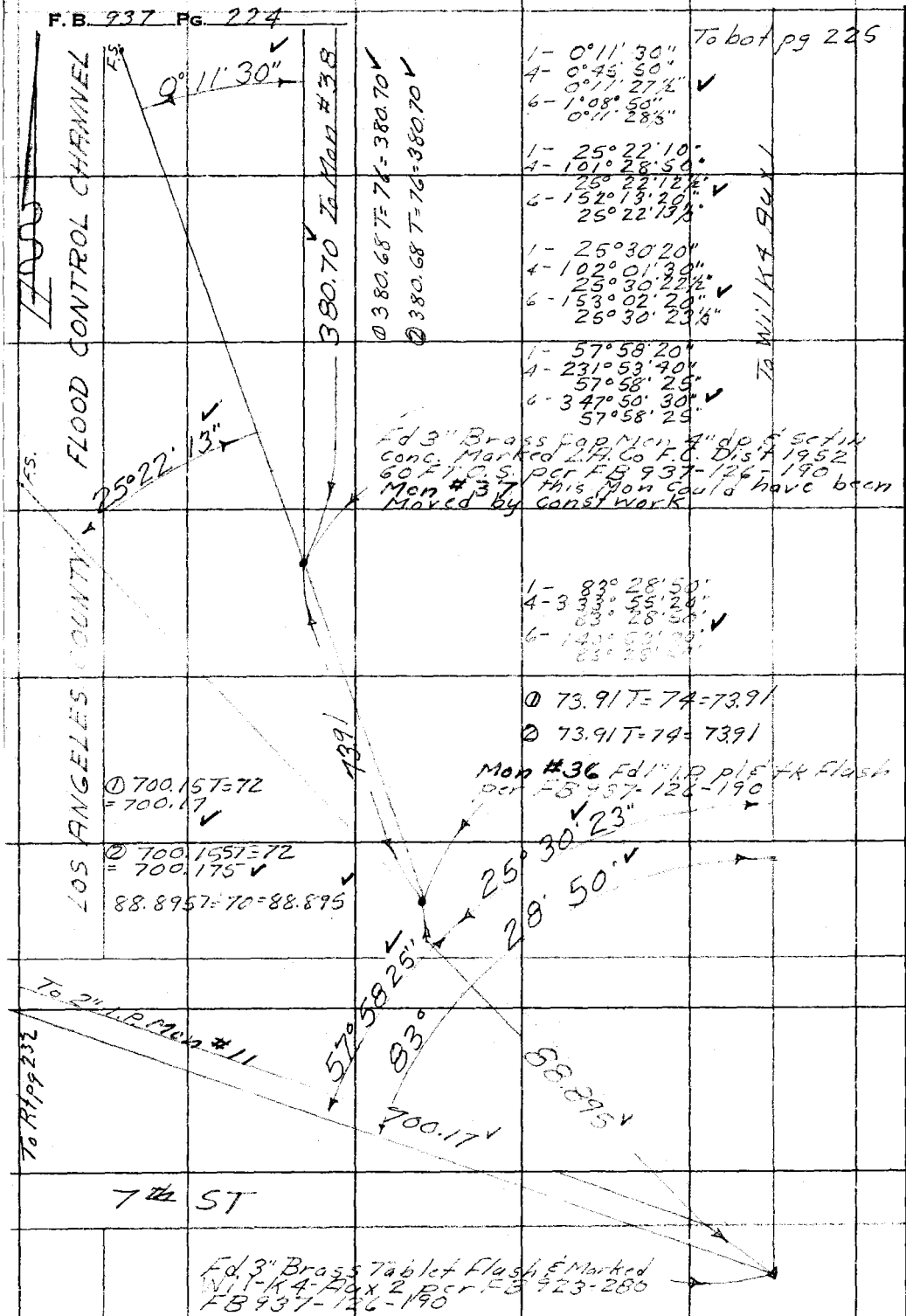
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

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

76F309S 247 4-53

F.B. 937 Pg. 224



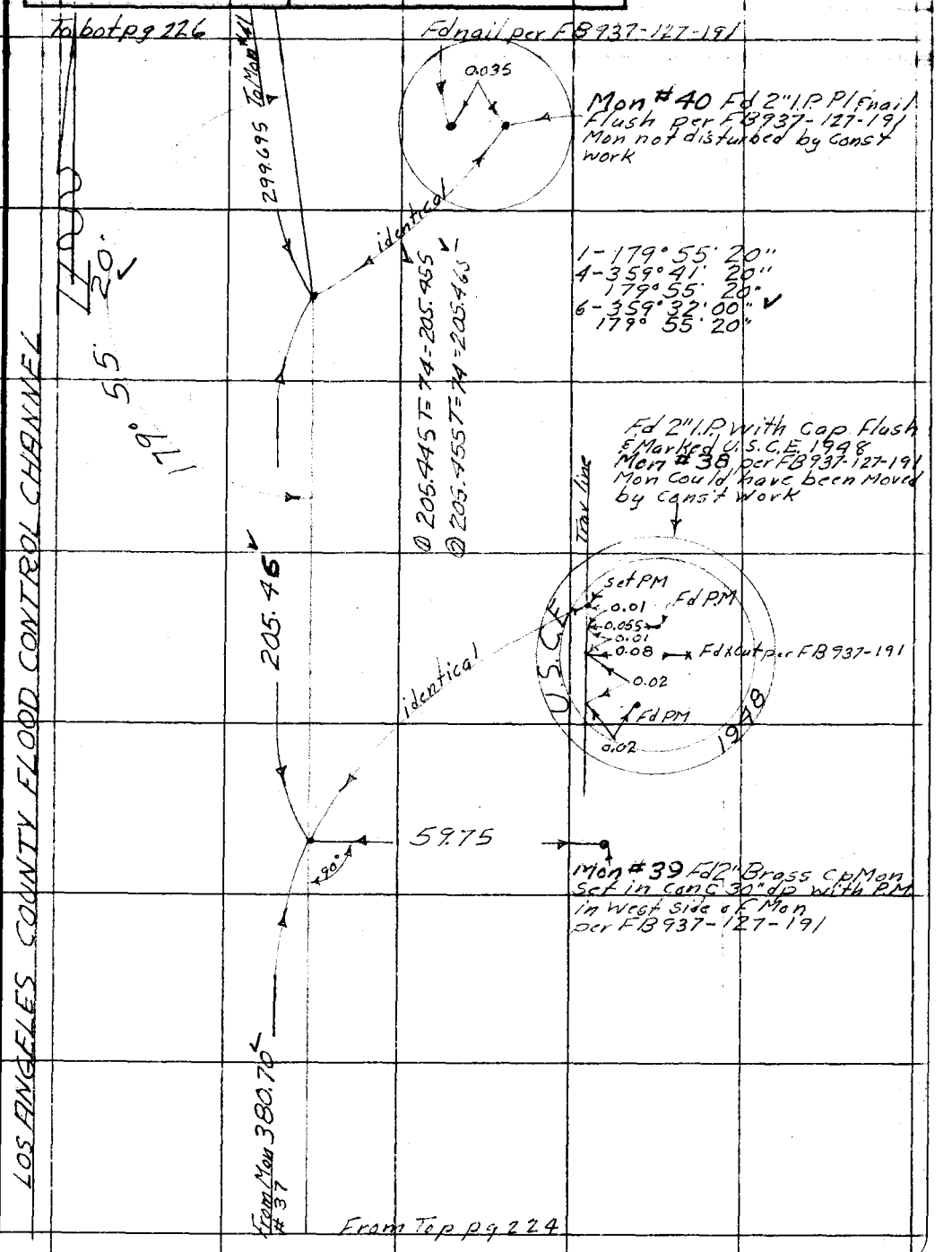
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

Do not extend notes this side of this line.

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

Notes Ck'd by KRM	Survey of LB Subsidence
Map No.	W. O. 4922 Tape No. 0137 St'd. 68 °F
Office Work	Surveyed by M.A. VanDeren
Checked	Notes Van Date 9-29-53
Date	Indexed C. Johnson

F. B. 937 Pg. 225



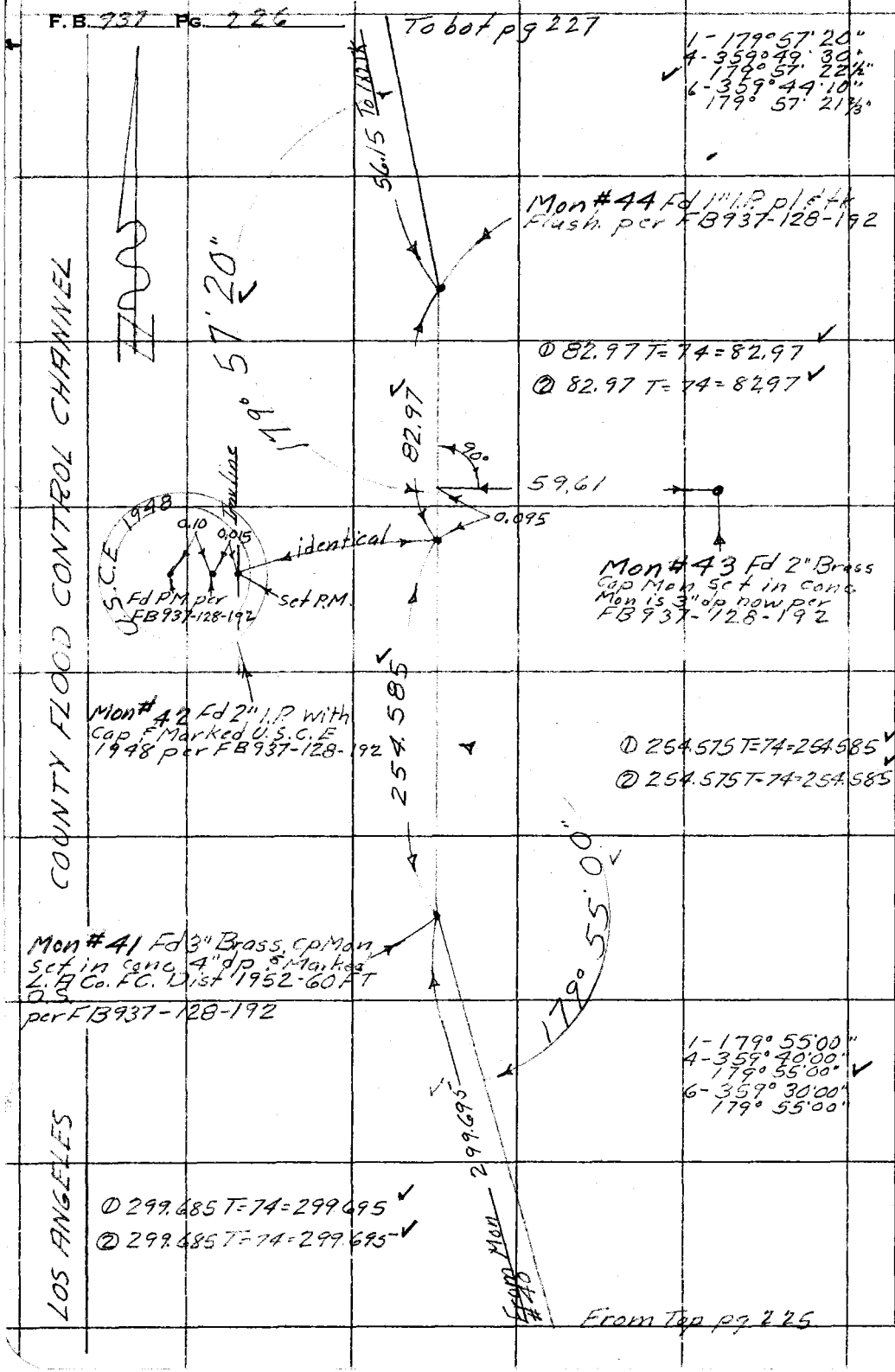
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

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

76F3095 247 4-53

F.B. 937 Pg. 226



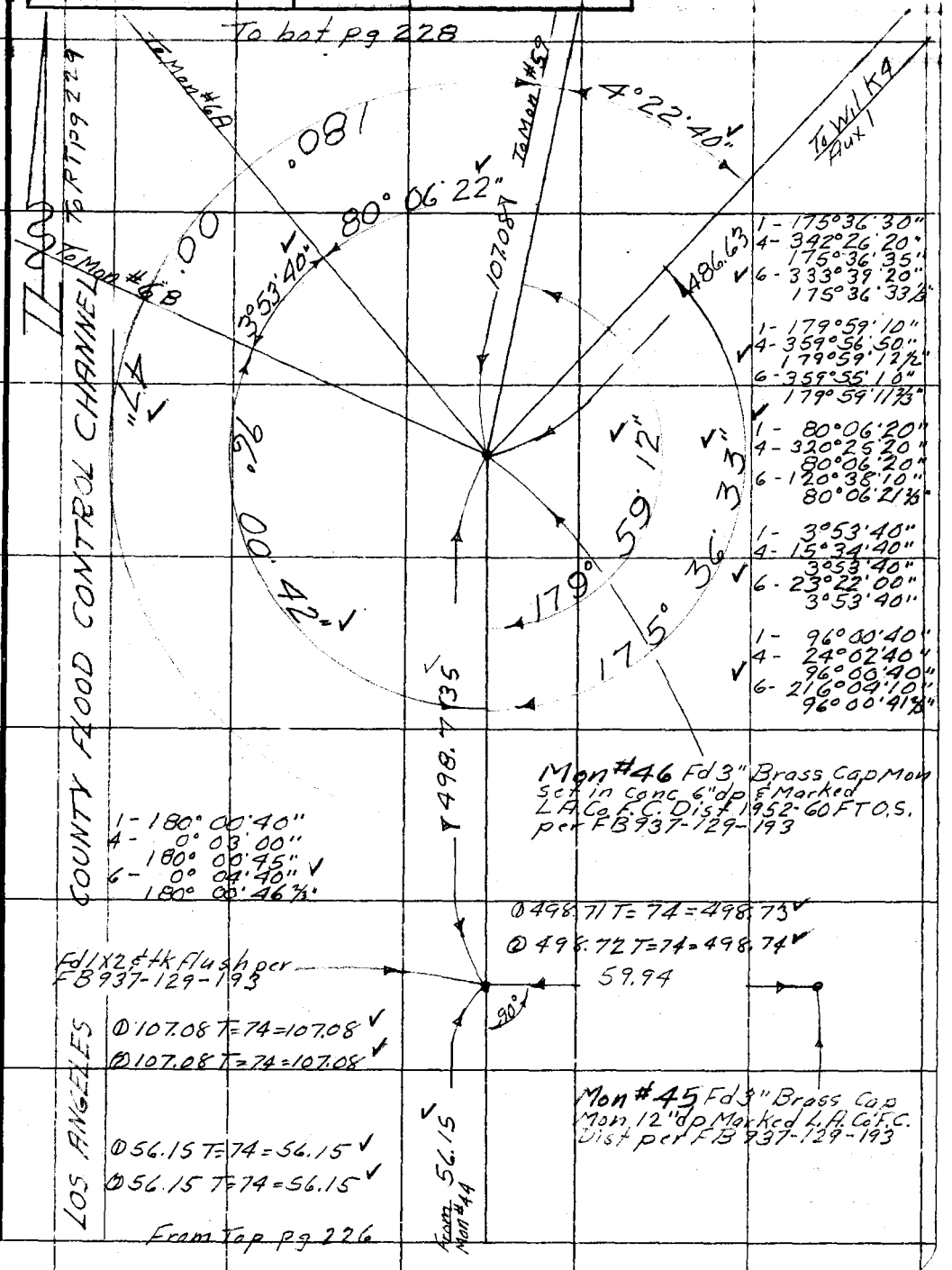
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

Do not extend notes this side of this line.

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

Notes Ck'd by KRM	Survey of L.B. Subsidence
Map No.	W. O. 4922 Tape No. 0137 St'd. 68 °F
Office Work	Surveyed by M.H. Van Deren
Checked	Notes Van Date 9-29-53
Date	Indexed A. C. Johnson

F. B. 937 PG. 227

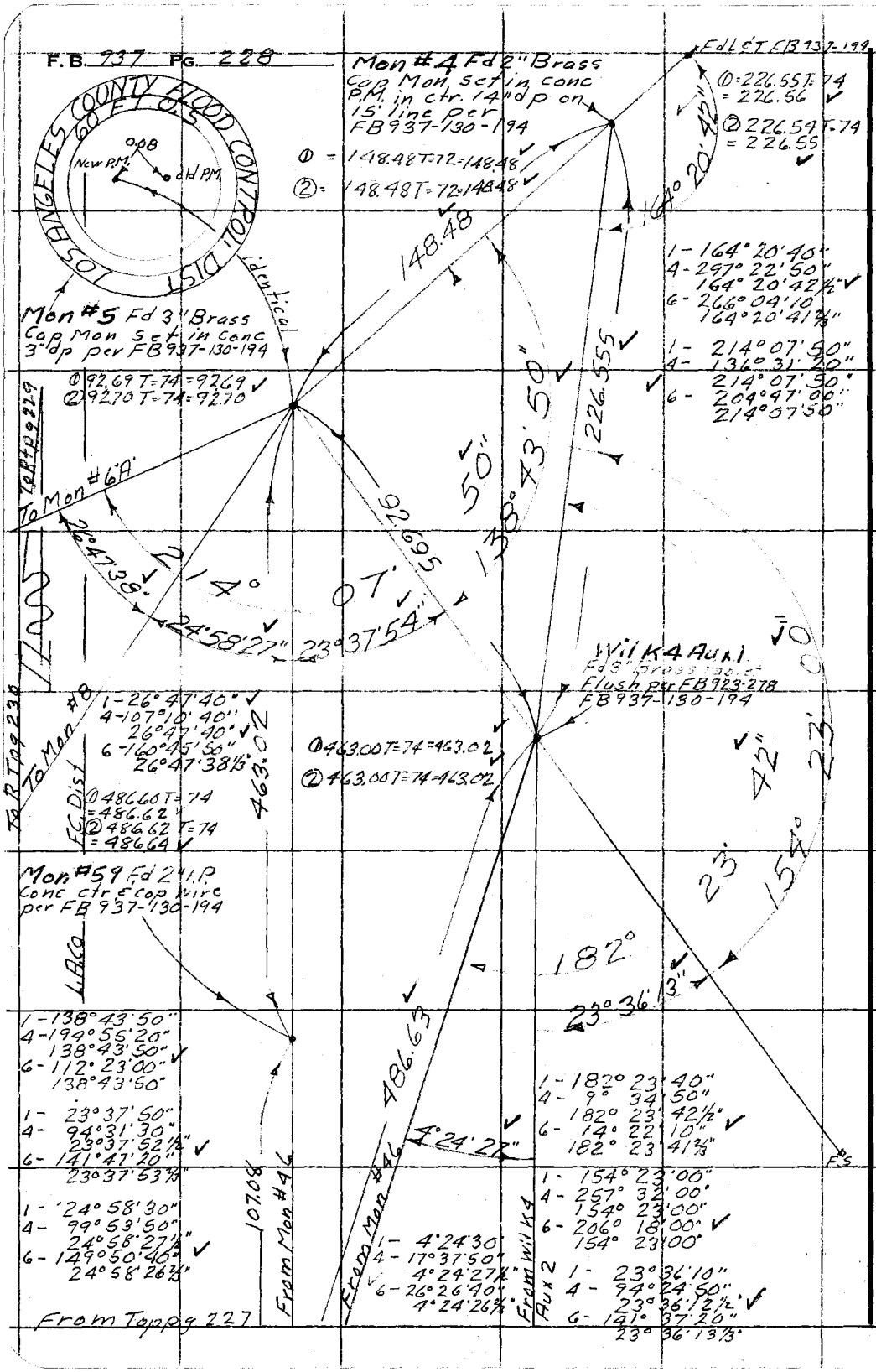


Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

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

76F3095 247 4-53

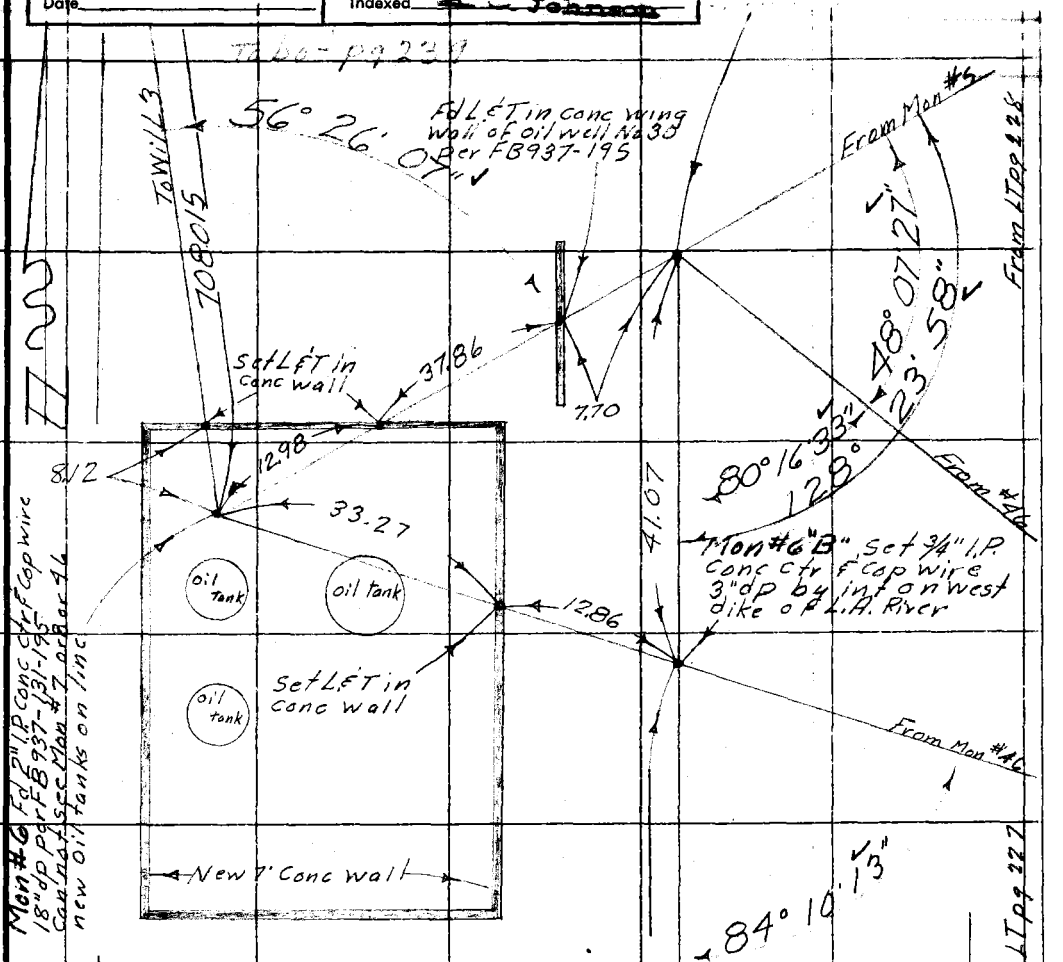


RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.
Do not extend notes this side of this line.

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

Notes Ck'd by KRM	Survey of L.B. Subsidence
Map No.	W. O. 4922 Tape No. 0137 St'd. 68 °F
Office Work	Surveyed by M.A. Van Deren
Checked	Notes Van Date 10-9-53
Date	Indexed A. C. Johnson

F.B. 937 Pg. 229



1- 48° 07' 20"
4- 192° 29' 40"
48° 07' 25" ✓
6- 288° 44' 40"
48° 07' 26⅔"

1- 80° 16' 30"
4- 321° 06' 10"
80° 16' 32½" ✓
6- 121° 39' 20"
80° 16' 33½"

1- 128° 24' 00"
4- 153° 35' 50"
128° 23' 57½" ✓
6- 50° 23' 50"
128° 23' 58⅓"

1- 84° 10' 20"
4- 336° 41' 00" ✓
84° 10' 15" ✓
6- 145° 01' 20"
84° 10' 13⅓"

1- 56° 26' 10"
✓4- 225° 44' 30" ✓
56° 26' 07½"
6- 338° 35' 40
56° 26' 06⅔"

① 329.75 T=100° = 329.82 ✓
② 329.76 T=100° = 329.83 ✓

PICO AVE

329.825

To Mon #7A

LA CO. F.C. CHANNEL

To Top Pg 230

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

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

76F309S 247 4-53

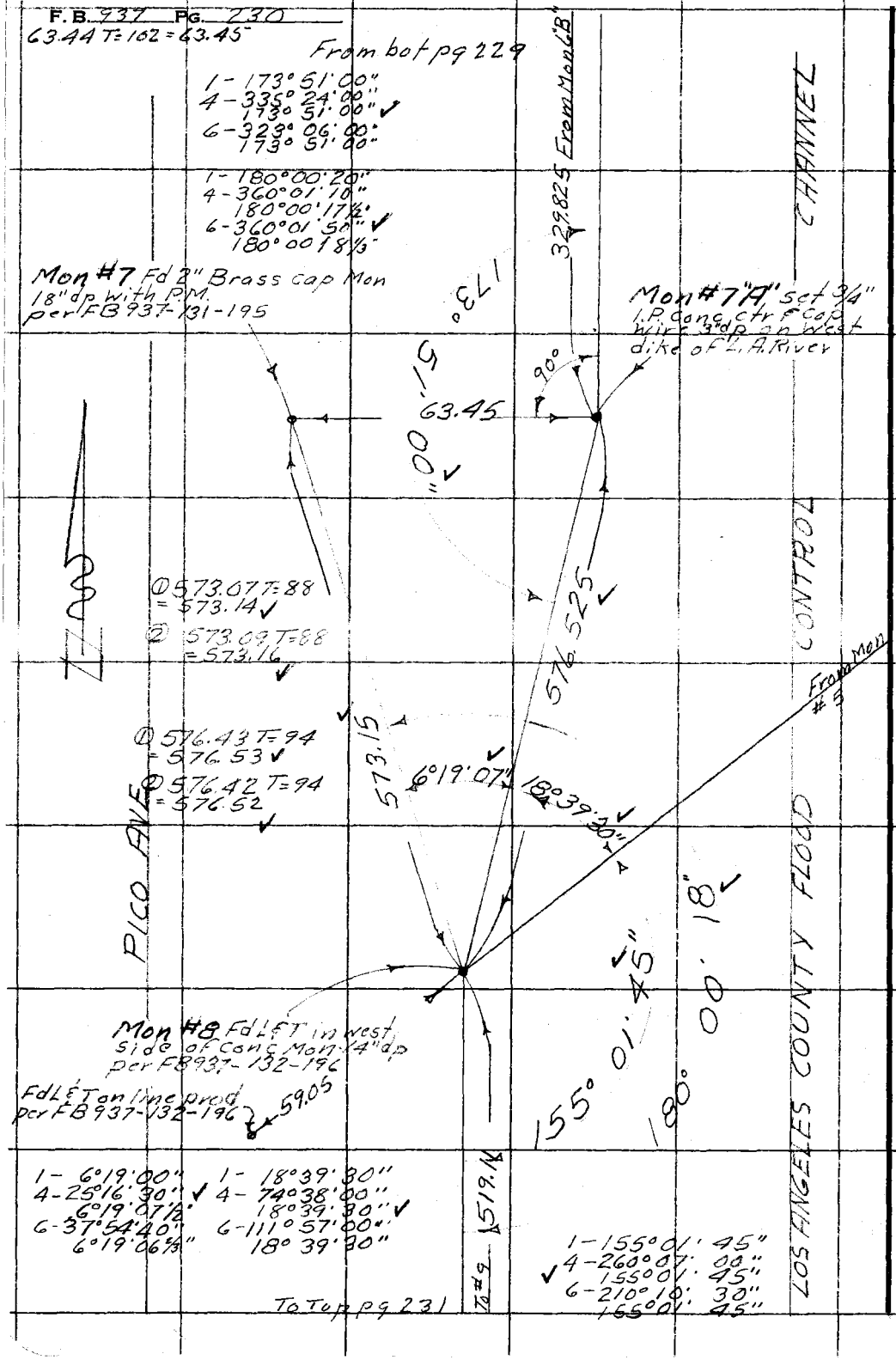
F.B. 937 PG. 230

63.44 T=102 = 63.45

From bot pg 229

1 - 173° 51' 00"
4 - 335° 24' 00"
173° 51' 00" ✓
6 - 323° 06' 00"
173° 51' 00"

1 - 180° 00' 20"
4 - 360° 01' 10"
180° 00' 17½"
6 - 360° 01' 50" ✓
180° 00' 18⅓"



1 - 6°19'00"
4 - 25°16'30" ✓
6°19'07½"
6 - 37°54'40"
6°19'06⅔"

1 - 18°39'30"
4 - 74°38'00"
18°39'30" ✓
6 - 111°57'00"
18°39'30"

1 - 155°01'45"
✓ 4 - 260°07'00"
155°01'45"
6 - 210°10'30"
155°01'45"

To Top pg 231

RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.
Do not extend notes this side of this line.

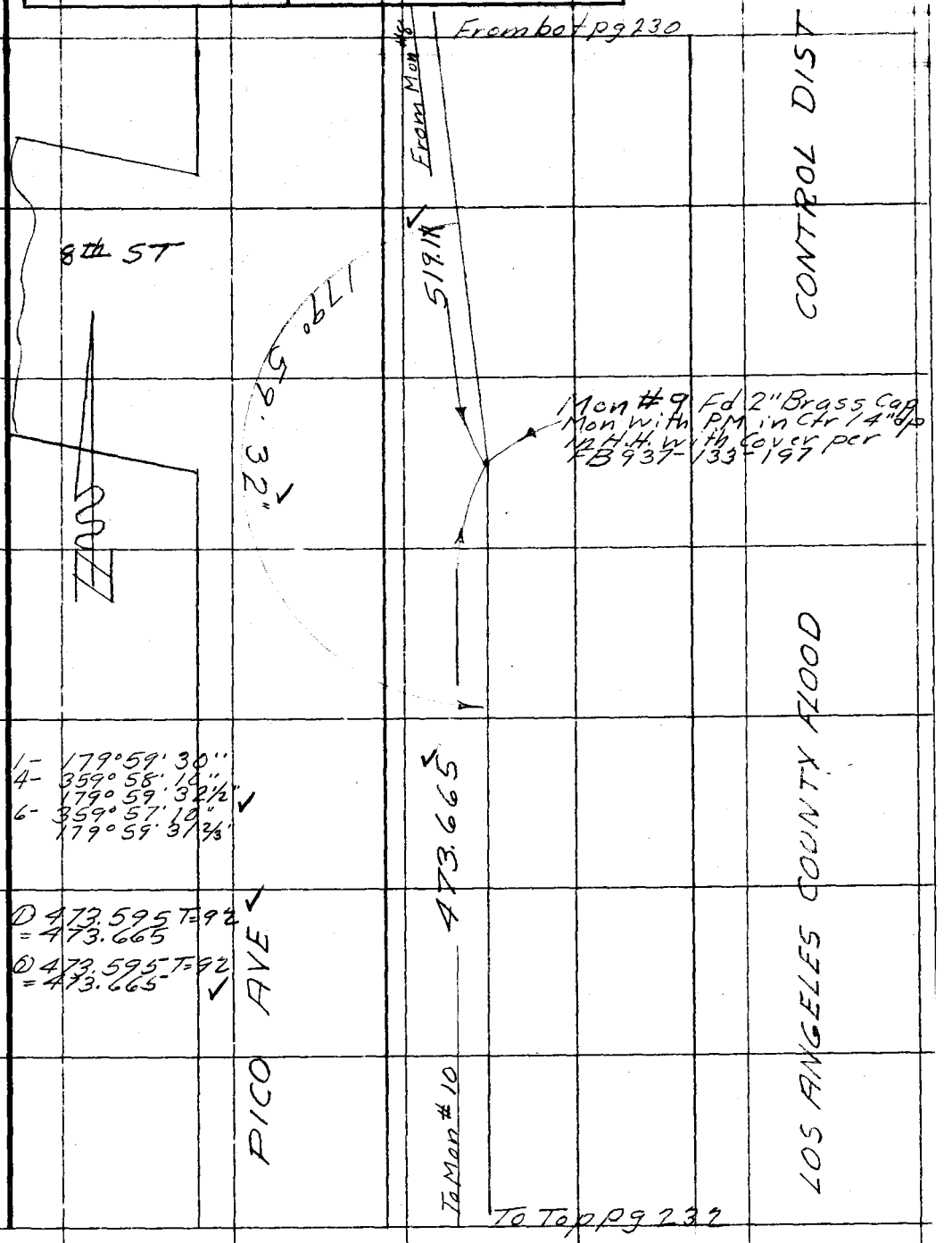
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by KRM	Survey of L. B. Subsidence
Map No.	W. O. 4922 Tape No. 0137 St'd. 68 °F
Office Work	Surveyed by M. A. VanDeren
Checked	Notes Van Date 10-5-53
Date	Indexed E. C. Johnson

F. B. 937 PG. 231

① 519.02 T=94
= 519.11 ✓

② 519.02 T=94
= 519.11 ✓



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

Do not extend notes this side of this line.

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

76F3095 247 4-53

F.B. 937 PG. 232

From bot pg 231

473.65 From Mon #9

Mon #10 Fd 2" Brass Cap
Mon 12" dp in H.H. with PM
on West side of Brass
cap Mon per FB937-134-198

7th ST

96° 28' 55"

19.95

700.1 To Wilk 4
Aux 2

From LT09 224

Mon #11 Fd 2" I.P.
Conc Ctr & Cap wire
12" dp per FB 937-134-198

7th ST
BRIDGE

1- 96° 29' 00"
4- 25° 55' 40"
96° 28' 55"
6- 218° 53' 30"
96° 28' 55"

PICO AVE

287.26

To Mon #12

① 287.215 T=92
287.265

② 287.205 T=92
287.255

To Top pg 233

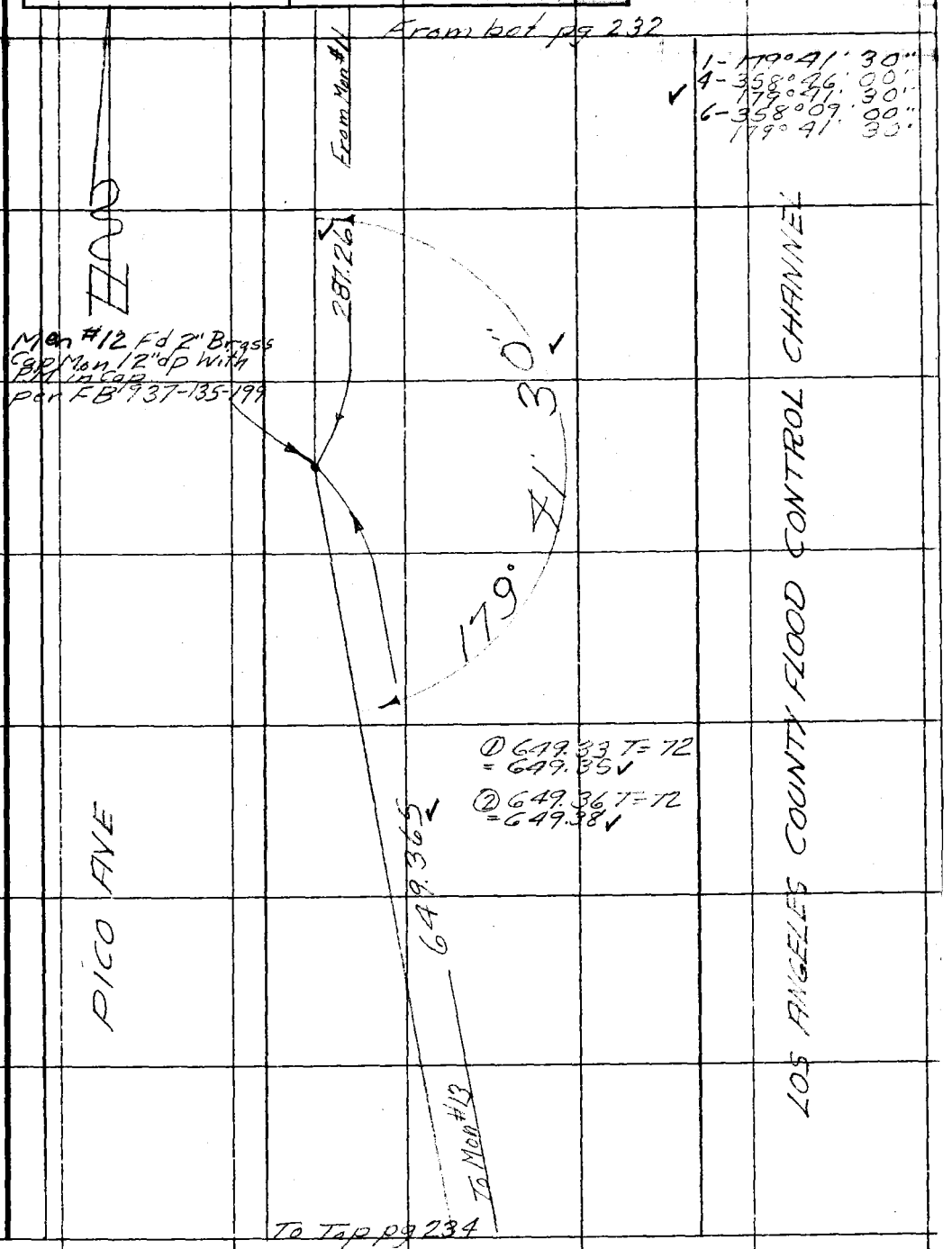
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

Do not extend notes this side of this line.

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

Notes Ck'd by KRM	Survey of L.B. Subsidence
Map No.	W. O. 4923 Tape No. 0137 St'd. 68 °F
Office Work	Surveyed by M.A. Van Der Ch
Checked	Notes Van Date 10-13-53
Date	Indexed A. C. Johnson

F. B. 937 PG. 233



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

Do not extend notes this side of this line.

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

76F309S 247 4-53

F.B. 937 PG. 234

From bot pg 233

1- 179°2[illegible]'40"
4- 357°51'00"
179°22'45" ✓
6- 356°16'30"
179°22'45"

From Mon #12

649.365

179° 22' 45" ✓

Mon #13 Fd 3/4" I.P.
Conc. ctr F Cap wire
18" dp per FB 937-136-200

PICO AVE

① 671.25 T=74=671.28 ✓
② 671.27 T=74 671.30 ✓

671.29 ✓

179° 40' 33" ✓

Mon #14 Fd 2" Brass
Cap Mon in H.H. with Cover
per FB 937-136-200

391.76 ✓

① 391.76 T=68= 391.76 ✓
② 391.765 T=68= 391.765 ✓

To Top pg 235

1- 179° 40' 30"
4- 358° 42' 10"
179° 40' 32½"
6- 358° 03' 20"
179° 40' 33⅓"

LOS ANGELES COUNTY FLOOD CONTROL CHANNEL

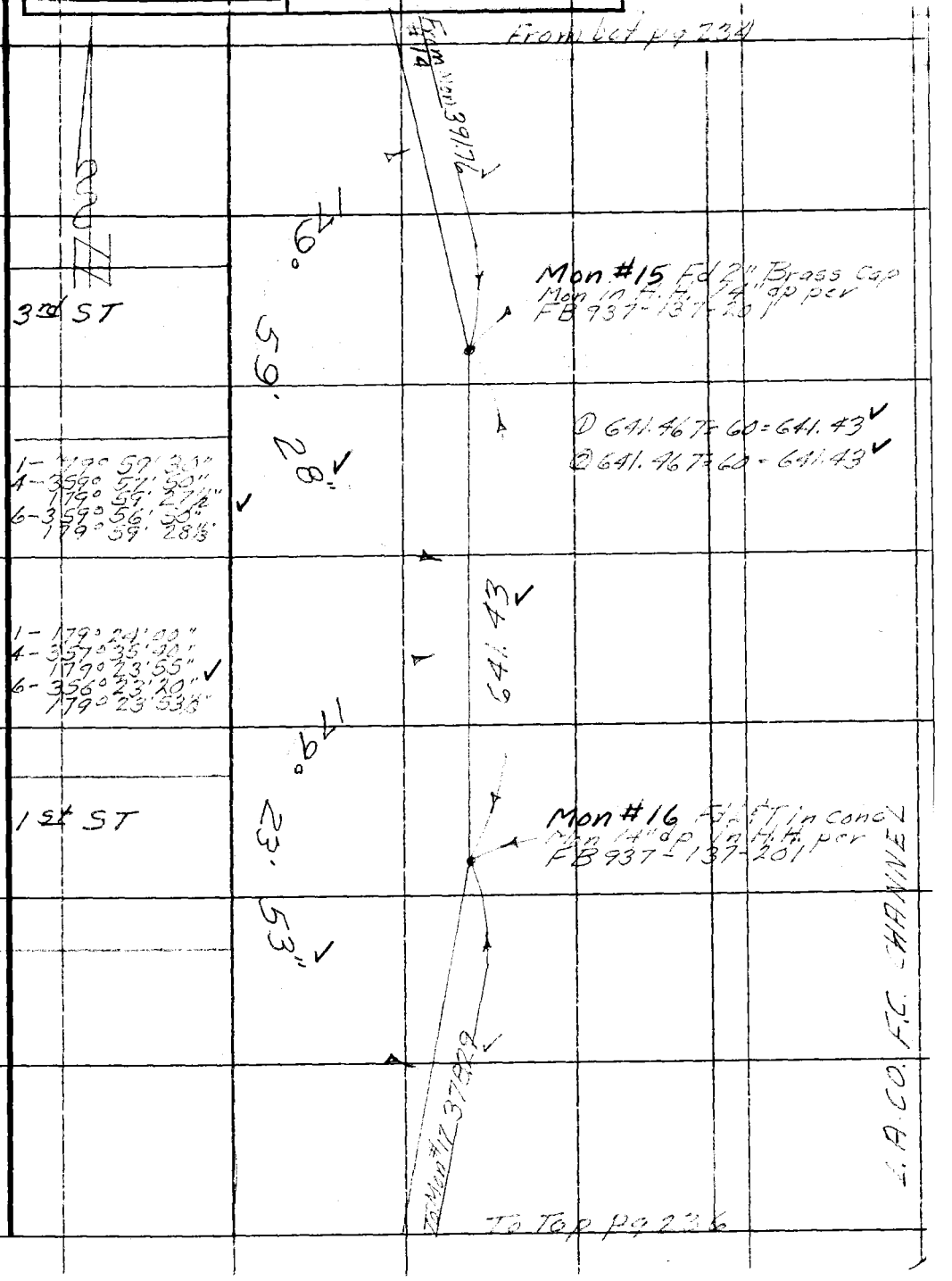
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

Do not extend notes this side of this line.

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

Notes Ck'd by KRM	Survey of L.B. Subsidence
Map No.	W. O. 1222 Tape No. 0137 St'd. 68 °F
Office Work	Surveyed by [illegible]
Checked	Notes [illegible] Date [illegible]
Date	Indexed [illegible]

F. B. 937 Pg. [illegible]



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

Do not extend notes this side of this line.

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

76F3095 247 4-53

F.B. 937 PG. 236

From top pg 235

1-378.29 T=70 = 378.29 ✓
2-378.29 T=70 = 378.29 ✓

Mon #17 Fd 5 F/W
24" dp per FB 937-38-202

OCEAN AVE

Mon #18 destroyed

83° 20' 55" ✓

1- 584.025 T=70 584.035 ✓
2- 584.03 T=70 = 584.04 ✓

1- 179° 17' 00"
4- 357° 08' 00"
179° 17' 00" ✓
6- 355° 42' 00"
179° 17' 00"

1- 83° 21' 00"
4- 333° 23' 40"
83° 20' 55" ✓
6- 140° 05' 30"
83° 20' 55"

To Top pg 237

378.29 From Mon #16

179° 17' 00" ✓

To Mon #20

584.035 ✓

CONTROL CHANNEL

LOS ANGELES COUNTY FLOOD

RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.
Do not extend notes this side of this line.

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

76F3098 247 4-53

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

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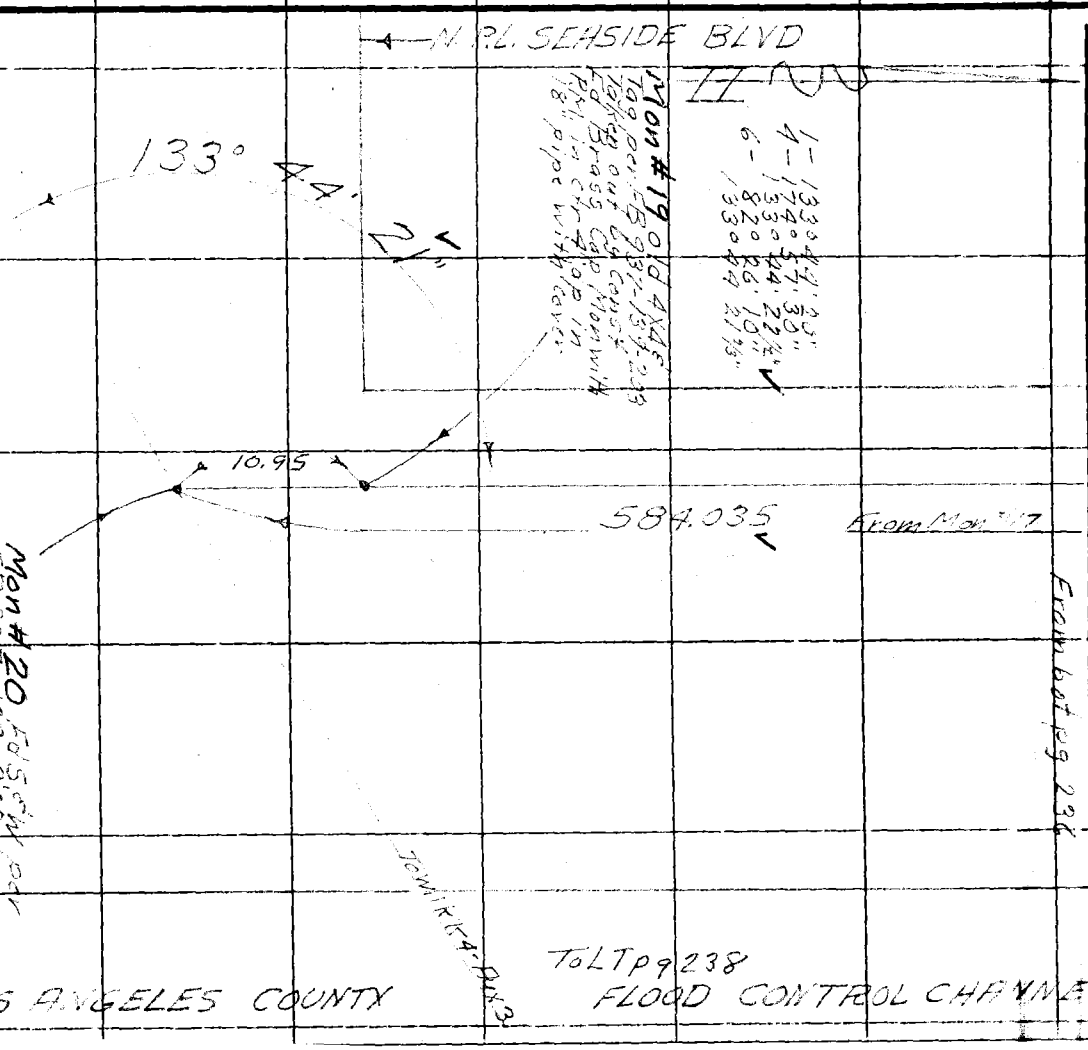
Do not extend notes this side of this line.

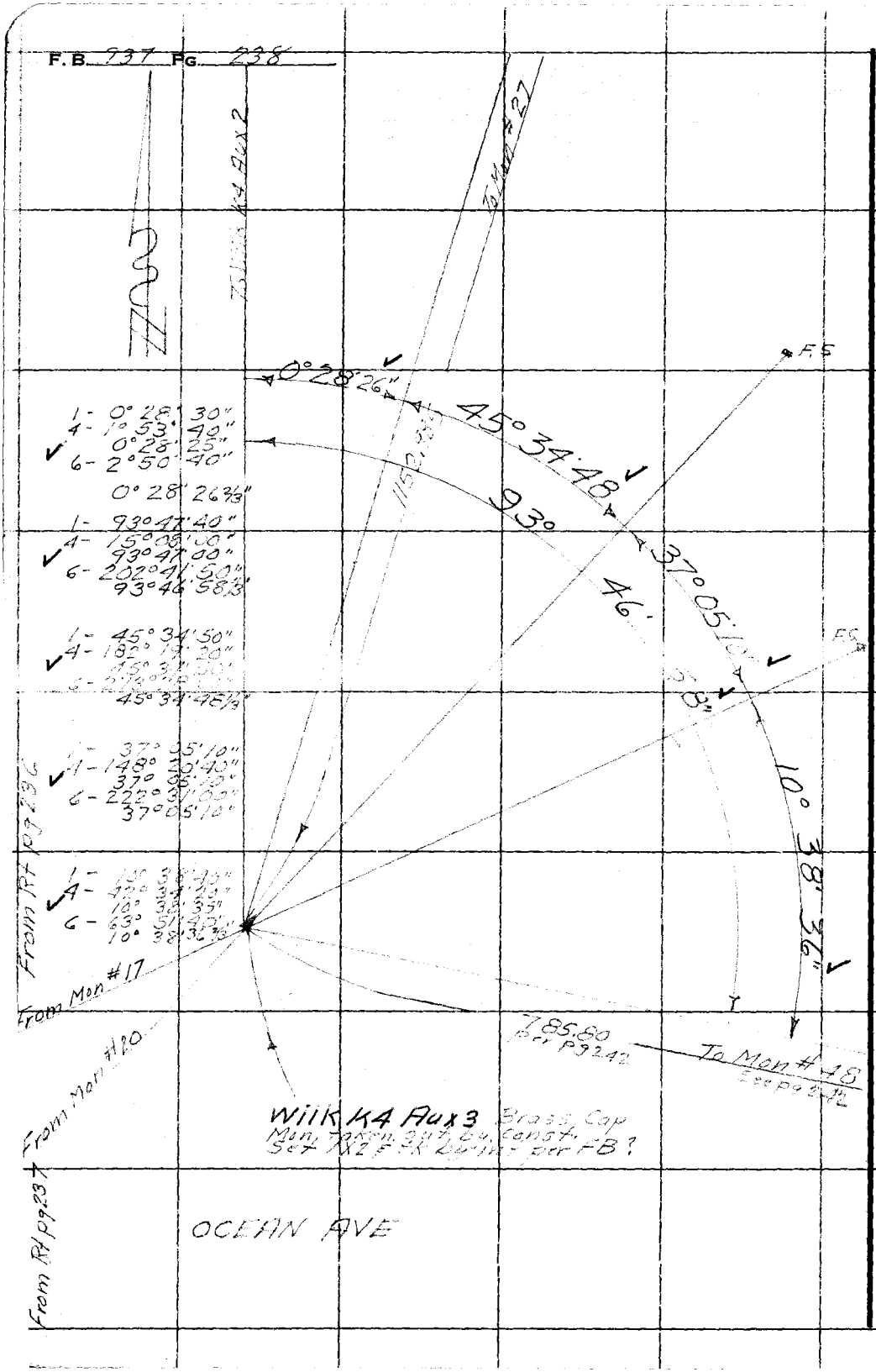
Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of
W. O. Tape No. Sr'd. of
Surveyed by
Notes Date
Indexed

F. B. PG.



F.B. 937 Pg. 238



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

Do not extend notes this side of this line.

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

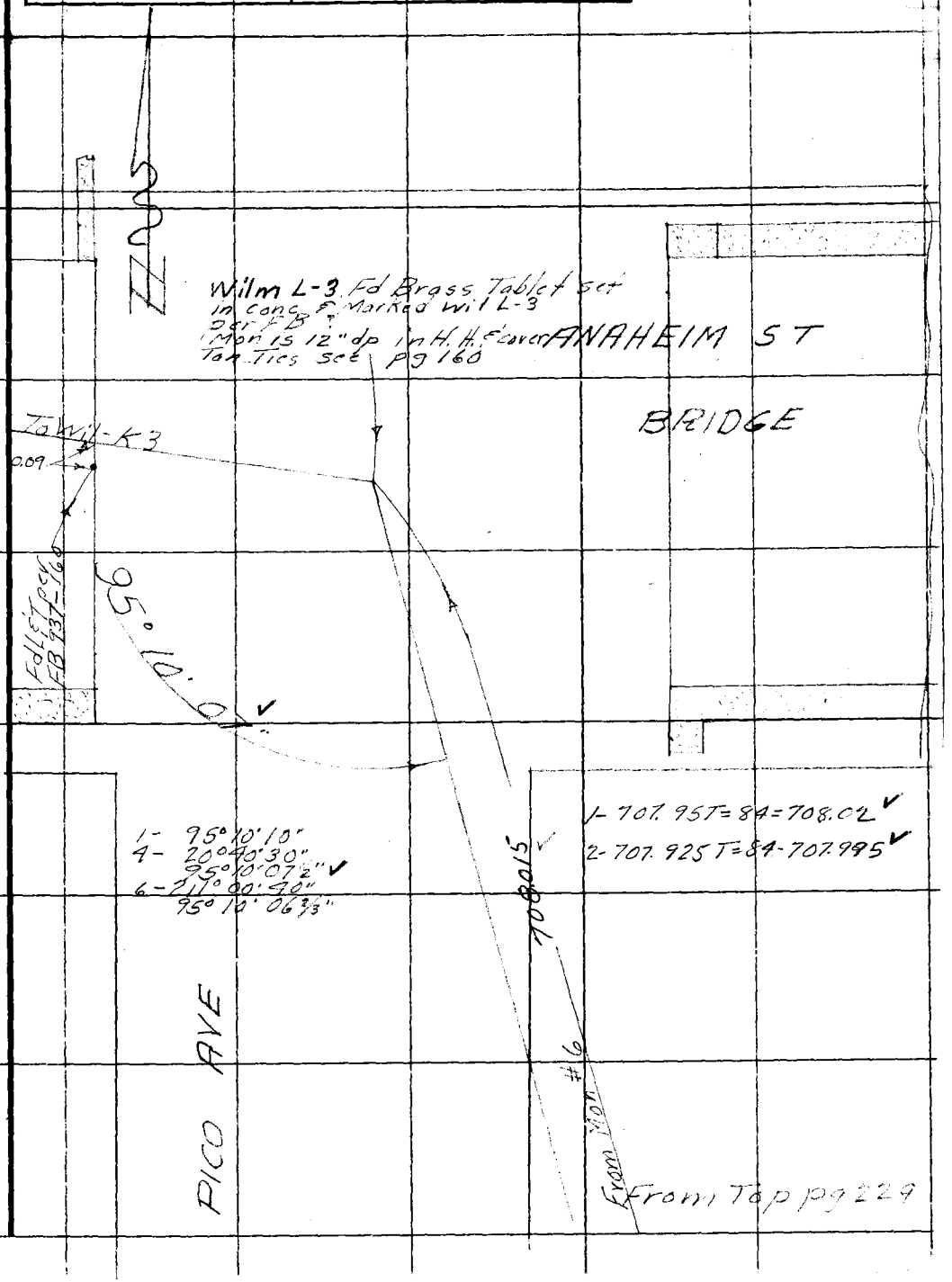
Notes Ck'd by KRM	Survey of L.B. Subdivision
Map No.	W. O. 4922 Tape No. 137 St'd. 68 °F
Office Work	Surveyed by
Checked	Notes Date
Date	Indexed

F. B. Pg.

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

Do not extend notes this side of this line.

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



76FSOBS 247 4-53

F. B. 937 PG. 240

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

Do not extend notes this side of this line.

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

Notes Ck'd by	Survey of L.B. Subsidence
Map No.	W. O. 4922 Tape No. 0137 St'd. 68 °F
Office Work	Surveyed by M. Hamilton
Checked	Notes [illegible] Date 10-53
Date	Indexed

F. B. 937 PG.

NOV 10 '53

JN 4922

LONG BEACH SUBSIDENCE

TRAVERSE LINE No 2 GOLDEN AVE

Tape #0137 - 22½ @ 68° Temp taken on tape

THIRD RUN ON THIS LINE

FOR FIRST RUN SEE FB 937-143-152
FOR SECOND RUN SEE FB 937-207-216

10- -53
M. A. Van Deren
W. Richards
K. Myers
R. Sherry

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

Do not extend notes this side of this line.

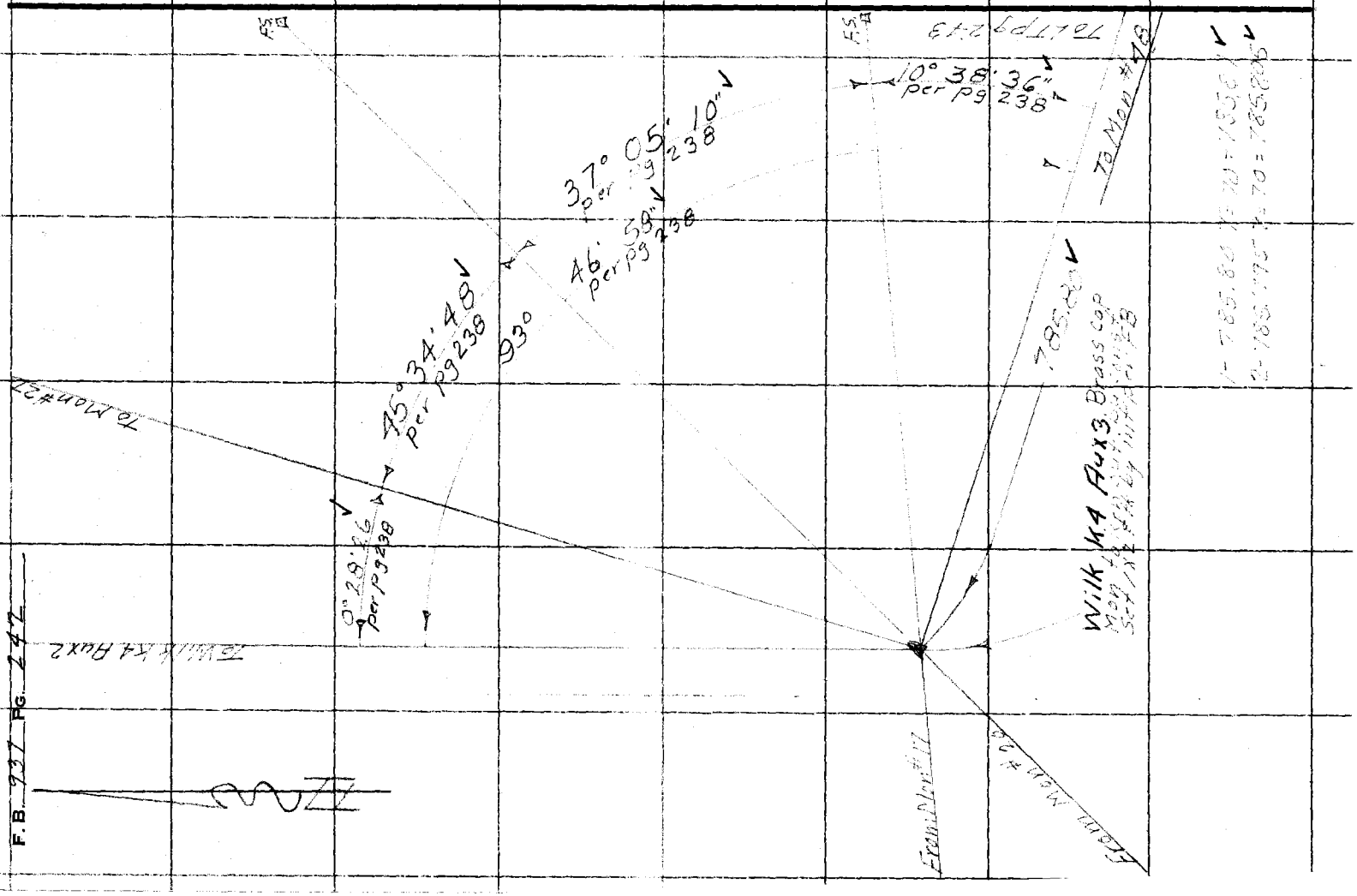
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3095 247 4-53

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

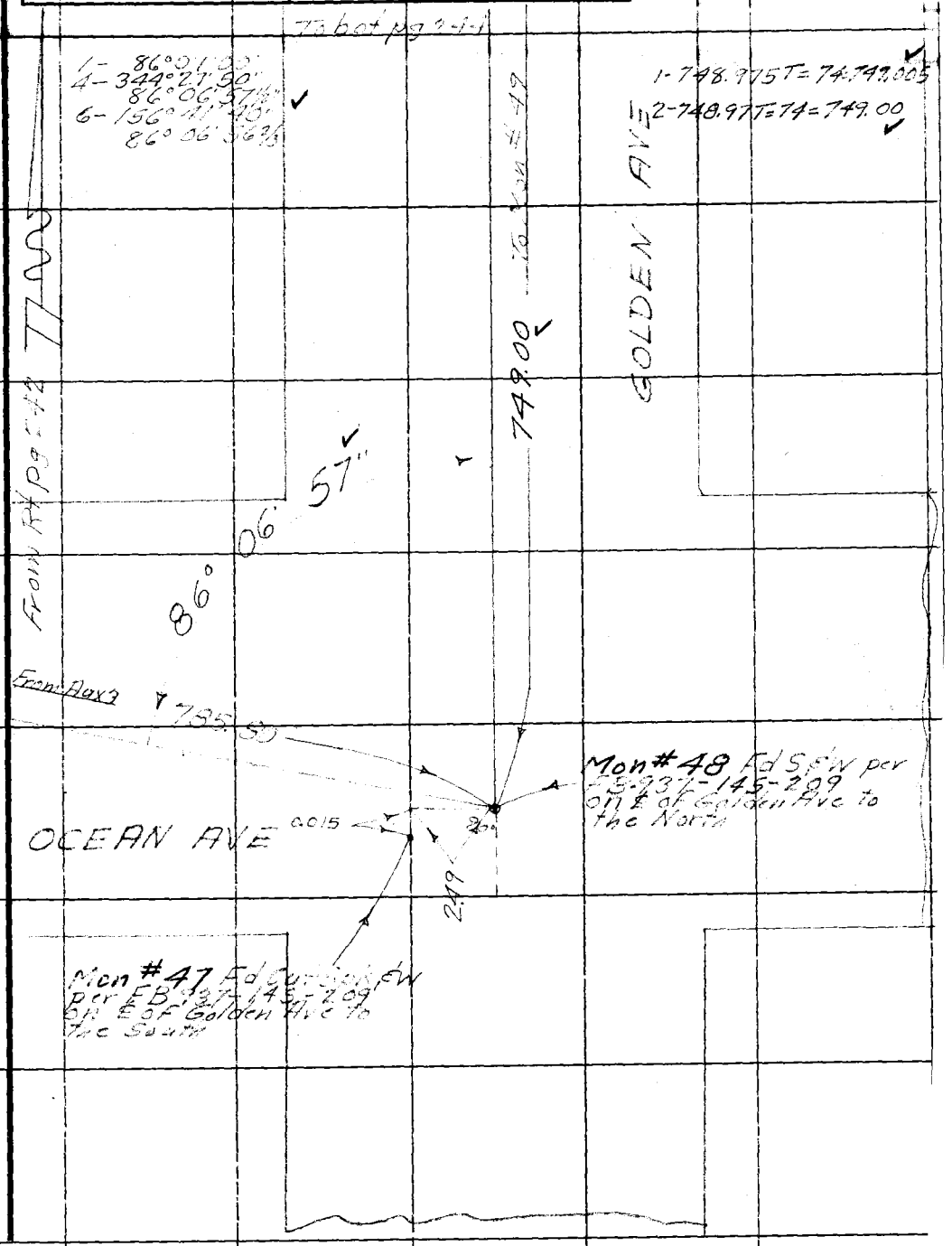
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.



Notes Ck'd by KRM	Survey of L.B. Subsidence
Map No.	W. O. [illegible] Tape No. 0137 St'd. 68 °F
Office Work	Surveyed by [illegible]
Checked	Notes Van Date [illegible]
Date	Indexed [illegible]

F. B. [illegible] PG. [illegible]



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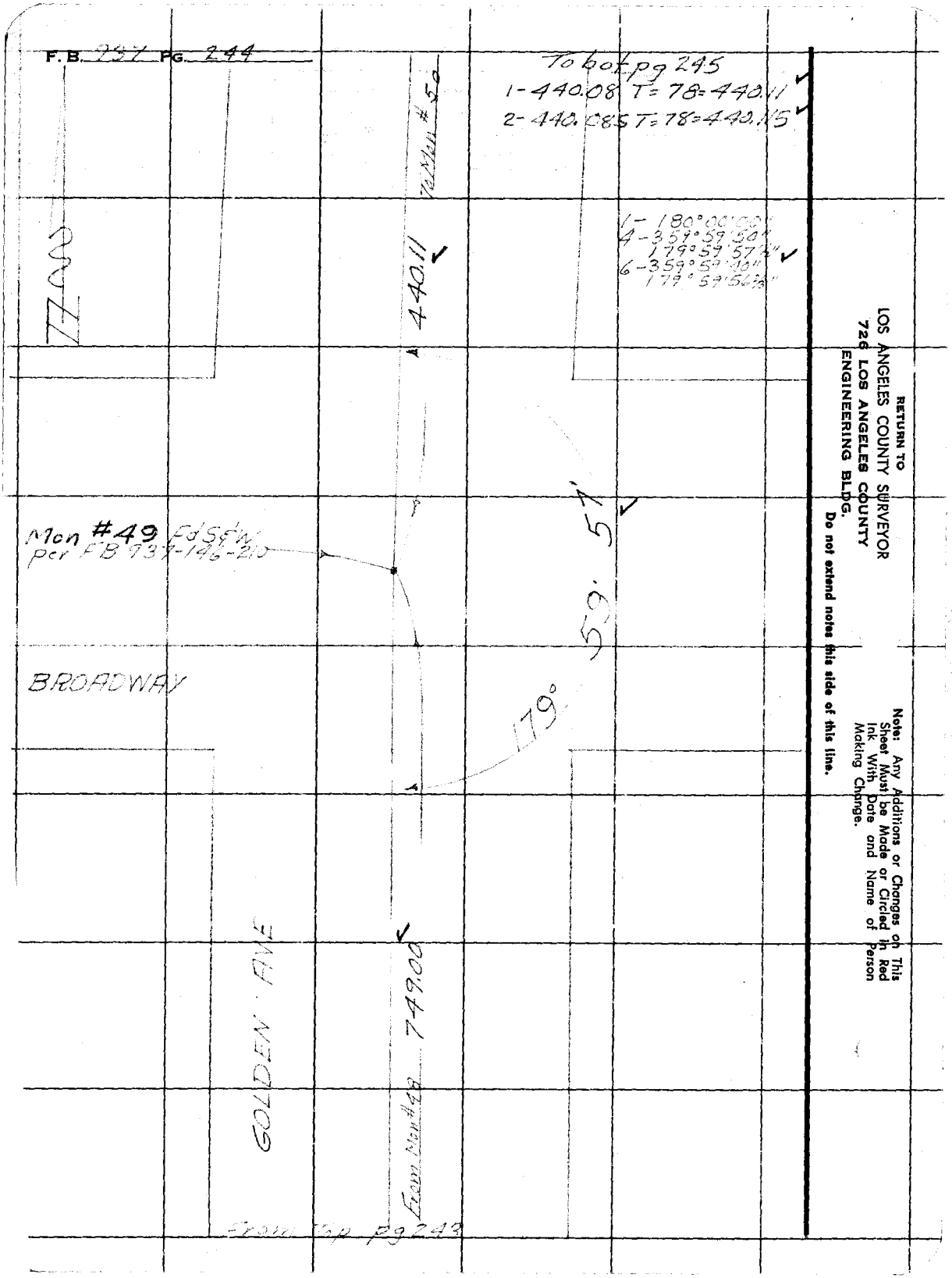
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F309S 247 4-53

F.B. 937 PG. 244



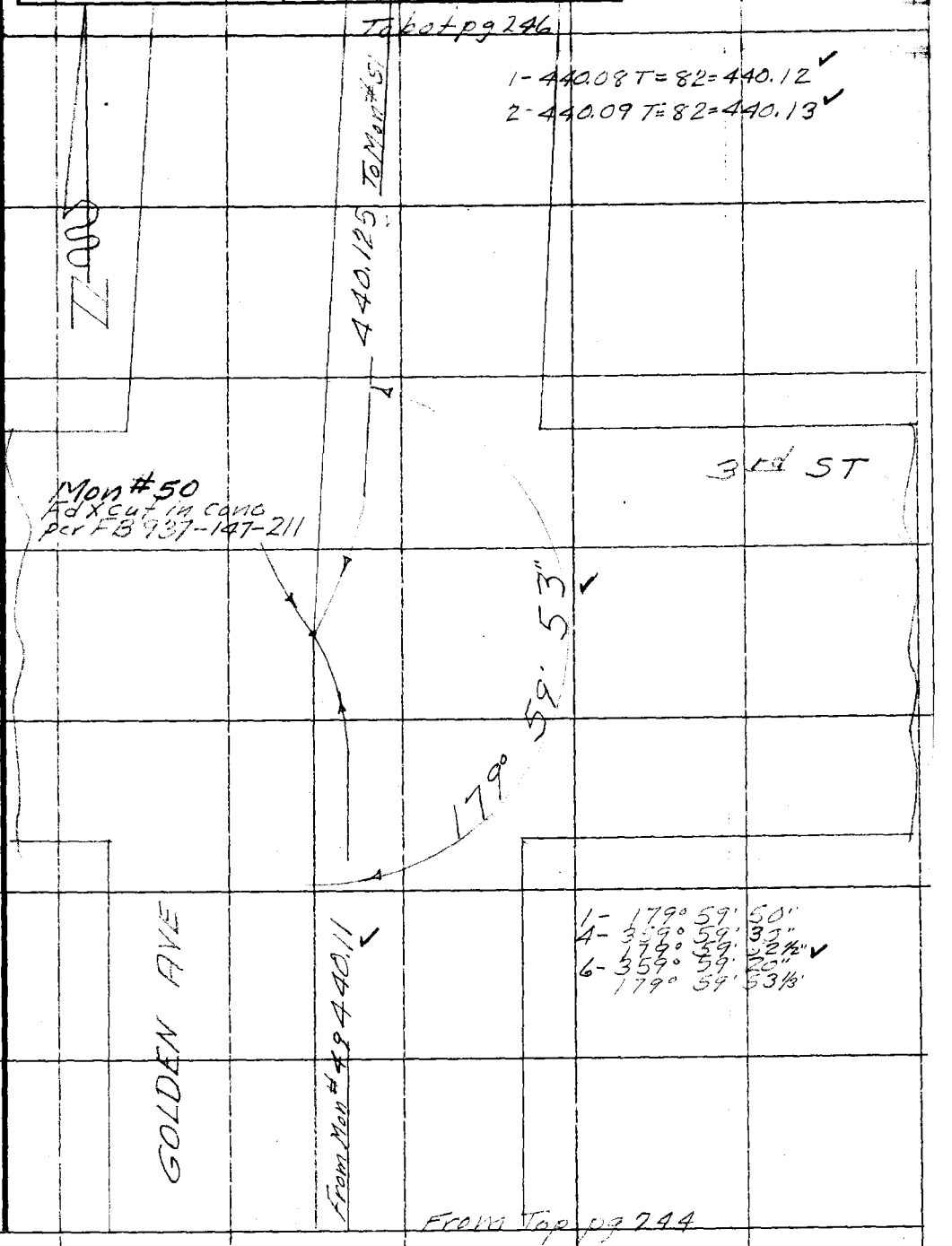
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

Do not extend notes this side of this line.

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

Notes Ck'd by KRM	Survey of L.B. Subsidence
Map No.	W. O. 4922 Tape No. 0137 St'd. 68 °F
Office Work	Surveyed by M.A. Van Deren
Checked	Notes Van Date 10-22-53
Date	Indexed

F.B. 937 PG. 245



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

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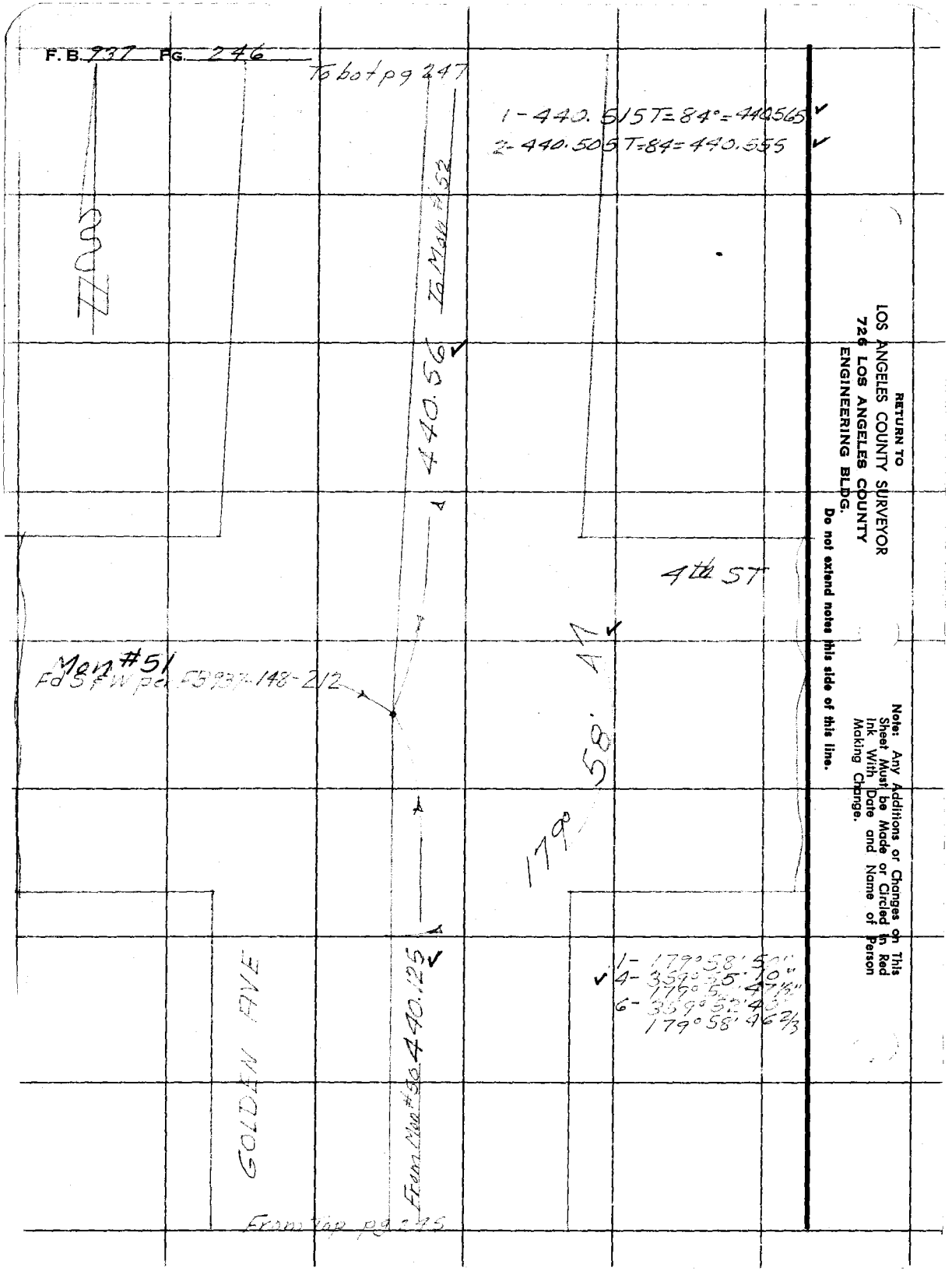
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3098 247 4-53

F.B. 937 PG. 246



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

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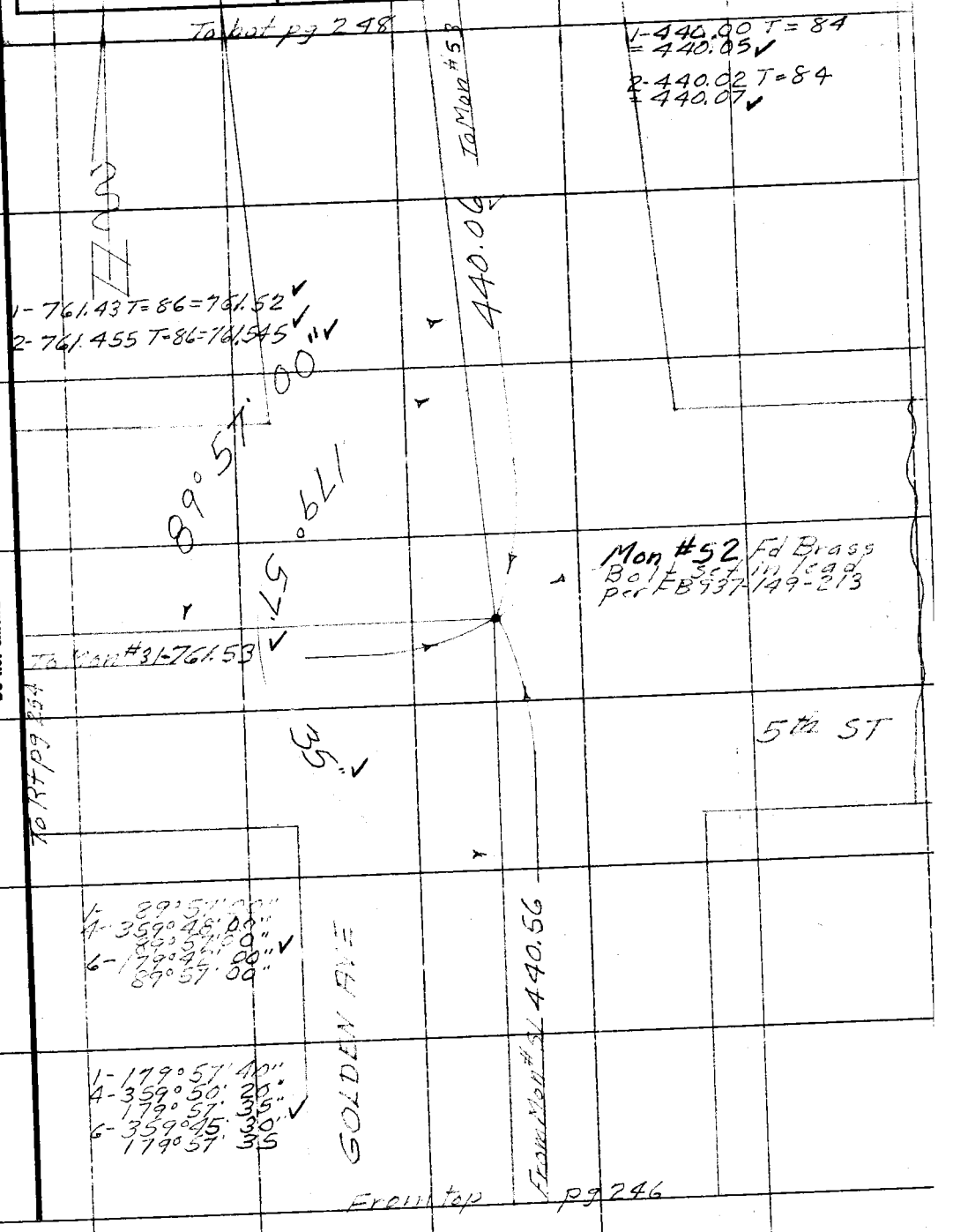
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

F. B. ___ PG. ___

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

Survey of L.B. Subsidence
W. O. 4922 Tape No. 4137 St'd. 68 °F
Surveyed by M.H. VanDeren
Notes Van Date 10-21-53
Indexed A. O. Johnson



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

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

76F3098 247 4-53

F.B. 937 PG. 248

To Dot pg

249

1-440.18T=84=440.23 ✓

2-440.185T=84=440.235 ✓

To Mon #54

440.23 ✓

Mon #53

FB 937-185-214

180° 00' 00"

6th ST

GOLDEN AVE

440.06 ✓

From Mon #52

From Top pg 247

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

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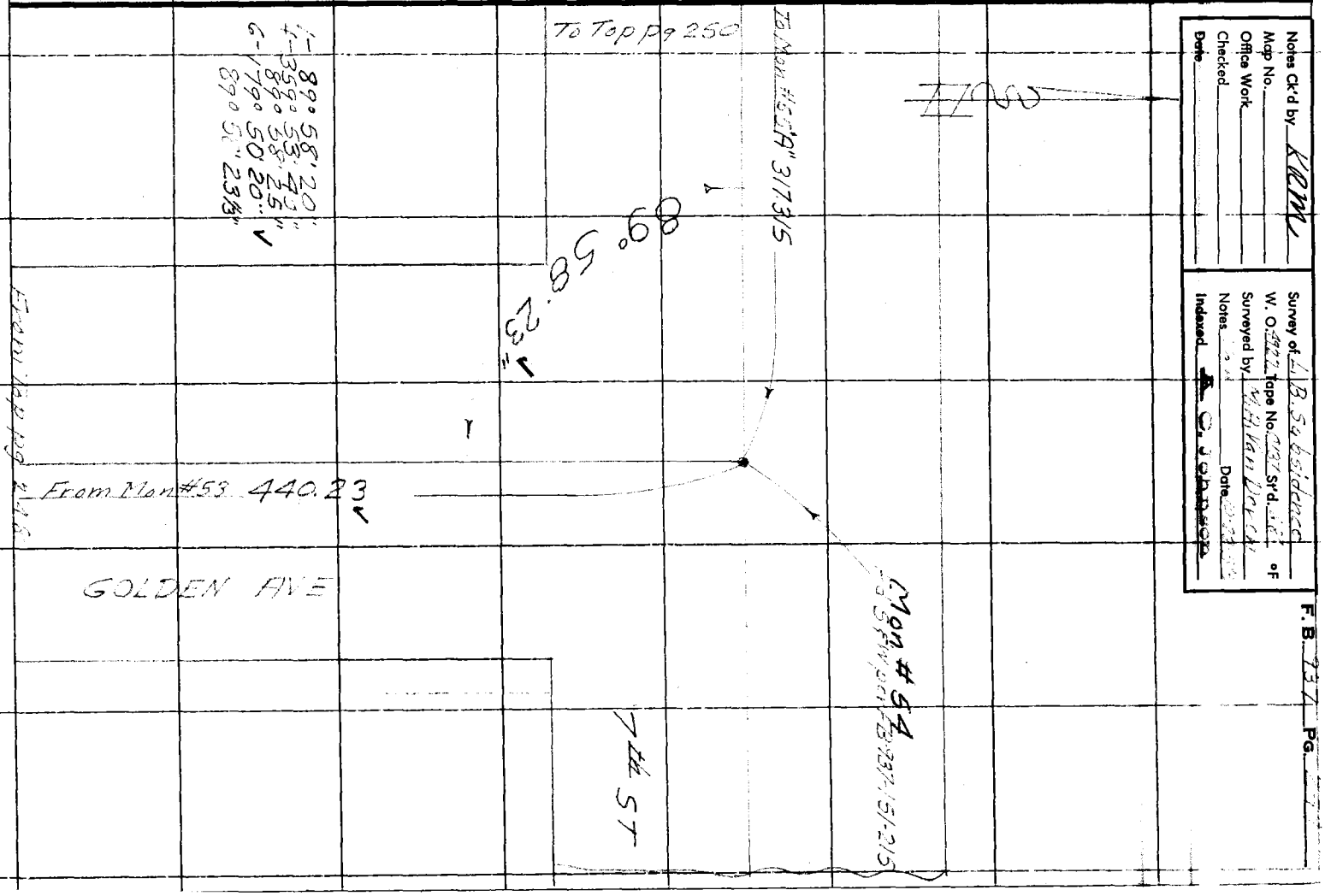
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

76F3095 247 4-53

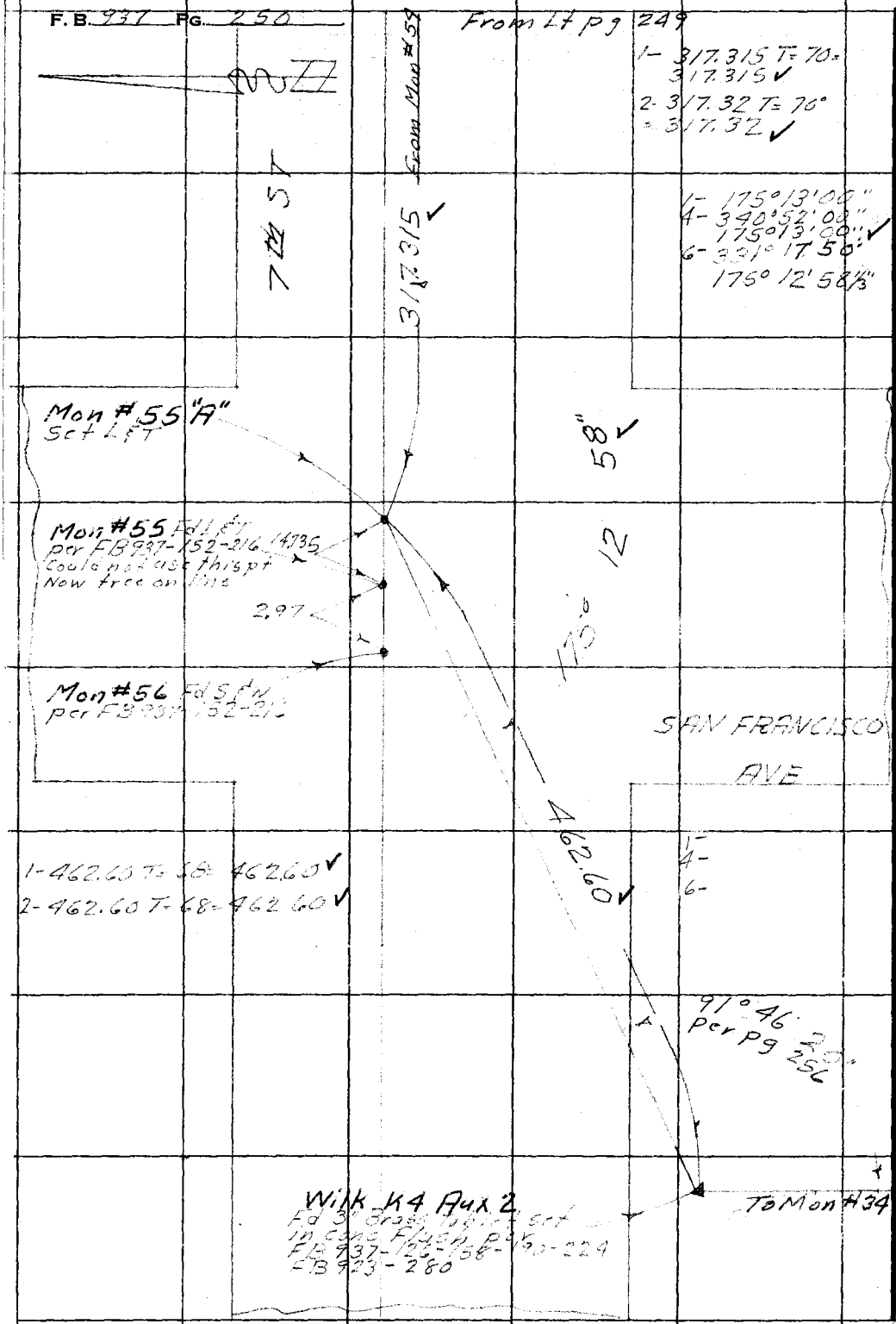
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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. 937 PG. 250



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

Do not extend notes this side of this line.

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

Notes Ck'd by KRM	Survey of L.B. Subsidence
Map No.	W. O. 1000 Tape No. 0137 Sr'd. 68 °F
Office Work	Surveyed by M.A. VanDeren
Checked	Notes Date 10-20-53
Date	Indexed A. C. Johnson

F.B. 737 PG. 251

NOV 10 '53

JN 4922

LONG BEACH SUBSIDENCE

TRAVERSE LINE No 3

Tape # 0137 - 22½ @ 68 Temp taken on tape

THIRD RUN ON THIS LINE

FOR FIRST RUN SEE FB 937-153 TO 158
FOR SECOND RUN SEE FB 937-217 TO 222

10- -53
M.A. VanDeren
W. Richards
K. Myers
R. Skerry

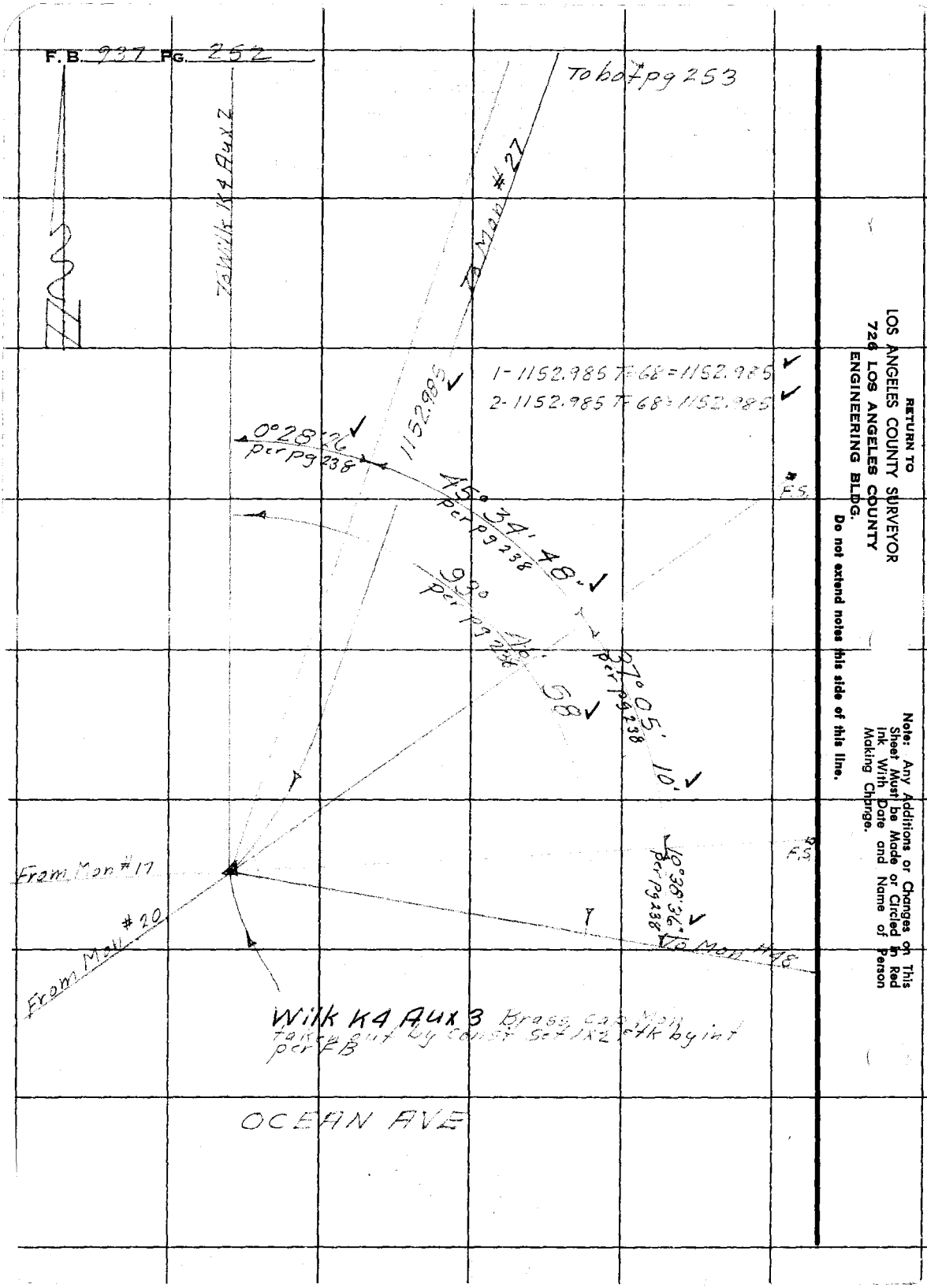
"Note" line from Aux 3 To Aux 2 May be no good as heavy equipment working on line. It took 3 days to get this line out.

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

Do not extend notes this side of this line.

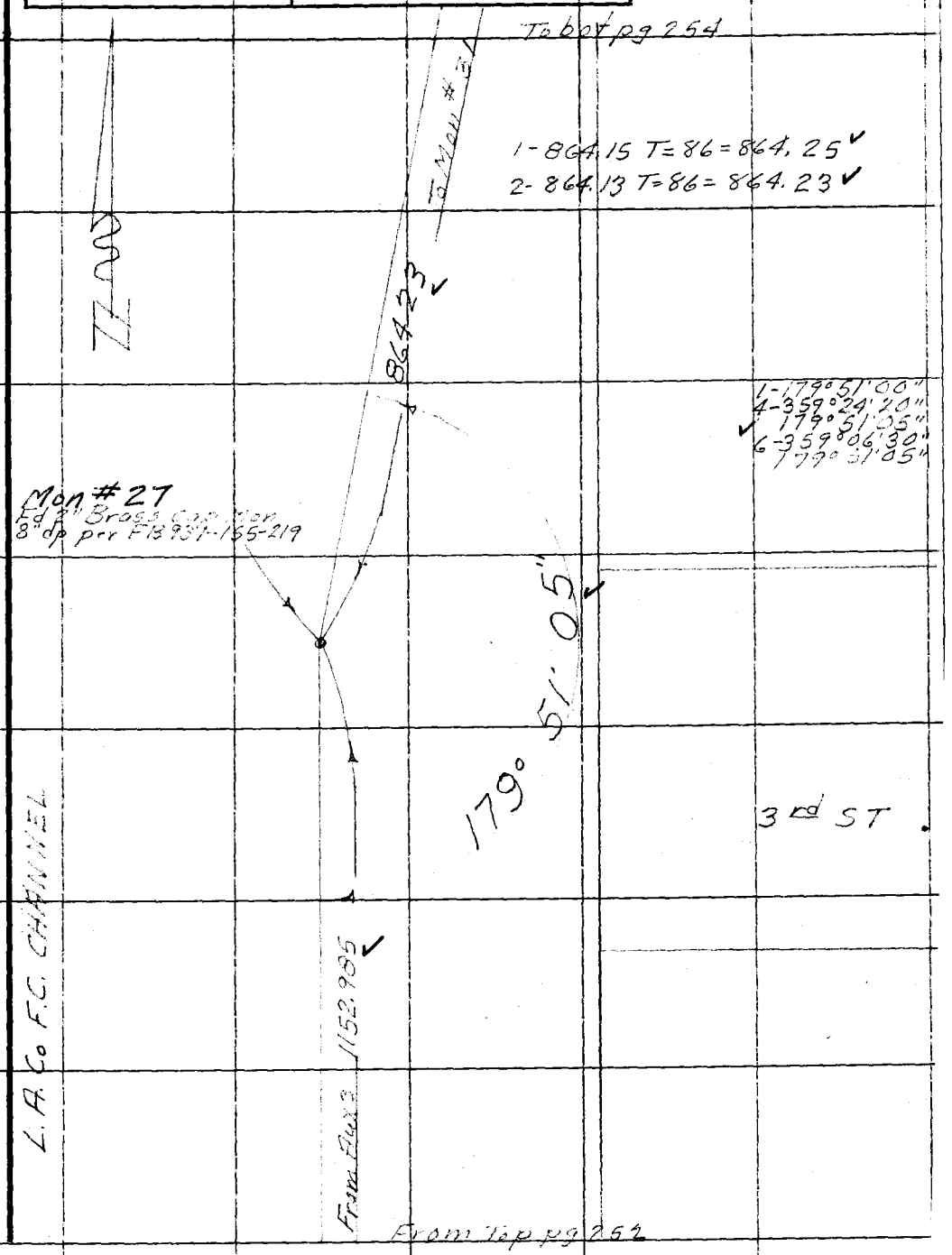
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3098 247 4-53


F.B. 937 Pg. 252
To bot pg 253
To Wilk K4 Aux 2
To Mon #27
1152.985
1- 1152.985 T-68 = 1152.985
2- 1152.985 T-68 = 1152.985
0°28'26"
per pg 238
45°34'48"
per pg 238
93°
per pg 238
37°05'
per pg 238
10'
58
F.S.
F.S.
From Mon #17
From Mon #20
10°38'36"
per pg 238
To Mon #48
Wilk K4 Aux 3 Brass cap Mon
taken out by Const Set 1x2 stk by int
per FB
OCEAN AVE
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.
Do not extend notes this side of this line.
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by KRM	Survey of L.B. Subsidence
Map No.	W. O. 4922 Tape No. 0137 St'd. 68 °F
Office Work	Surveyed by M.H. Van Deren
Checked	Notes [illegible] Date [illegible]
Date	Indexed

F. B. 757 PG. [illegible]

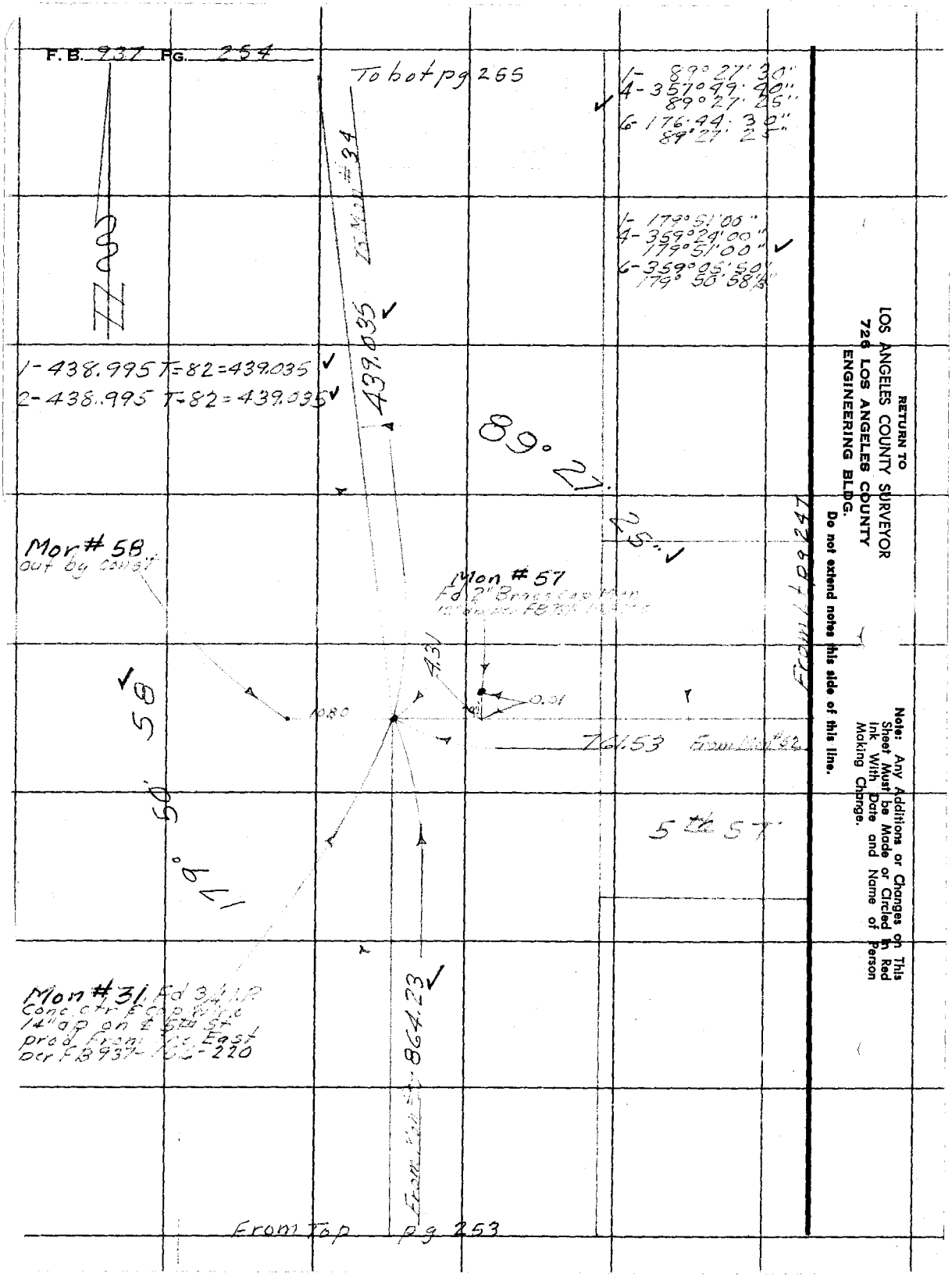


Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

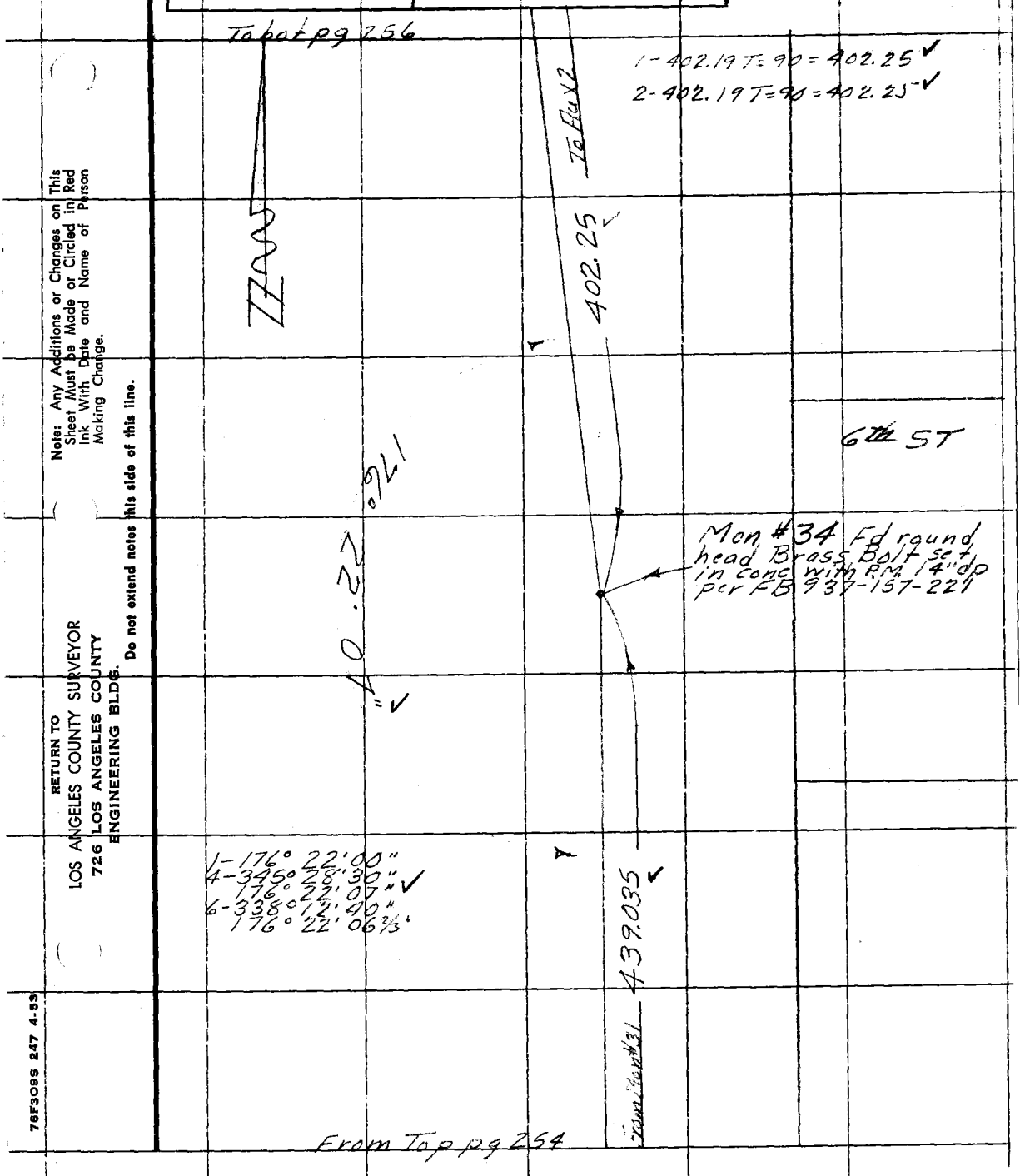
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3095 247 4-53


F.B. 937 PG. 254
To bot pg 255
1- 89°27'30"
4- 357°49'40"
89°27'25"
6- 176°44'30"
89°27'25"
1- 179°51'00"
4- 359°24'00"
179°51'00"
6- 359°05'50"
179°50'58½"
1- 438.995 T=82=439.035
2- 438.995 T=82=439.035
439.035
89°27'25"
Mor # 58
out by const
Mon # 57
Fd 2" Brass Cap Mon
4.31
0.01
1080
761.53
From Mon #52
5th ST
179°50'58"
Mon #31 Fd 3¼ I.P.
Conc ctr & cap Wire
14" dp on ℄ 5th St
prod From The East
per FB 937-[illegible]-220
864.23
From Top pg 253
From Lt pg 247
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.
Do not extend notes this side of this line.
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by KRM	Survey of L.B. Subsidence
Map No.	W. O. 4922 Tape No. 0137 St'd. 68 °F
Office Work	Surveyed by M.A. VanDeren
Checked	Notes Van Date 10-63
Date	Indexed

F.B. 737 PG. 255



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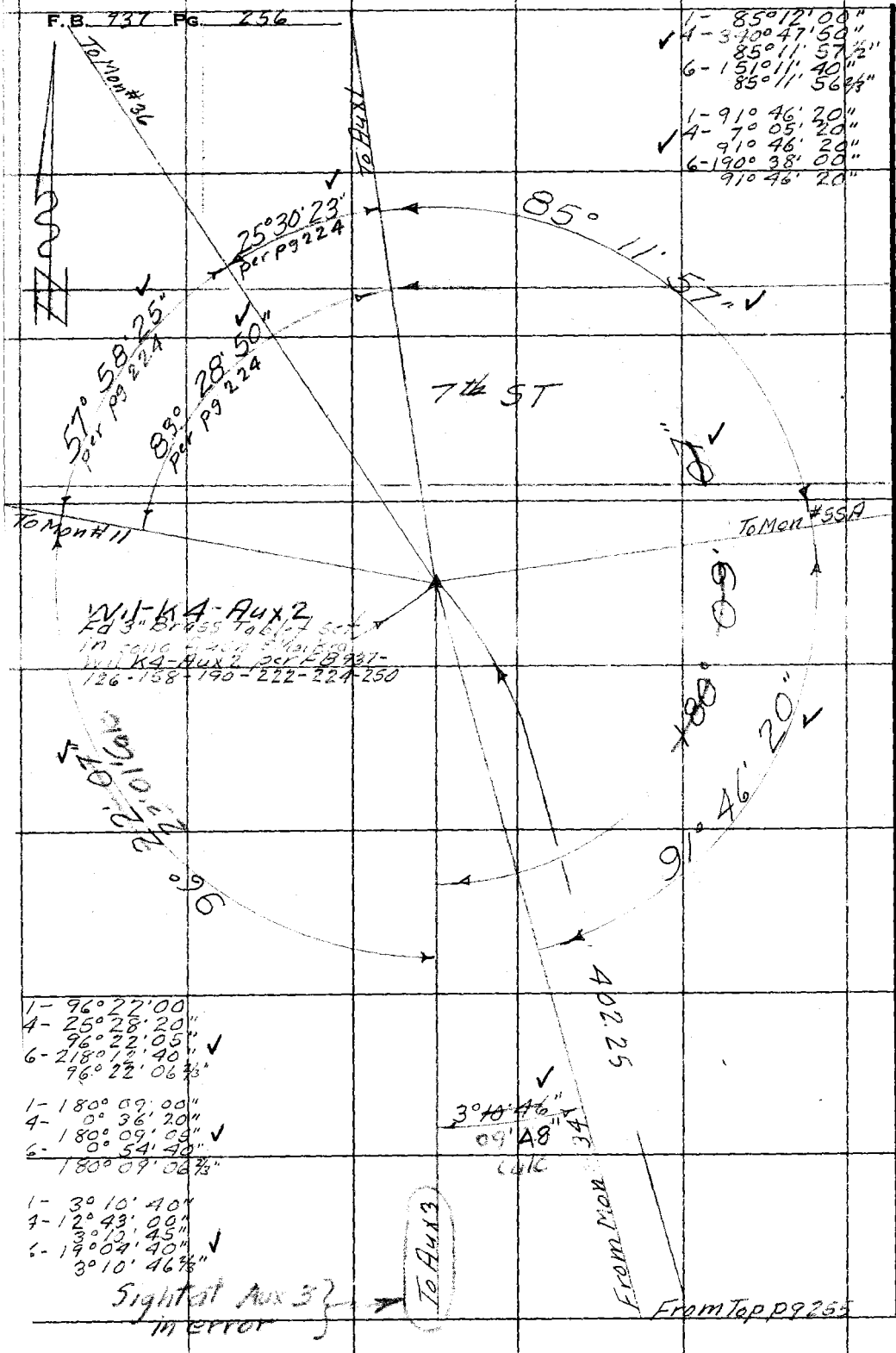
Do not extend notes this side of this line.

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

76F309S 247 4-53

F.B. 937 Pg. 256



1- 85°12'00"
4- 340°47'50"
85°11'57½"
6- 151°11'40"
85°11'56⅔"

1- 91°46'20"
4- 7°05'20"
91°46'20"
6- 190°38'00"
91°46'20"

1- 96°22'00
4- 25°28'20"
96°22'05"
6- 218°12'40"
96°22'06⅔"

1- 180°09'00"
4- 0°36'20"
180°09'05"
6- 0°54'40"
180°09'06⅔"

1- 3°10'40"
4- 12°43'00"
3°10'45"
6- 19°04'40"
3°10'46⅔"

Sight at Aux 3 in error

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Do not extend notes this side of this line.

Notes Ck'd by____
Map No.____
Office Work____
Checked____
Date____

Survey of____
W. O.____ Tape No.____ St'd.____ oF
Surveyed by____
Notes____ Date____
Indexed____

F. B.____ PG.____

F. B. _____ PG. _____

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Notes Ck'd by	Survey of
Map No.	W. O. Tape No. St'd. °F
Office Work	Surveyed by
Checked	Notes Date
Date	Indexed

F. B. Pg.

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726 LOS ANGELES COUNTY
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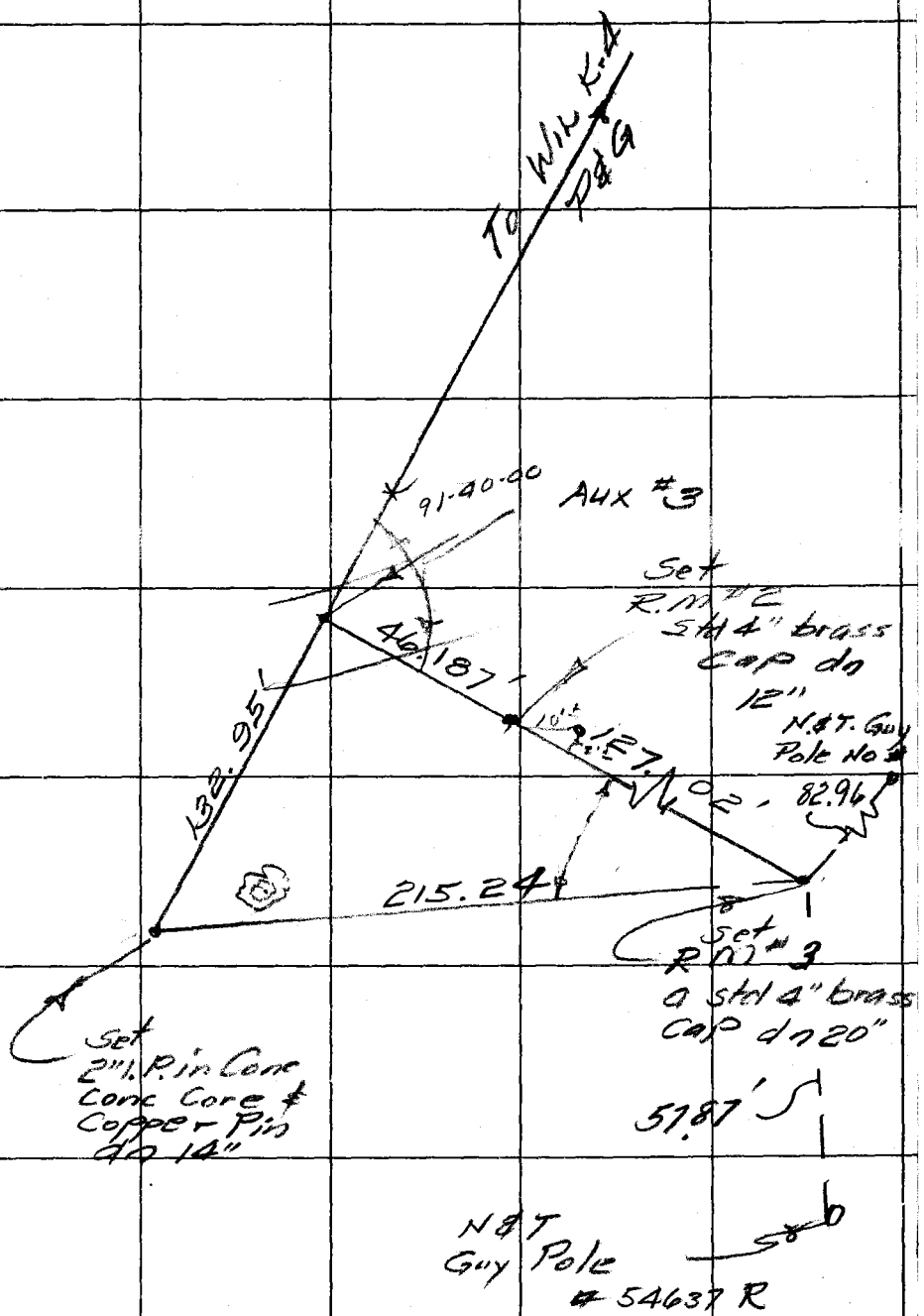

76F309S 247 2-51

F. B._____ PG._____

LO[illegible]

[illegible]NTY SURVEYOR

[illegible] COUNTY

[illegible]

[illegible] not extend notes this side of this line.

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