Notes Ck'd by	Survey of LONG BEACH SUBSIDENCE
Map No.	W. O. 0301.01 Tape No. 103 St'd. 84 °F
Office Work	Surveyed by H. E. GRANQUIST
Checked	Notes H.E.G. Date 3/29/54
Date	Indexed C. Johnson 5-7-54

F. B. 941 Pg.

300 ft tape

LONG BEACH SUBSIDENCE

J. N. 0301.01

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.

ALSO L.A. County F.B. 923 and F.B. 937

F.B. 941 Pg. 5 To Pg.

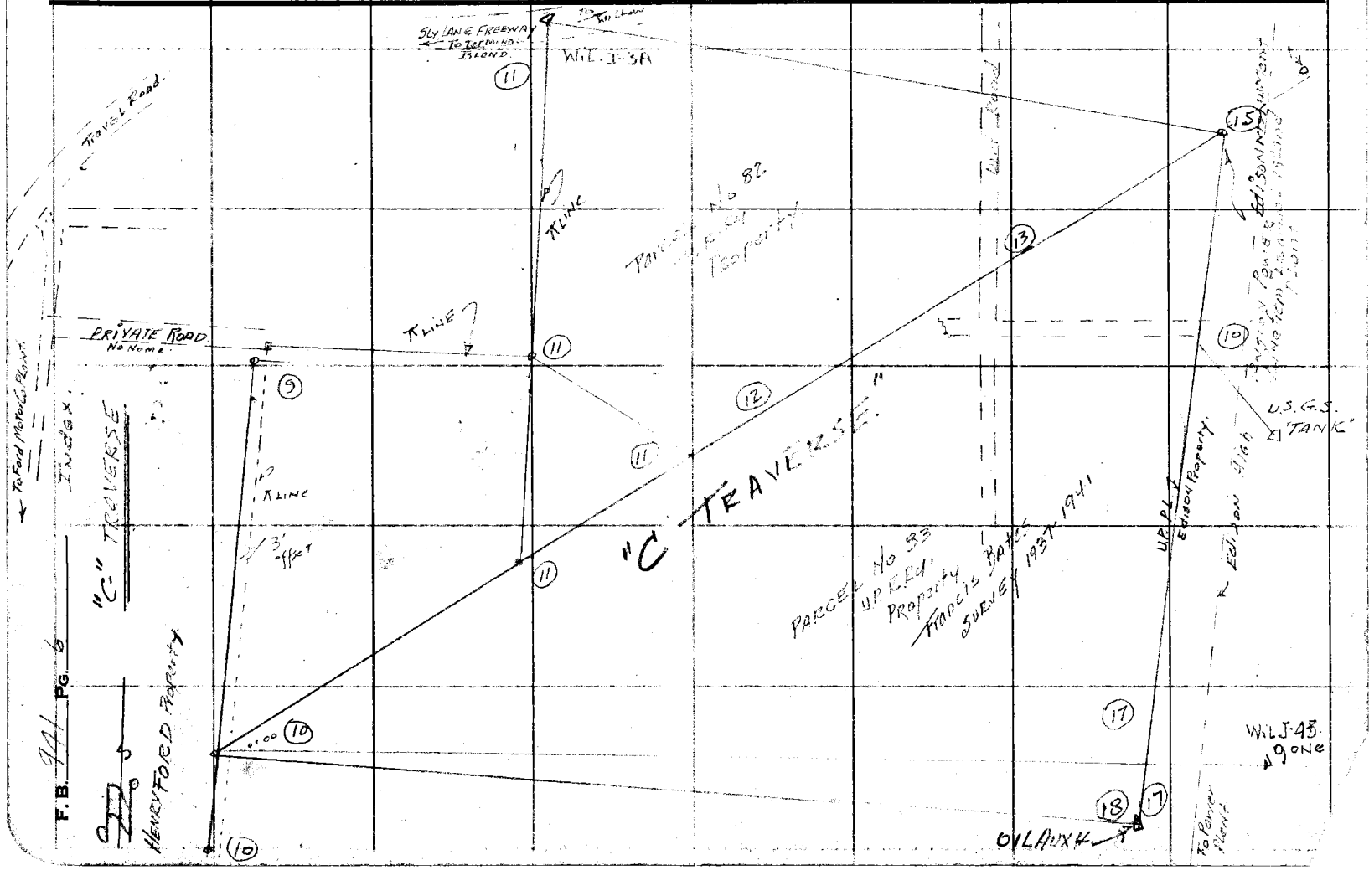
Index Pg 6, 7, +8,

RTY Chief H.E. GRANQUIST.
Str. A. CARRASCO.
and Chain. JA. MOODY.
1 FAR CHAIN D.L.W. LKS.
MARCH 29, 1954 To

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.



76F3095 247 4-53

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

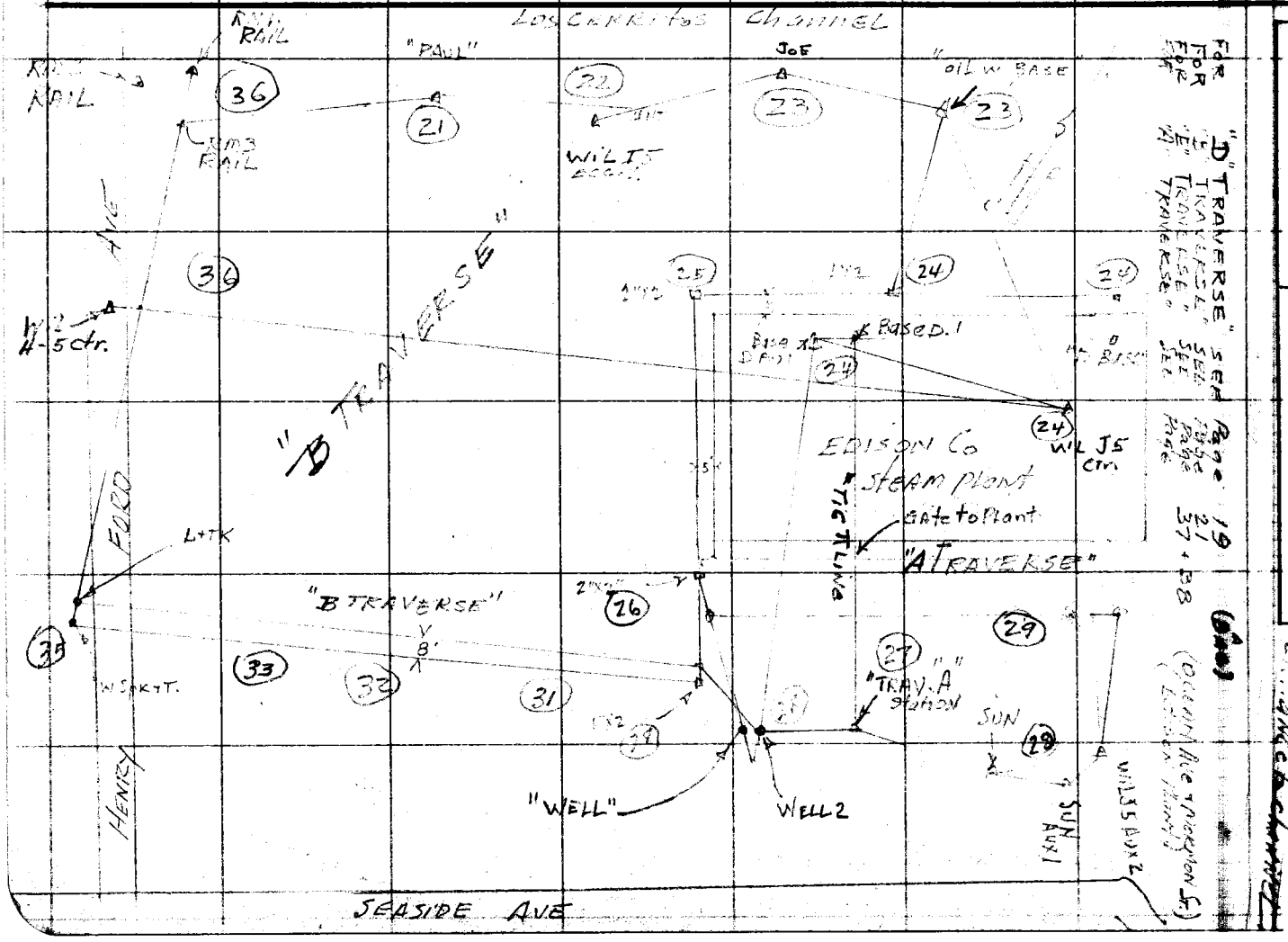
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

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

Survey of
W. O. Tape No. Std. 84 of
Surveyed by
Notes Date
Indexed C. Johnson

F. B. Pg.



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. _____ PG. 8

Notes Ck'd by KRM	Survey of [illegible]
Map No.	W. O. 8901.0 Tape No. 103 St'd. 84 °F
Office Work	Surveyed by
Checked	Notes [illegible] Date 3-[illegible]
Date	Indexed C. Johnson

F. B. _____ PG. _____

300' ft Tape

"C" TRAVERSE

Fd1"x2" Stk fl No Nail
Set New 1"x2" Stk fl
= 0+00 Going South

M= 869.54'

To 1st P. Cont Pg 11

4.26

Fd2" br. Cap. Mon. #143 dr. 15" Per FB 937 Pg 121 + Pg 99

0+04.26

217.41
200.65
200.41
251.14
869.61
.08 = 70° =
869.53

218.52
200.73
200.48
249.90
869.63
.08
869.55

AVG = 869.54

289.75 @ 66° = 289.12

M= 289.12

Fast PL Stord

N 93°04'-06 2/3"

2+86.155
Fd1"x2" Stk
Punch Mark on Line
Set Nail in Same
7.225
Nothing Set

2+93.32
Fd2" br Cap. Mon. #144 Per FB 937 Pg 121

3.005

PARCEL 80 Per U.P. RY Property
Survey Frances Bates 1937 441 MAP

158.25
162.71
173.76
494.72 @ 64° = 494.66 South

158.76
158.11
177.86
494.73 @ 60° = 494.65 North

494.655 Avg.

① 93-04-10
② 12-16-30
③ 93-04-07 1/2
④ 198-24-40
⑤ 93-04-06 2/3

M= 494.655

7+81.265
Fd1"x2" Stk No Ctr. Pt.
Set Nin Same
6.77
Nothing Set

7+88.035
Fd2" Br. Cap. 15" dp. Mon. #145 Per FB 937 Pg 121

3.05

151.87
142.93
147.72
442.52 @ 60° = 442.45

147.71
159.21
135.60
442.52 @ 60° = 442.45

442.45

To Br Cap M= 442.45

Cont top of Pg 10

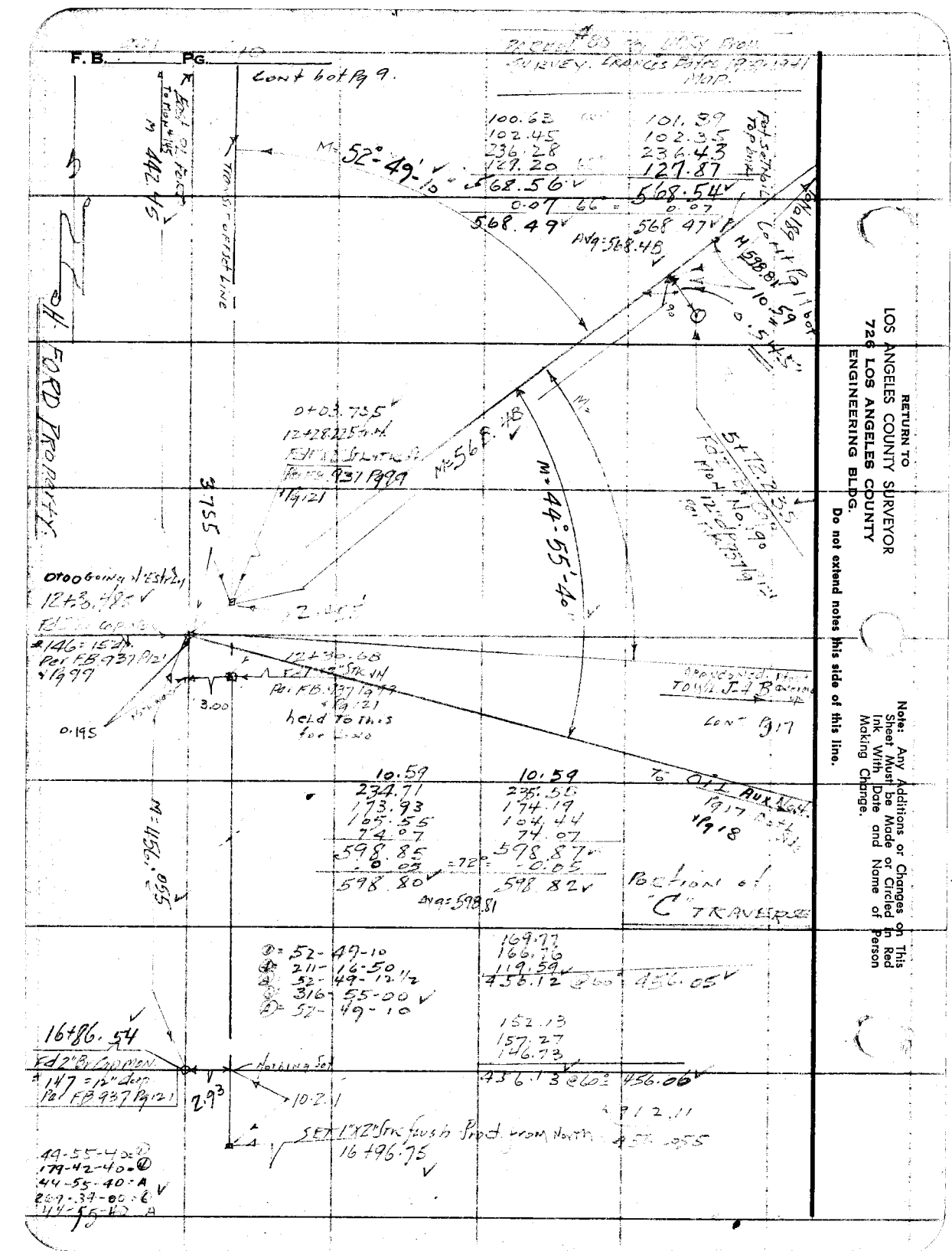
Note: Any Additions or Changes on This Sheet Must be Made or Circled In Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

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

76F3095 247 4-53

F. B. _____ PG. _____



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 LONG BEACH Subdivision
W. O. 0301.01 Tape No. 103 St'd. 84 °F
Surveyed by H.E. GRANQUIST
Notes H.E.G Date 4-54
Indexed C. Johnson

F. B. 941 PG. 44

300 ft. to Po
D 58-20-10
H 233 ...-50
A 35-20-12½
C 350-01-00
A 50°27-10

D 66-02-30"
H 264.09-40
A 66-02-25 V
C 636-14-50
A 66-02-28⅓

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

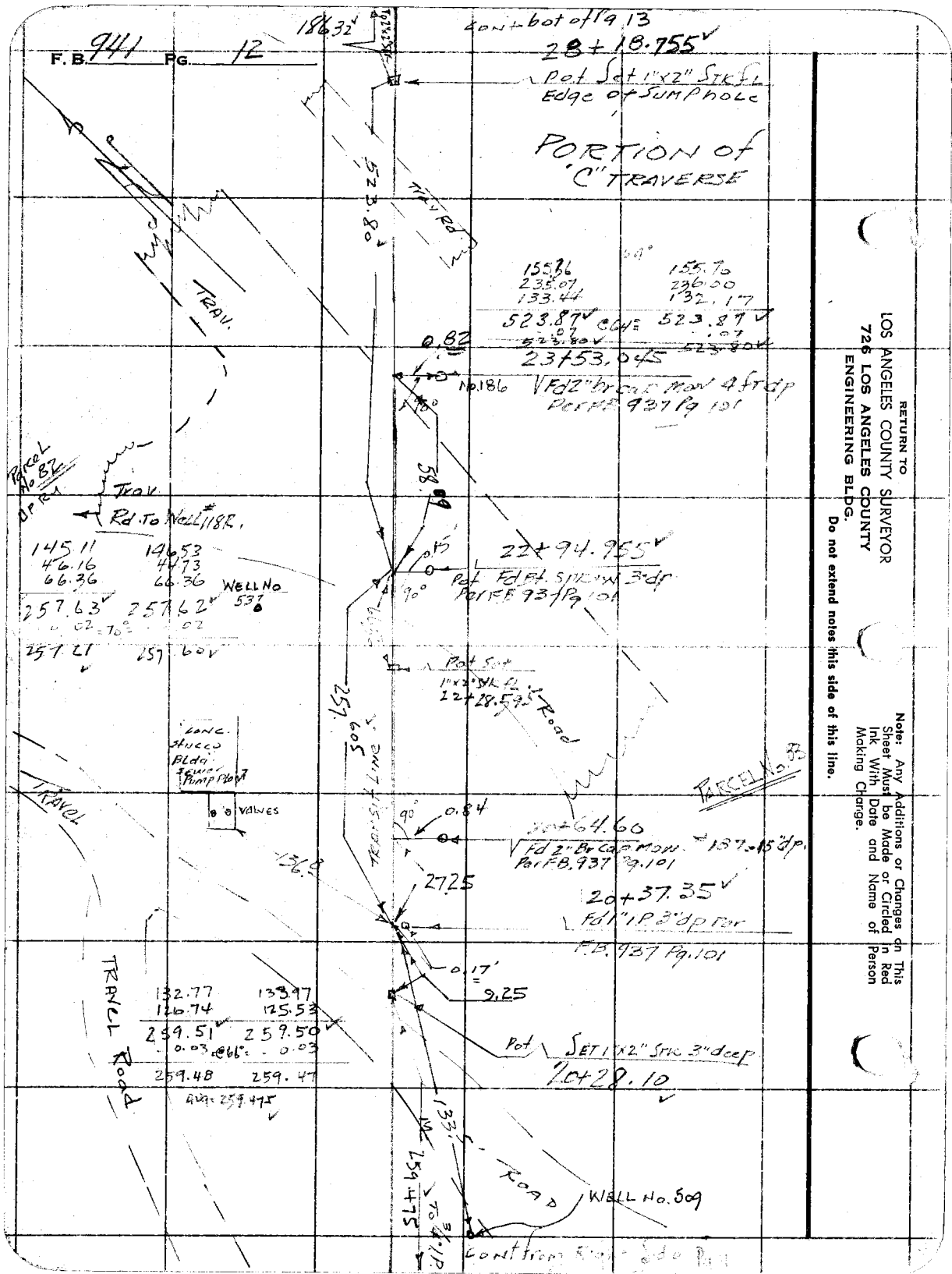
Do not extend notes this side of this line.

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

7875008 247 4-59

TERMINAL ISLAND
Traffic Island
Fd 1" IP 6" dp Pe F.B. 737 Pg 100 Wit. I-38
CURB
SKYLANE TO PACIFIC COAST FWY. TERMINAL ISLAND
STATE HWY
LINK FENCE
TO EDISON
Br. of P. Between U.P.R.Y. No. 1714 No. 172
Pg 15
GATE
PARCEL No. 82
U.P. R.Y.
LARGE PUMPING PLANT (ABANDONED)
Cont Pg 9
Cont Next Trg 12 Bot
LEAN, Road
To 1"x2" Stk 3 Offset Line
To Pot 1"x2" Stk
WELL No. 489
TRAV. ROAD No Name
WELL No. 231
SUMP HOLE
Fd 1" IP 6" dp Pe F.B. 737 Pg 100 bent N.G. Reset 50 ft & 15" deep IN different Location.
To Oil Aux 4. Pg 17+18
Made Search for SW Per F.B. 937 P 100 No Marks
Trav. Road No Name
U.P. Well No 492
Cont'd Pg 10
Cont'd Pg 10 Top
To BrOP No 190
Cont'd Pg 10 Right Side
Trav Road No Name
Fd 1" IP 6" dp Pe F.B. 737 Pg 100 bent N.G. Reset 50 ft & 15" deep IN different Location.
Mon. No. 189 3" dp. over 2½" C&P Mon. 3½ dp. Pe F.B. 937 P 100 Reset 4"x4" Stk 4" Sunk
Mon. No. 146
Portion of "C" TRAVERSE
PARCEL No. 83
U.P.R.Y.

F. B. 941 PG. 12



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 Charge.

Notes Ck'd by KRM	Survey of [illegible]
Map No.	W. O. [illegible] Tape No. 103 St'd. 84 °F
Office Work	Surveyed by H. E. Grammond
Checked	Notes H. E. G. Date 4-8-54
Date	Indexed C. Johnson

F. B. 941 PG. 12

300 ft tape

Cont Pg 15 L. Side

OIL WELL Casing
UPRY. NO. E-17 Capped
Abandoned

217.18 @ 74° = 217.17

PARCEL No. 82
U.P. Ry. Property

PARCEL No. 83
U.P. Ry. Prop.

35+00.015
Set 1"x2" Stk 2" dp

5.51

34+94.505
Fd Bt SPK & Washer
Per F.B. 937 Pg 1021
This pt. been destbd
Reset Same 4" DP.

PORTION of
"C" TRAVERSE

53.72

304.51

Set N+T. PP 1893926 E

TRAVEL Road

Conc Slab
With 3 Large Transformers
So. Cal. Edison Co.

193.18	192.65
111.36	111.87
304.54	304.52
.02 @ 74°	.02
304.52	304.50

AVG = 304.51

0.37'

31+89.995
Fd 2" Br. Cap in Conc.
6" dp. No. Not Legible
as per F.B. 937 Pg 102
No. 184

184.94 @ 68° = 184.92

184.92

30+05.075
Fd 2"x2" STK UP. 3" No. Rec.

2.75

30+02.325 No 185
Fd 2" Br. Cap in Conc. Mon.
6" deep Per F.B. 937 Pg 101

186.34 @ 66° = 186.32

186.32

90°

0.45'

To 1"x2" Stk
Pot.

cont 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
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3098 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.____ PG.____

Notes Ck'd by KRM	Survey of
Mdp No.	W. O. 8301.01 Tape No. 103 Std. 68 °F
Office Work	Surveyed by
Checked	Notes Date 3-21-51
Date	Indexed A. C. Johnson

F. B. 941 Pg. 15

300' TAPE

PORTION of "C" TRAVERSE

Note: Any Additions or Changes on This Sheet Must 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

(D) 85-51-50 (C) 52-43-50
(E) 343-27-20 (B) 210-55-10
(C) 85-51-50 A 52-43-47½
(B) 155-11-20 (D) 316-22-40
(A) 85-51-53⅓ A 52-43-46⅔

(D) 33-08-00
(E) 132-32-20
(B) 33-08-05
(C) 198-48-40
(A) 33-08-06⅔

143.26
202.08
345.34 @ 74° 345.32

Fd So Calif. Edison Co 2" Br. Cap. 6' Up
Per FB 937 Pg 102

0.06

65.52

Set 16 D Nail Flush.

M 345.32

0.05

Prod

No. 172

Fd 2" Br Cap Conc. Mon. Mkd. Stamped LA R.R. Co. Property.

4.80

37+17.185 from Sw. Ford Pl.

0400 Going SLy.

Fd 2½" Br. Cap. Mkd. Southern California Edison Co. Station. Up 6" Per FB 937 Pg 102

Pg 11
To W.L.I.3A.

33°-08'-06⅔"

PARCEL No. 82

5.21'

37.17'

520 43' 46⅔"

0.075'

85°

51°-53'-53⅓"

Tol 1½" Sq. Iron Pipe

at 0+05.21 = No. 171

Fd 2" Br Cap Conc Mon 10" in Stamped LA R.R. Co. Property. Also Reference Point Per FB 937 Pg 102.

Cont Top of Fill

To Fd 2" Br Cap Mon. Mkd. Station Pg 10

PARCEL No. 58

0.085'

4+90.235

Fd 2" Br Cap Mon. No. 168 Mkd. Sta. 2+

Property LA R.R. Co. See No. 75 1/3 102

Cont to Top of New Fill

Set Nail on Br Cap.

M = 771.765

To W+M Sta. 46

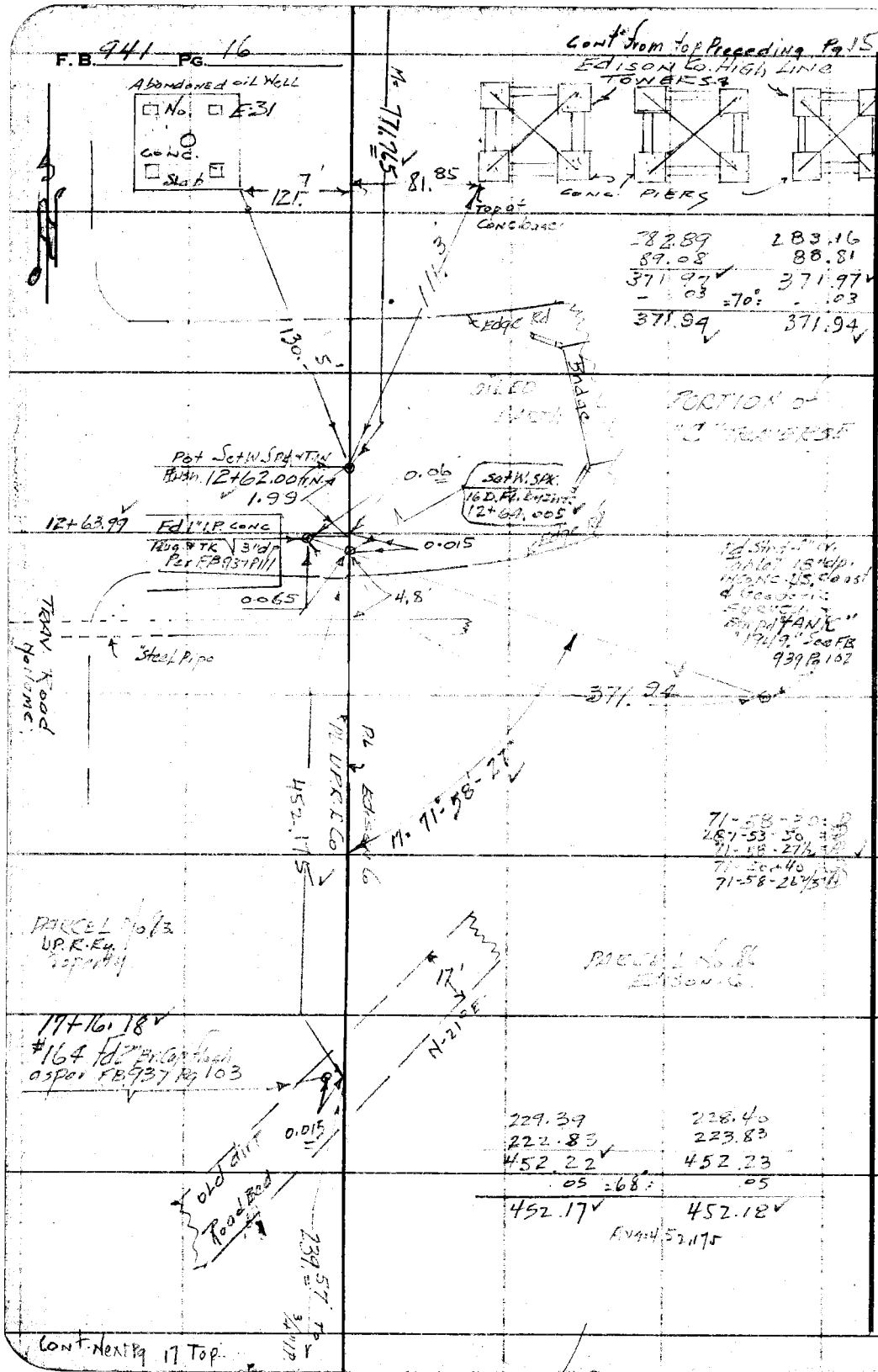
285.49
3.80
490.29
.06 -64
490.23

286.43 (49°)
203.87
490.30
.06 -64
490.24
Mean = 490.235

256.75
229.22
216.98
68.42
771.85
.19 -66
771.70

256.06
228.96
215.36
71.48
771.86
.09
771.77

AV: 771.765



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 Long Beach [illegible]
Map No.	W. O. 0301.01 Tape No. 103 St'd. 84 °F
Office Work	Surveyed by [illegible]
Checked	Notes H. E. G. Date 4-2-'54
Date	Indexed A. C. Johnson

F. B. 941 PG. 17

300 ft tape

239.59 @ 18° 239.57

PORTION of "C" TRAVERSE

19+55.75 fr N.
Pot Fd 3/4" IP
3" dp Per F.B. 937 Pg 104

278.80 .03 @ 68°
278.77

278.77
U.P. Ry.
P.L. 7
Edison Property

Parcel No 83
U.P. Ry

PARCEL No 162

22+34.52
Pot Set 1"x2" Stk
3" dp.

311.72
82.02
229.70

102.72 @ 68° 102.71

23+37.23
Fd 2" Br. Cap. in Conc
Up 12" Mrkd Southern Cal. Edison Con Stmpd: 162
F.B. 937 Pg 104
82.02

311.72

WILMINGTON J-4-B.
Per F.B. 937 Pg 104
+105
T.F.B. 923 P 247
This has been covered with 12 of fill. Point been destroyed by Constr. Per MR. PAYSON of HALL Co. contractor for U.P. Ry. dug 9 ft. fd nothing

To Wil
I-3A.
24+19.25
Fd 3/4" I.P. Conc
Plug in 18" dead per F.B. 937 Pg 104

229.70

"OIL AUX 4"

See Next Pg for 4's

To No 146
Pg 10

24+48.95
OIL AUX 4 Top of Dike
Set 1"x2" Temp Pt for Mon to be set later.
SEE Next Pg. 18

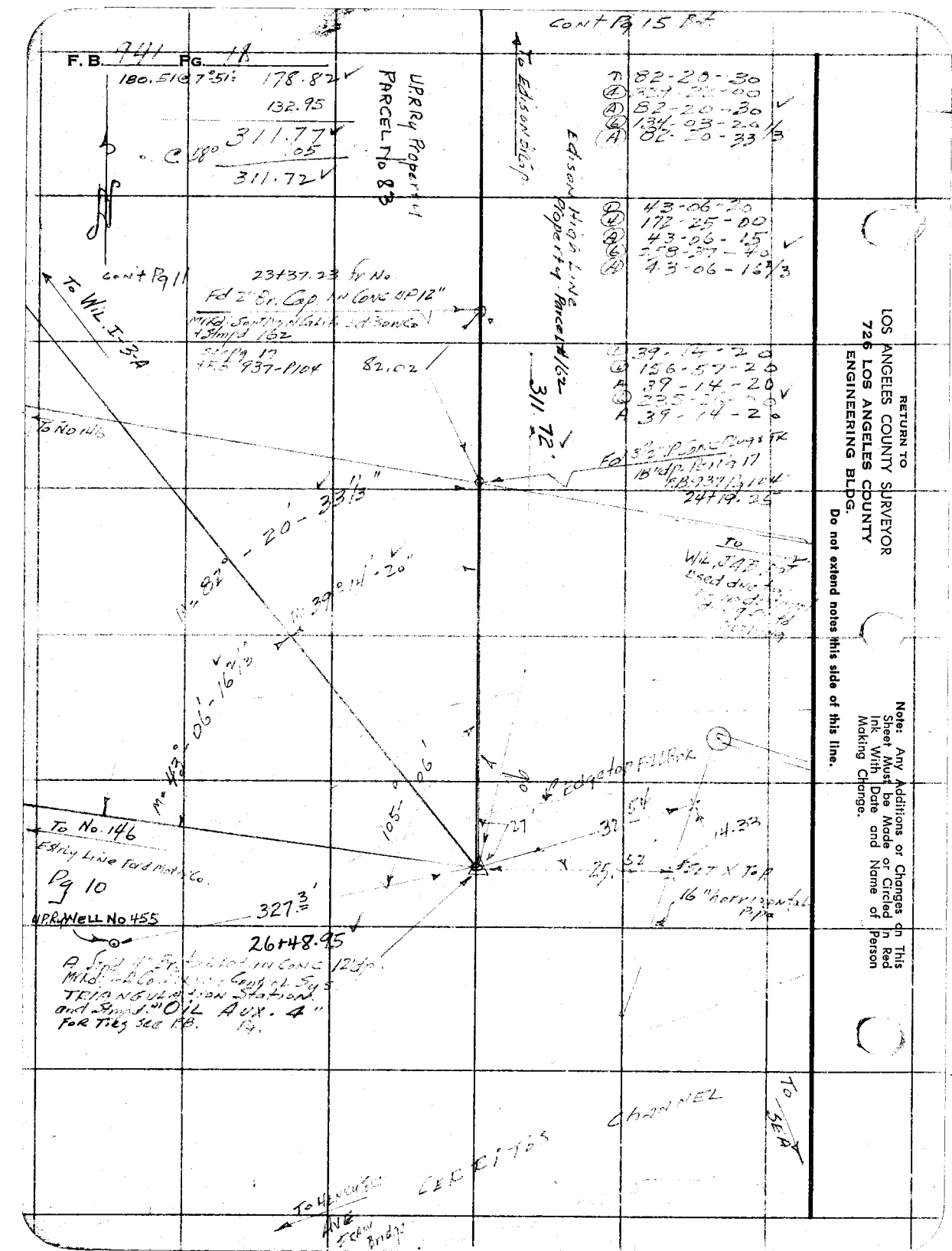
Fd Std 4" Br. Cap. Mrkd [illegible] Surv. Cont. Sys. + Stmpd OIL AUX 4

Note: Any Additions or Changes on This Sheet Must 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



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 LONG BEACH
Map No.	W. O. 04101.01 Tape No. 103 Std. 81 °F
Office Work	Surveyed by [illegible]
Checked	Notes M.E.G. Date 11-Apr-4
Date	Indexed S. Johnson

F. B. 711 Pg. 19

Note: Any Additions or Changes on This Sheet Must 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 4-83

"D" TRAVERSE

RAN N. BASE &

Fd 12"SQ CONC MON W/ 1½" hole orig. cap gone due to grader. Set conc. in hole w/ 4 copper wire ctr. point. SEE F.B. 937/Pg 107

ALAMEDA AVE

STANDARD

ANCHOR BLVD

WELL No. NELSON A-13 ROYALTY SERVICE CORP.

5.00

Set 1"x2" Stk 6+58.59

CALC.

Fd 2" BRASS CAP IN CONC. 18" DP. TBL FB. 937/Pg 107

90°

137.71

137.73@60°=137.71

WELL No. NELSON A-8 ROYALTY SERVICE CORP

119.6'

No. 40 Fd 2" brCap IN CONC. 12" DP. Prop. W.P. R.P.I. 5+46.80

0.09 S

5.0°

19.99

No. 43 Fd 2" brs. cap IN CONC. B" DP. 5+27.80

0.03 E

6.72

84°

48'-10" Std.

(-16")

S 4° E 55.12

5+20.88

Fd NAIL & KR 2" ON LINE FB. 737 Pg 107

5+14.57

0.02 W

Fd 1"x2" STK 0.09 S W of LINE Reset same ON LINE 4+66.31

Fd 2" brCap IN CONC. 12" DP. 4+46.29

PATTEN BLVD

W. Lumber Co.

268.38<76°
49.77 "
318.15@76°=318.13

2+12.52 Fd 2" brCap

St. 4" SQ. PIPE (Cut) DP No. 52 D-3

0.095

5.00

9.77

Set 1"x2" STK 2+02.75

318.13

163.41.10

MEA. WITH TAPE

"BAG S. BASE"

Fd Std 4" Brs IN Tablet Stmpd. BAG. S. B1949 Rykd. w/ Concrete Gradatic Surface Flush With Ground.

U.P. WELL No. 537

47°

56-34

10" Ø

202.75

202.76@76°=202.75

FB 937 Pg 107 286.88

M= 286.81

ANCHOR BLVD

No. 54 0+00. Fd 2½" Brs. Cap IN CONC. 12" DP. Per F.B. 937 P107 "D-4"

5.00

Set 1"x2" STK 0+00

SLIP

F.B. 941 PG. 20

1st observation
S.E. QUAD

(1) 163-41-50
(4) 294-48-00
(A) 163-42-00 ✓
(6) 262-11-50
(A) 163-41-58 1/3

NE. QUAD

(1) 54-55-20
(4) 219-41-20
(A) 54-55-20
(6) 329-32-00
(A) 54-55-20 ✓

3rd RUN
S.E. QUAD

(1) 163-42-10
(4) 294-48-40
(A) 163-42-10
(6) 262-13-00
A 163-42-10 ✓

2nd Observation

(1) 163-42-10
(4) 294-48-50
A 163-42-12 1/2
(6) 262-12-40 ✓
A 163-42-06 2/3

N.W. QUAD.

(1) 84-48-10
(4) 339-13-00
(A) 84-48-15
(6) 148-49-00 ✓
(A) 84-48-10

S.W. QUAD.

(1) 56-34-10
(4) 226-16-20
A 56-34-05 ✓
(6) 339-24-20
(A) 56-34-03 2/3

128.93
157.92
286.85 ✓

129.78
157.07
286.85 ✓

286.85 @ 62° = 286.81 ✓

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 [illegible]
Map No.	W. O. 0301.01 Tape No. 103 St'd. 84 °F
Office Work	Surveyed by H. E. Grounds
Checked	Notes H.E.G. Date 4-13-54
Date	Indexed A. C. Johnson

F. B. 941 Pg. 21

300' tape

Cont pg. 22 bot.

① 178-59-20
④ 355-57-20
A 179-59-20 ✓
⑥ 353-55-40
A 178-59-16 2/3

To 3/4" IP [illegible] (Estly of [illegible] Bcc. No. 1)

201.33	202.37
142.34	142.22
194.53	194.73
160.43	159.30
698.63 ✓	698.62 ✓

AVG = 698.625 @ 64' = 698.535

M = 698.535

CHANNEL

DIKE

"B-TRAVERSE"
PARCEL 52. UP.R.R.

UP. Ry. OIL WELL No 240

67.2'

178-59-16 2/3

"PAUL"

Fd Find 4" by tablet in Conc. flush mkd US Coast & Geological Survey & Stmpd "Paul" 1949.
SEE F.B. 937 Pg 115

Mesh fence

Transformers Pen

106.5'

CERRITOS

Reference Pt. To RAIL No 3

TRAVEL Road

To Henry Ford Ave

20'

UP OIL Well No. 211

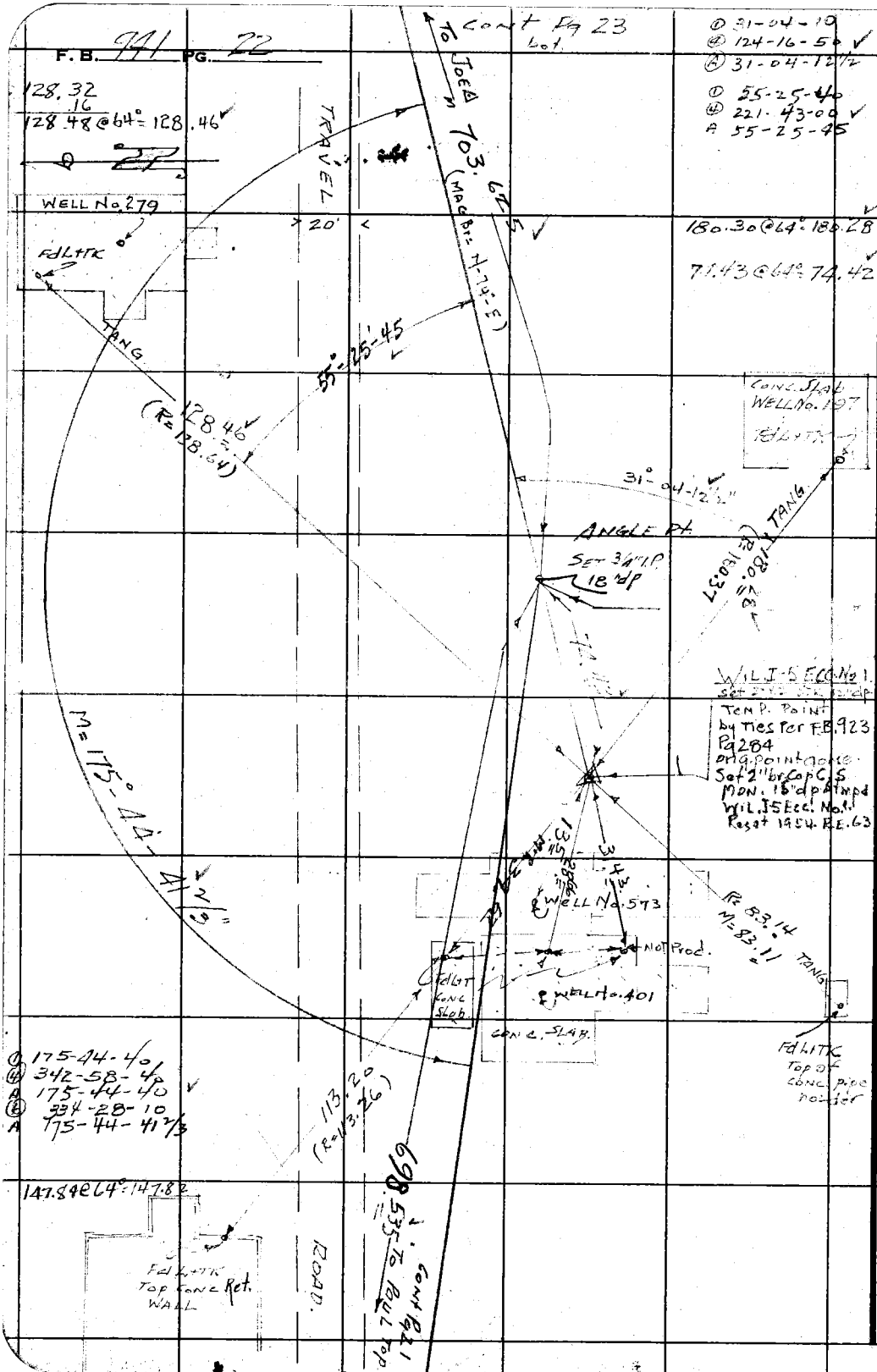
Cont Pg 36 Rt Side

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
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F309S 247 2-51



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

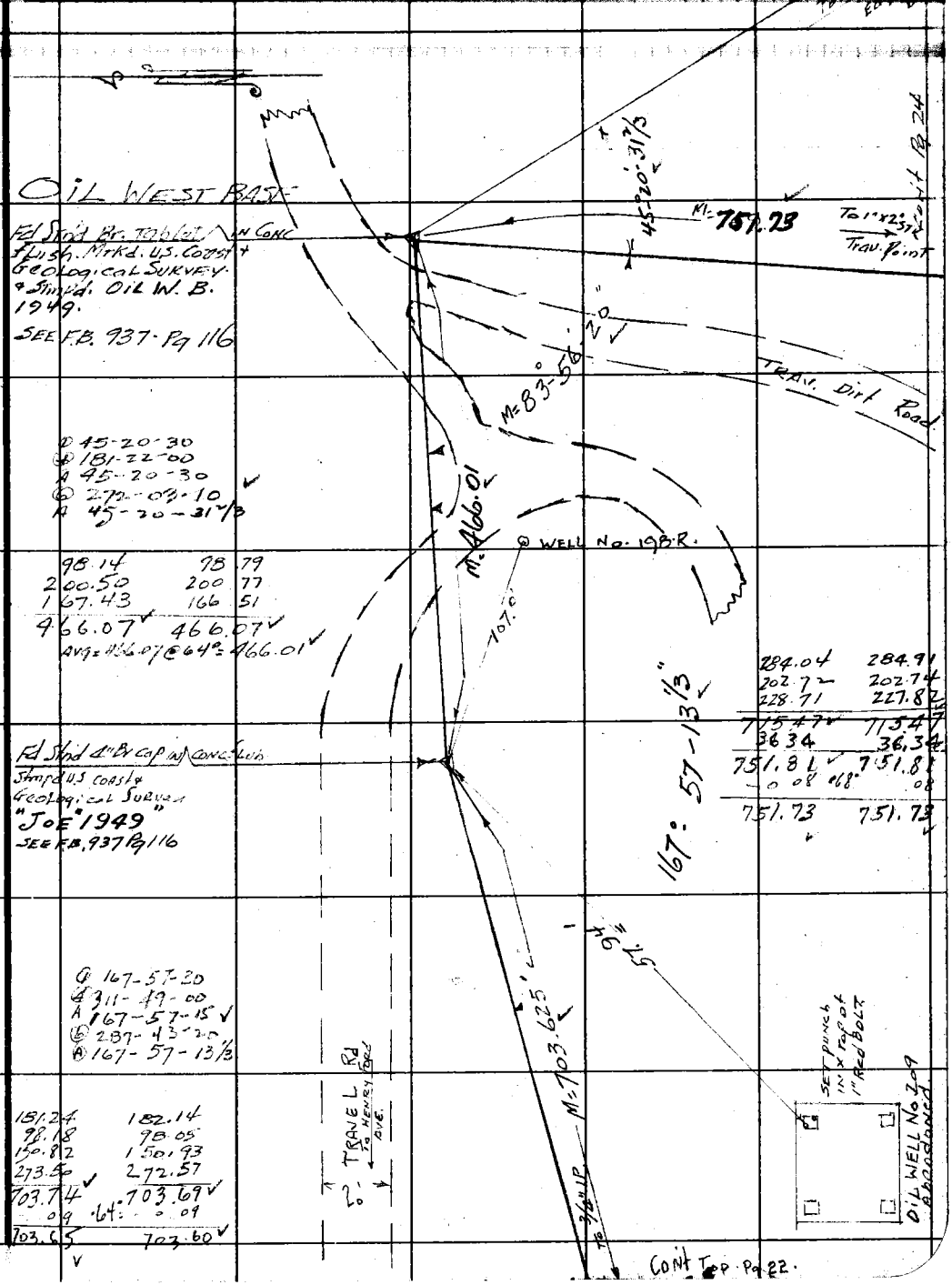
Do not extend notes this side of this line.

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 Long Beach Subsidence
Map No.	W. O. 6301 31 Tape No. 103 St'd. 84 °F
Office Work	Surveyed by
Checked	Notes H.E.G. Date 4-14-54
Date	Indexed K. C. Johnson

F. B. 941 PG. 23

① 83-56-20
④ 335-45-20
A 83-56-20
⑥ 143-38-00
83-56-20



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
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3095 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 LONG BEACH Subsidence
Map No.	W. O. 0301.0 Tape No. 103 St'd. 84 °F
Office Work	Surveyed by H. E. GRANQUIST
Checked	Notes HEG Date 4-15-54
Date	Indexed A. C. Johnson

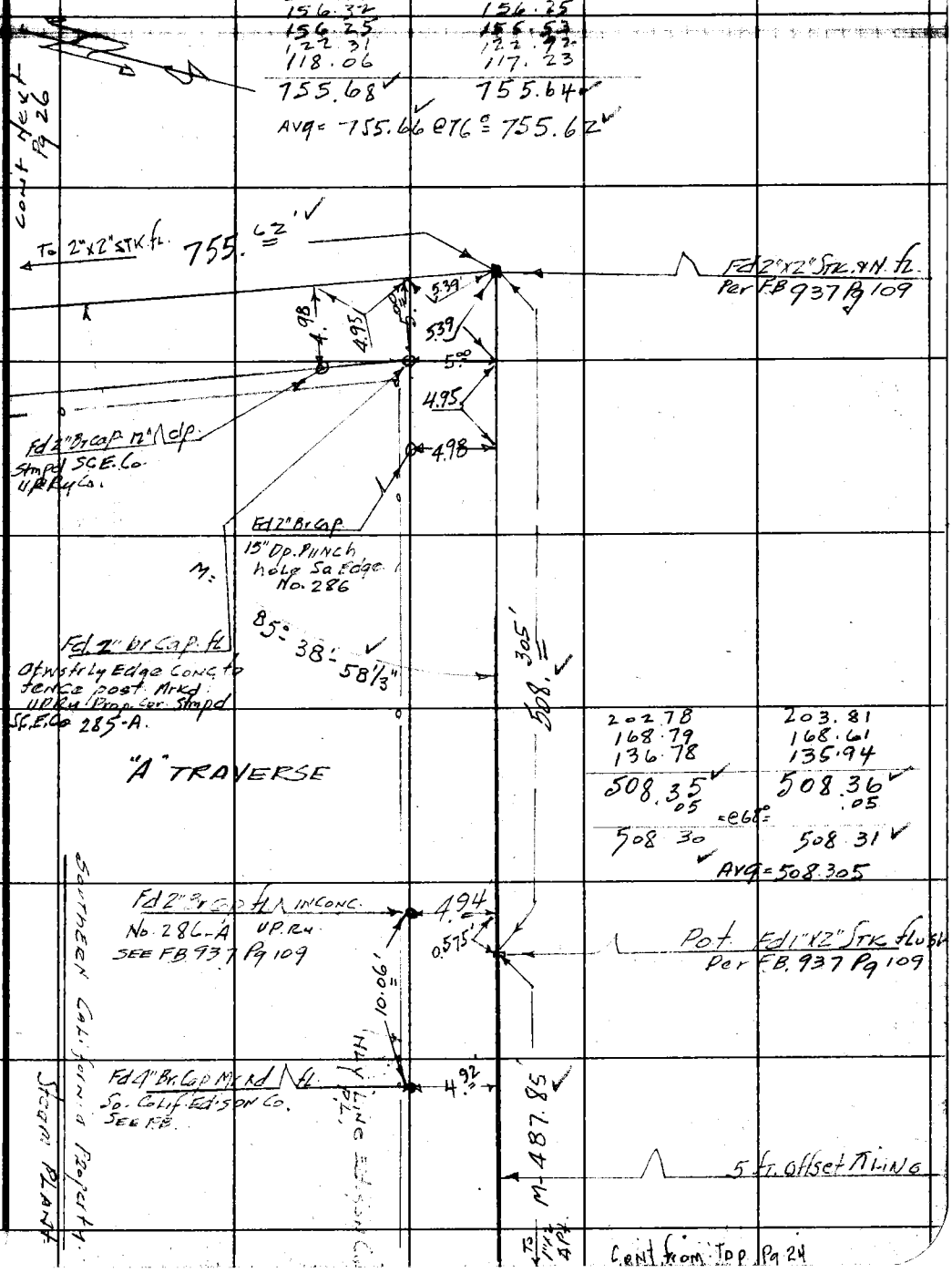
F. B. 941 Pg. 25

300' Tape.

① 85-39-00
④ 342-35-40
A 85-38-55
[illegible]
[illegible] 85-38-58 1/2

202.74	203.71
156.32	156.25
156.25	156.53
122.31	122.92
118.06	117.23
755.68	755.64

AVG = 755.66 @ 76° = 755.62

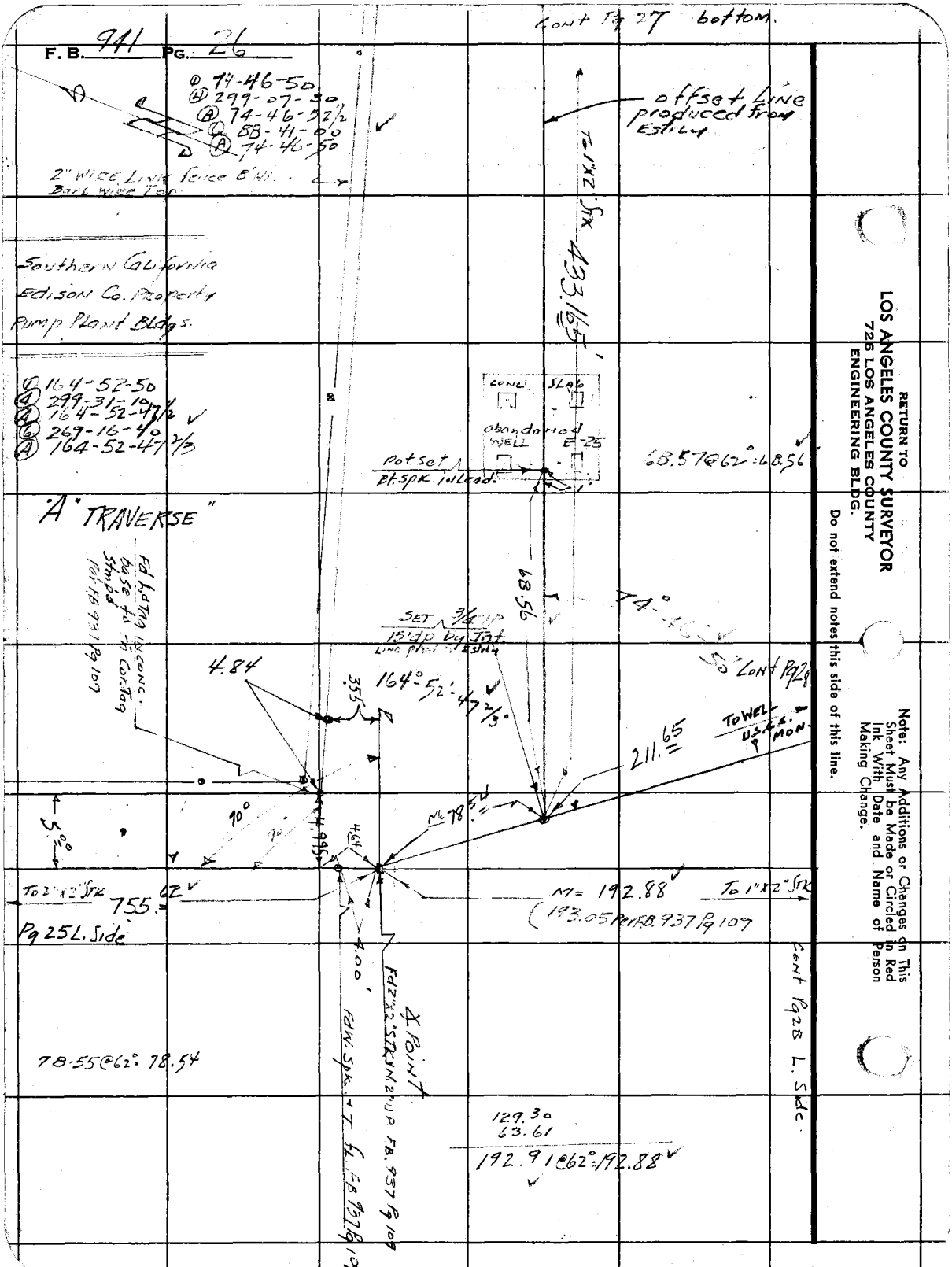


Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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.

941 77

F.B. PG.

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

Survey of Seaside Subdivision
W. O. 0301.01 Tape No. 103 St'd. 84 °F
Surveyed by H.E. Graham 1st
Notes HEG Date 4-19-54
Indexed K. 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.

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

171-10-20 ⑥
324-41-10 ④
171-10-17½ ②
907-01-20 ⑤
171-10-13½ ④

Cont to Pg 29

Cont 29 bot

N.W. QUAD

97-47-10 ⑥
97-47-10 ②
226-42-40 ③
97-47-06½ ⑤

706.46 @62° = 706.36

91-02-30 ⑥
364-10-20 ④
91-02-35 ②
186-15-40 ③
91-02-36½ ⑤

15'

I-84 S/W

Southern California Edison Co. Steam Plant

"A" TRAVERSE

M=598.48

M=706.36'

MAY LINE ROAD

SUN

108.27
209.24
201.18
79.89
598.58
Avg=598.57

109.33
209.15
201.12
78.96
598.56
@62° = 598.48

WELL No 341R

Fd 2" B.C. cap MON
UPRR No 281 1.8' dp
F.B. 937 P 118

15.00'

4.98'

90°

4.98'

91-02-36½

5.52'

"A" TRAVERSE PT.
Set 3/4" I.P. 2" dp in Pvmt.

ANGLE POINT IN P.L.
Fd Lone 3" Brass disk stamped RE 164 See F.B. 937 Pg 118

15°

Set 1½" S/K 6" dp 90° o/o 1" B.K. this control 2 Nails Tangent Ly 4 Ashly 1.5 Ahead 1"x2" Ashly also

4.99'

Fd 2" B.C. Conc. 1.2' high
UPRR No 282. See F.B. 937 Pg 118

15.34'

To Base D-1 Trav. Line Pg 24

42.8 BBB 39

437.985

SEASIDE BLVD TRAVEL ROAD

1360'

17°10'

Entrance to Gate Edison Prop.

TRAVEL ROAD

To Seaside Blvd.

221.45
216.59
438.04
.06
437.98

220.41
217.64
438.05
.06
437.99
Avg=437.985

360°

Fd 2" B.C. Cap 12" dp No 283

888.39

P.L. Edison Co.

1.095'

Pot Set 1"x2" S/K 3" dp

47.36'

51.01'

Trav. Line

163.33
201.33
68.57
433.23
.06
433.17

162.30
202.35
68.51
433.22
.06
433.16

888.52 @62° = 888.39

433.16'

To 3/4" I.P.

WELL No. 524

"To WELL 2" M=753.33'

753.63 @62° = 753.55

Cont to Pg 28

941 28

F.B. PG.

Fd 2½" Br Cap in Conc 3" up. Mkd: Southern Calif Edison Co Stmpd: 270 15.01

Fd 1"x2" Stk Flush Per F.B. 937 Pg. 109

Cont Pg 24

To Sta "D" No 267

Made Vigorous Attempt to Recover these 2 Points, too much Water + Mud. Need Pump.

Int Nothing Set Calc if Needed.

90-46-20 D
363-05-00 E
270-46-15 A
184-37-49 B
90-46-16 1/3 A

Int Not Made Calc. If Needed

117.12 @ 64° = 117.10

235.52 @ 62° = 235.49 @ 21° 30'

To Sta "A" Pg 26

46-16-2 1/3"

138° 11' - 01 2/3

90°

To 3/4" I.P. 1535

To Sta "A"

To Sta "A"

Could Not Recover F.L.L.

To YTPA 2-2 Outfinder

WELL 2"

Fd Std 2" Br Cap in Conc. ft. C.S. Mon Stmpd WELL 2. RE, 329.195'

SEE F.B. 923 Pg 237 for Ties.

M = 1208.71'

No 266

46° 59'

80-38-33 1/3"

53-56-40"

M = 235.49'

211.65

117.10

117.14 F.B. 937 Pg 109

2.85

Set 3/8" I.P. 0.1' up 104.10'

2.39

2.32

Rt Std "A" or Tablet in Conc 2" up. Mkd: U.S. Coast & Geodetic Survey Traverse Station & Stmpd WELL 1949.

See F.B. 923 Pg 237 for Ties

138-11-00 D
192-44-20 A
138-11-05 E
109-06-10 B
138-11-01 2/3 A

0+00.586 Set 1"x2" Stk Flush

8.02'

8.00

0.58 Calc.

To 2"x2" Stk 192.88

Nothing Found Drop on Wall

Found Spike Per F.B. 937 Pg 109

0+00 Going West

M = 85° 47' 43 1/3"

94.00
108.24 B
202.24 B

202.24

Cont from Pg 26 Rt Side

211.67 @ 68° = 211.65

0.03

Fd 1"x2" Stk F.B. 2+01.50 Nail + Plug

2+01.63 Set W. Spk Flush.

202.246 @ 64° = 202.216

0.13'

2+01.63 Set 1"x2" Stk Flush

5.88

2.31

2+07.51 Fd No 263 2" Br Cap 2" Deep Stmpd U.P.R.R. Property #263

101.71

8.03

8.00

8.09

20' dirt Travel Road.

D 85-47-50
E 3-10-40
A 8 5-47-40
B 1 4-46-20
A 85-47-43 1/3

80-38-25 D
322-34-10 E
80-38-32 1/2 A
123-51-20 B
80-38-33 1/3 A

46-59-50
187-58-40
46-59-40 A

281-58-20
46-59-43 1/3

53-56-40 D
215-46-40 E
53-56-40 A
323-40-00 B
53-56-40 A

Cont Pg 31 Rt

Pg 26 Rt Side

B Trave 14

Cont Pg 27 Rt

Cont Pg 27 Bot

Easside Blvd.

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 Long Beach Subsidence
W. O. 8301.01 Tape No. 103 St'd. 84 °F
Surveyed by H.E. GRANQUIST
Notes H.E.G. Date 4-19-54
Indexed A. C. Johnson

F. B. 921 PG. 29

300 Tape.
TRIANGULATION Station
WIL. J-5-AUX. 2

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

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

F. B. 941 PG. 30

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

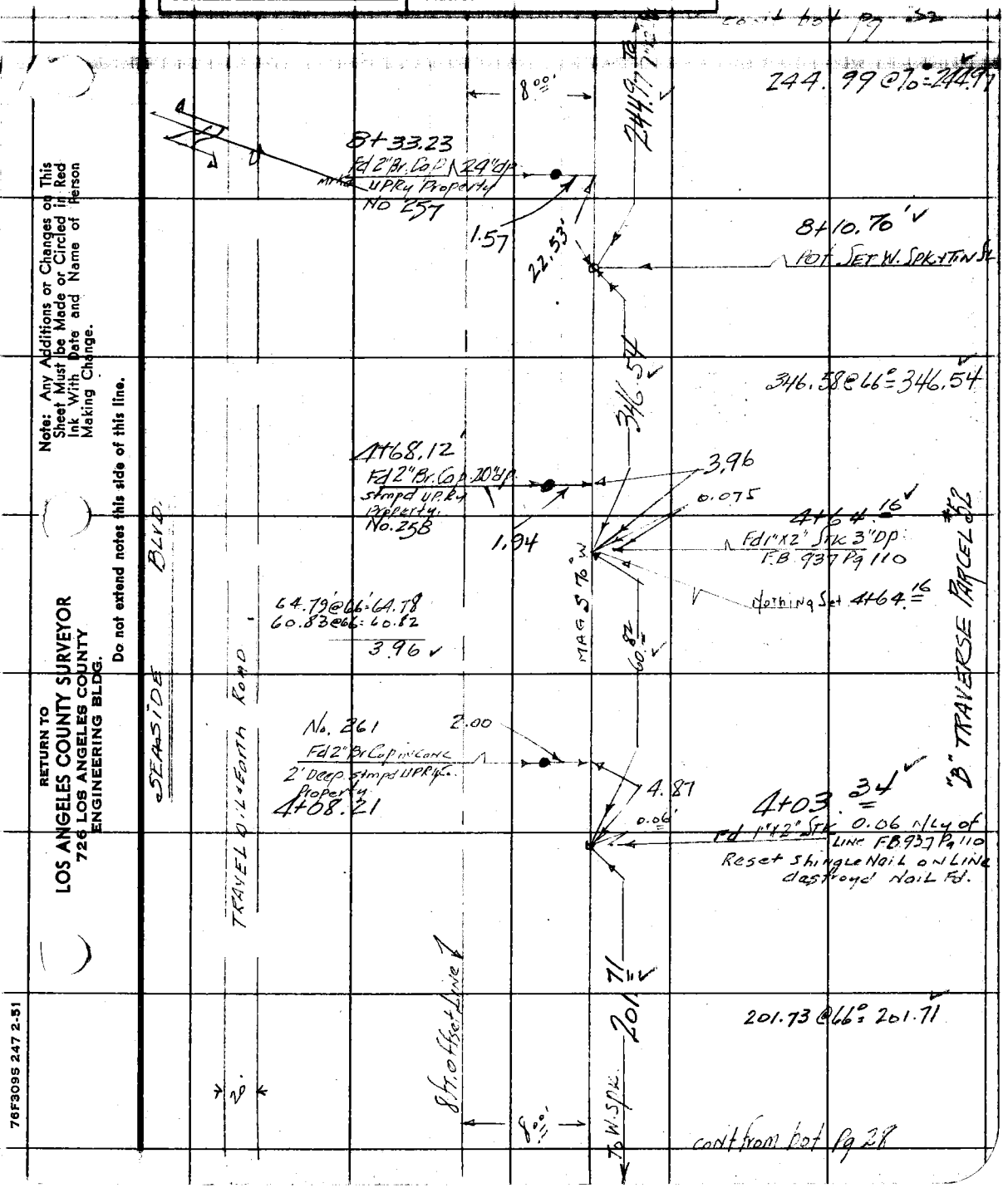
Do not extend notes this side of this line.

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 K.R.M.	Survey of Long Beach Subsidence
Map No.	W. O. 0301.01 Tape No. 103 St'd 84 °F
Office Work	Surveyed by H.E. Grandcart
Checked	Notes H.E.G. Date 4-28-54
Date	Indexed

F. B. 941 Pg. 31

Scott tape

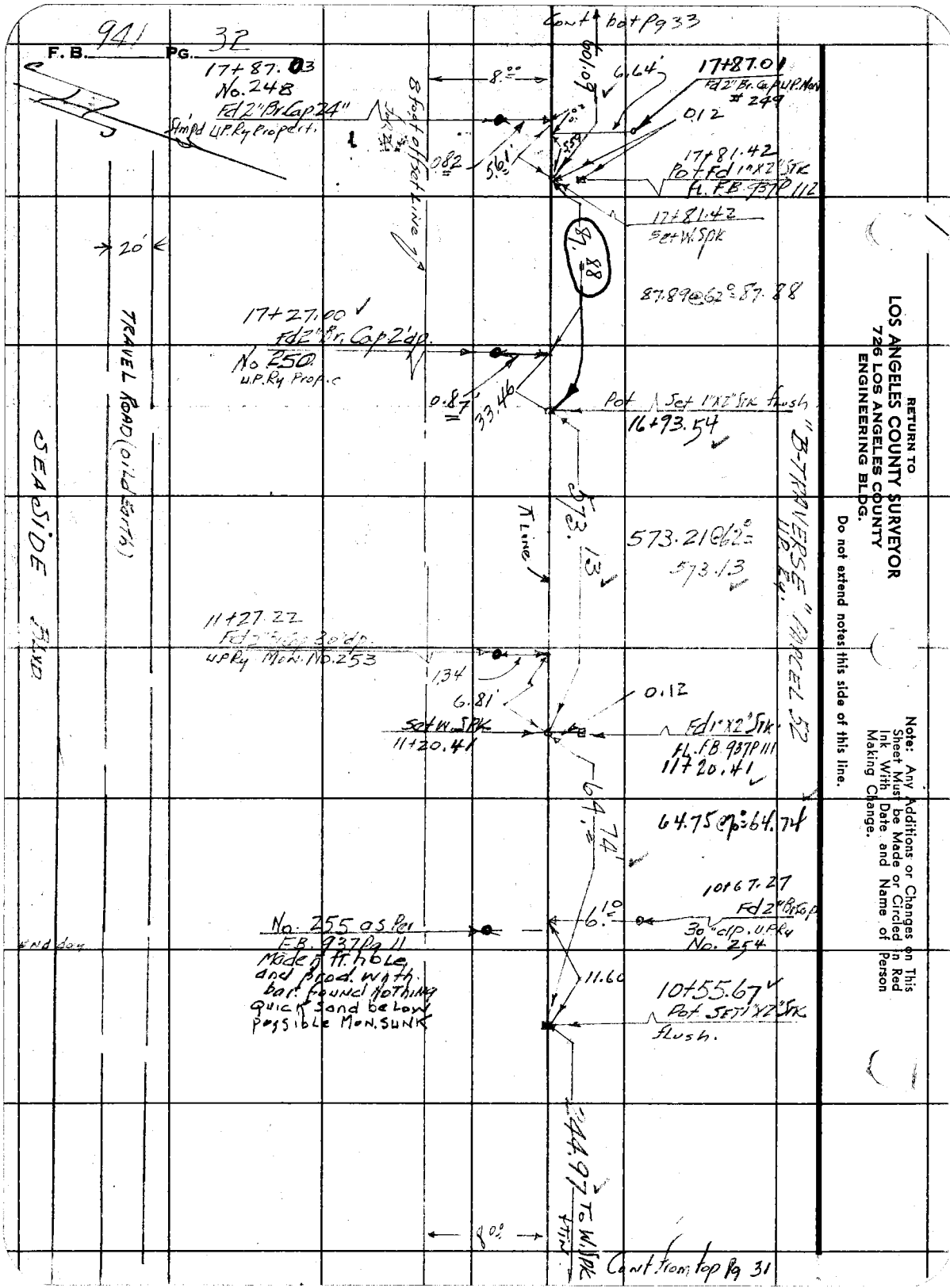


Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

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

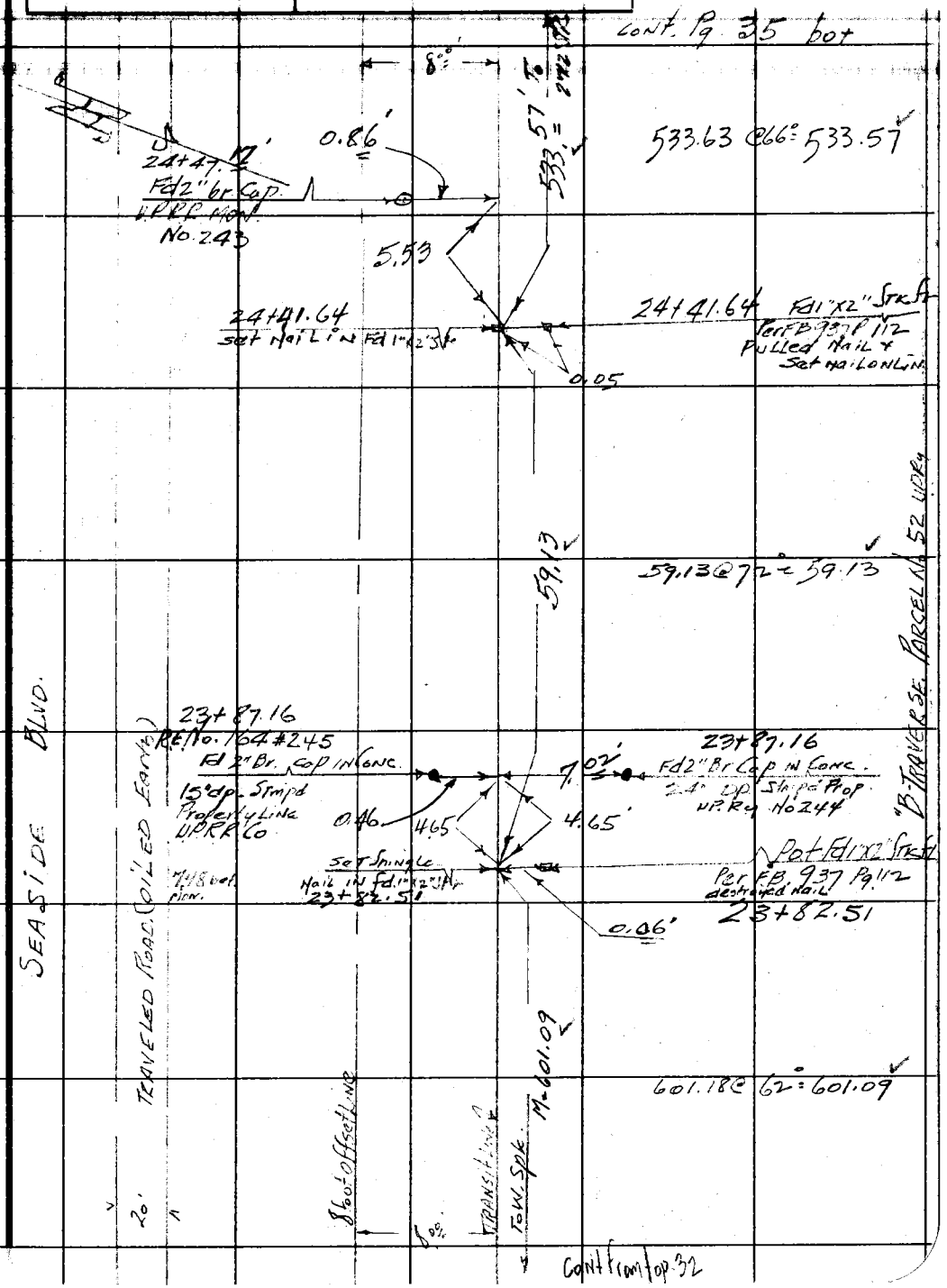
76F309S 247 2-51


F. B. 941 PG. 32
Cont bot Pg 33
17+87.03
No. 248
Fd 2" Br Cap 24"
Stmpd U.P. Ry Propert.
8 foot offset Line
8.00
6.64'
17+87.01
Fd 2" Br. Cap U.P. Mon # 249
0.12
0.82
5.61'
17+81.42
Pot Fd 1"x2" Stk
Fl. F.B. 937 P 112
17+81.42
Set W. Spk
87.88
87.89@62° = 87.88
20'
TRAVEL ROAD (oild Earth)
17+27.00
Fd 2" Br. Cap 2' dp.
No 250
U.P. Ry Prop. c
0.87
33.46
Pot Set 1"x2" Stk flush
16+93.54
SEA SIDE BLVD
"B-TRAVERSE" PARCEL 52
U.P. Ry.
573.13
573.21@62° = 573.13
11+27.22
Fd 2" Br Cap 30" dp.
U.P. Ry Mon. No. 253
1.34
6.81'
0.12
Set W. Spk
11+20.41
Fd 1"x2" Stk
Fl. F.B. 937 P 111
11+20.41
64.74
64.75@70° = 64.74
10+67.27
Fd 2" Br Cap
30" dp. U.P. Ry
No. 254
6.10
No. 255 as Per
F.B. 937 Pg 11
Made 5 ft. hole
and prod. with
bar found nothing
quick sand below
possible Mon. SUNK
11.60
10+55.67
Pot Set 1"x2" Stk
flush.
244.97 To W. Spk
8.00
Cont from top Pg 31
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 Long Beach Subsidence
Map No.	W. O. 030106 Tape No. 103 St'd. 84 °F
Office Work	Surveyed by H. G. Grouquet
Checked	Notes H E G Date 4-29-54
Date	Indexed A. C. Johnson

F. B. 941 PG. 33

300 ft tape



Note: Any Additions or Changes on This Sheet Must 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. 941 PG. 34

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

Do not extend notes this side of this line.

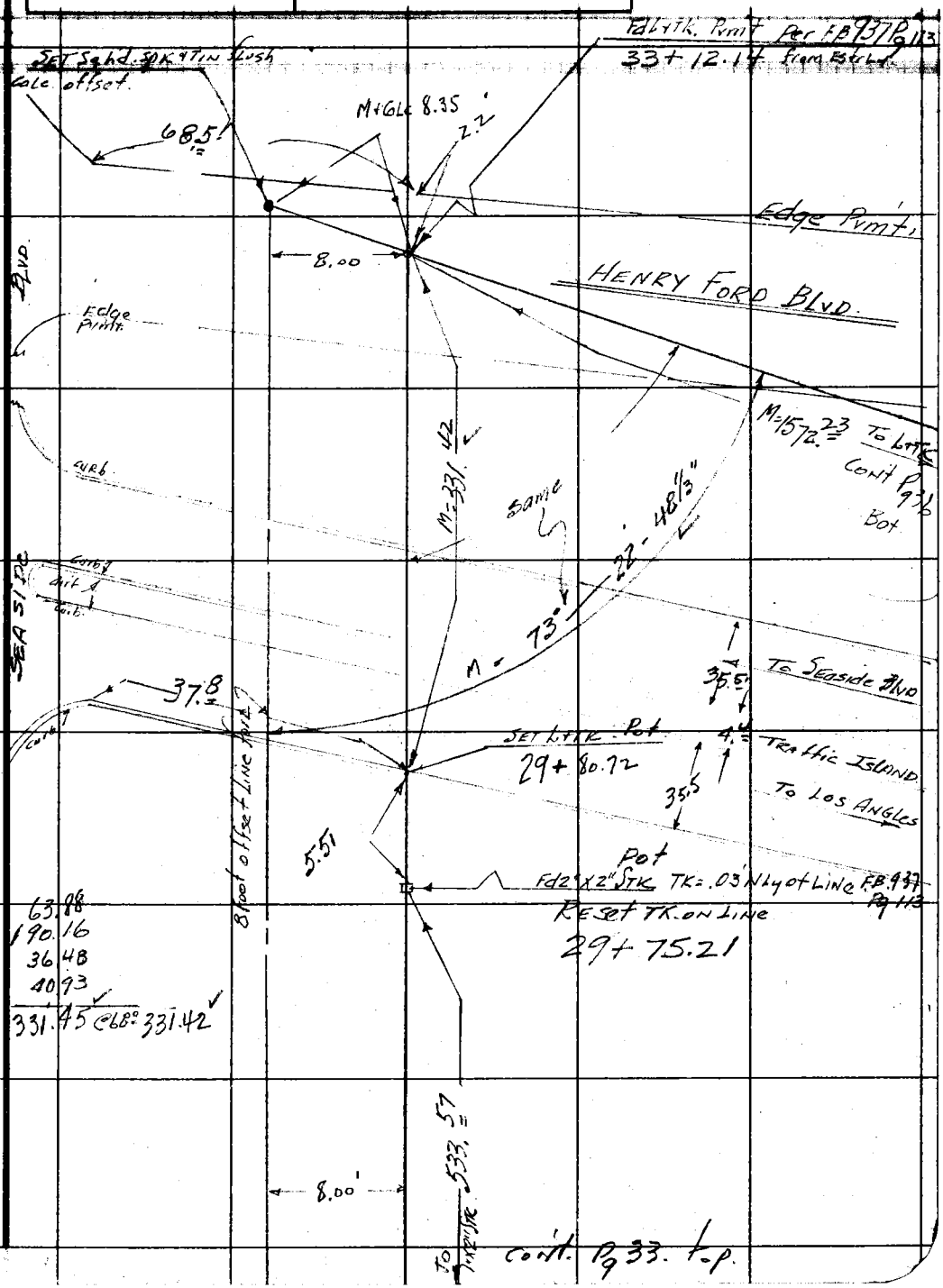
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by KRM	Survey of [illegible]
Map No.	W. O. 0301.01 Tape No. 103 St'd. 68 °F
Office Work	Surveyed by H. E. Grandquist
Checked	Notes H. E. G. Date 4-27-54
Date	Indexed A. C. Johnson

F. B. 941 Pg. 35

300 ft tape

(1) 73-22-40
(2) 293-31-10
(3) 73-22-47½
(6) 80-16-50
(A) 73-22-48½



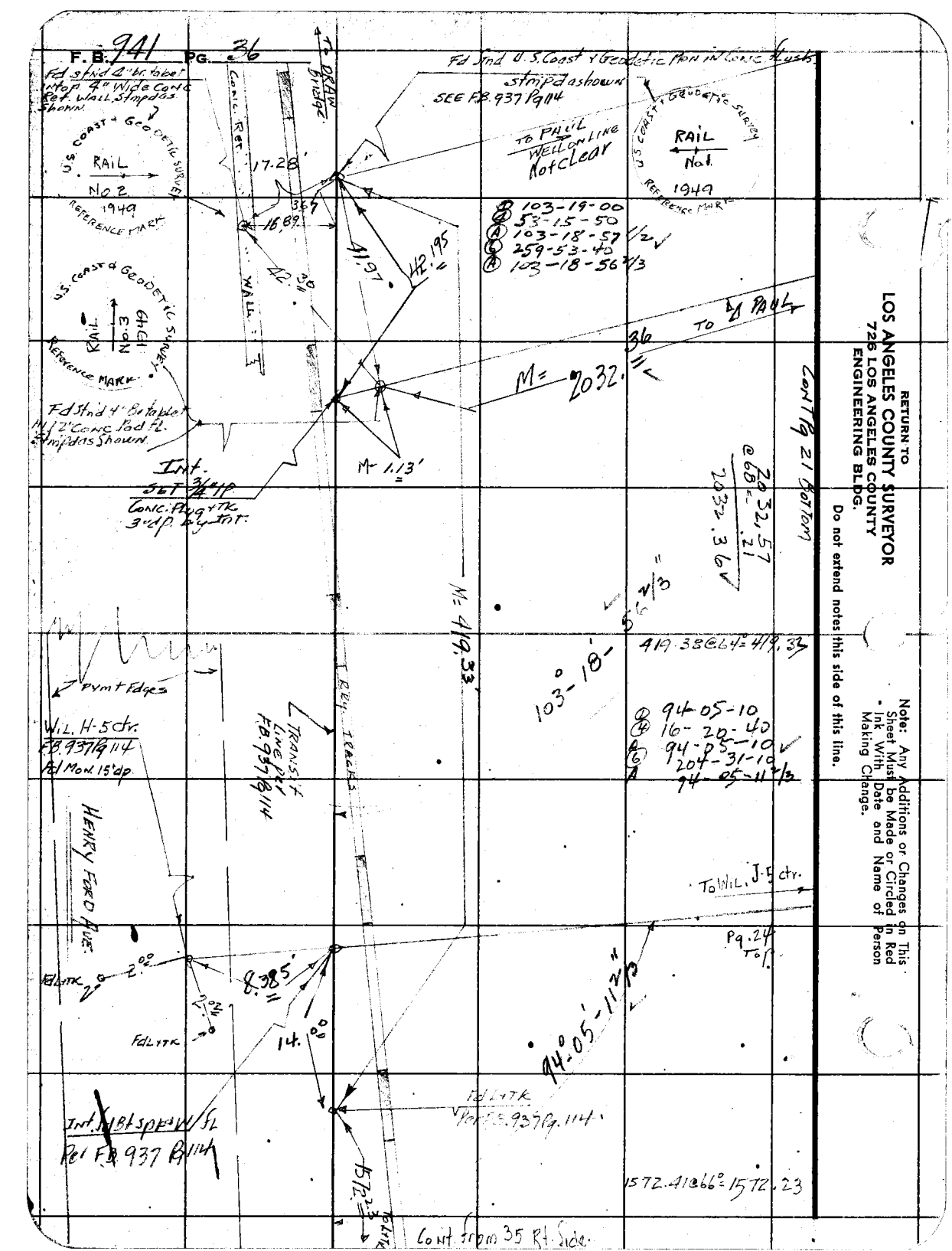
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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. 941 PG. 36



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. 941 Pg. 37

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

Survey of Long Beach
W.O. 830.10 Tape No. 103 St'd. 81 °F
Surveyed by H.E. GRENDYSKI
Notes H.E.G Date May 3-54
Indexed A. C. Johnson

200 ft topo
" TRAVERSE E"

Note: Any Additions or Changes on This Sheet Must 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.

399.12 e72 = 399.09
6"x6" White Marker post Mitc. R.Ry. Property
TRANSIT LINE FIXED BY USC&GS Mon's 1/2394 & 54
Fd 2" Br. Cap. Mon. on Line 12" Cap. as per F.B. 937 P123 almd Property Line RE 104 454 U.P.R.R Co.
MORMON ST.
Fd 1" Br Cap Mon No 516 18" dp. Perf F.B. 937 P123 U.P.R.R
DOCK ST.
UPRR
OCEAN AVE.
SEA SIDE AVE.
Property Line
Fd Bronze Mon No 497 Stmpd RE 104 447 U.P.R.Co Property Line Usc&GS F.B. 937 P123 P124
Station "ADMINISTRATION TOWER" F.B. 937 P123 Fd Nail & small Tin Floor very top of Tower on Estry Side.
AIR FIELD
Fd W. Spratt Mon. in front of Air Field. F.B. 937 P123 USC&GS Triang Station "AIR."
Fd 1/2" Pipe
Ry Tracks
Ry Tracks

① 91-59-30
④ 0T-58-30
Ⓐ 91-59-37½
Ⓑ 191-57-40
Ⓐ 91-59-36⅔

151.04 173.21 59.09 34.54 8.54 199.98 122.09 = 750.49
151.89 173.30 59.25 35.40 9.62 200.06 120.74 = 750.46
Avg = 750.475 @ 62° = 750 365
M = 399.09
M = 101°
M = 91°-59'-37"
750 365
M = 554.945

⑧ 101-32-30
④ 46-10-00
Ⓐ 101-32-30
Ⓑ 249-15-10
Ⓐ 101-32-31⅓

77.08 199.04 201.49 77.41 = 555.02
78.18 198.78 201.83 76.62 = 555.01
Avg = 555.015 @ 64° = 554.945

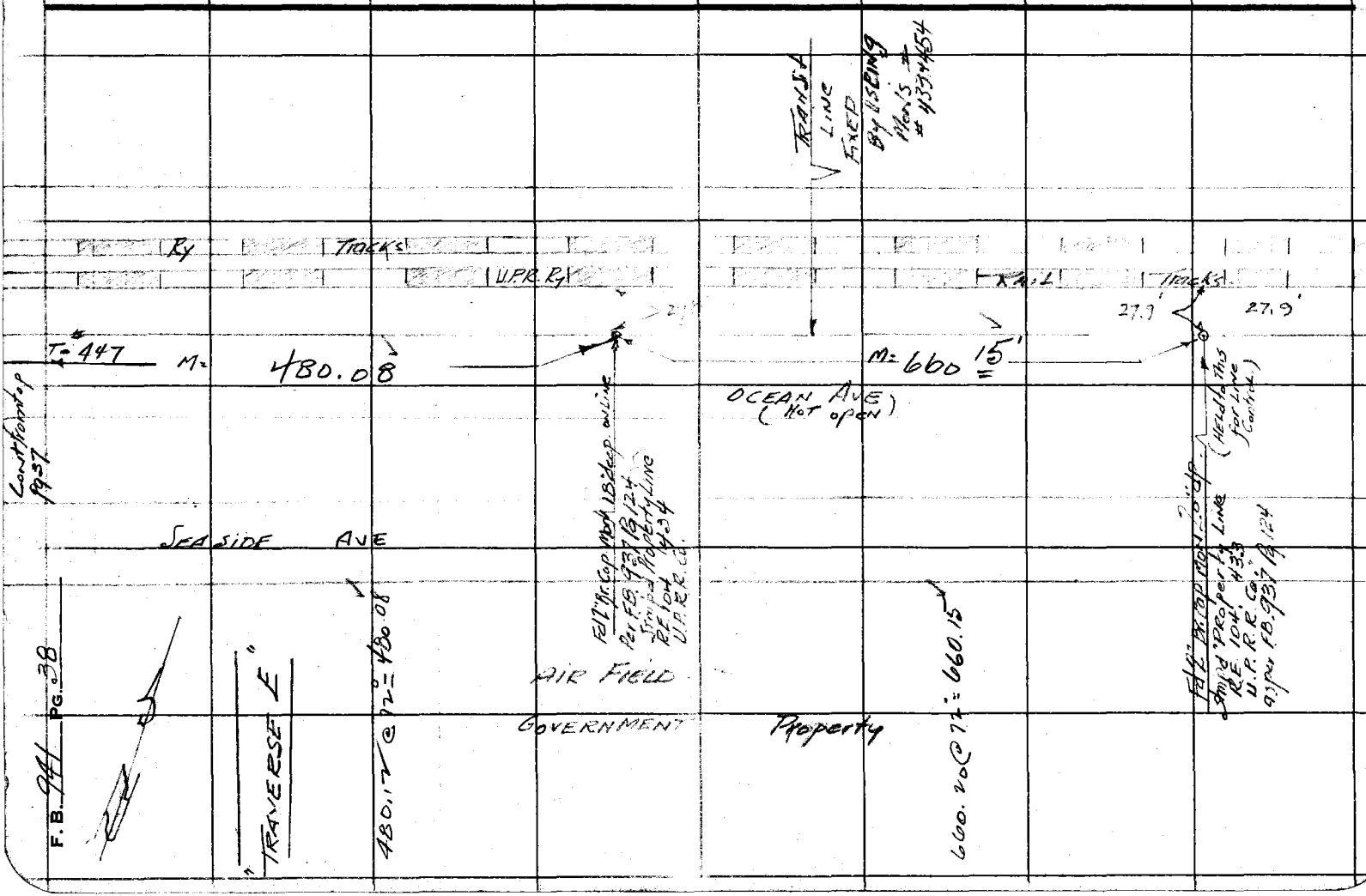
296.79 25.27 8.53 46.20 49.41 172.82 151.37 = 750.39 @ 72° = 750.27

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	Survey of L.B. Subsidence
Map No.	W. 03301 Tape No. 4145 St'd. 68 °F
Office Work	Surveyed by Van Deren
Checked	Notes Van Date 6-10-54
Date	Indexed C. Johnson 6-15-54

F. B. 941 Pg. 39

JN 0301.01

LONG BEACH SUBSIDENCE STUDY

OCEAN BLVD ON THE SOUTH BROADWAY ON THE NORTH

CEDAR AVE ON THE EAST - MAGNOLIA AVE ON THE WEST

6-10-54
Van Deren
Richards
Myers
Bazen
McCullough
Nunez
McKnight
Byrne

For Precise Taping of this area, see F.B.-T-121 Pgs. 5 to 26 Incl.

For Precise Angles (Wild T-3) see F.B.-G-622 and F.B.-G-623

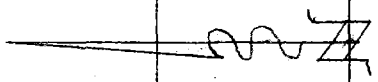
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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. 991 Pg. 40



47 CEDAR AVE 44

BROADWAY

BLVD

46 CHESTNUT AVE 43

OCEAN

45 MAGNOLIA AVE 42

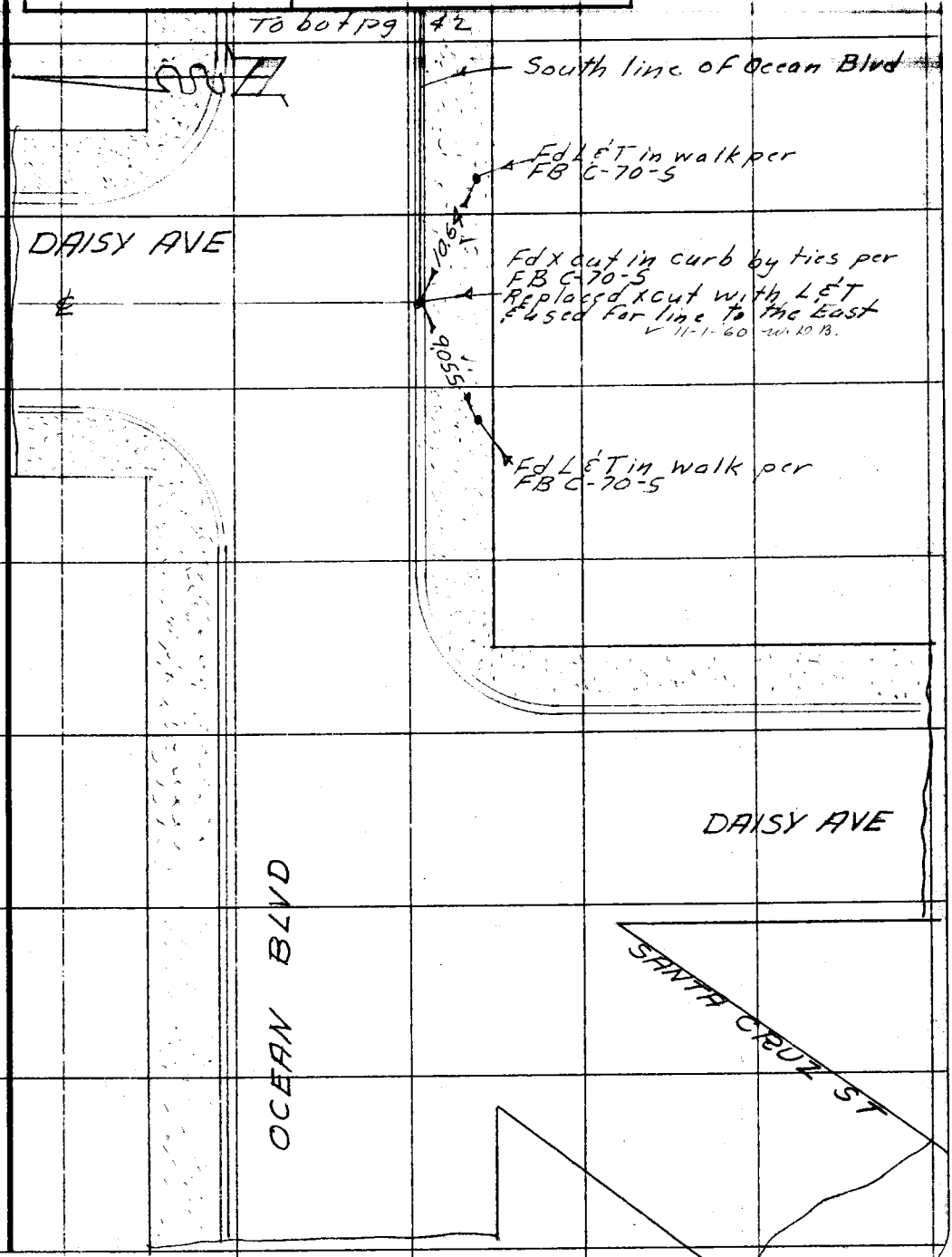
DAISY AVE 41

RETURN TO
LOS ANGELES COUNTY SURVEYOR
720 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. 0301.01 Tape No. 0145 Sr'd. 66 °F
Office Work	Surveyed by Van Deren
Checked	Notes Van Date 6-10-59
Date	Indexed L. C. Johnson

F. B. [illegible] PG. 41



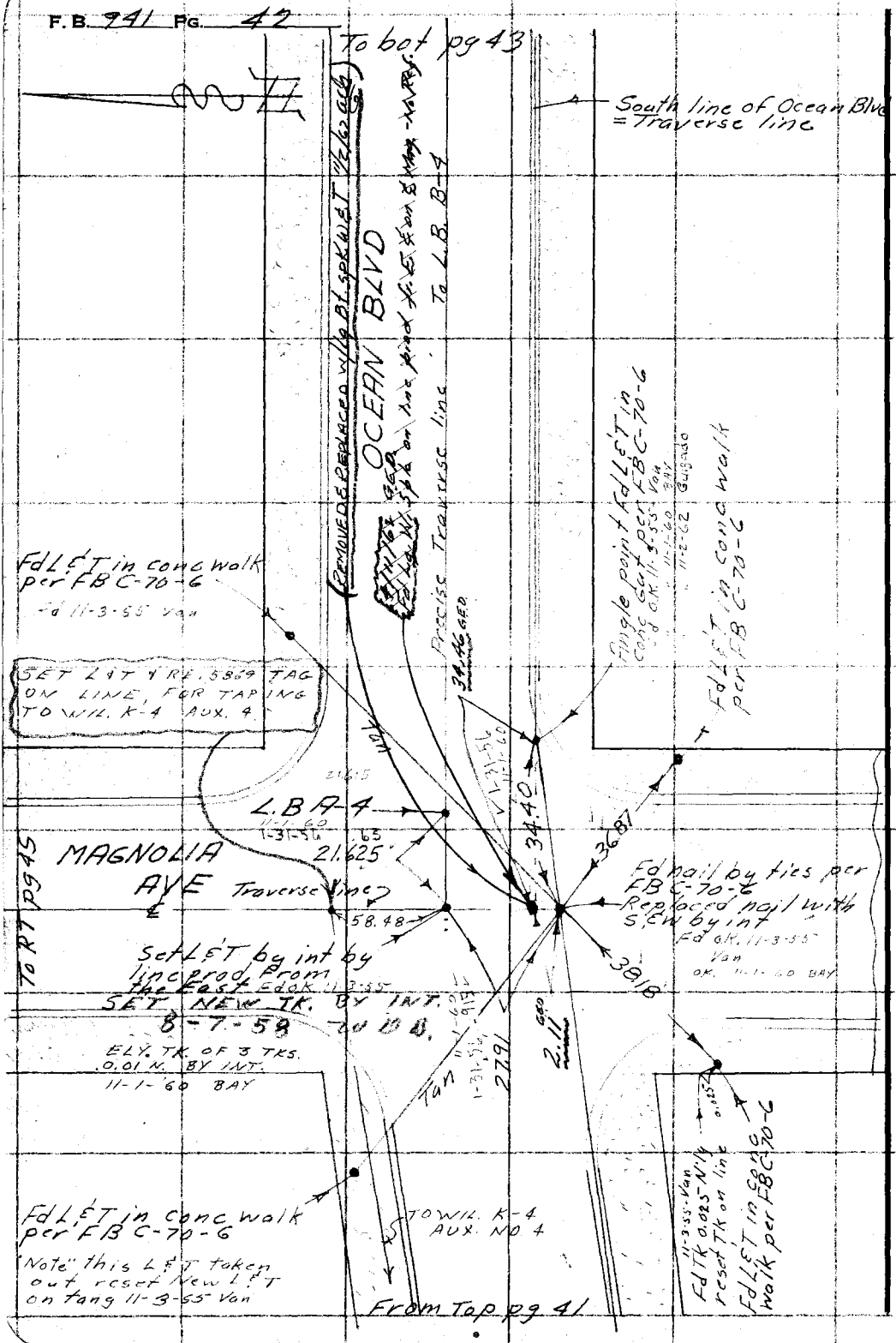
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

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

76F3088 247 4-53

F.B. 741 Pg. 42



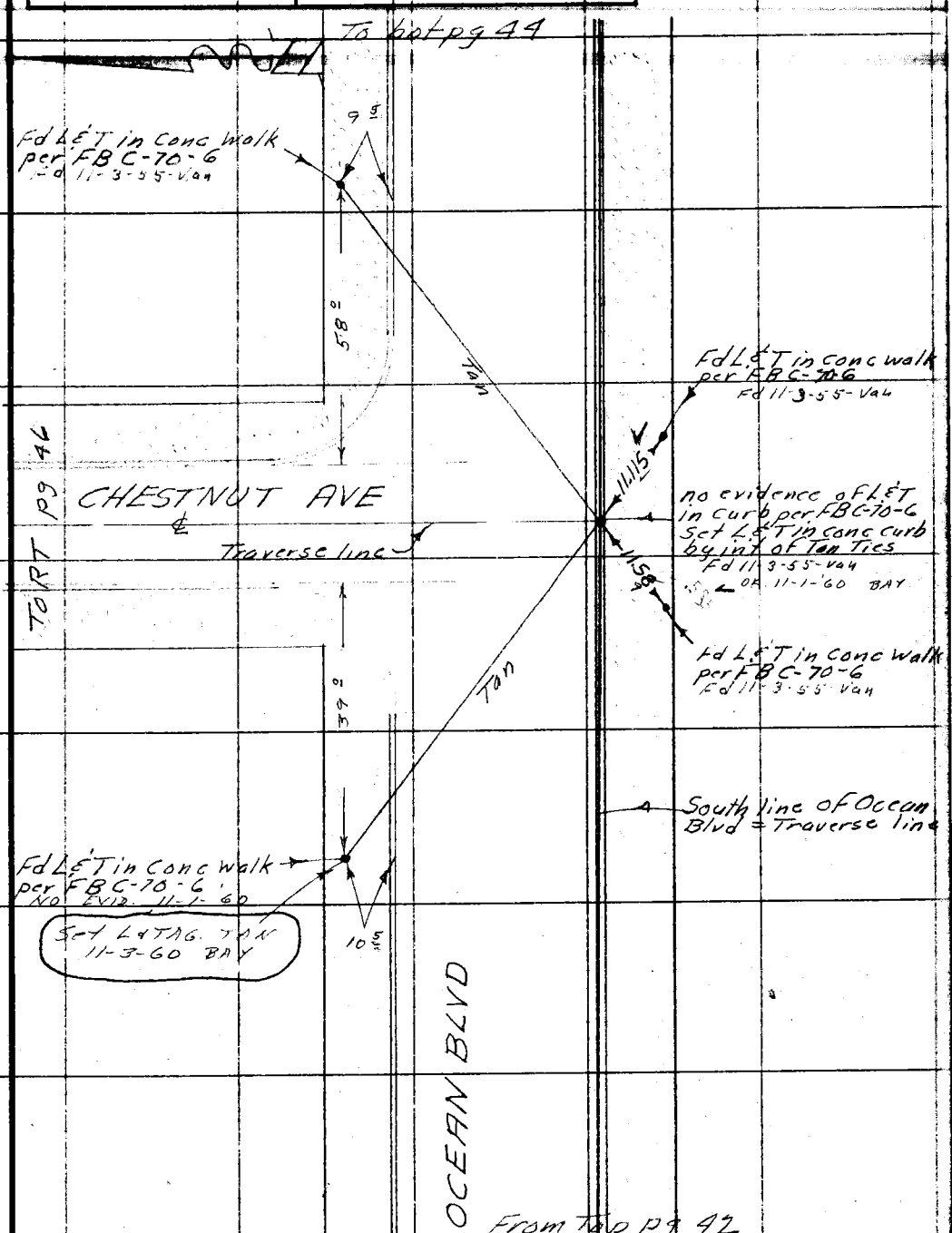
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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	Survey of L.B. Subsidence
Map No.	W. 0030 Tape No. 0145 St'd. 68 °F
Office Work	Surveyed by Van Deren
Checked	Notes Van Date 6-10-54
Date	Indexed A. C. Johnson

F. B. 741 PG. 43

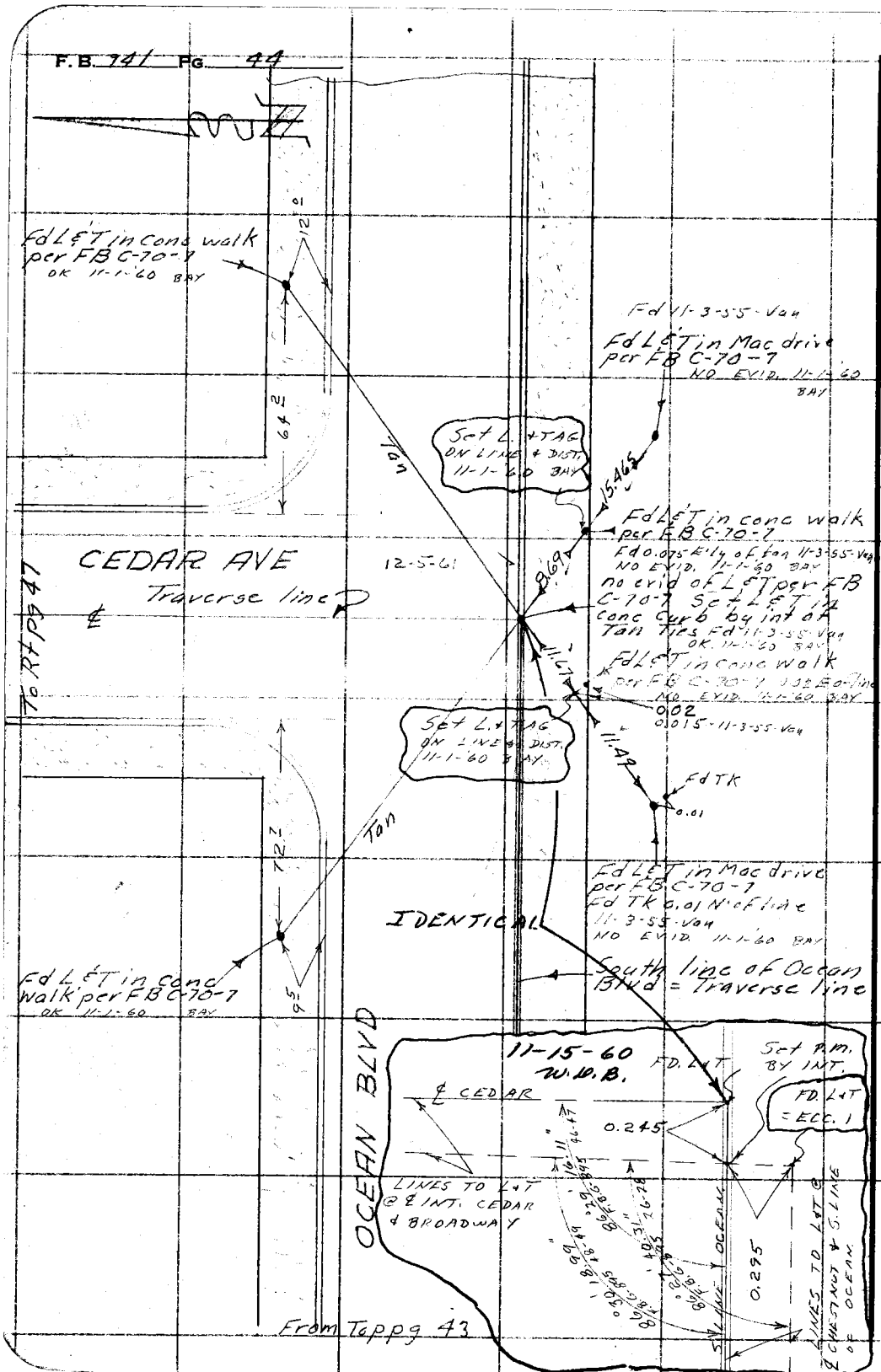


Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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



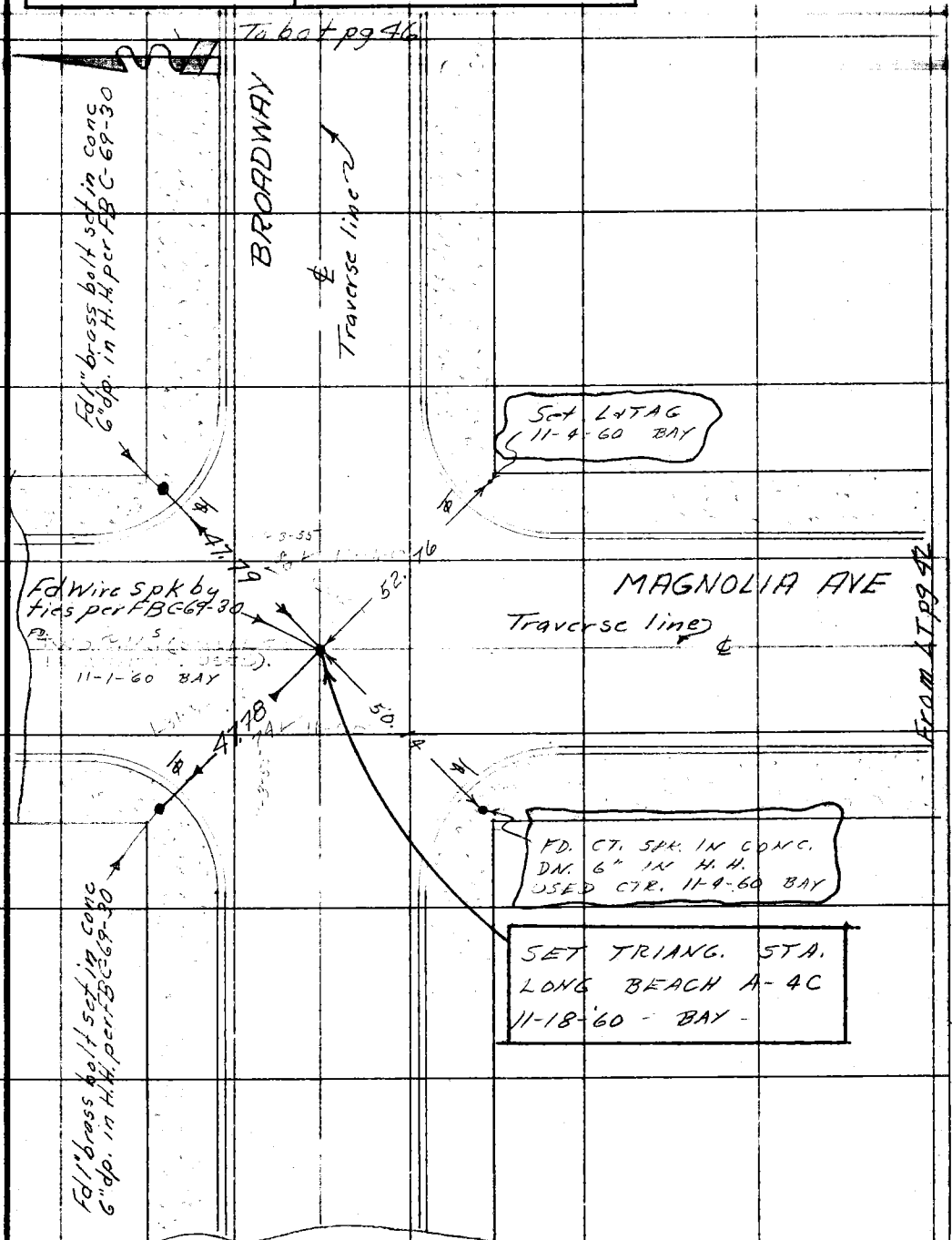
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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. 03010 Tape No. 2145 St'd. 68 °F
Office Work	Surveyed by Van Deren
Checked	Notes Van Date 6-10-54
Date	Indexed A. C. Johnson

F. B. 94A Pg. 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.

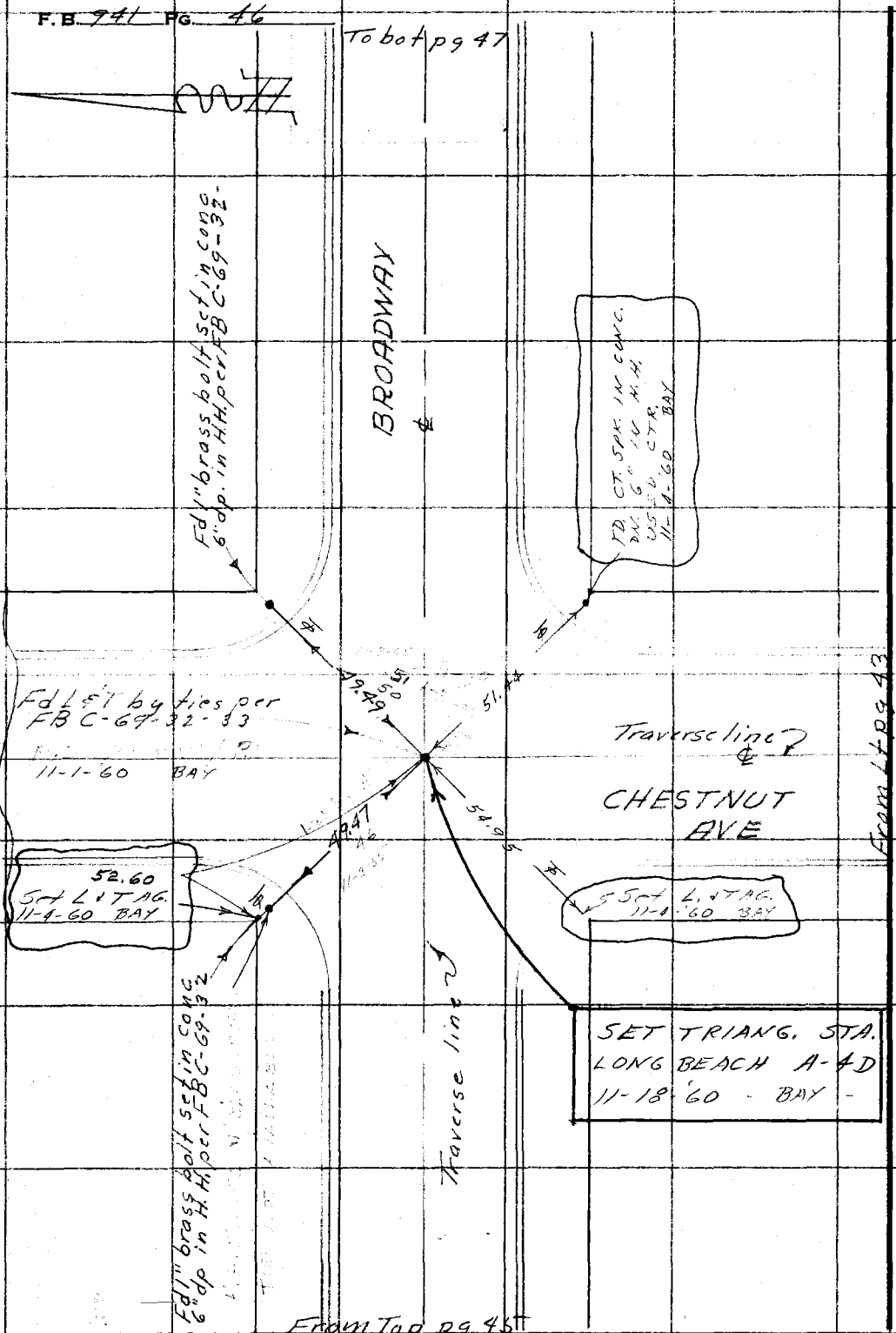
Do not extend notes this side of this line.

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

76F3095 247 4-53

F.B. 941 PG. 46

To bot pg 47



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. 2301.0 Tape No. 0145 Sr'd. 68 °F
Office Work	Surveyed by Van Deusen
Checked	Notes Van Date 6-12-54
Date	Indexed K. C. Johnson

F. B. 941 Pg. 47

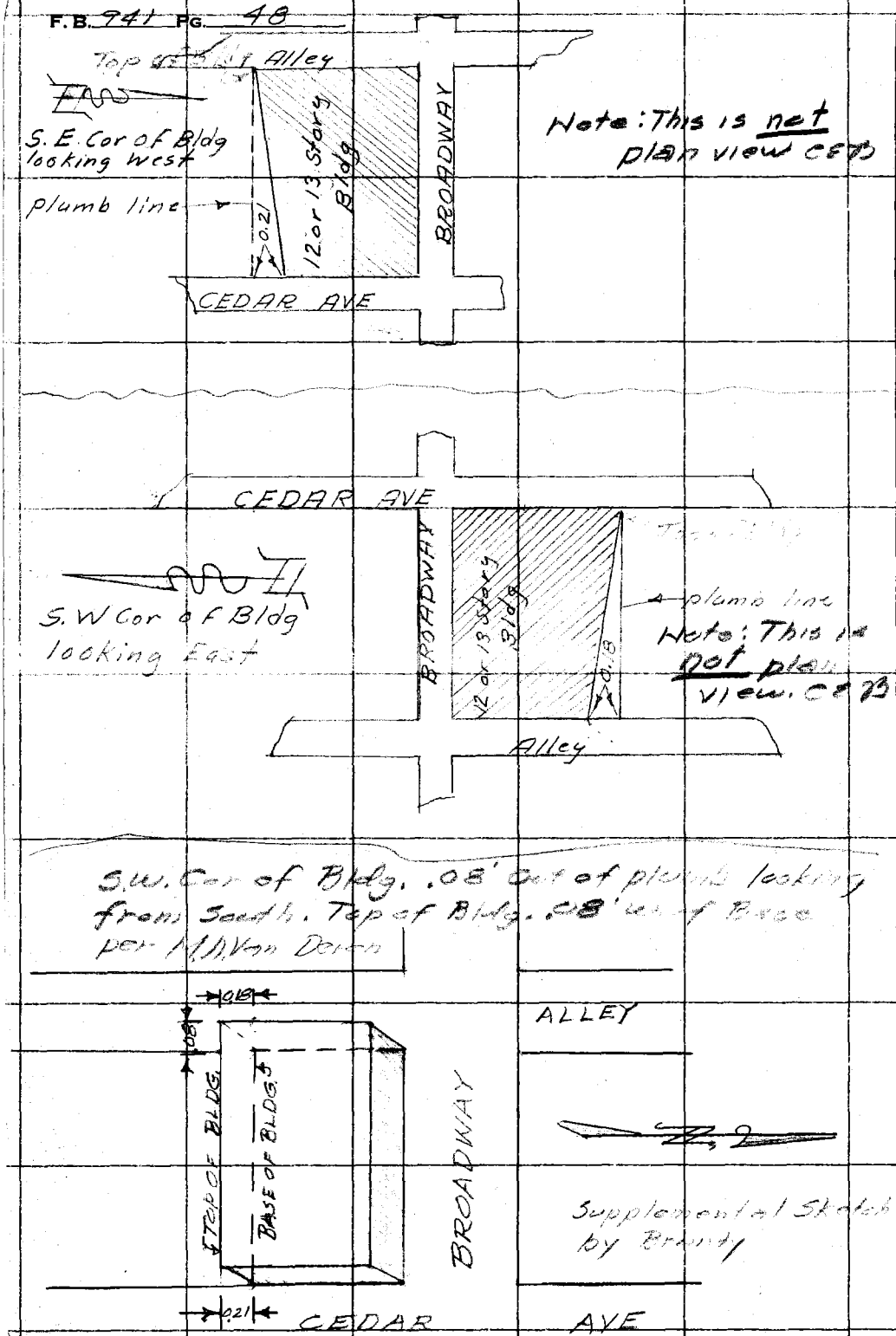
Note: Any Additions or Changes on This Sheet Must be Made or Circled In Red Ink With Date and Name of Person Making Change.

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. 941 PG. 48



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.

761265 Cdb 5-62

LOS ANGELES COUNTY

LETTERGRAM

To: File From C. R. Goss Date Feb. 21, 1966

Subject F.B. 941 No.

Pages 49-50-51-52 missing from book on Feb. 21, 1966. ~~Date~~ whether lost or not been used not determined.

NOTES RED. JOB NO. 0301.09 SURVEY OF L. B. Subsidence F. B. 741 PG. 53
DATE SURVEY BY
NOTES CHKD. NOTES BY [illegible] DATE 6-19-54
DATE INDEXED E. C. Johnson DATE 6-16-54

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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 8-49

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
						J. N. 0301.01
						Long Beach Subsidence
						BENCH LEVELS
						-Area bounded by Broadway, Cedar Ave., Ocean Blvd, & Magnolia Ave.
						6-14-54
						Van Dercn
						Richards
						McCullough
						McKnight
					~~Prelim Elev. May 1954 per City of Long Beach~~	
				Datum: May 1954 Long Beach Harbor Dept. Run (Unadjusted) c e b		
			See pg 60 for Adj. Elev.			

765420 353 8-49

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.

JOB NO 2301.01 SURVEY OF L.B. Subsidence
SURVEY BY M.A. Van Deren
NOTES BY K.C. Johnson DATE 6-4-54
INDEXED DATE
NOTES RED DATE 6/14/54
NOTES CHKD. DATE

F.B. 941 PG. 54

Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
(Fd) BM 158	20.222					BM #158 Elev = 20.222 FB 1444
+ 125'	6.611		6.542			Daisy Ave & Ocean Blvd N.W. Cor
⌅	26.833	+2.190	2.191			Nail in conc Mon in well 20.4 W of W.
− 125'	4.421		4.351			curb of Daisy Ave & 7' N. of N. curb of
T.P.	22.412					Ocean Blvd.
+ 125'	5.914		5.859			
⌅	28.326	+1.106	1.107			
− 125'	4.808		4.752			
T.P.	23.518					
+ 125'	6.430		6.389			
⌅	29.948	+2.224	2.226			
− 125'	4.206		4.163			
T.P.	25.742					
+ 145'	5.987		5.963			
⌅	31.729	+0.068	0.069			
− 145'	6.055		6.032			
(Fd) BM #571	25.674					BM #571 Elev = 25.681 FB 1444
+ 50'	6.071		6.009			Ocean Ave (S. side) & Chestnut Ave. 11.5 south
⌅	31.745	+1.216	1.215			of S. curb & 1.4 E. of E. P/L LET in center of 16" X 12" conc
− 50'	4.855		4.794			block & marked City Property
(Set) BM L.B.C.H. #2	26.890					BM L.B.C.H. #2 Elev =
+ 145'	5.171		5.140			Ocean Blvd & Chestnut Ave N.E. Cor
⌅	32.061	−0.044	0.043			Bt spk in curb 16' E. of E. end C.R.
− 145'	5.215		5.183			
(Set) BM L.B.C.H. #3	26.846					BM L.B.C.H. #3 Elev =
+ 125'	5.470		5.421			Ocean Blvd & Cedar Ave. N.W. Cor
⌅	32.306	+0.531	0.532			Bt spk in curb 9.8' N. of N end C.R.
− 125'	4.939		4.889			
T.P.	27.367					

See pg 60

76S420 353 8-49

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.	27.377 ✓					T.P. per pg 54
+ 110'	5.391		5.325			
⊼	32.768	+0.535 ✓	0.537 ✓			
− 110'	4.856		4.788			
T.P.	27.912 ✓					
+ 85'	4.991		4.947			
⊼	32.803	−1.010 ✓	1.009 ✓			
− 85'	6.001		5.956			
(set) BM L.B.C.H. #4	26.802 ✓					BM L.B. C.H. #4 Elev =
+ 150'	5.055		5.010			Cedar Ave & Broadway S.W. Cor
⊼	31.957	−1.465 ✓	1.468 ✓			Wire Spk in Conc in well. 9' S. of S. Curb &
− 150'	6.520		6.478			7' W. of W. Curb. (in conc walk)
(set) BM L.B.C.H. #5	25.437 ✓					BM L.B. C.H. #5 Elev
+ 145'	5.339		5.311			Broadway & Chestnut Ave. S.E. Cor.
⊼	30.776	−0.521 ✓	0.520 ✓			Cut Spk in Conc in well. 10' S. of Curb &
− 145'	5.860		5.831			8' E. of Curb. in conc walk
T.P.	24.916 ✓					
+ 100'	4.419		4.369			
⊼	29.335	−1.679 ✓	1.682 ✓			
− 100'	6.098		6.051			#6A S.W. Cor
(set) BM L.B.C.H. #6	23.237 ✓					BM L.B. C.H. #6 Elev =
+ 125'	5.812		5.758			Broadway & Magnolia Ave. S.E. Cor.
⊼	29.049	+0.804 ✓	0.806 ✓			Cut Spk in conc in well. 8.6 E. of Curb line
− 125'	5.008		4.952			10.3 South of curb line.
T.P.	24.041 ✓					
+ 120'	5.462		5.397			
⊼	29.503	+0.356 ✓	0.356 ✓			
− 120'	5.106		5.041			
T.P.	24.397 ✓					

See pg 60

NOTES RED. [illegible] JOB NO. 0301.01 SURVEY OF L.B. Subsidence
DATE _____ SURVEY BY [illegible]
NOTES CHKD. _____ NOTES BY [illegible] DATE 6-19-54
DATE _____ INDEXED [illegible] DATE _____

F.B. 741 PG. 55

76S420 353 8-49

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.	24.397					T.P. per pg 55
+ 70'	3.890		3.842			
⊼	28.287	-0.764 ✓	0.764 ✓			
− 70' (set)	4.654		4.606			
BM L.B.C.H. #1	23.633 ✓					BM L.B.C.H. #1 Elev
+ 120'	5.428		5.402			Ocean Blvd & Magnolia Ave N.E. Cor
⊼	29.061	+0.641 ✓	0.639 ✓			Bt Spk in Curb. 18' E. of E. end C.R.
− 120'	4.787		4.763			
T.P.	24.274 ✓					
+ 140'	5.587		5.536			
⊼	29.861	+1.395 ✓	1.395 ✓			
− 140' (Fd)	4.192		4.141			
BM #571	25.669 ✓					BM #571 Elev = 25.681 FB 1444
						Ocean Blvd. (S. side) & Chestnut Ave
						11.5 south of South Curb & 1.4 E.
						of East P/L L&T in center of 16"x12"
						Conc block Marked City Property

See pg 60

JOB NO. 0301.01 SURVEY OF L.B. Subsidence
SURVEY BY M.A. Van Dercn
NOTES BY Van DATE 6-14-54
INDEXED A. C. Johnson DATE
NOTES RED. KRM DATE 6/16/54
NOTES CHKD. DATE

F.B. 941 PG. 56

F.B. 941 Pg. 57

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

Survey of GEODETIC CONTROL
0301.00
W. O. Tape No. 088 St'd. 68 °F
Surveyed by H.R. STOCK
Notes STOCK Date 2-9-55
Indexed A. C. Johnson 2-15-55

L.A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATIONS

WILMINGTON L-6A & AUXILIARIES #1, #2 & #3

Fd WIL. L-6A AUX# 1 Per L.B.H.D. F.B. 1475 Pg 30 see Next Pg.

Note: Permission to Enter the incinerator Bldg. Must be obtained from the Port of Long Beach. Call Mr. Roy Baldridge L.B.H.D. Eng. @ L.B. 67771 Ext. #50

Light Post #87

123.4'

18.1'

Light Post #89

COTTON WAREHOUSE

PIER "A" BERTH 5 (Dock Area)

R.R. TRACKS

ASPHALTIC CONC. PAV.

CONC. CURB & WALK

R.R. CLASSIFICATION YARD

BASE LINE

Light Post #97

90.3'

PIER "A"

Concrete Ramp & Dock

PORT OF LONG BEACH INCINERATOR

Conc. Stack, Approx. 85' high & 12' in diameter

30.7'

18.2'

WATER STORAGE TANK

Light Post #99

25.8'

Set WILMINGTON L-6A See Next Pg.

IDENT.

DETAIL INCINERATOR ROOF

WIL L-6A

13.5'

Set L&T.

4.02

2.6

1.4'

Set L&T

Ventilator

Roof Peak

11.4'

5.15'

6.0'

Fd WIL L-6A AUX#2 Per L.B.H.D. F.B. 1475 Pg 30 See Next Pg.

SOUTH PICO AVE.

TANK ST.

Fd WIL L-6A AUX#3 Per L.B.H.D. F.B. 1475 Pg 30 See Next Pg

0.2 mi.

PANORAMA DR.

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.

76F3095 247 4-53

F. B. 941 Pg. 58

DESCRIPTION
WILMINGTON L-6A

This triangulation Station is in Los Angeles County, in Long Beach harbor Area of City of Long Beach, 450'± east of Pico Ave. 200'± north of Tank St. on the roof of the port of Long Beach Incinerator, 13.5' east of the inside of West Wall and 2.6' North of north face of South wall.

Station Mark: Set a copper tack in drill hole in sheet Metal roof at the intersection of two swing ties from L&T's in Southerly Wall of incinerator bldg. There is a galvanized Steel instrument Stand attached permanently over Station Mark.

Sub Surface Mark: None.
Reference Marks: None.

WILMINGTON L-6A AUX #1

Station Mark: A 2½" Red brass Tablet set in conc. down 8" below pvmt surface in a well 8½" in diameter and protected by Steel Cover. Brass Tablet is Lettered "WIL L-6A AUX. 1".

WILMINGTON L-6A AUX "2

Station Mark: A 2½" Red brass Tablet set in Conc. down 8" below pvmt Surface in a well 8½" in diameter and protected by steel cover. Brass Tablet is Lettered "WIL L-6A AUX. 2".

WILMINGTON L-6A AUX #3

Station Mark: A 2½" Red brass Tablet set in conc. down 8" below pvmt Surface in a well 8½" in diameter and protected by Steel Cover. Brass Tablet is Lettered "WIL L-6A AUX #3."

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
Map No.	W. O. Tape No. St'd. °F
Office Work	Surveyed by DREIER
Checked	Notes DREIER Date 11-3-55
Date	Indexed A. C. Johnson 11-4-55

F. B. 944 Pg. 59

JOB No. 0301.01

LONG BEACH SUBSIDENCE
BENCH LEVELS

AREA BOUNDED BY OCEAN BLVD, CHERRY AVE, BROADWAY AND MAGNOLIA AVE.

DREIER
MOODY
SONNENSCHEIN
RODRIGUEZ
MELENDEZ

Note: Any Additions or Changes on This Sheet Must 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 4-58

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.

SUMMATION OF PRECISE LEVELS AT LONG BEACH AROUND AREA BOUNDED BY OCEAN BLVD, CEDAR AVE, BROADWAY & MAGNOLIA AVE.

DATUM: AUG. 1955 LONG BEACH HARBOR DEPT. RUN
B.M. 158, M.L.L.W. ELEV. 22.652
- 2.800
MEAN SEA LEVEL DATUM = 19.852

B.M.	DIFF. IN ELEVATION 1ST RUN	2ND RUN	RERUN	MEAN DIFF. IN ELEV.	UNADJUSTED ELEV.	19.788 ADJUSTED ELEV.
B.M. 158					19.852	~~19.852~~
TO B.M. L.B.CH#1	+ 3.447 ✓	- 3.450 ✓		+ 3.449 ✓	23.301 ✓	23.237 ✓
TO B.M. 571	+ 2.049 ✓	- 2.048 ✓		+ 2.048 ✓	25.349 ✓	+ 2.050 25.287
TO B.M. L.B.CH#2	+ 1.225 ✓	- 1.223 ✓		+ 1.225 ✓	26.574 ✓	+ 1.226 26.513
TO " L.B.CH#3	- 0.027 ✓	+ 0.027 ✓		- 0.027 ✓	26.547 ✓	- .026 26.487
TO " L.B.CH#4	+ 0.107 ✓	- 0.099 ✓	+ 0.094 ✓ - 0.094 ✓	+ 0.094 ✓	26.641 ✓	+ .097 26.584
TO " L.B.C.H#5	- 1.485 ✓	+ 1.481 ✓	- 1.480 ✓ + 1.482 ✓	- 1.481 ✓	25.160 ✓	- 1.479 25.105
TO " L.B.C.H#6	- 2.232 ✓	+ 2.231 ✓		- 2.231 ✓	22.929 ✓	- 2.229 22.876
TO B.M. L.B.C.H#1	+ 0.356 ✓	- 0.360 ✓		+ 0.358 ✓	23.287 ✓	+ .361 23.237

Date	Elevation M.L.L.W.	Correction	Elevation M.S.L.
AUG. 1954	22.959'	-2.80'	20.159
AUG. 1955	22.652'	-2.80'	19.852
NOV. 3. 1955			-0.064
			19.788

$\frac{2.5}{12} \times .307 = .064$

USED FOR NOV. 1955 SURVEY

F.B. 941 PG. 60

76F309S CE #247—3-57

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

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

Do not extend notes this side of this line.

SUMMATION OF PRECISE LEVELS AT LONG BEACH COURT HOUSE

DATUM: MAY 1958 LONG BEACH HARBOR DEPT RUN.
B.M. 158, M.L.L.W. ELEV. = 21.925
MEAN SEA LEVEL DATUM -2.800
19.125
-.061 *
19.064

B.M.	Difference in Elevation	Mean	UNADJUSTED ELEV.	Adjusted Elevations
B.M. 158			19.064 ✓	19.061 ✓
.09 to B.M.L.B.C.H.#1	+3.509 : -3.507 .	+3.508 ✓	22.572 ✓	22.572 ✓
.10 To B.M. 571	+2.085 +2.087 -2.082 -2.084	+2.084 ✓	24.656 ✓	24.657 ✓
.02 to B.M.L.B.C.H.#2	+1.237 -1.238	+1.238 ✓	25.894 ✓	25.895 ✓
.06 to B.M.L.B.C.H.#3	+0.001 -0.000	+0.001 ✓	25.895 ✓	25.896 ✓
.13 to B.M.L.B.C.H.#4	+0.169 +0.170 -0.164 -0.168	+0.168 ✓	26.063 ✓	26.064 ✓
.06 to B.M.L.B.C.H.#5	-1.508 +1.507	-1.508 ✓	24.555 ✓	24.556 ✓
.10 to B.M.L.B.C.H.#6	-2.262 +2.262	-2.262 ✓	22.293 ✓	22.295 ✓
.13 to B.M.L.B.C.H.#1	+0.277 -0.277	+0.277 ✓	22.570 ✓	22.572 ✓
* B.M. 158 Aug 1955 / May 1958 (Per Long Beach Harbor Dept.)	22.652 21.925 -.727	.0605 per yr. ✓	-.002 ✓ .69 mi ✓	May 1958 - Aug 1958 = -.061 ✓

August 21, 1958

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

Survey of Long Beach Subdivision
JN Tape Std °F
Surveyed by:
Notes
Date
Indexed
C. Johnson
8-12-58

F. B. 941 Pg. 60-A

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

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

Do not extend notes this side of this line.

F. B. ____ PG. ____

76P526 S & E #379 1-54

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party G.E. DREIER Weather SMOGGY Inst. No. 50010
Notes by G.E. DREIER Time 10:50 TO 11:15 Rod No. 11 & 12

Name L.B. SUBSIDENCE
Job No. 0301.01
From ..... To .....
Date 11-3-55
Indexed A. C. Johnson

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	6.098		220		#11	4.372		241		B.M. L.B.C.H. #1
	5.878		217			4.131		239		OCEAN BLVD. & MAGNOLIA AVE, N.E. COR
	5.661		437 ✓			3.892		480 ✓		B.SPK. IN CURB, 18' E. OF E END C.R.
1	17.637 ✓	5.879 ✓		.437 ✓	70°	12.395 ✓	4.132 ✓		480 ✓	
	6.382		187			4.679		184		
	6.195		186			4.495		184		+12.074 ✓
	6.009		373 ✓			4.311		368 ✓		-[illegible].627 ✓
2	18.586 ✓	6.195 ✓		.810 ✓		13.485 ✓	4.495 ✓		848 ✓	+[illegible].447 ✓
		12.074 ✓					8.627 ✓			B.M. 158
										DAISY AVE. & OCEAN BLVD, N.W. COR.
										NAIL IN CONC. MON. IN WELL, 20.4' W.
										OF W. CURB OF DAISY AVE. & [illegible] N. OF N.
										CURB OF OCEAN BLVD.
	4.605		186		#11	6.308		186		
	4.419		184			6.122		185		
	4.235		370 ✓			5.937		371 ✓		48.[illegible]71 ✓
1	13.259 ✓	4.420 ✓		.370 ✓		18.367 ✓	6.122 ✓		.371 ✓	-12.[illegible]21 ✓
										-3.4[illegible]0 ✓
	4.392		241			6.118		219		
	4.151		240			5.899		218		
	3.911		481 ✓			5.681		437 ✓		
2	12.454 ✓	4.151 ✓		.851 ✓		17.698 ✓	5.899 ✓		.808 ✓	B.M. L.B.C.H. #1
		8.571 ✓					12.021 ✓			OCEAN BLVD. & MAGNOLIA AVE. FOR.
										B.SPK. IN CURB, 18' E. OF [illegible] C.R.

F.B. [illegible] P.G. 61

76P526 S & E #379 1-54

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party ..... Weather ..... Inst. No. .....

Notes by ..... Time ..... Rod No. .....

Name .....
Job No. .....
From ..... To .....
Date .....
Indexed .....

Number of Station	BACKSIGHT				B. S. Rod and Temp.	FORESIGHT				DESCRIPTION AND REMARKS
	Thread Readings	Mean	Thread Intervals	Sum of Intervals		Thread Readings	Mean	Thread Intervals	Sum of Intervals	

F.B. 941 P.G. 62

76P526 S & E #379 1-54

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party G. E. DREIER Weather THIN FOG Inst. No. 50010
Notes by G. E. DREIER Time 9:15 to 11:30 Rod No. 11 & 12

Name L. B. [illegible]
Job No. 030[illegible]
From ..... To .....
Date 11-3-55
Indexed A. C. Johnson

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	6.358		076		#11	5.118		061		B.M. 571 ELEV.
	6.282		076			5.057		062		OCEAN BLVD S. SIDE & CHESTNUT AVE, 11.5
	6.206		152			4.995		123		S. OF S. CURB, 1.4' E. OF E P/L, L.&T.
1	18.846	6.282		.152	62°	15.170	5.057		.123	IN CTR. OF 16"x12" CONC. [illegible] MARKED [illegible]TY PROPERTY"
										B.M. L.B.CH. #2
										OCEAN BLVD & CHESTNUT [illegible] N.E COR,
										B. SPK IN CB. 16' E OF [illegible]
	5.746		237			5.757		222		+ 5.509
	5.509		238			5535		220		[illegible]
	5.271		475			5.315		442		[illegible]
2	16.526	5.509		.627		16.607	5.536		.565	
										B.M. L.B.CH # 3
										OCEAN BLVD. & CEDAR AV[illegible]
										B. SPK IN CURB [illegible] N. OF [illegible]
	6.069		169			5.503		168		
	5.900		166			5.335		167		
	5.734		335			5.168		335		
3	17.703	5.901		.962		16.006	5.335		.900	

F.B. [illegible] P.G. 63

76P526 S & E #379 1-54

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party G.E. DREIER Weather THIN FOG Inst. No. 50010
Notes by G.E. DREIER Time 9:15 TO 11.30 Rod No. 11 & 12

Name [illegible]
Job No. 0301.01
From ..... To .....
Date 11-3-55
Indexed A. C. Johnson

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	5.819	5.901	168	.962		5.249	5.235	170	.900	
	5.651		171			5.129		168		
	5.480		339			4.961		338		
4	16.950	5.650		1.301		15.389	5.130		1.238	
	5.338		153			6.317		154		+16.736
	5.185		153			6.163		151		-16.629
	5.032		306			6.012		305		+0.107
5	15.555	5.185		1.607		18.492	6.164		1.543	
		16.736					16.629			B.M. L.B.CH #4 CEDAR AVE. & BROADWAY S.W. COR. WIRE SPK IN CONC, IN WELL, 10' S. OF CURB, & 8' E. OF CURB IN CONC. WALK
	5.459		223			6.971		252		
	5.236		225			6.719		250		+5.235
	5.011		448			6.469		502		-6.720
6	15.706	5.235		2.045		20.159	6.720		2.045	-1.485
										B.M. L.B.CH #5 BROADWAY & CHESTNUT AVE. S.E. COR. C.SPK IN CONC, IN WELL, 10' S. OF CURB & 8' E. OF CURB, IN CONC. WALK

F.B. 941 P.G. 64

76P526 S & E #379 1-54

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

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party G. E. DREIER Weather HAZY SUN Inst. No. 50010
Notes by G. E. DREIER Time 9:15 TO 11:30 Rod No. 11 & 12

Name L. B. SURVEYANCE
Job No. C30131
From To
Date 11-3-55
Indexed A C [illegible]

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	5.832		194	2055 ✓		6.421		202	2.045 ✓	
	5.638		195			6.219		200		
	5.443		389 ✓			6.019		402 ✓		
7	16.913 ✓	5.638 ✓		2.444 ✓		18.659 ✓	6.220 ✓		2.447 ✓	
	4.925		173			6.579		177		+ 1.810 ✓
	4.752		173			6.402		177		- 3.622 ✓
	4.579		346 ✓			6.225 ✓		354 ✓		- 2.232 ✓
8	14.256 ✓	4.752 ✓		2.790 ✓		19.206 ✓	6.402 ✓		2.801 ✓	
	10.390 ✓					12.622				B.M., L.S.C.E. #6
										BRASS CAP IN CONCRETE MONUMENT AT SE COR. OF SEC. 10, T. 1 S., R. 10 W., S.B.B.&M., 8 FT. N. OF CURB LINE, 10.3 E. OF CURB LINE.
	6.269		164			5.591		153		
	6.105		161			5.438		154		
	5.944 ✓		325 ✓			5.284 ✓		307 ✓		
9	18.318 ✓	6.106 ✓		3.115 ✓		16.313 ✓	5.438 ✓		3.108 ✓	
	5.699		154			5.442		152		
	5.545		153			5.290		154		
	5.392 ✓		307 ✓			5.136 ✓		306 ✓		
10	16.636 ✓	5.545 ✓		3.422 ✓		15.868 ✓	5.289 ✓		3.414 ✓	
	11.651 ✓					10.727 ✓				

F.B. [illegible] P.G. [illegible]

76P526 S & E #379 1-54

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party G.E. DREIER Weather SMOGGY Inst. No. 50010
Notes by G.E. DREIER Time 9:15 TO 1:13 Rod No. 11 & 12

Name [illegible]
Job No. [illegible]
From ..... To .....
Date 11-3-55
Indexed A. C. Johnson

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	4.825	11.651 ✓	172	3.422 ✓		5.411	10.727 ✓	190	3.414 ✓	
	4.653		172			5.221		189		+16.304 ✓
	4.481		344 ✓			5.032		379 ✓		-15.948 ✓
11	13.959 ✓	4.653 ✓		3.766 ✓		15.664 ✓	5.221 ✓		3.793 ✓	+0.356 ✓
		16.304 ✓					15.948 ✓			B.M. L.BCH #1
										OCEAN BLVD. & MAGNOLIA AVE., N.E. COR.
										B.SPK IN CURB, 18' E. OF E. END C.R.
	6.008		207			5.259		189		
	5.801		203			5.070		191		
	5.598		410 ✓			4.879		380 ✓		
12	17.407 ✓	5.802 ✓		4.176 ✓		15.208 ✓	5.069 ✓		4.173 ✓	
	5.943		174			4.631		178		+11.572 ✓
	5.769		172			4.453		175		-9.523 ✓
	5.597		346 ✓			4.278		353 ✓		+2.049 ✓
13	17.309 ✓	5.770 ✓		4.522 ✓		13.362 ✓	4.454 ✓		4.526 ✓	B.M. 571
		11.572 ✓					9.523 ✓			OCEAN BLVD, S. SIDE, & CHESTNUT AVE
										11.5' S. OF S. CURB & 1.4' E. OF E. P/L
										L.&T. IN CENTER OF 16"x12" CONC. BLOCK
										MARKED "CITY PROPERTY"

F.B. 941 P.G. 66

76P526 S & E #379 1-54

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

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party G.E. DREIER Weather SMOGGY Inst. No. 50010
Notes by G.E. DREIER Time 11:30 TO 12:00 Rod No 11 & 12

Name L.B. SUBDIVISION
Job No. 2501-51
From To
Date 11-3-55
Indexed A.O. Johnson

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	4.598		180			5.905		174		B.M. 571
	4.418		177			5.731		173		OCEAN BLVD, S. SIDE, E. OF MAGNOLIA AVE
	4.241		357			5.558		347		11.5' S. OF S. CURB & 1.4' E. OF E. P/L
1	13.257	4.419		.357		17.194	5.731		.347	
	5.218		191			5.972		209		9.447
	5.027		189			5.763		205		11.495
	4.838		380			5.558		414		2.048
2	15.083	5.028		.737		17.293	5.764		.761	
		9.447					11.495			
										B.M. LB-54 #1
										OCEAN AVE. & MAGNOLIA AVE, NE'LY
										B.S. IN CURB 18' E OF E. END CURB
	5.468		187			4.709		178		
	5.221		183			4.531		176		
	5.038		370			4.355		354		
3	15.667	5.222		1.107		13.595	4.532		1.115	
	5.319		154			5.699		152		
	5.165		153			5.547		152		
	5.012		307			5.395		304		
4	15.496	5.165		1.414		16.641	5.547		1.419	
		10.387					10.079			

F.B. 37 P.G. 67

76P526 S & E #379 1-54

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party G. E. DREIER Weather HAZY SUN Inst. No. 50010
Notes by G. E. DREIER Time 1:00 TO 2:00 Rod No. 11 & 12

Name L. B. SUPERINTENDENT
Job No. 0301.01
From ..... To .....
Date 11-3-55
Indexed A. C. Johnson

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	5.571	10.387	156	1.414		6.245	[illegible]	162	1.419	
	5.415		153			6.083		160		+15.803
	5.262		309			5.923		322		-16.[illegible]
5	16.248	5.416		1.723	70°	8.251	[illegible]		1.741	-[illegible]
		15.803					[illegible]			B.M. L.B.CH #6 BROADWAY & MAGNOLIA AVE. S.E. COR., C. SPK IN CONC., IN WELL, 8.6' E. OF CURB LINE, 10.3' S. OF CURB LINE
	6.608		177			4.956		174		
	6.431		176			4.782		170		
	6.255		353			4.612		344		
6	19.294	6.431		2.076		14.350	4.783		2.085	
	6.459		201			5.871		196		+12.689
	6.258		200			5.675		196		-10.458
	6.058		401			5.479		392		+2.231
7	18.775	6.258		2.477		17.025	5.675		2.477	
		12.689					10.458			B.M. LBCH #5 BROADWAY & CHESTNUT AVE, S.E. COR. C. SPK. IN CONC., IN WELL, 10' S. OF CURB & 8' E. OF CURB, IN CONC. WALK

F.B. 941 P.G. 68

76P526 S & E #379 1-54

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party G. E. Dreier Weather HAZE-SUN Inst. No. 50010
Notes by G. E. Dreier Time 1:00 TO 2:00 Rod No. 11 & 12

Name L. B. [illegible]
Job No. 0301.01
From ..... To .....
Date 11-3-55
Indexed A. C. Johnson

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	6.589		242	2.477		5.101		236	2.477	
	6.347		242			4.865		234		+ [illegible].347
	6.105		484			4.631		470		- [illegible].866
8	19.041	6.347		2.961		14.597	4.866		2.947	+ [illegible].481
										B. M. L.304 #4 CEDAR AVE. & BROADWAY, [illegible] COR WIRE SPK IN CONC, IN WEL[illegible] [illegible] CURB, & 8' E. OF CURB, [illegible] WALK
	6.327		153			5.341		150		
	6.174		154			5.191		152		
	6.020		307			5.039		302		
9	18.521	6.174		3.268		15.571	5.190		3.249	
	5.283		168			5.80[illegible]		170		
	5.115		167			5.631		168		
	4.948		335			5.471		338		
10	15.346	5.115		3.603		16.919	5.640		3.587	
	5.419		167			5.979		168		+ 16.[illegible]42
	5.252		165			5.811		169		- 16.[illegible]11
	5.087		332			5.642		337		- [illegible]
11	15.758	5.253		3.935		17.432	5.811		3.924	
		16.542					16.641			

F.B. 94 P.G. 62

76P526 S & E #379 1-54

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party G. E. DREIER Weather SUN - HAZE Inst. No. 50010
Notes by G. E. DREIER Time 1:00 TO 2:00 Rod No. 11 & 12

Name L. B. SUBSIDENCE
Job No. [illegible]
From ..... To .....
Date 11-3-55
Indexed A. C. Johnson

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
				3.935					3.924	B.M. LBCH #3 OCEAN BLVD & CEDAR AVE., N.W. COR., B. SPK IN CURB, 9.8' N. OF N. END C.R.
	5.832		221			5.822		238		
	5.611		219			5.584		236		+ 5.612
	5.392		440			5.348		474		- 5.585
12	16.835	5.612		4.375		16.754	5.585		4.398	+ 0.027
										B.M. LBCH #2 OCEAN BLVD. & CHESTNUT AVE, N.E. COR. B. SPK IN CURB, 16' E. OF E. END C.R.
	5.038		063			6.278		078		
	4.975		061			6.200		076		+ 4.976
	4.914		124			6.124		154		- 6.201
13	14.927	4.976		4.499		18.602	6.201		4.552	- 1.225
										B.M. 571 OCEAN BLVD, S. SIDE, & CHESTNUT AVE, 11.5' S. OF S. CURB, 1.4' E. OF E. P/L, L.&T. IN CENTER OF 16"x12" CONC. BLOCK, MARKED "CITY PROPERTY"

F.B. 941 P.G. 70

76P526 S & E #379 1-54

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

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party G.E. DREIER Weather HAZE SUN Inst. No. 50010
Notes by G.E. DREIER Time 2:15 to 2:40 Rod No. 11 & 12

Name L.B. [illegible]
Job No. 0321.01
From ..... To .....
Date 11-3-55
Indexed A. C. Johnson

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	RERUN DESCRIPTION AND REMARKS
1	5.961 5.794 5.628 17.383	5.794	167 166 333	333	#11 70°	5.407 5.238 5.071 15.716	5.239	169 167 336	336	B.M. L.B.C.H. #3 OCEAN BLVD & CEDAR AVE N.W. COR. B. SPK IN CURB, 8' N. of [illegible] END C.R.
2	5.750 5.579 5.412 16.741	5.580	171 167 338	671		5.223 5.055 4.888 15.166	5.055	168 167 335	671	+1[illegible].583 -1[illegible].489 +[illegible].094
3	5.362 5.209 5.057 15.628	5.209 16.583	153 152 305	.976		6.348 6.195 6.043 18.586	6.195 16.489	153 152 305	.976	B.M. L.B.C.H. #4 CEDAR AVE. & BROADWAY, S.W. COR. WIRE SPK. IN CONC. [illegible] WELL, [illegible] S. OF CURB, & 8' E. OF CURB, [illegible]
										+5.1[illegible]5 -6.6[illegible]5 -1.4[illegible]0
4	5.399 5.175 4.952 15.526	5.175	224 223 447	1.423		6.906 6.655 6.403 19.964	6.655	251 252 503	1.479	B.M. L.B.C.H. #5 BROADWAY & CHESTNUT A[illegible], S.W. COR. C. SPK. IN CONC. IN WELL, [illegible] CURB & 8' E. OF CURB, IN CO[illegible] WALK

F.B. 94 P.G. 71

76P526 S & E #379 1-54

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party G.E. DREIER Weather HAZE SUN Inst. No. 50010
Notes by G.E. DREIER Time 2:40 to 2:50 Rod No. 11 & 12

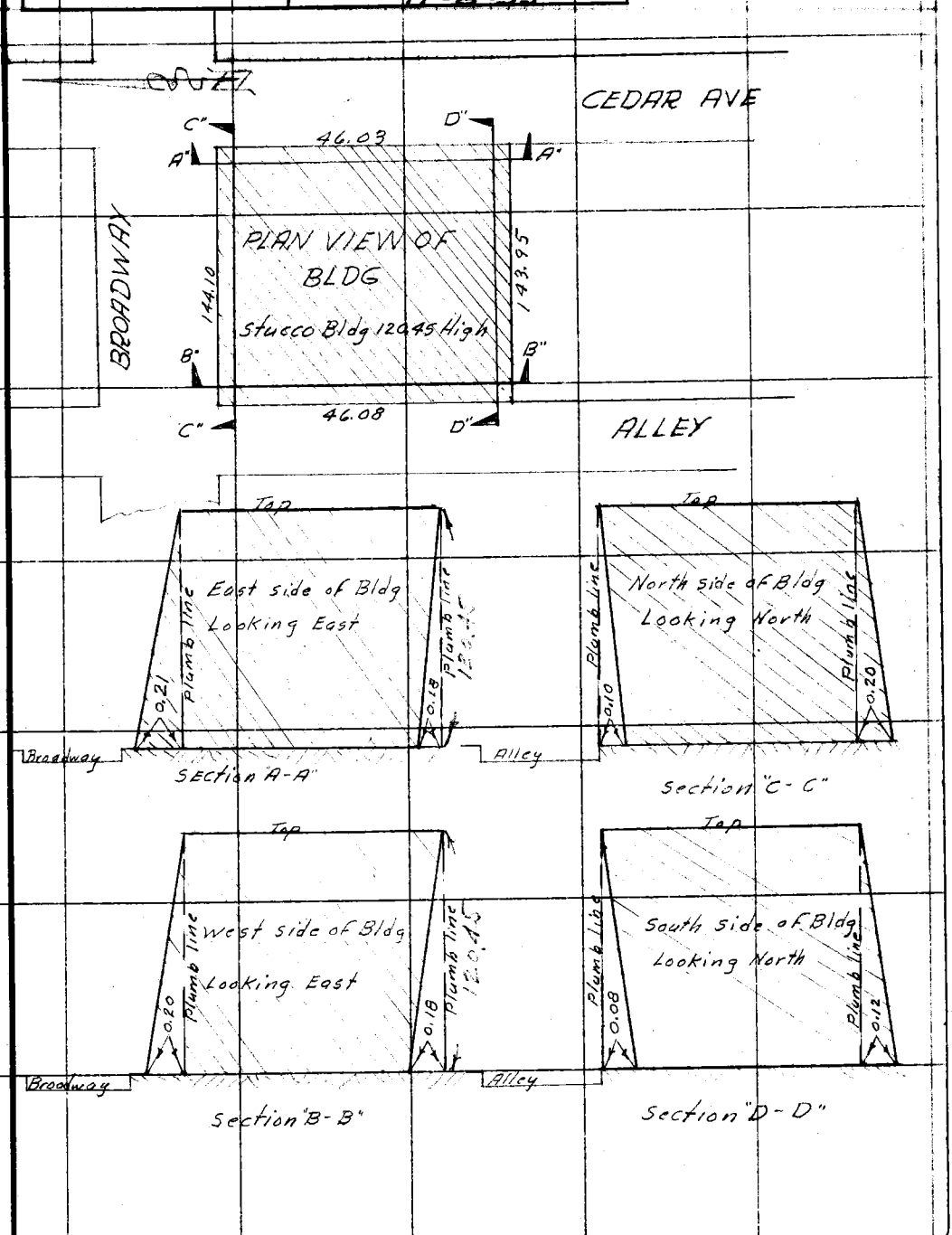
Name L.B. SUBSIDENCE
Job No. 0301.01
From ..... To .....
Date 11-3-55
Indexed A. C. Johnson

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	RERUN DESCRIPTION AND REMARKS
	6.562		243		#11	5.072		234		B.M. L.B. CH. #5
	6.319		240			4.838		235		BROADWAY & CHESTNUT AVE., S.E. COR.
	6.079		483			4.603		469		CUT SPK. IN CONC. IN WELL, 10' S. OF CURB
1	18.960	6.320		.483	68°	[illegible]	[illegible]		.469	& 8' E. OF CURB IN CONC. WALK
								+6.320		B.M. L.B. CH. #4
								-4.838		CEDAR AVE. & BROADWAY, S.W. COR.
								+1.482		WIRE SPK. IN CONC. IN WELL, 9' S. OF S. CURB, & 7' W. OF W. CURB, IN CONC. WALK
	6.188		152			5.206		154		
	6.036		150			5.052		153		
	5.886		302			4.899		307		
2	18.110	6.037		.784		15.157	5.052		.776	
	5.269		170			5.791		172		+16.250
	5.099		168			5.619		168		-16.344
	4.931		338			5.451		340		-0.094
3	15.299	5.100		.123		16.861	5.620		.116	
	5.281		169			5.839		167		B.M. L.B. CH. #3
	5.112		165			5.672		167		OCEAN BLVD. & CEDAR AVE., N.W. COR.
	4.947		334			5.505		334		B. SPK. IN CURB, 9.8' N. OF N. END C.R.
4	15.340	5.113		1.457		17.016	5.672		1.450	
		16.250					16.344			

F.B. 941 P.G. 72

Notes Ck'd by	Survey of L.B. Subsidence
Map No. 64-23-3	W. 0030101 Tape No. 0145 St'd. 68 °F
Office Work Baile	Surveyed by M.A. Van Deren
Checked	Notes Van Date 11-7-55
Date 11-7-55	Indexed A. C. Johnson 11-8-55

F. B. [illegible] PG. 73



Note: Any Additions or Changes on This Sheet Must 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.

76F3O9S 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. 741 PG. 24

Notes Ck'd by	Survey of LONG BEACH [illegible]
Map No.	W. O. 0021.49 Tape No. 0146 St'd. [illegible] °F
Office Work	Surveyed by
Checked	Notes J.M. Date 1-31-56
Date	Indexed A. C. Johnson 2-15-56

F. B. 941 PG. 95

J.N. 0021.49

LONG BEACH COUNTY BUILDING CITY

CONTROL LINES

FOR

TOPOGRAPHY

J. MUSLIN
A. CARRASCO
J. TAPOVA
T. OHASHI
T. LUNA

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

Do not extend notes this side of this line.

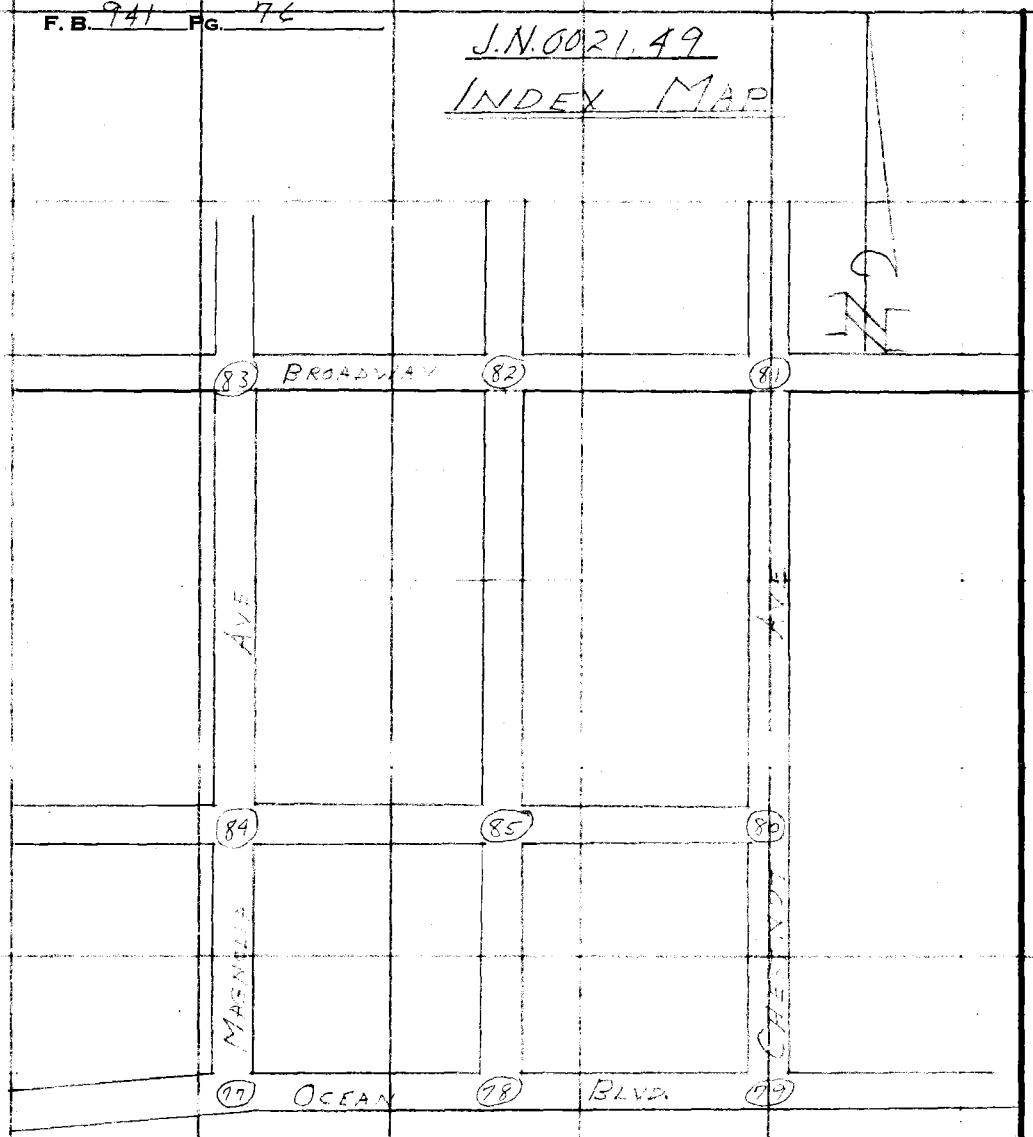
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F309S S&E #247. 8-54

F. B. 941 PG. 76

J.N. 0021.49

INDEX MAP



RETURN TO
LOS ANGELES COUNTY SURVEYOR
720 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 AJG	Survey of
Map No.	W. O. Tape No. St'd. °F
Office Work	Surveyed by
Checked	Notes Date
Date	Indexed

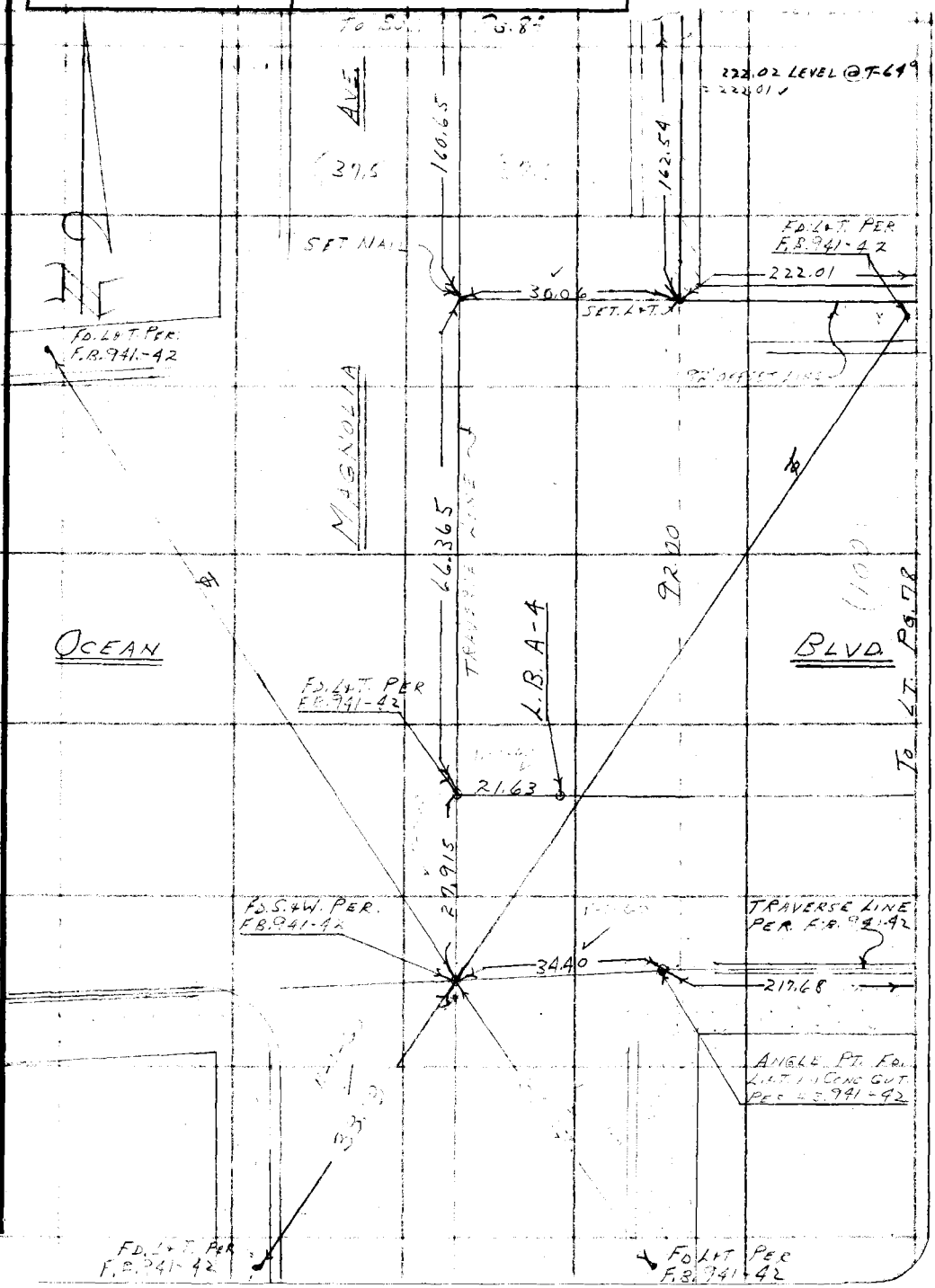
F. B. 941 Pg. 77

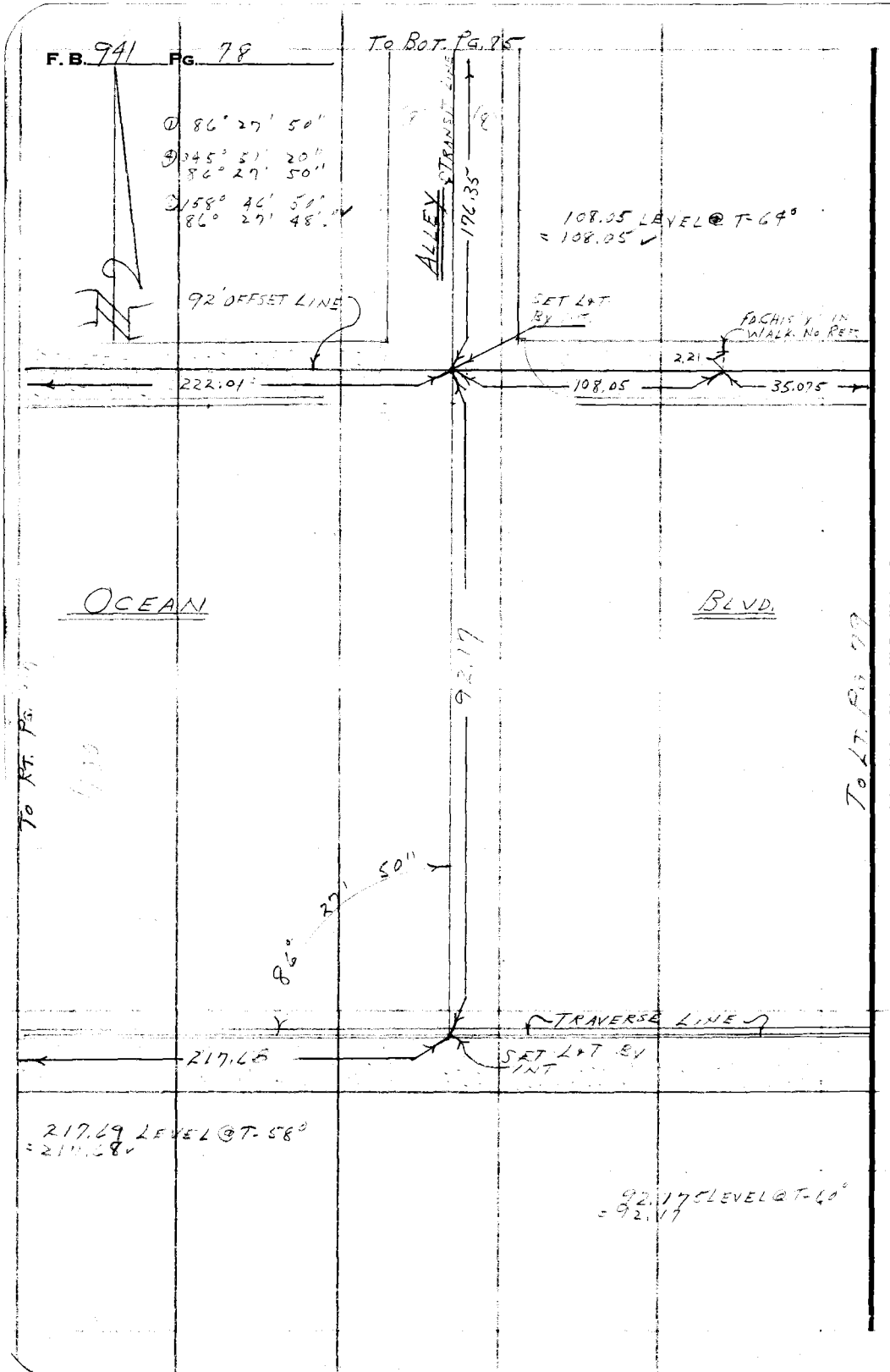
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

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

76F3095 S&E #247. 8-54





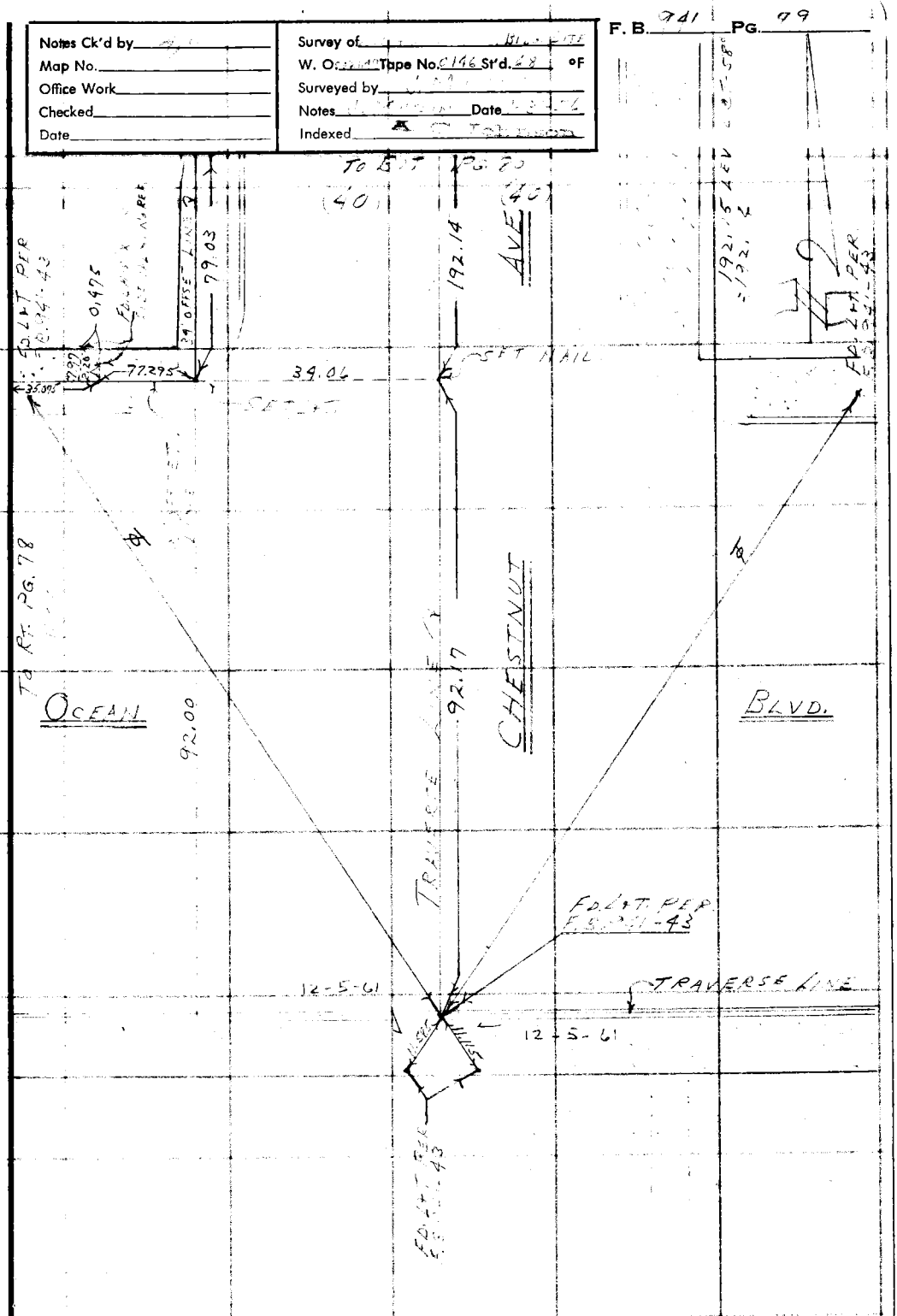
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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
Map No.	W. O. Tape No. C146 St'd. 28 °F
Office Work	Surveyed by
Checked	Notes Date
Date	Indexed

F. B. 741 PG. 99



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

Do not extend notes this side of this line.

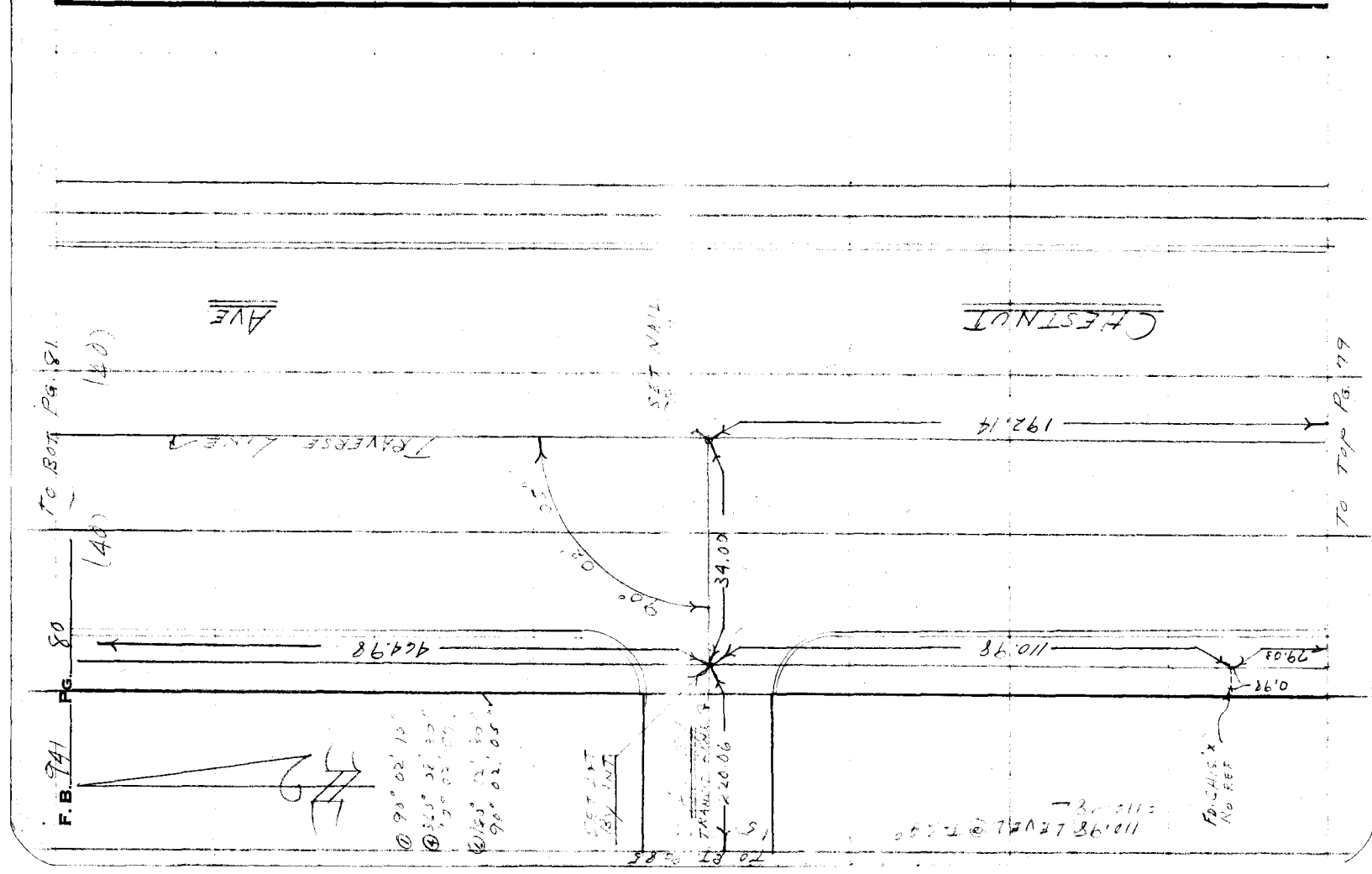
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3095 S&E #247. 8-54

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

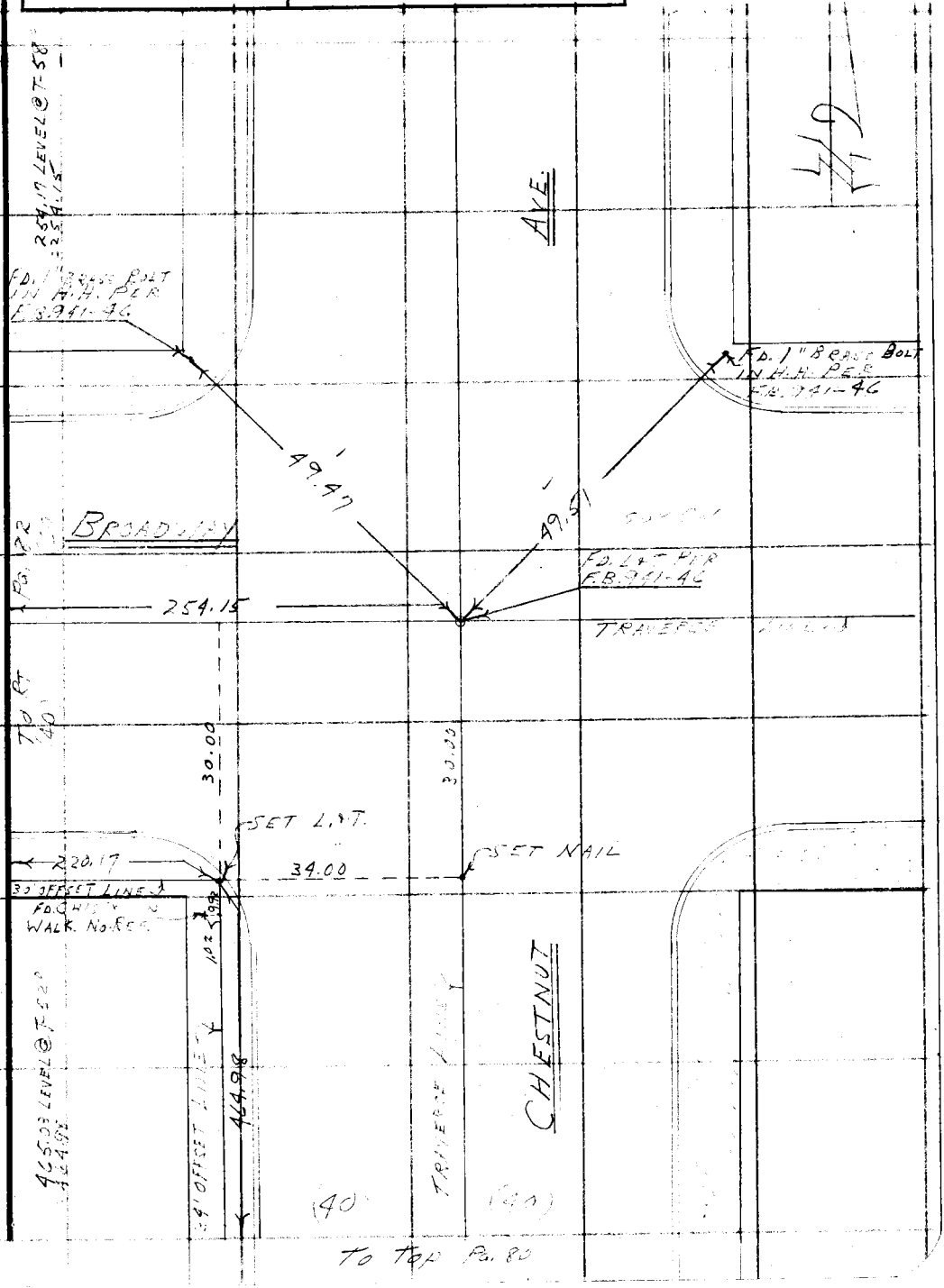
Note: Any Additions or Changes on This Sheet Must be Made or Circled In Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.



Notes Ck'd by Aj	Survey of Long Beach Co. Bldg.
Map No.	W. O. 0021.49 Tape No. 0146 St'd. 68 °F
Office Work	Surveyed by
Checked	Notes Date 2-1-56
Date	Indexed A. C. Johnson

F. B. 941 Pg. 91



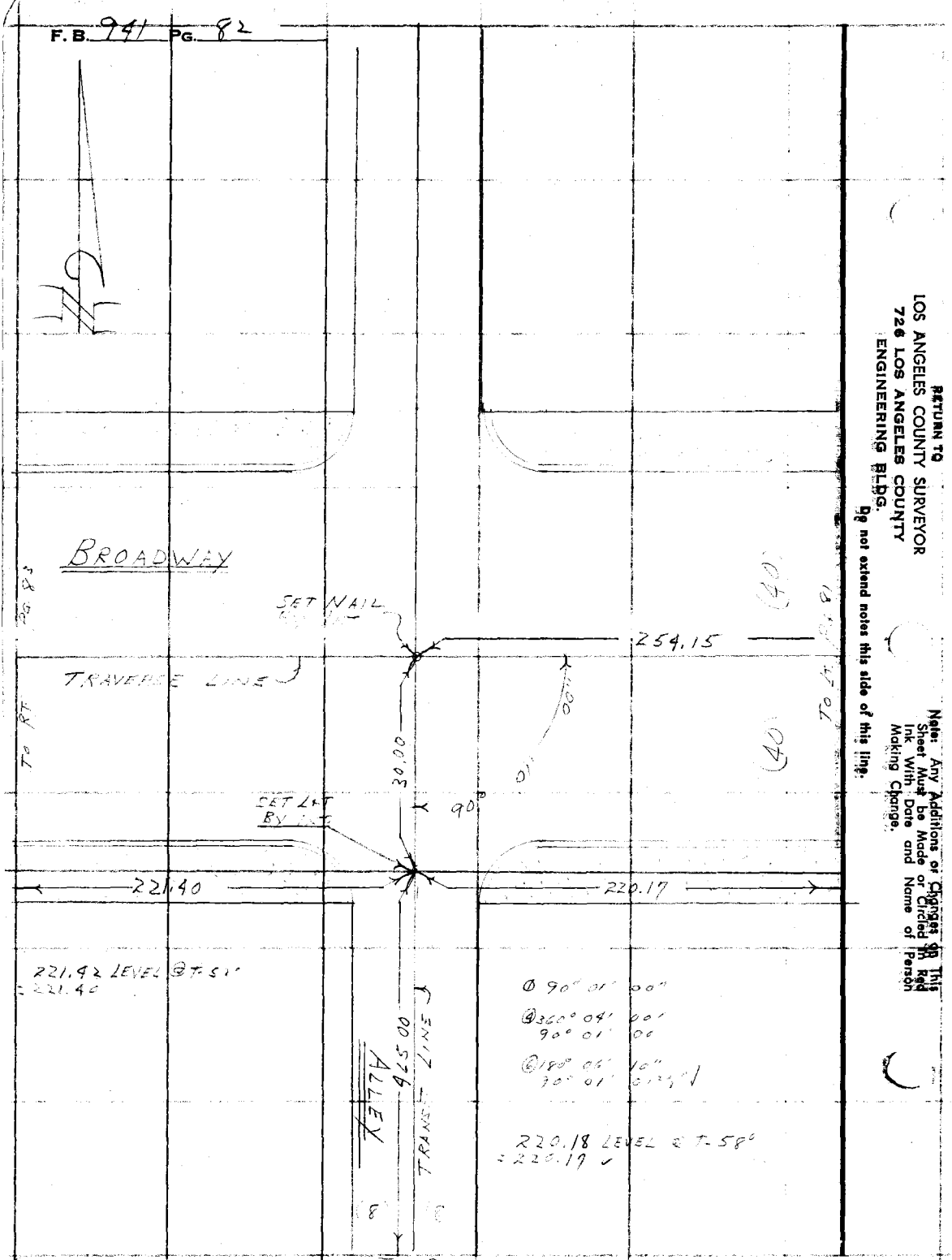
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

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

76F309S S&E #247. 8-54

F.B. 941 PG. 82



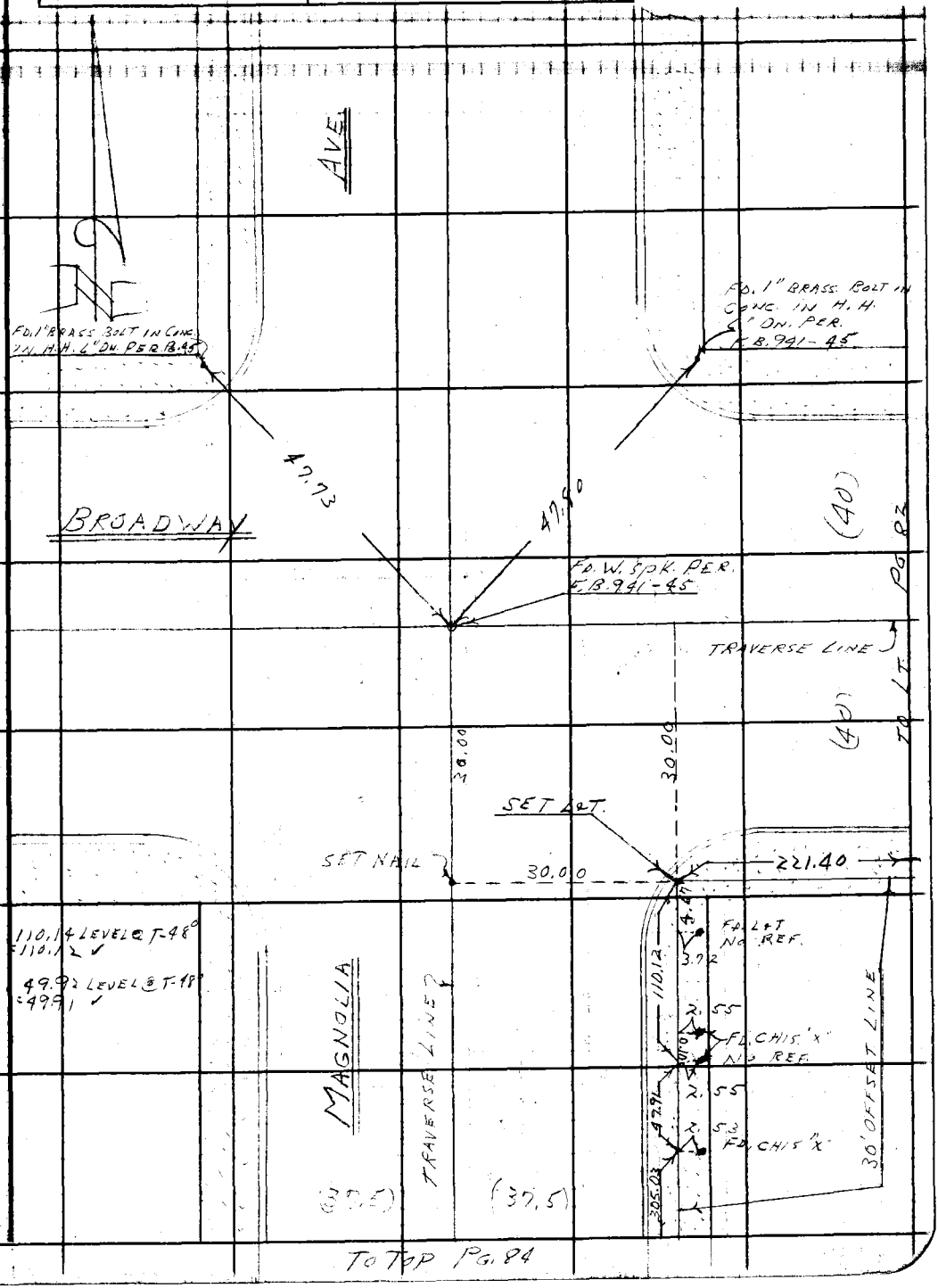
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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 Ajx	Survey of LONG BEACH [illegible]
Map No.	W. O. 0021.49 Tape No. 0146 Std 68 °F
Office Work	Surveyed by J. MUSLIN
Checked	Notes J.M. Date 2-1-56
Date	Indexed A. C. Johnson

F.B. 941 PG. 83



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

Do not extend notes this side of this line.

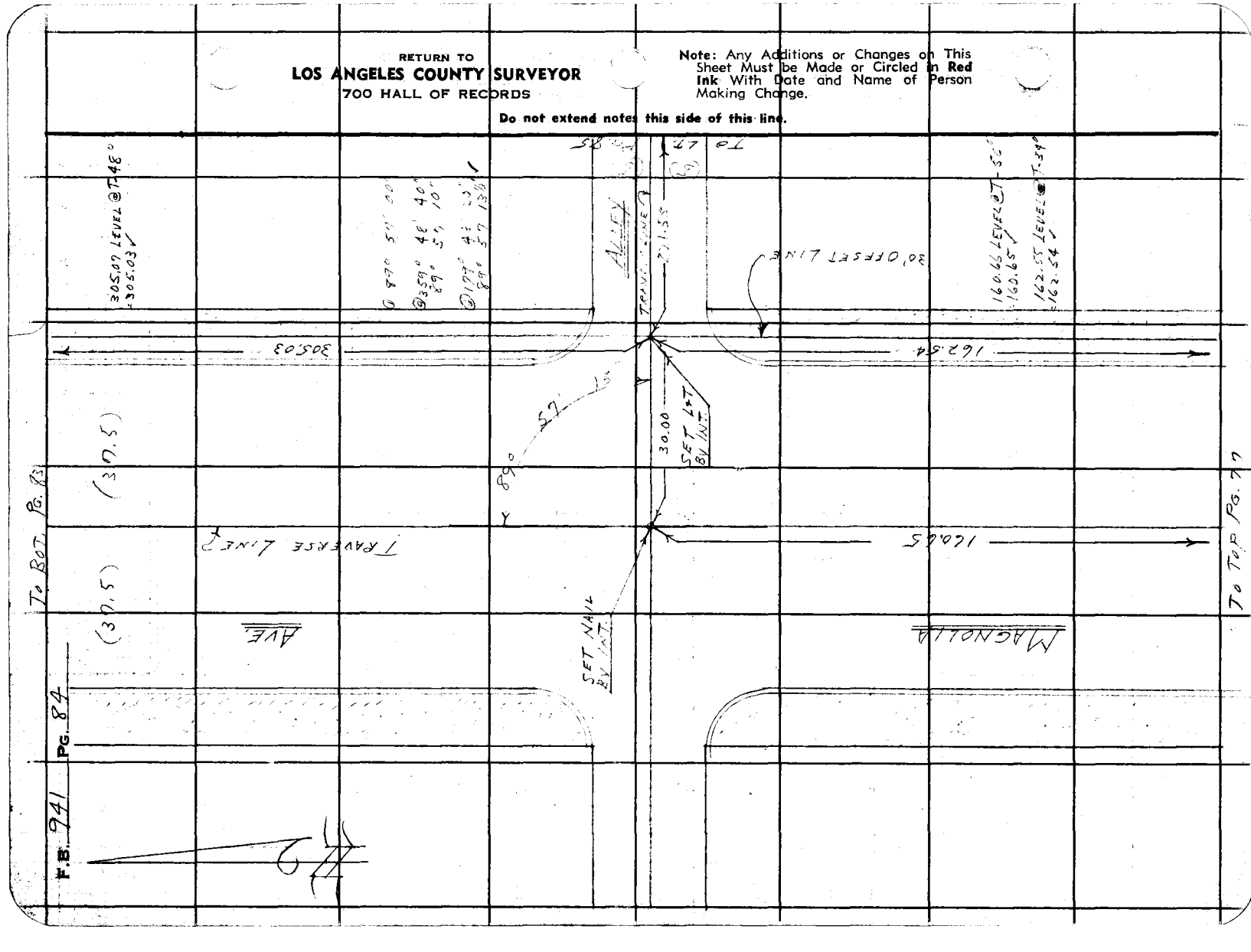
RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 5M 12-40

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 AJ	Survey of
Map No.	W. O. 12179 Tape No. 0196 Std 68 °F
Office Work	Surveyed by
Checked	Notes Date 2-2-56
Date	Indexed C. Johnson

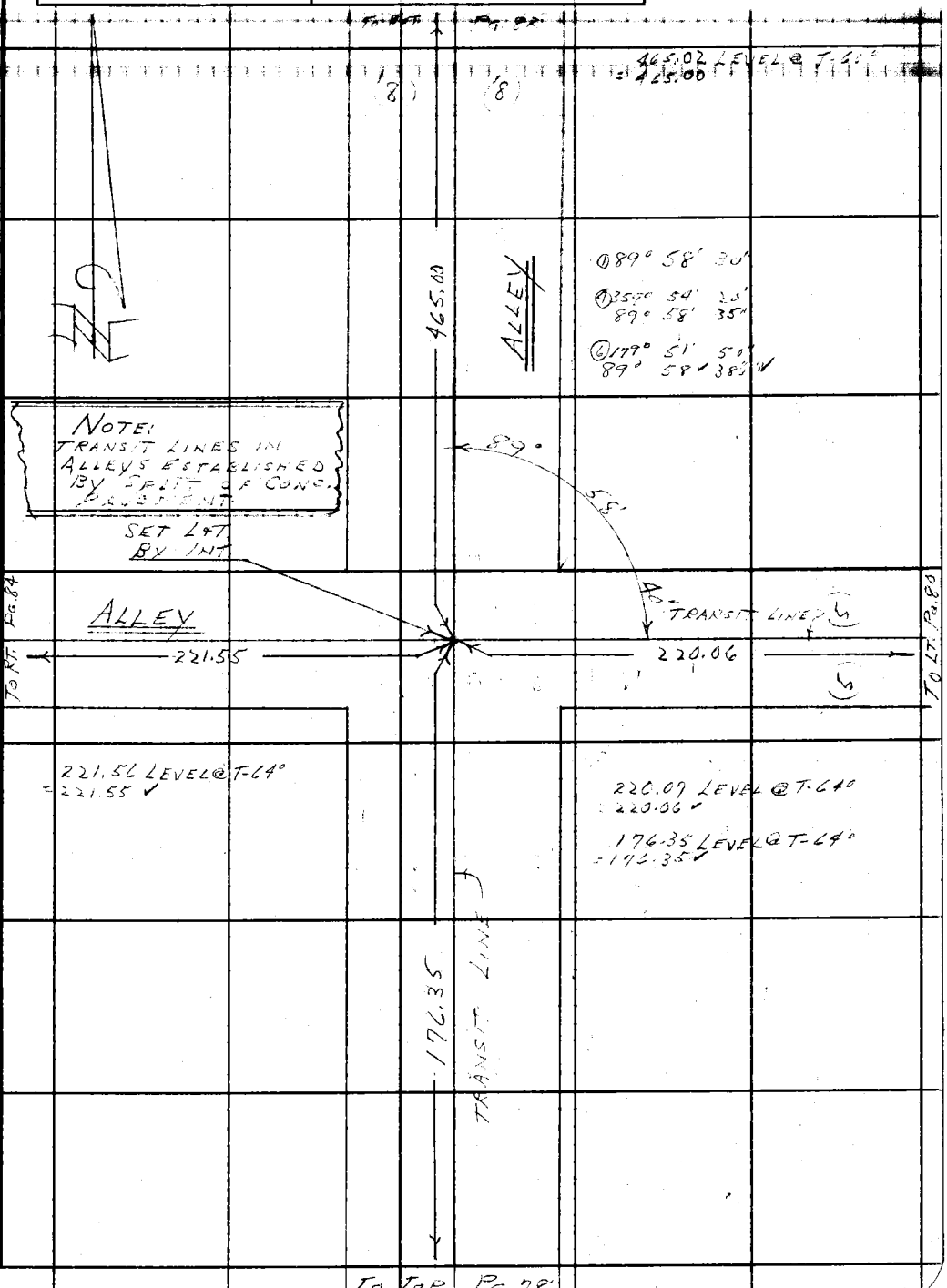
F.B. 941 Pg. 85

Note: Any Additions or Changes on This Sheet Must be Made 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 3M 12-50



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.

FB 941 PG. 86

F. B. 941 PG. 87

NOTES RED. _____ JOB NO. 0021.49 SURVEY OF LONG BEACH CO. BLDG. SITE.

DATE _____ SURVEY BY J. MUSLIN

NOTES CHKD. _____ NOTES BY A. CARRASCO DATE 2-3-56

DATE _____ INDEXED [redacted] DATE 2-15-56

J.N. 0021.49

LONG BEACH CO. BLDG. SITE.

BENCH LEVELS

J. MUSLIN
A. CARRASCO
J. TAFOYA
T. OHASHI
T. LUNA

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

Do not extend notes this side of this line

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

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

765420 S & E-353 4-54

F. B. 941 Pg. 88

JOB NO. 002149 SURVEY OF LONG BEACH Co. BLDG. SITE NOTES RED. ______
SURVEY BY [illegible] DATE ______
NOTES BY A. CARRASCO DATE 2-3-56 NOTES CHKD. ______
INDEXED A. C. Johnson DATE ______ DATE ______

765420 S & E-353 4-54

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.
B.M.#571	25.287				
+	5.968		+5.950		
π	31.255	+1.221 ✓	+1.223		
−	4.747		−4.727		
B.M.L.B.CH.#2	26.508 ✓				
+	5.160		+5.1[illegible]		
π	31.668	+0.138	+0.138 ✓		
−	5.022		−5.0[illegible]		
T.B.M.#1	26.646 ✓				
+	5.288	✓	+5.2[illegible]	+5.[illegible]	
H.I	31.934	[illegible]	[illegible] ✓	−0.37[illegible] ✓	
−	[illegible]		[illegible]	[illegible]	
[illegible] #2	[illegible] ✓				
+	[illegible]		+		
H.I	[illegible]	[illegible]	✓		
−	[illegible]		[illegible]		
[illegible]	[illegible] ✓				
	[illegible]		+[illegible]		
	[illegible]	−1.22[illegible] ✓	[illegible] ✓		
	[illegible]		−5.353		
[illegible]	[illegible] ✓				
	5.4[illegible]		+5.0[illegible]		
	28.872	−0.41[illegible]	−0.41[illegible] ✓		
	5.4[illegible]		−[illegible]		
[illegible]	23.384 ✓				

DESCRIPTION

B.M.#571 ELEV. 25.287 ✓ F.B. 941-60
OCEAN BLVD. (S. SIDE) & CHESTNUT AVE. 11.5' S. OF S. CURB. 1.4' E. OF E. P/L. L.&T. IN CTR OF 16"x2" CONC. BLOCK. MARKED CITY PROPERTY
B.M.L.B.CH.#2 ELEV. 26.513 ✓ F.B. 941-60.
OCEAN BLVD. & CHESTNUT AVE. N.E. COR. BT. SPK. IN CURB 16' E. OF E. END C.R.

T.B.M. at N.W. [illegible] Ocean Blvd. & Chestnut Ave. [illegible] Lines on Stakes 34' West of Chestnut Ave & 12' N. of S. Cb. [illegible] of Ocean Blvd.
[illegible] Inter. of [illegible] Lines 34' W. of Chestnut [illegible] Appro. 151' N. of Ocean Blvd.

[illegible] Inter. of [illegible] 15t [illegible] Ave [illegible] Alley [illegible]

[illegible] Inter. [illegible] [illegible] [illegible]

[illegible] Ocean Blvd. [illegible]
[illegible] Inter. [illegible]
" [illegible]

NOTES RED. ________ JOB NO. 0671A4 SURVEY OF Long Beach [illegible] Bldg Site

DATE ________ SURVEY BY [illegible]

NOTES CHKD. ________ NOTES BY B. [illegible] DATE [illegible]-56

DATE ________ INDEXED [illegible] DATE ________

F. B. [illegible] PG. 89

76S420 S & E-353 4-54

PLEASE 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.

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

F. B. 941 PG. 90

JOB NO. 0021.49 SURVEY OF LONG BEACH CO. BLDG. SITE NOTES RED.

SURVEY BY J. MUSLIN DATE

NOTES BY A. CARRASCO DATE 2-3-56 NOTES CHKD.

INDEXED DATE DATE

765420 S & E-353 4-54

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

Profile	Notes Red.	Plotted	Job No. 2021.49	Division No.	F. B. 241	Pg. 11
No.	Date	Date	Survey of			
X-Sec.	Notes Chkd.	Checked	Survey by J. MUSLIN	Notes	Date	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	

LONG BEACH COUNTY BLDG
INVERT ELEVATIONS
ON
S.S. & S.D. M.H.'S
ON
OCEAN BLVD. & 18" ALLEY W. OF CHESTNUT

NOTE:
LOCATION [illegible]
[illegible]

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

J. MUSLIN
A. CARRASCO
[illegible]
T. OHASHI
T. LUNA

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

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

Do not extend notes this side of this line.

76298 S & E #307—7-55

76298 S & E #307—7-55

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
[illegible]		[illegible]			[illegible]	Elev. 25.042
[illegible]		[illegible]			L. & [illegible] 1st Alley	L. of [illegible]
& N. of of 1st Alley [illegible]					L. Alley & 1st Alley	W. of Chestnut Ave
					approx L. Alley	
				[illegible]	Elev. of S. Rim	25.02
					Meas. Rim to Crown	8.01
					Elev. Crown	17.01
					Dia. Pipe	0.67
					Elev. Invert Outlet	16.34
				23.03	Elev. of N. Rim	25.03
					Meas. Rim to Crown	8.02
					Elev. "	17.01
					Dia. Pipe	0.67
					Elev. Invert Inlet	16.34
Sewer [illegible] in 1st Alley E. of [illegible]					Elev. of N. & S. Rim	24.42
S. of Broadway St					Meas. Rim to Crown	5.26
					Elev. Crown	19.36
					Dia. Pipe	0.67
					Elev. Invert Outlet South	18.69

F. B. 941 Pg. 92 Job No. 2021.49 Division No. ____ Notes Red. ____ Plotted ____ Profile
Survey of Long Beach [illegible] Date ____ Date ____ No. ____
Survey by [illegible] Notes [illegible] Notes Chkd. ____ Checked ____ X-Sec.
Indexed [illegible] C. Johnson Date ____ Date ____ Date ____ No. ____

76298 S & E #307—7-55

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
[illegible] M.H. [illegible]				24.64	Elev. of [illegible]	[illegible]
Alley E. of [illegible] N. side					Meas. Rim to Crown	10.[illegible]
[illegible] 7452					Elev. of "	14.[illegible]
					Dia. Pipe	0.6
					Elev. invert outlet	13.[illegible]
Top	inlet			24.63	Elev. of E. Rim	24.6[illegible]
					Meas. Rim to Crown	[illegible]
					Elev. of "	17.7[illegible]
					Dia. " Pipe	[illegible]
					Elev. invert inlet	17.[illegible]
Bot	inlet			24.63	Elev. of E. Rim	24.6
					Meas. Rim to Crown	10.3
					Elev. of "	14.3
					Dia. of Pipe	0.5
					Elev. [illegible] inlet	14.1
				24.63	Elev. of E. Rim	24.[illegible]
					Meas. Rim to Crown	9.8
					Elev. of "	14.7
					Dia. Pipe	0.6
						14.9
[illegible]				24.[illegible]	[illegible]	

Profile Notes Red. ____ Plotted ____ Job No. 0021.49 Division No. ____ F. B. 941 Pg. [illegible]
No. ____ Date ____ Date ____ Survey of [illegible] Notes A.C. Date 2-6-56
X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Notes A.C. Date 2-6-56
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

76298 S & E #307—7-55

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.			
Sewer M.H. Blvd & W. of Chestnut Ave 1474.2		[illegible]	Ocean	25.97	Elev. of W. Rim		25.97
					6.70 Rim to Crown Meas.		7.37
					0.67		18.60
					7.37	Dia.	
						Invert Elev. 18.60	
S.D. M.H. @ Ocean Blvd. + Chestnut Ave.				26.48	Elev. of E. Rim.		26.48
					Rim to Crown Meas	6.35	-7.18
					Dia.	0.83	19.30
				19.30	Invert Elev. E. Inlet	7.18	
				26.48	Elev. of E. Rim.		26.48
					Rim to Crown Meas.	8.71	- 9.71
					Dia.	1.00	16.77
				16.77	Invert Elev. E. Inlet.	9.71	
				26.48	Elev. of W. Rim.		26.48
					Rim to Crown Meas.	8.57	-9.82
					Dia.	1.25	16.66
				16.66	Invert Elev. W. Outlet	9.82	

F. B. 94.1 Pg. 94 Job No. 2021.47 Division No. Notes Red. Plotted Profile
Survey of Long Beach Co. Bldg. Site Date Date No.
Survey by J. Muslin Notes A. Carrillo Notes Chkd. Checked X-Sec.
Indexed ~~K. C. Johnson~~ Date Date No.

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.			
S.D.M.H.				26 47	ELEV. OF S. RIM.		26.47
					RIM TO CROWN MEAS.	2.28	-2.61
					DIA.	0.33	23.86
						2.61	
				23 86	INVERT ELEV. S. INLET.		
T.B.M. #1				26 65	T.B.M. #1 ELEV. 26.65	F.B. 941-88	
T.B.M. #5				23 38	T.B.M. #5. ELEV. 23.38	F.B. 941-88	
S.D.M.H. @ OCEAN BLVD. & [illegible] AVE. 0+00				23 35	ELEV. OF E. RIM		23.35
					RIM TO CROWN MEAS.	10.27	-0.[illegible]
					DIA.	0.67	12.41
						10.94	
				12 41	ELEV. OF E. INLET.		
				23 33	ELEV. OF W. RIM.		23.33
					RIM TO CROWN MEAS.	4.55	-5.[illegible]
					DIA.	1.00	1[illegible]
						5.55	
				17 78	INVERT ELEV. S.W. STUB.		

Profile

No. ____ Date ____ Notes Red. ____ Plotted ____ Job No. 1021.49 Division No. ____

X-Sec. ____ Date ____ Survey of [illegible]

No. ____ Date ____ Notes Chkd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date 2-7-56

Map No. ____ Indexed [illegible] Date ____

F.B. 941 PG. 25

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.			
S.S. M.H.				2[illegible] 34	ELEV. OF S. RIM.		23.34
					RIM TO CROWN MEAS.	9.24	-9.91
					DIA.	0.67	13.43
						9.91	
				13 43	INVERT ELEV. S.W. INLET		
				23 33	ELEV. OF W. RIM		23.33
					RIM TO CROWN MEAS.	10.31	-10.98
					DIA.	0.67	12.35
						10.98	
				12 35	INVERT ELEV. W. OUTLET.		
S.D.M.H. @ OCEAN BLVD. & MAGNOLIA AVE.				23 30	ELEV. N. RIM.		23.30
					RIM TO CROWN MEAS.	6.01	-6.83
					DIA.	0.83	16.47
						6.83	
				16 47	INVERT ELEV. N. INLET.		
				23 32	ELEV. E. RIM		23.32
					RIM TO CROWN MEAS.	6.06	-6.89
					DIA.	0.83	16.43
						6.89	
				16 43	ELEV. E. INLET.		

F.B. 941 PG. 96

Job No. 2021.49 Division No. _____ Notes Red. _____ Plotted _____ Profile _____

Survey of LONG BEACH CO. BLDG. SITE Date _____ Date _____ No. _____

Survey by J. MUSLIN Notes J. M. Notes Chkd. _____ Checked _____ X-Sec. _____

Indexed R. O. Johnson Date _____ Date _____ Date _____ No. _____

76L298 307 8-53

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.			
S. S. M. H.				23 32	ELEV. E. RIM		23.32
					RIM TO CROWN MEAS.	8.23	9.48
					DIA.	1.25	13.84
						9.48	
				13 84	INVERT ELEV. E. INLET		
				23 30	ELEV. S. RIM		23.30
					RIM TO CROWN MEAS.	2.34	-2.67
					DIA.	0.33	20.63
						2.67	
				20 63	INVERT ELEV. S. INLET		
				23 30	ELEV. W. RIM		23.30
					RIM TO CROWN MEAS.	8.24	-9.49
					DIA.	1.25	13.81
						9.49	
				13 81	INVERT ELEV. W. OUTLET		
B.M.L.B.CH. #1				23 22	B.M.L.B.CH. #1 ELEV. 23.237 F.B. 941-60. OCEAN BLVD. & MAGNOLIA AVE. N.E. COR. ST. SPK. IN CURB. 18' E. OF E. END. C.R.		

Profile Notes Red. ____ Plotted ____ Job No. [illegible] Division No. ____ F. B. 941 PG. 97
No. ____ Date ____ Date ____ Survey of LONG BEACH [illegible] BLDG. SITE
X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Notes J.M. Date 2-[illegible]-56
No. ____ Date ____ Date ____ Map No. ____ Indexed [illegible] Date ____

F. B. 941 PG. 98 | Job No. Division No. Notes Red. Plotted | Profile

Survey of Date Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 Los Angeles County Engineering Bldg.

Do not extend notes this side of this line.

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

76L298 307 8-53

F. B. 941 Pg. 99

Profile No. ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 00249 Division No. ____

X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of Long Beach County Courthouse Site

Survey by R.D. Anderson Notes RDA Date 2/21/56

Map No. ____ Indexed [illegible] Date 2-24-56

LONG BEACH COUNTY COURTHOUSE SITE

J.N. 00249

CROSS SECTIONS OF ALLEY (VIRGINIA CT.) FROM STA. 2+50 NORTH TO SOUTH CROSS-GUTTER OF BROADWAY. (NOTE: 0+00 = LAT. AT INT. OF ALLEYS.)

CLEAR & MILD

PARTY-
R.D. ANDERSON
C.H. LEWIS
W.A. MOODYMAN
J.E. HENDERSON

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

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

Do not extend notes this side of this line.

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

76L298 S & E #307 9-54

76L298 S & E #307 9-54

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

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

Do not extend notes this side of this line.

F. B. 941 Pg. 100 Job No. 002149 Division No. Notes Red. Plotted
Survey of Long Beach County House Site Date Date No.
Survey by R.O. Anderson Notes R.O.A. Notes Chkd. Checked X-Sec.
Indexed Date 2/21/56 Date Date No.
Profile

STATION	B. S.	H. I.	F. S.	ELEV.		
T.B.M. 3				25 04	T.B.M. 3 ELEV. = 25.04 L & T. INT. OF ALLEYS (TRANSIT LINES)	F.B.
2+50				24 71	℄	
"				25 03		R. 8' E. EDGE OF CONC.
"				25 01	L. 8' W. EDGE OF CONC.	
3+00				24 68	℄	
"				24 90		R. 8' E. EDGE OF CONC.
"				24 94	L. 8' W. EDGE OF CONC.	
3+50				24 58	℄	
"				24 91		R. 8' E. EDGE OF CONC.
"				24 86	L. 8' - W. EDGE OF CONC.	
T.P.				24 89		
4+00				24 48	℄	
"				24 87		R 8' - E. EDGE OF CONC.
"				24 66	L. 8' - W. EDGE OF CONC.	
4+50				24 33	℄	
"				24 66		R. 8' - E. EDGE OF CONC.
"				24 54	L. 8' - W. EDGE OF CONC.	
4+62				24 22	℄	TOP OF BRK.
4+64				24 52		R. 8' - SO. END C.R.
" "				24 47	L. 8' - SO. END C.R.	
4+69				24 02	T.B.M. 4 BROADWAY & VIRGINIA CT. (N-S. ALLEY) L & T. INT. OF OFFSET LINE ON BROADWAY & N-S TRANSIT LINE.	
4+69				23 9[illegible]		℄ "X" CUT. SO. SIDE BROADWAY
T.P.				24 85		
T.B.M.				25 07	T.B.M. #3 ELEV. = 25.04	SEE ABOVE

LENGTH ROD

Notes Ck'd by	Survey of [illegible]
Map No.	W. O. Tape No. St'd. °F
Office Work	Surveyed by
Checked	Notes Date
Date	Indexed C. Johnson 8-27-58

F. B. PG.

JOB NO. 030101

LONG BEACH SUBSURFACE
[illegible]

[illegible]

1958 RE-RUN.

[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 S&E #247. 8-54

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. 921 PG. 12

76P526 S & E #379 1-54

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party G. E. DREIER Weather HAZE Inst. No. NK 142552
Notes by J. MOODY Time 9:15 to 9:40 Rod No. 15 #16

Name L.B. SUBSIDENCE
Job No. 030101
From ..... To .....
Date 8-21-58
Indexed A. C. Johnson

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	4.437		628		#15	5.827		626		B.M. L.B.C.H. #1
	[illegible]		625			5.201		626		OCEAN BLVD & [illegible]
	3.[illegible]4		1253			4.575		[illegible]		B.SHK. IN CURB, 18' [illegible] C.R.
1	11.430	3.810		1253	72°	15.603	5.2[illegible]		1252	
	5.2[illegible]		635			[illegible]		612		[illegible] ✓
	4644		[illegible]			6.760		6[illegible]		[illegible] ✓
	4009		[illegible]			[illegible]		1223		[illegible] ✓
2	13.932	4.[illegible]		2[illegible] ✓		20.281	6.760		24[illegible] ✓	
		8.[illegible] ✓					[illegible] ✓			B.M. 158
										[illegible]
										[illegible]
										[illegible]
	7.[illegible]		625			[illegible]		625		
	6.87[illegible]		622			[illegible]		623		
	6.19[illegible]		1247			[illegible]		1248		[illegible] ✓
	[illegible]466	6.8[illegible]		12[illegible]		[illegible]	4.704		1248	[illegible] ✓
	5.9[illegible]		624			4.5[illegible]		625		[illegible] ✓
	[illegible]		626			[illegible]		627		B.M. L.B.C.H. #[illegible]
	4722		1250			3330		1252		OCEAN BLVD & [illegible]
3	16.0[illegible]	5.3[illegible]		2497 ✓		[illegible]	3.956		[illegible] ✓	[illegible]
		[illegible] ✓					8.660 ✓			END C.R.

F.B. ..... P.G. .....

76P526 S & E #379 1-54

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party G. E. DREIER Weather Inst. No.

Notes by Time Rod No.

Name L.A.C. SURVEYOR

Job No. 0301.01

From To

Date

Indexed R. C. Johnson

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS

F.B. 241 P.G. 11-12

76P526 S & E #379 1-54

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party G. E. DREIER Weather [illegible] Inst. No. [illegible]
Notes by [illegible] Time [illegible] Rod No. [illegible]

Name L. B. SUBSIDENCE
Job No. 030101
From ..... To .....
Date 8-[illegible]
Indexed C. Johnson

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	[illegible]		[illegible]		#15	[illegible]		[illegible]		[illegible]
	[illegible]		[illegible]			[illegible]		[illegible]		[illegible]
	[illegible]		[illegible]			[illegible]		[illegible]		[illegible]
	[illegible]	[illegible]		[illegible]	72°	[illegible]	[illegible]		[illegible]	[illegible] 16"x[illegible] Conc Block [illegible] Property
			+5921							[illegible] #2
			-4684							[illegible]
			+1.237							[illegible]
	6.034		[illegible]			6.0[illegible]		[illegible]		
	5.25[illegible]		[illegible]			[illegible]		[illegible]		
	[illegible]		[illegible]			[illegible]		[illegible]		
	15.770	5.25[illegible]		20[illegible]		[illegible]	5.256		[illegible]	
			+5.25[illegible]							[illegible]
			-5.256							[illegible]
			+0.001							[illegible]
	[illegible]		[illegible]			[illegible]		[illegible]		
	[illegible]		[illegible]			[illegible]		[illegible]		
	[illegible]		[illegible]			[illegible]		[illegible]		
	[illegible]	[illegible]		[illegible]		[illegible]	[illegible]		[illegible]	

F.B. ..... P.G. .....

76P526 S & E #379 1-54

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party **E. E. DREIER** Weather HAZY Inst. No. NO 1425

Notes by [illegible] Time 10:00 to 11 Rod No. [illegible]

Name L.B. SUBSIDENCE

Job No. 0330.01

From [illegible] To [illegible]

Date 8-21-53

Indexed E. O. Johnson

F.B. 2411 P.G. 106

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	[illegible]					[illegible]				
2	5351 / 4625 / 6.126					5.672 / 4.938 / 6.734				
	[illegible]					[illegible]				
5	5.543 / 5.181 / 4.956					6.105 / 5.912 / 5.652				
	16.183					16.191				EMERALD ST. 2
	+ 16.183									CLARK AVE. & BROADWAY S.W. COR.
	- 16.014									LINE SPK. IN CONC. IN WELL, 10'S OF
	+0.169									CURB, 5'W OF CURB IN CONC WALK
	[illegible]					[illegible]				
4	4.455 / 4.125 / 3.794					4.811 / 4.515 / 4.219				
	[illegible]					[illegible]				
	+ 9.658									EMERALD ST. 2
	- 6.186									BROADWAY & WESTERN AVE. S.E. COR.
	-1.508									SPK IN CONC, IN WELL, 10'S OF CURB
										5'E. 1' CURB IN CONC. WALK

76P526 S & E #379 1-54

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

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party G. E. DREIER Weather [illegible] Inst. No. [illegible]
Notes by [illegible] Time [illegible] Rod No. [illegible]

Name L.B. SURVEY
Job No. [illegible]
From [illegible] To [illegible]
Date [illegible]
Indexed C. Johnson

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS

F.B. P.G.

76P526 S & E #379 1-54

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party G. E. DREIER Weather [illegible] Inst. No. [illegible]

Notes by [illegible] Time [illegible] Rod No. [illegible]

Name L.B. SUBSIDENCE

Job No. 03 [illegible]

From [illegible] To [illegible]

Date [illegible]

Indexed C. Johnson

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	[illegible]					[illegible]				
	[illegible]					[illegible]				
	[illegible]					[illegible]				
	[illegible]					[illegible]				

F.B. [illegible] P.G. [illegible]

76P526 S & E #379 1-54

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party G. E. DREIER Weather Sunny-Breezy Inst. No. [illegible]
Notes by J. Moody Time [illegible] 2:30 Rod No. [illegible]

Name L. B. SUBSIDENCE
Job No. [illegible]
From ..... To .....
Date [illegible]
Indexed [illegible] C. Johnson

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	[illegible]		[illegible]		#15	[illegible]		[illegible]		[illegible]
	[illegible]		[illegible]			[illegible]		[illegible]		[illegible]
	[illegible]		[illegible]			[illegible]		[illegible]		[illegible]
	[illegible]		[illegible]		75°	[illegible]			[illegible]	[illegible]
	[illegible]		[illegible]			[illegible]		[illegible]		
	[illegible]		[illegible]			[illegible]		[illegible]		
	[illegible]		[illegible]			[illegible]		[illegible]		
		8.898 ✓					10.980 ✓			[illegible]
			+ 8.598 ✓							[illegible]
			− 10.980 ✓							[illegible]
			− 2.382 ✓							
	[illegible]		[illegible]			5107		577		
	[illegible]		[illegible]			[illegible]		575		
	[illegible]		[illegible]			[illegible]		1152		
	[illegible]		[illegible]			13592	[illegible]		[illegible]	
	[illegible]		[illegible]			[illegible]		502		
	[illegible]		[illegible]			[illegible]		[illegible]		
	[illegible]		[illegible]			[illegible]		[illegible]		
	[illegible]	[illegible]		[illegible]		16051	[illegible]		[illegible]	
		10.[illegible] ✓					9.881 ✓			

F.B. ..... P.G. .....

76P526 S & E #379 I-54

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party G. E. DREIER Weather [illegible] Inst. No. [illegible]

Notes by [illegible] Time [illegible] Rod No. [illegible]

Name L. S. SUBSIDENCE

Job No. 0301.02

From [illegible] To [illegible]

Date [illegible]

Indexed A. C. Johnson

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS

F.B. [illegible] P.G. [illegible]

76P526 S & E #379 1-54

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party G. E. DREIER Weather [illegible] Inst. No. [illegible]
Notes by [illegible] Time [illegible] Rod No. [illegible]

Name L.B. SUBSIDENCE
Job No. 030101
From ..... To .....
Date [illegible]
Indexed A. C. Johnson

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	[illegible]		[illegible]	[illegible]		[illegible]		[illegible]	[illegible]	
	[illegible]		[illegible]			[illegible]		[illegible]		
	[illegible]		[illegible]			[illegible]		[illegible]		
8	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	
			[illegible]							[illegible]
			[illegible]							[illegible]
			[illegible]							[illegible]
	[illegible]		[illegible]			[illegible]		[illegible]		
	[illegible]		[illegible]			[illegible]		[illegible]		
	[illegible]		[illegible]			[illegible]		[illegible]		
9	[illegible]	[illegible]		[illegible]		[illegible]	[illegible]		[illegible]	
	[illegible]		[illegible]			[illegible]		[illegible]		
	5.28[illegible]		[illegible]			[illegible]		[illegible]		
	[illegible]		[illegible]			[illegible]		[illegible]		
10	[illegible]	[illegible]		[illegible]		[illegible]	[illegible]		[illegible]	
	56[illegible]		[illegible]			63[illegible]		[illegible]		
	5.0[illegible]		62[illegible]			[illegible]		66[illegible]		
	4.400		[illegible]			[illegible]		[illegible]		
	15.0[illegible]	5.0[illegible]		[illegible]		[illegible]	[illegible]		[illegible]	
		[illegible]					[illegible]			

F.B. ..... P.G. .....

76P526 S & E #379 1-54

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party **G. E. DREIER** Weather SUNNY - [illegible] Inst. No. [illegible]
Notes by J. MOODY Time [illegible] to [illegible] Rod No. 15 [illegible]

Name L.B. SUBSIDENCE
Job No. 0301.01
From ____ To ____
Date 8-21-58
Indexed A. C. Johnson

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
				[illegible]					[illegible]	B.M. L.B. CH #3 OCEAN BLVD & CEDAR AVE, N.W. COR. BT. SPK IN CURB, 28' N. of N. END C.R.
12	[illegible] [illegible] [illegible] 15.608	[illegible]	[illegible] [illegible] [illegible]	15.053		[illegible] [illegible] [illegible] [illegible]	[illegible]	[illegible] [illegible] [illegible]	[illegible]	
			[illegible] 5.203 [illegible]							B.M. L.B. CH #2 OCEAN BLVD & [illegible] AVE, N.E. COR. BT. SPK IN CURB, 16' E. of E. END C.R.
13	[illegible] 4.695 [illegible] [illegible]	[illegible]	[illegible] [illegible] [illegible]	[illegible]		[illegible] [illegible] [illegible] 17.[illegible]	[illegible]	[illegible] [illegible] [illegible]	[illegible]	
			+ [illegible] − [illegible] − [illegible]							B.M. [illegible] OCEAN BLVD, S. SIDE & CHESTNUT AVE 11.5' S. of S. CURB, 14' E. of E. P/L, LAT IN CTR. of 16"x12" CONC. BLOCK "MARKER CITY PROPERTY"

F.B. [illegible] P.G. [illegible]

76P526 S & E #379 1-54

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party G. E. DREIER Weather [illegible] Inst. No. [illegible]

Notes by [illegible] Time 2:35 to 2:40 Rod No. [illegible]

Name L. B. SURSIDE JR CE

Job No. [illegible]

From [illegible] To [illegible]

Date [illegible]

Indexed C. Johnson

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS

F.B. [illegible] P.G. [illegible]

76P526 S & E #379 1-54

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party G. E. DREIER Weather [illegible] Inst. No. [illegible]
Notes by J. Moody Time [illegible] Rod No. [illegible]

Name L. B. SUBSIDENCE
Job No. [illegible]
From ..... To .....
Date 8-21-58
Indexed A. C. Johnson

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	[illegible]	[illegible]	624	[illegible]		[illegible]	[illegible]	627	[illegible]	
	5.227		625			[illegible]		625		
	4.602		1249			[illegible]		[illegible]		
2	15.680	5.227		[illegible]		[illegible]	[illegible]		[illegible]	
	[illegible]		625			[illegible]		624		
	5.011		[illegible]			[illegible]		625		B.M. L.B.C. [illegible]
	4.389		[illegible]			[illegible]		1252		[illegible] & [illegible] AVE, N.W. COR.
3	15.036	[illegible]		[illegible]		[illegible]			[illegible]	5th SPL IN CURB, 9.6' N. of [illegible] C.R.
		[illegible]					[illegible]			
			+ 15366							
			[illegible]							
			− 0.168							

F.B. [illegible] P.G. [illegible]

76P526 S & E #379 1-54

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party G. E. DREIER Weather [illegible] Inst. No. [illegible]

Notes by [illegible] Time [illegible] Rod No. [illegible]

Name LB SUBSIDE

Job No. [illegible]

From [illegible] To [illegible]

Date [illegible]

Indexed [illegible]

Number of Station	BACKSIGHT				B. S. Rod and Temp.	FORESIGHT				DESCRIPTION AND REMARKS
	Thread Readings	Mean	Thread Intervals	Sum of Intervals		Thread Readings	Mean	Thread Intervals	Sum of Intervals	

F.B. [illegible] P.G. [illegible]

76P526 S & E #379 1-54

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party G. E. DREIER Weather ..... Inst. No. .....

Notes by ..... Time ..... Rod No. .....

Name L.B. SUBSIDENCE

Job No. 030101

From ..... To .....

Date .....

Indexed .....

Number of Station	BACKSIGHT				B. S. Rod and Temp.	FORESIGHT				DESCRIPTION AND REMARKS
	Thread Readings	Mean	Thread Intervals	Sum of Intervals		Thread Readings	Mean	Thread Intervals	Sum of Intervals	

F.B. ..... P.G. .....

Notes Ck'd by	Survey of LBCH SUBSIDENCE
Map No.	JN 0301.02 Tape Std °F
Office Work	Surveyed by A C GUIZADO
Checked HJA	Notes ACG Date 11/1/60
Date	Indexed

F. B. 941 PG. 117

JOB NO 0301.02

LONG BEACH COURTHOUSE

SUBSIDENCE BENCH LEVELS

AREA BOUNDED BY OCEAN BLVD, CEDAR AVE, BROADWAY & DAISY AVE.

NOV 1, 1960

Guizado

GOBLE
GLIDDEN
ALWIN
COOK

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

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

Do not extend this side of this line.

76F309S S&E #247 11-58

SUMMATION OF PRECISE LEVELS at LONG BEACH COURT HOUSE

F. B. 941 PG. 118

DATUM AUG 1960 — LONG BEACH HARBOR DEPT.

BM #CLB 158 M.L.L.W. ELEV = 21.547 /

MEAN SEA LEVEL DATUM = − 2.800 /

18.747 /

BM	DIFF/ELEV (CM)	MEAN (CM)	CM TO FT	UNADJUSTED ELEV (FT)	ADJUSTED ELEV (FT)
CLB #158	+76.447 /			18.7470 /	18.7470 /
TO	−76.491 /	+ 76.4690 /	+ 2.5088 /		
A-4	+95.386 /			21.2558	
TO	−95.313 /	+ 95.3495 /	+ 3.1283 /		
CLB #571	+38.041 /			24.384X	
TO	−38.037 /	+ 38.0390 /	+ 1.2480 /		
LBCH #2	+ 0.517 /			25.632X	
TO	− 0.420 /	+ 0.4685 /	+ 0.0154 /		
LBCH #3	+ 5.269 /			25.647	
TO	− 5.316	+ 5.3025	+ 0.1740		
LBCH #1	− 45.936 /			25.821	
TO	+45.943 /	−45.9395 /	− 1.5072 /		
LBCH #5	− 72.946 /			24.314	
TO	+72.887 /	− 72.9165 /	− 2.3923 /		
LBCH #6A	− 26.446 /			21.922	
TO	+26.488 /	−26.4670 /	− 0.8683 /		
LBCH #7	− 70.306 /			21.053	
TO	+70.307 /	−70.3065 /	− 2.3066 /		
CLB #158				18.747X	/

NOV 1, 1960

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

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

Do not extend this side of this line.

F.B. 941 Pg. 119

JOB NO. 0301.02 SURVEY OF L. A. CO. PRECISE LEVEL NET

SURVEY BY _____ WEATHER _____ INST. NO. _____

NOTES BY K. G. DATE _____ TIME _____ ROD NO. 25-26

INDEXED _____ DATE _____ NOTES CHKD _____ DATE _____

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT Right	BACKSIGHT Mic.	BACKSIGHT Left	BACKSIGHT Stadia	FORESIGHT Right	FORESIGHT Mic.	FORESIGHT Left	FORESIGHT Stadia	DESCRIPTION AND REMARKS From BM C.L.B. 158 To Forward Cr
BM 58	[illegible]		[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	BM C.L.B. 158 A BRASS PLATE IN HWELL @ NW [illegible] OF OCEAN BLVD & DAISY AVE, 7 [illegible] OF CB & 20 [illegible] W. OF CB
Z	[illegible]		[illegible]	[illegible]			[illegible]	[illegible]	
TOTAL DIFF. IN ELEV. BM A-4	[illegible]		[illegible]						
TOTAL DIFF. IN ELEV. BM 57			[illegible]						
[illegible]			[illegible]						
BM									

A LOT IN TOP OF A CONC. [illegible] MARKER @ SE COR. OCEAN BLVD & CHESTNUT AVE, [illegible] OF CB & 1 [illegible] E OF [illegible]

OCEAN BLVD & CHESTNUT AVE, N.E. [illegible] Bt spk in cb, 16 E OF E. END C.R.

OCEAN BLVD & CEDAR AVE. N.W. [illegible] Bt spk in cb, 9 [illegible] N OF N END C.R.

76P526B CE # 308 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT	STADIA	RIGHT	MIC.	LEFT	STADIA	FROM BM 158 TO FORWARD RUN
									#
									CEDAR AVE & BROADWAY SW COR
									WIRE SPK IN CONC; IN WELL; 10' S OF
									CB, & 8' E. OF CB IN CONC WALK
									#
									BROADWAY & CHESTNUT AVE SE COR
									C. SPK IN CONC; IN WELL, 10' S. OF CURB &
									8' E OF CURB IN CONC. WALK
									LBCH #6A SW COR
									BROADWAY & MAGNOLIA AVE
									C. SPK IN CONC IN WELL, 7' W. OF
									CB LINE & 11' S. OF CB. LINE
				62				62	
								62	
								124	
									LBCH #7 SW COR
									BROADWAY & DAISY
									[illegible] IN CONC IN WELL; 7' W. OF
									CB LINE & 9' S OF CB LINE

F.B. 941 PG. 120

SURVEY OF LBCH SUBSIDENCE

JOB NO. 0301.02

SURVEY BY [illegible] NOTES

INDEXED [illegible] DATE

WEATHER INST. NO. [illegible]

TIME ROD NO. [illegible]

NOTES CHKD DATE

F.B. 941 Pg. 121

JOB NO. 0301.02 SURVEY OF L. A. CO. PRECISE LEVEL NET

SURVEY BY _____ WEATHER _____ INST. NO. _____

NOTES BY _____ DATE _____ TIME _____ ROD NO. _____

INDEXED H. E. OTT DATE _____ NOTES CHKD _____ DATE _____

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT	STADIA	RIGHT	MIC.	LEFT	STADIA	FROM BMCLB58 TO [illegible]
									LBCH #7 [illegible]
	133	616	434	[illegible]	171	253	472	143	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	409	[illegible]			[illegible]	[illegible]			[illegible]
									A BRASS PLATE IN A WELL @ N.W. [illegible] OF OCEAN BLVD [illegible] AVE. 70 N. OF CB [illegible] W. OF CB

76P526B CE # 308 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT	STADIA	RIGHT	MIC.	LEFT	STADIA	FROM [illegible] TO RETURN RUN
[illegible]									
1	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	A BRASS PLATE IN A WELL @ NW COR OF OCEAN BLVD & DAISY AVE; 7° N OF CB & 20° W OF CB
2	[illegible]	[illegible]	[illegible]	[illegible] 46			[illegible]	[illegible] 46	
3	162	056	463	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
TOTAL	510	[illegible]	/						
DIFF. IN	148	[illegible]							
ELEV.	[illegible]	[illegible]		/				[illegible]	
B.M.									SW COR
1	[illegible]	[illegible]	426 5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	BROADWAY & DAISY AVE CT. SPK IN CONC. IN A WELL; 7° W OF CB LINE & 9° S. OF CB. LINE
2	164	341	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
TOTAL	340	391	/			[illegible]			
DIFF. IN	313	[illegible]	/						
ELEV.	[illegible]	[illegible]						[illegible]	
B.M.									SW COR
1	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	BROADWAY & MAGNOLIA AVE CT. SPK IN CONC IN WELL; 9° W. OF CB. LINE & 11° S OF CB. LINE
2	[illegible]	[illegible]	[illegible] 5	[illegible]	[illegible]	[illegible]	[illegible] 5	[illegible]	
TOTAL	[illegible]	378	/						
DIFF. IN	[illegible]	[illegible]	/						
ELEV.	[illegible]	[illegible]						[illegible]	
B.M. [illegible]									[illegible] SE COR C. SPK IN CONC. IN WELL 10° S OF CURB & 8° E OF CURB IN CONC WALK

F.B. 941 PG. 122 JOB NO. 0301-02 WEATHER [illegible] INST. NO. [illegible]

SURVEY OF Long Beach Courthouse Subsidence TIME ROD NO. [illegible]

SURVEY BY A.C.G. NOTES [illegible] DATE

INDEXED [illegible] DATE NOTES CHKD

76P526B CE # 308 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT	STADIA	RIGHT	MIC.	LEFT	STADIA	FROM CLB 59 TO RETURN LOOP
									CLB 59
									CL IN ENG. IN WELL 10' S OF
									C/E OF CURB IN CUL DE SAC
									CL
									CL OF FIRST & BEVERLY BLVD
									WIRE CL IN CONC IN WELL 10' S
2									CL, 0.5' S OF CB IN CONC WALK
									CL
									CROSS CUT S CURB LINE, NW
									BENCH IN CB, 2.5' N OF N CURB
									CL LEVEL 2 1/E
									FIRST BLVD & CHESTNUT AVE
					149.927				BENCH IN CB 1.5' E OF E END
					38.037				
									BM CLB 57
									A 1/2" IN TOP OF P CONC CURB,
									PROJECTS INCLINED S.E. 0.2'
									ALUM. MONUMENT LINE TIES S 0.4'
									E 1.3' FROM P/L

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY _____ WEATHER _____ INST. NO. _____

NOTES BY _____ DATE _____ TIME _____ ROD NO. _____

INDEXED _____ DATE _____ NOTES CHKD _____ DATE _____

F.B. 944 PG. 123

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT	STADIA	RIGHT	MIC.	LEFT	STADIA	FROM [illegible] TO [illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] A LET IN TOP OF A CONC CITY PROPERTY MARKER @ SECOR @ CEAN BLVD & CHESTNUT AVE 11 S OF CO & 1 E OF P/L
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] TRAVERSE STATION @ CEAN BLVD & MAGNOLIA AVE FB 923-87 & 88
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] A [illegible] IN A WELL @ NW COR OF [illegible] & DAISY AVE [illegible] N OF CO [illegible] W. OF CO.

F.B. 941 PG. 124

JOB NO. 8301.02

SURVEY OF Long Beach Courthouse Subscription

SURVEY BY [illegible] NOTES [illegible]

INDEXED _____ DATE 11-2-60

WEATHER [illegible]

TIME _____

NOTES CHKD _____

INST. NO. _____

ROD NO. _____

DATE _____

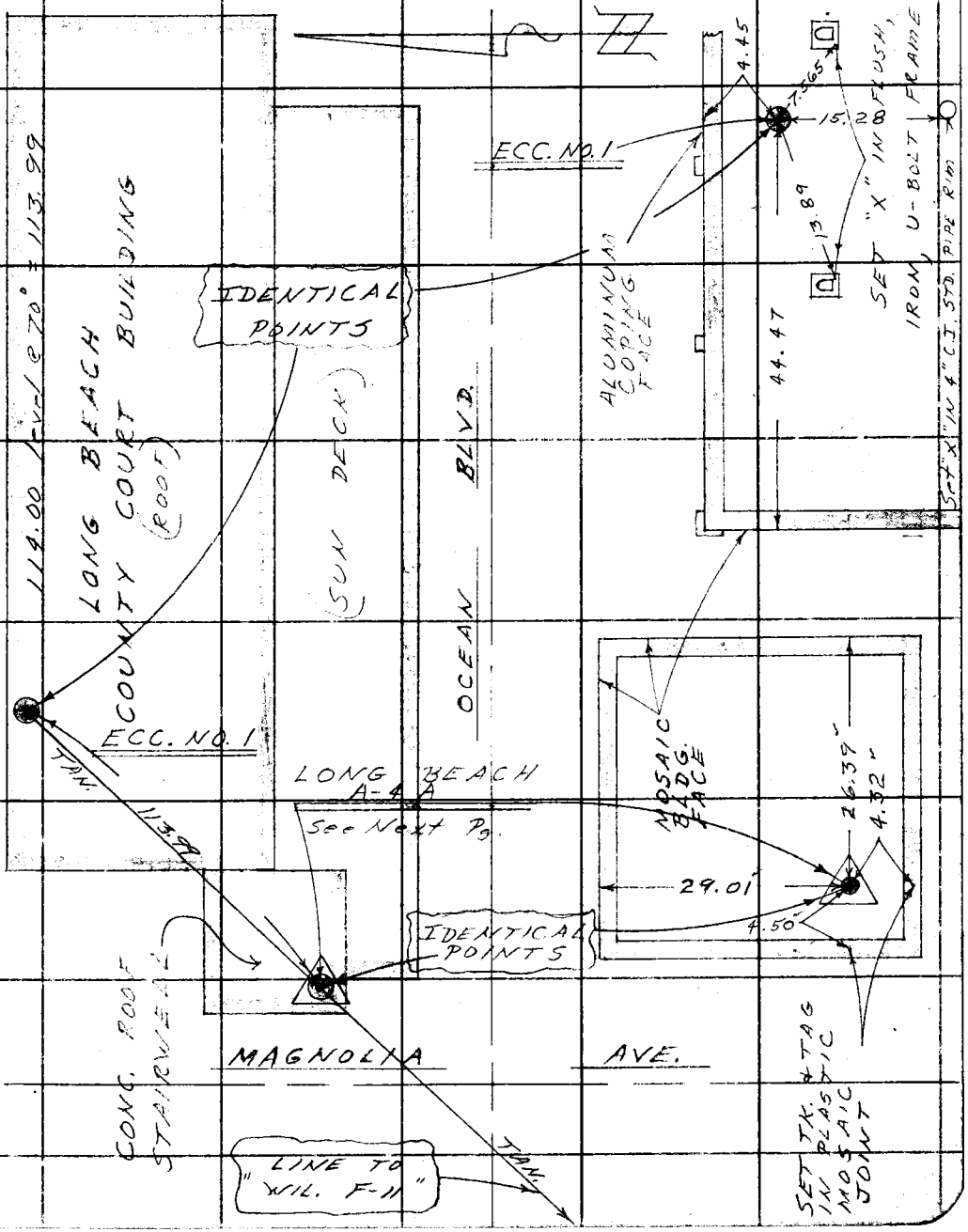
Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 0301.00 Tape 144 Std 84 °F
Office Work	Surveyed by W. D. BAY
Checked	Notes BAY Date 11-7-60
Date	Indexed H. E. OTT NOV 2 3 60

F. B. 941 PG. 125

L. A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

LONG BEACH A-4 A



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

Do not extend this side of this line.

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

76F309S 9&E #247 11-58

F. B. 941 PG 126

- DESCRIPTIONS -

LONG BEACH A-4A

THIS STATION IS IN L. A. CO. IN THE CITY OF LONG BEACH AT THE N.E. CORNER OF OCEAN BLVD. AND MAGNOLIA AVE. ON TOP OF THE STAIR-WELL AT THE S.W. CORNER OF THE LONG BEACH COUNTY COURT BUILDING.

STATION MARK: SET A CO. ENGR. TK. & TAG FLUSH IN ROOF. 11-4-'60. (REPLACED WITH A STD. 4" BRASS TRIANG. STA. CAP SET FLUSH IN THE CONC. ROOF & STAMPED "LONG BEACH A-4A 1960, L.A. CO ENGR. RE. 5869" 12-21-'60 BAY)

SUB-SURFACE MARK: NONE

ECCENTRIC NO. 1: SET A CO. ENGR. TK & TAG. FLUSH IN ROOF. 11-4-'60. (REPLACED WITH SAME AS STATION MARK ABOVE EXCEPT STAMPED "ECC. 1" 12-21-'60 BAY)

REFERENCE MARKS: NONE

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

Do not extend this side of this line.

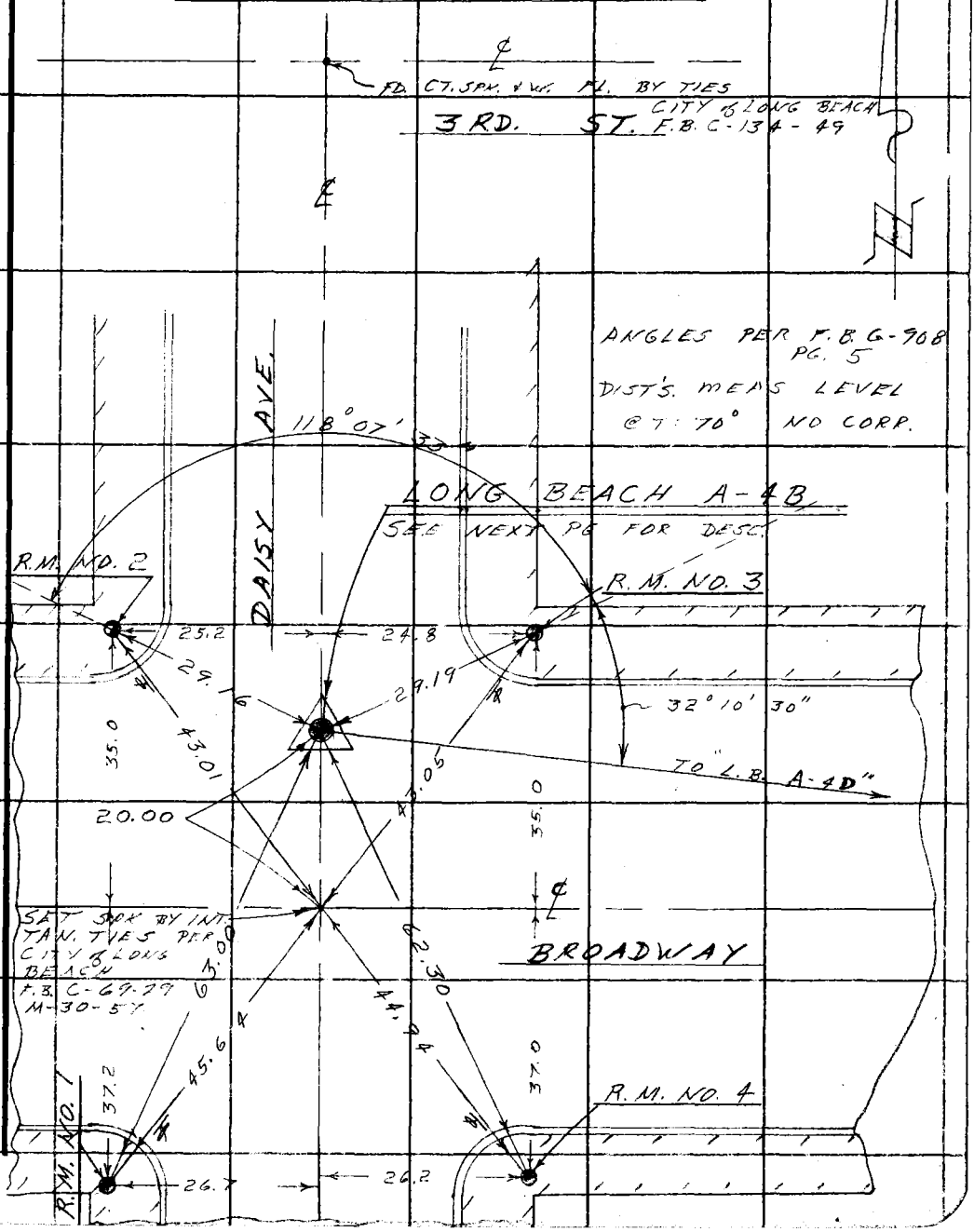
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of GEODETIC CONTROL	F. B. 941 PG. 127
Map No.	JN 0301.00 Tape 0162 Std 68 °F	
Office Work	Surveyed by W. D. BAY	
Checked	Notes BAY Date 11-4-60	
Date	Indexed H. E. OTT	

L. A. CO. SURVEY CONTROL SYSTEM

TRIANGULATION STATION

LONG BEACH A-4B



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

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

Do not extend this side of this line.

76F309S S&E #247 11-58

F. B. 941 Pg. 128 — DESCRIPTIONS —

LONG BEACH A-4B

THIS STATION IS IN LOS ANGELES COUNTY, IN THE CITY OF LONG BEACH, ON THE CENTERLINE OF DAISY AVE. AND 20.00 NORTH OF THE CENTERLINE OF BROADWAY, IN A WELL WITH A STD. CO. ENGR. CAST IRON COVER.

STATION MARK: SET A SQ. HD. SPK. & TIN FLUSH. 11-4-60. REMOVED & REPLACED WITH A STD. 4" BRASS L.A. CO. TRIANG STA. CAP IN CONC. DN. 9" IN A H.H. AND STAMPED "LONG BEACH A-4B, 1960, L.A. CO. ENGR. R.E. 5869" 11-16-60.

SUB-SURFACE MARK: NONE

REFERENCE MARKS NO. 2 & 3: FOUND 1" BRASS BOLT & P.M. IN CONC. DN. 6" IN A HAND HOLE WITH AN IRON LID FLUSH IN SIDEWALK.

REFERENCE MARKS NO. 1 & 4: FOUND RUSTED CUT SPIKE (NO P.P.) IN CONC. DN. 6" IN A HAND HOLE WITH AN IRON LID FLUSH IN SIDEWALK. USED CENTER FOR TIE.

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

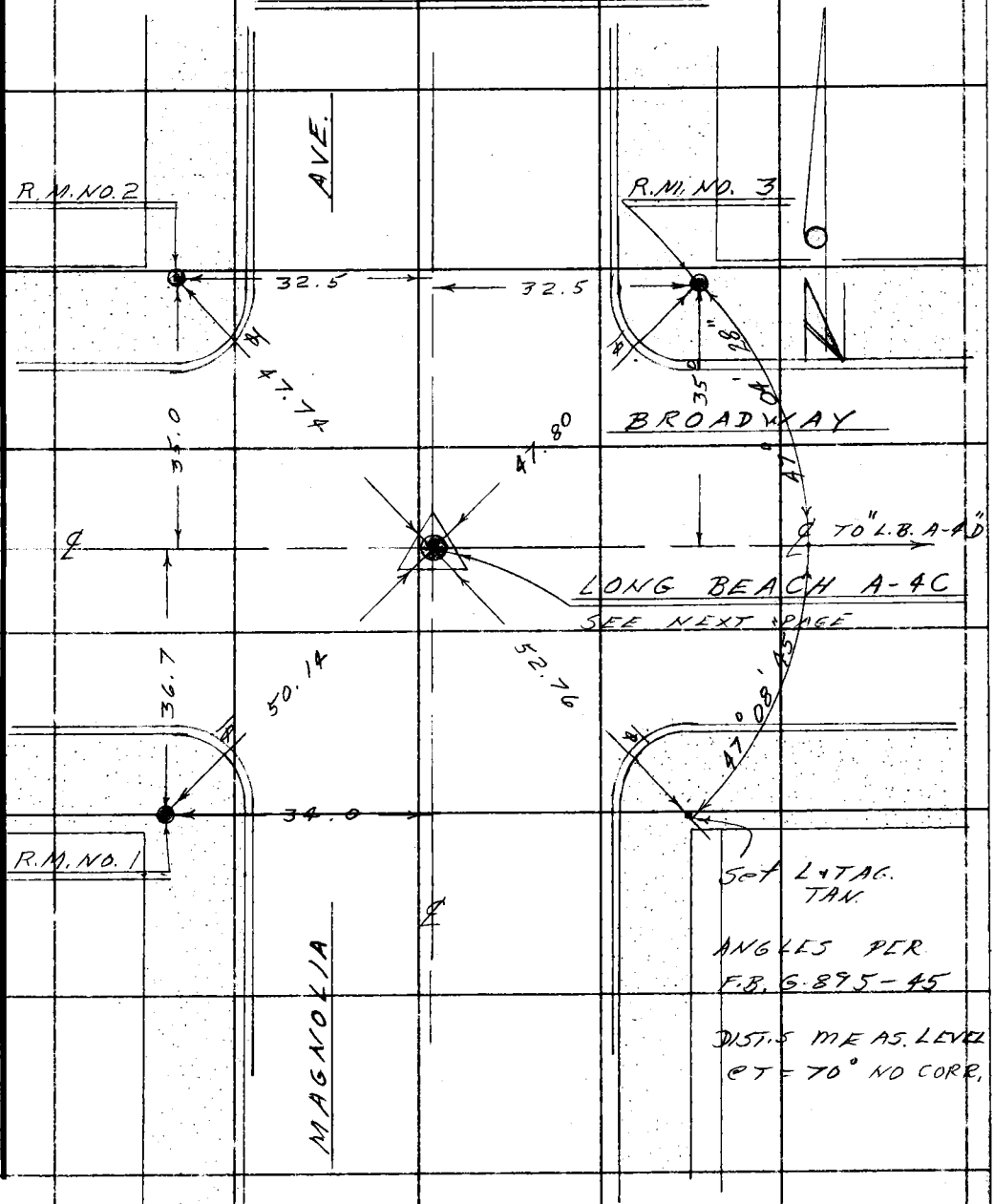
Do not extend this side of this line.

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

Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 0301.00 Tape 0162 Std 68 °F
Office Work	Surveyed by W. D. BRAY
Checked	Notes J. C. GOODWIN Date 11-60
Date	Indexed

F. B. 941 PG. 129

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LONG BEACH A-4C



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

Do not extend this side of this line.

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

76F3025 S&E #247 11-58

F. B. 941 Pg. 130 ~ DESCRIPTIONS ~

LONG BEACH A-4C

THIS STATION IS IN L. A. CO. IN THE CITY OF LONG BEACH, AND IS THE CENTERLINE INTERSECTION OF MAGNOLIA AVE. AND BROADWAY, IN A WELL WITH A STD. CO. ENGR. COVER.

STATION MARK: A SMALL SPIKE AND P.M. FOUND PER F.B. 941-45 WAS REMOVED AND REPLACED WITH A STD. 4" BRASS TRIANG. STA. CAP IN CONC. DN. 9" IN A H.H. AND STAMPED "LONG BEACH A-4C, 1960, L.A. CO. ENGR. R.E. 5669" 11-18-60

SUB-SURFACE MARK: NONE

REFERENCE MARK NO. 1: FOUND A RUSTED CUT SPIKE (NO P.M.) IN CONC. DN. 6" IN A H.H. WITH AN IRON LID FLUSH IN SIDEWALK. USED CENTER FOR TIE.

REFERENCE MARK NO. 2 & 3: FOUND A 1" BRASS BOLT & P.M. IN CONC. DN. 6" IN. A H.H. WITH AN IRON LID FLUSH IN SIDEWALK.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 Los Angeles County Engineering Bldg.
Do not extend this side of this line.
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of [illegible]
Map No.	JN 0301.00 Tape 0162 Std 68 °F
Office Work	Surveyed by W. D. BAY
Checked	Notes BAY Date 11-X-60
Date	Indexed H. E. OTT

F. B. 941 PG. 131

L. A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION
LONG BEACH A-4D

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

Do not extend this side of this line.

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

SAT L. & TAG TAN.

AVE.

℄

36.2

R.M. NO. 1

52.60

45° 00' 27"

BROADWAY

TO L.B. A-4C

℄

49.51

35.01

LONG BEACH
A-4D

SEE NEXT PG.

54.95

51.44

36.31

36.5

SET L. & TAG TAN.

ANGLES PER
F.B. G-895 - 140

DIST.S MEAS. LEVEL
@ T = 70°
NO CORR.

CHESTNUT

℄

R.M. NO. 2

76F309S S&E #247 11-58

F. B. 941 PG 132 – DESCRIPTIONS –

LONG BEACH A-4D

THIS STATION IS IN L. A. CO., IN THE CITY OF LONG BEACH AND IS THE CENTERLINE INTERSECTION OF CHESTNUT AVE. AND BROADWAY, IN A WELL WITH A STD. CO. ENGR. COVER.

STATION MARK: A CUT SPIKE AND WASHER, FLUSH, FOUND PER F.B. 741-46 (BY TIES) WAS REMOVED AND REPLACED WITH A STD. L. A. CO. 4" BRASS TRIANG. STA. CAP IN CONC. DN. 7" IN A H.H. AND STAMPED "LONG BEACH A-4D 1960, L. A. CO. ENGR. R.E. 5869" 11-18-60.

SUB-SURFACE MARK: NONE

REFERENCE MARK NO. 1: FOUND A 1" BRASS BOLT & P.M. IN CONC. DN 6" IN A H.H. WITH AN IRON LID FLUSH IN SIDEWALK.

REFERENCE MARK NO. 2: FOUND A RUSTED CUT SPIKE (NO P.M.) IN CONC. DN. 6" IN A H.H. WITH AN IRON LID FLUSH IN SIDEWALK. USED CENTER FOR TIE.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.
Do not extend this side of this line.

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

Notes Ck'd by	Survey of LONG BEACH COURTS
Map No.	JN 23012 Tape Std °F
Office Work	Surveyed by
Checked	Notes Date
Date	Indexed

F. B. 741 Pg. 133

JN 03012

LONG BEACH COURTS BLDG.

SUBSTRUCTURE STUDY

BASEMENT F1000

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

Do not extend this side of this line.

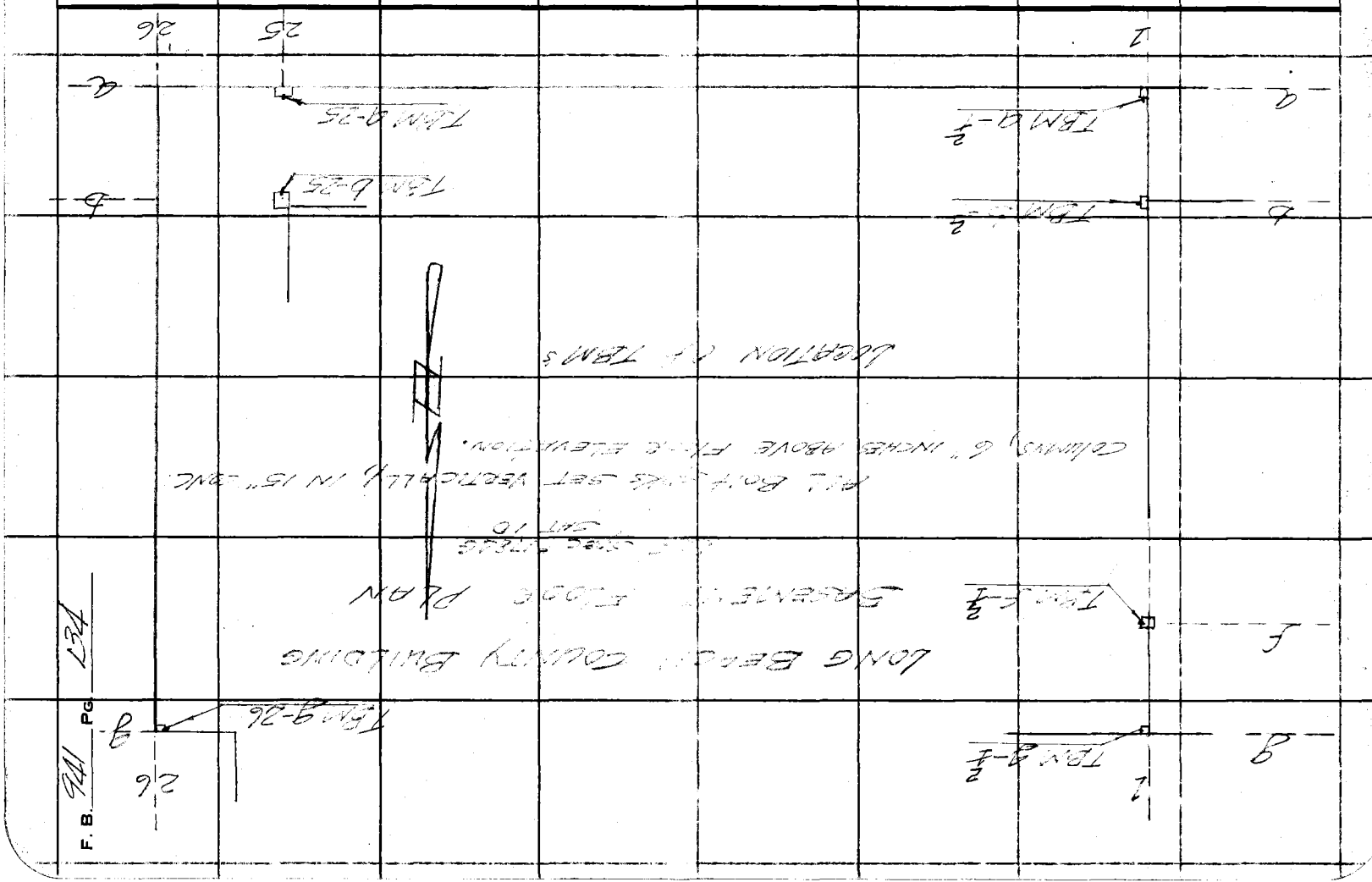
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 Los Angeles County Engineering Bldg.

76F3095 S&E #247 11-59

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

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

Do not extend this side of this line.



F. B. 941 PG. 134

76F3095 S&E #247 11-58

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

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

Do not extend this side of this line.

SUMMATION OF LEVELS FOR TBM'S @ LONG BEACH COUNTY BLDG

DATUM MAY ~~NOV~~ 1961 ~~1960~~
M.S.L. ELEV = 24.~~384~~ 396 Adj.

COUNTY ENGR'S LONG BEACH HARBOR DEPT

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

Survey of LONG BEACH CO. BLDG.
JN 2-31112 Tape Std. °F
Surveyed by A. C. Date
Notes
Indexed

SM	DIFF/ELEV (CM)	MEAN (CM)	CM to FT.	UNADJUSTED ELEV (FT)	ADJUSTED ELEV (FT)	
CLB 591				24.3840	24.~~384~~ 396	Pc, LBHD 6/1/61 JHM
TO	-314.956	-314.956	- 10.3332			
TBM C-X 2				14.~~0508~~ 0628	14.063	
TO	+ 0.268					
	- 0.282	+ 0.2750	+ 0.0090			
TBM E-X 2				14.0~~558~~ 0718	14.072	
TO	- 0.249					
	+ 0.251	- 0.2500	- 0.0082			
TBM D-X 2				14.~~0776~~ 0636	14.064	
TO	+ 0.718					
	- 0.940	+ 0.9290	+ 0.0305			
TBM A-X 2				14.~~2541~~ 0941	14.094	
TO	- 0.568	- 0.560	- 0.0184			
TBM L-35	+ 0.553			14.0~~227~~ 0757	14.076	
TO	- 0.252					
	+ 0.290	- 0.2710	- 0.0089			
TBM 9-35				14.~~0548~~ 0668	14.067	
TO	+ 0.778					
	- 0.~~533~~	+ 0.~~530~~ .7805	+ ~~0.0272~~ + 0.0256	14.~~0420~~ 0924	14.092	
TBM 9-26						
TBM 9-X 2				14.~~2699~~ 0628	14.063	
TO	+142.5891	+142.589	+ 4.6781			
CLB 158				18.~~7607~~ 7409	18.~~7477~~ 741	Pc- LBHD 6/1/61 JHM

F. B. 211 PG. 135

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

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

Do not extend this side of this line.

F. B. 941 PG 1-36

76P526B CE # 308 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY [illegible] WEATHER [illegible] INST. NO. [illegible]

NOTES BY F. S. Ow DATE 5-17-61 TIME [illegible] ROD NO. [illegible]

INDEXED [illegible] DATE [illegible] NOTES CHK'D [illegible] DATE [illegible]

F.B. 941 Pg. 37

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM CLB 571 TO [illegible]
CLB 571													CLB571
1	139	354	430	5	14.4 13.5	39	161	598	462	5	18.2 15.0	42	LBT in City Marker
2	137	951	436	5	15.5 14.0	37	145	31	246	5	16.3 12.7	36	SE cor. Ocean Blvd & Chestnut Pl. 11.4 [illegible]
3	145	122	441	5	15.9	22	166	730	467	5	17.9	24	
4	007	137	308	5	13.2	11	270	013	571	5	22.4	10	
-	091	552	395	5	14.7	6	000	0.3	-		22.4	6	
TO [illegible]	508	717					823	673	✓				
							505	317					
[illegible]							318	956	✓				
[illegible]													
1	000	000	—		8.2	6	1.68	24	344	5	21.1	6	TBM [illegible]
2	134	763	425	5	15.1	2	126	220	442	5	19.4	4	
TOTAL	214	135	1					507					
[illegible]		0.266	1										
FBM F-X2													TBM [illegible]
1	137	509	440	5	14.4 13.9	15	127	732	436	5	19.3	12	[illegible]
							127	232					
							0	232	✓				
Dist/Elev FBM B-X2													TBM [illegible]
													[illegible]

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F.B. 941 Pg. 138 JOB NO. 2371.02

SURVEY OF L. A. CO. PRECISE LEVEL NET

SURVEY BY H. E. OTT NOTES

INDEXED DATE

WEATHER Clear INST. NO. 13 7096

TIME 1120 & 230 ROD NO. 3477

NOTES CHKD DATE

STATION	BACKSIGHT					FORESIGHT					DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT	STADIA		RIGHT	MIC.	LEFT	STADIA		FROM EB 571 TO EB 158
TBM 6-X2											TBM 6-1
1	141	308	445.5	14/5 / 142	3	143	[illegible]	444.5	145 / 142	3	
	143	322	/								
DIFF/ELEV		014									
TBM 9-X2											TBM 9-1
1	136	727	437.5	136 / 136	21	146	662	447.5	157 / 157	23	Brass in No. side of column
2	146	768	447.5	158 / 158	11	146	913	447.5	161 / 161	9	
3	140	442	437.5	147 / 147	5	141	926	442.5	157 / 157	7	
TOTAL	433	137				433	501	/			
						433	425				
DIFF/ELEV							076	/			
TBM 6-25											TBM 6-25
1	141	391	445.5	146 / 146	3	142	332	443.5	145 / 145	3	Brass spk in So. side of column
						3	923				
DIFF/ELEV							409	/			
TBM 9-25											TBM 9-25
1	145	638	446.5	149 / 148	5	153	981	454.5	136 / 150	6	Brass spk in No side of column
2	154	985	455.5	158 / 158	7	156	181	457.5	159 / 153	6	
3	152	377	457.5	156 / 156	8	142	332	443.5	146 / 138	8	
TOTAL	452	970	/			452	192				
	452	192									
DIFF/ELEV	0	778	/								
TBM 9-26											TBM 9-26 Brass spk in W side of column

76P526B CE # 308 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY [illegible] DATE [illegible] WEATHER [illegible] INST. NO. [illegible]

NOTES BY [illegible] DATE [illegible] TIME [illegible] ROD NO. [illegible]

INDEXED H. E. OTT DATE NOTES CHKD DATE

F.B. 941 Pg. 139

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM CLB 5[illegible] TO CLB 15[illegible]
TBM 9-26									TBM 9-26
1	141	758	442 5	146 137 9	152	091	453 5	156 141 8	
2	153	557	454 5	156 150 6	152	372	453 5	[illegible] 7	
3	153	[illegible]	454 5	156 150 6	145	321	446 5	141 142 6	
TOTAL	~~[illegible]~~ 449	~~[illegible]~~ 001			449	784	/		
					449	[illegible]			
					0	~~[illegible]~~ 783			
DIFF/ELEV TBM 9-25									TBM 9-25
1	142	[illegible]	[illegible] 5	141 [illegible]	141	772	442 5	142 140 [illegible]	
	141	[illegible]							
DIFF/ELEV	0	[illegible]	/						
TBM 9-25									TBM 9-25
1	140	[illegible]	441 5	[illegible]	[illegible]	450	450 5	153 [illegible] 9	
2	145	[illegible]	[illegible] 5	[illegible] 9	145	941	446 5	[illegible] 10	
3	[illegible]	961	[illegible]	161 137 [illegible]	[illegible]	642	[illegible] 5	[illegible]	
[illegible]	43[illegible]	[illegible]	/		43[illegible]	033			
	43[illegible]	[illegible]							
	0	[illegible]	/						
[illegible] 2	143	342	[illegible] 5	144 141 3	144	[illegible]	445 5	[illegible] 3	TBM [illegible]
					143	342			
					0	940	/		
[illegible] 3-2									[illegible]

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F.B. 941 PG. 40 JOB NO. L. A. CO. PRECISE LEVEL NET

SURVEY OF _____ INST. NO. 1/3

SURVEY BY _____ ROD NO. 3

INDEXED _____ DATE _____

WEATHER _____ DATE _____

TIME 2:30 NOTES CHKD _____

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM CB 371 TO CB 155
1	1[illegible]	107	445	5	150	16	—	56	442	5	133	16	
	[illegible]	[illegible]											
		031	✓										
1	126	442	427	5	132	4	84	838	425	5	102	4	
2	088	235	289	5	58	6	080	111	—		77	6	
TOTAL	214	667					2[illegible]	149	1				
							2[illegible]	[illegible]					
DIFFERENCE							[illegible]	688	✓				
4	079	852	—		83 90	6	09[illegible]	977	2[illegible]	5	76 90	6	
5	274	708	52[illegible]	5	226	11	[illegible]	532	42[illegible]	5	[illegible]	11	
3	170	238	471	5	143 157	26	156	8[illegible]	457	5	116 130	26	
6	[illegible]	586	450	5	127	56	[illegible]	[illegible]	[illegible]		[illegible]	56	
TOTAL	624	636	✓				[illegible]	[illegible]	✓				
	482	447	✓				482	447					
DIFF. 5-1	142	589											
[illegible]													[illegible] 1/WCE [illegible]

Notes Ck'd by	Survey of [illegible] Bldg
Map No.	JN [illegible] Tape Std °F
Office Work	Surveyed by [illegible]
Checked	Notes [illegible] Date [illegible]
Date	Indexed [illegible]

F. B. 941 PG. 141

JN [illegible]

LONG BEACH & COUNTY

COURT BLDG.

VERTICAL DETERMINATION OF

BUILDING CORNERS.

GUIZARD

[illegible]

[illegible]

[illegible]

[illegible]

[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.

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend this side of this line.

76F309S S&E #247 11-58

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

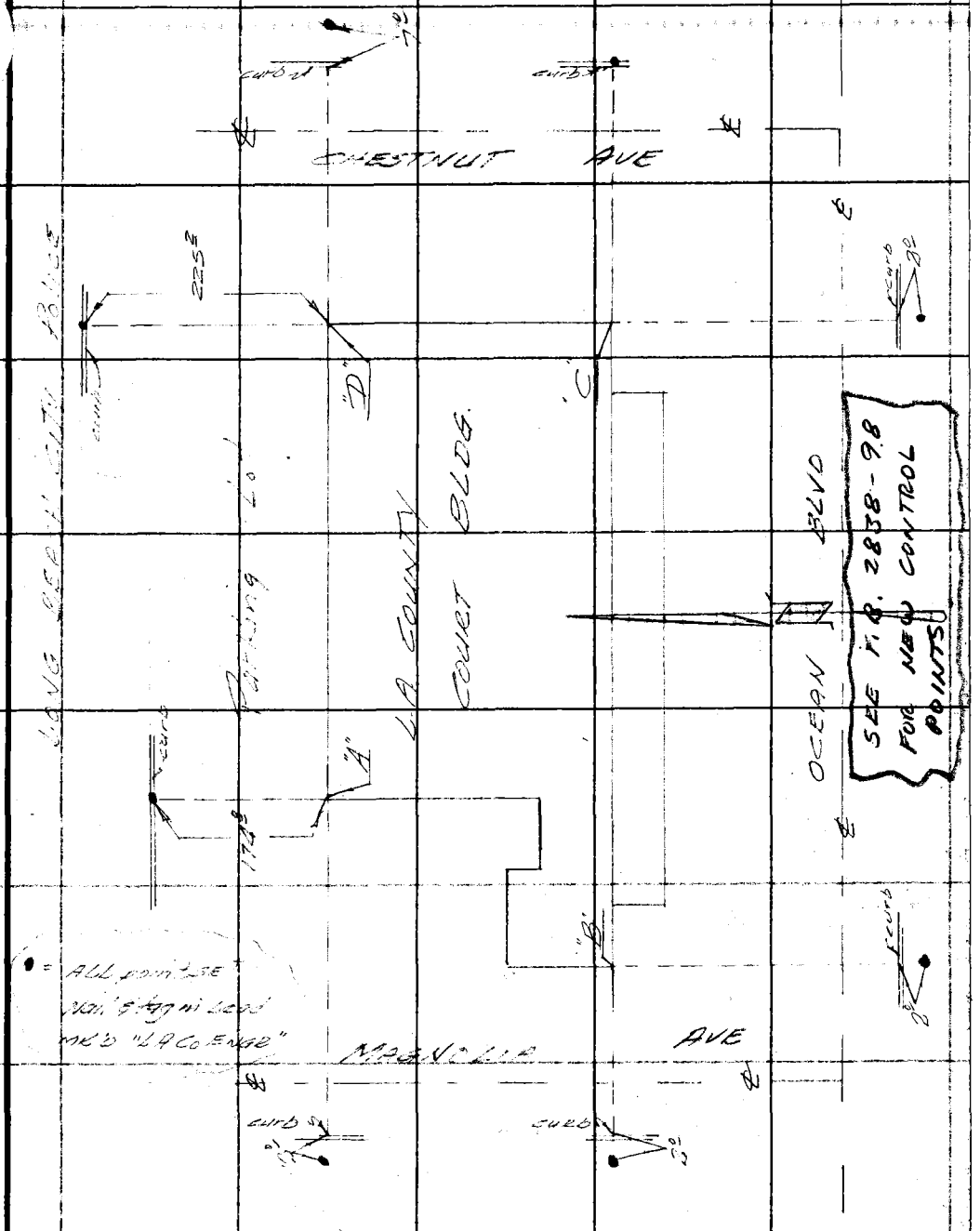
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend this side of this line.

F. B. 241 PG 142

Notes Ck'd by	Survey of LA Co Court Bldg
Map No.	JN 301.01 Tape Std °F
Office Work	Surveyed by A C Guzzardo
Checked	Notes ACG Date 5-22-61
Date	Indexed

F. B. 941 PG. 143



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

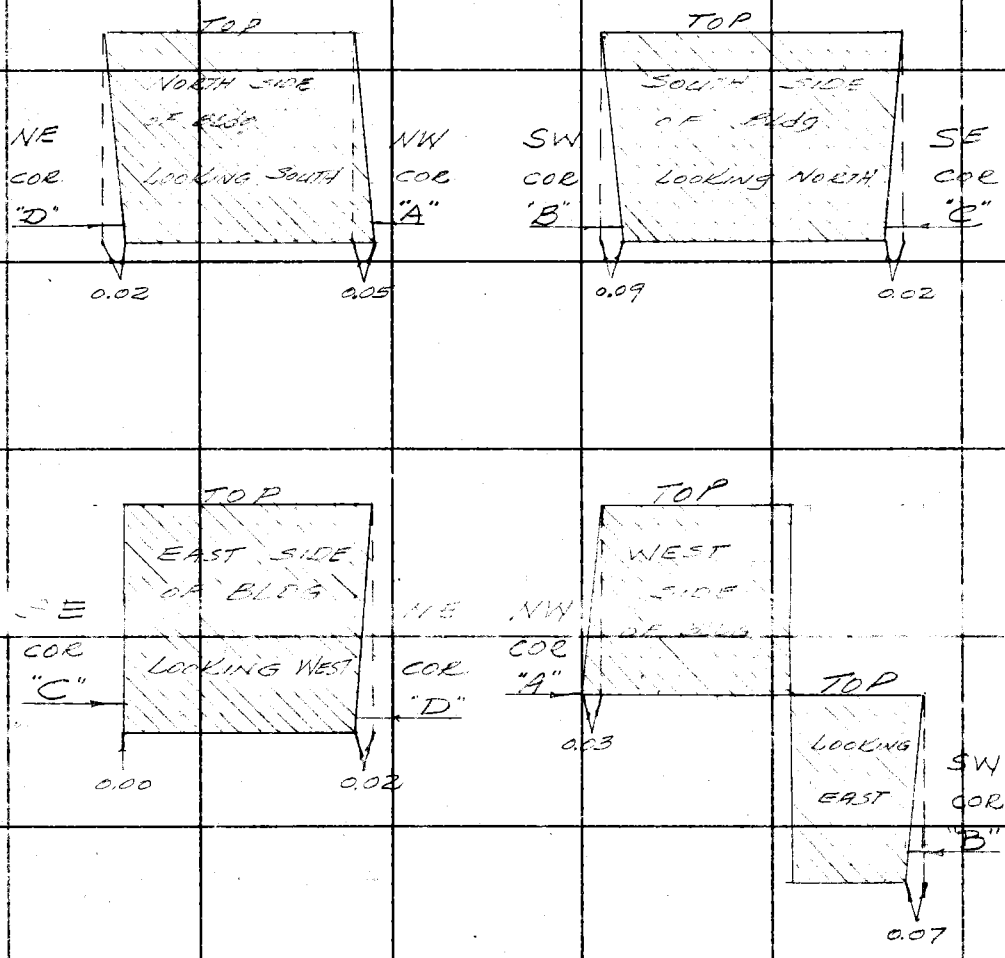
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend this side of this line.

76F309S S&E #247 11-58

F. B. 941 PG 144

MAY 22, 1961



Next Observation shown on FB 941-172

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

Do not extend this side of this line.

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

Notes Ck'd by	Survey of LBCH SUBSIDENCE
Map No.	JN 0301.02 Tape — Std — °F
Office Work	Surveyed by GUIZADO
Checked	Notes STOCK Date 5-22-61
Date	Indexed H. E. CITY MAY 31 '61

F. B. 941 PG. 145

MAY 1961
BENCH LEVELS LONG
BEACH COURT HOUSE
SUBSIDENCE
STUDY

J.N. 0301.02

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

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

Do not extend this side of this line.

76F309S S&E #247 11-58

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

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

Do not extend this side of this line.

SUMMATION OF LEVELS, AREA BOUNDED BY OCEAN BLVD, CEDAR AVE, BROADWAY & DAISY AVE. DATUM NOV 1960 COUNTY ENGR & LONG BEACH HARBOR DEPT. BM CLB # 158 MSL Elev. = 18.947 MAY 1961 Elev. = 18.741 MSL
Levels Per Pg 147 thru 152 Compare to old run Pg 118

B.M.	DIFF. EL.	Corr'n +	UNADJ EL.	ADJ EL.
158			18.74X[1]	18.741
to	+2.519	.000		
LB A 4			21.26X[0]	21.260
to	+3.135	.001		
571			24.40X[395]	24.396
to	+1.248	.001		
LBCH2			25.64X[3]	25.644
to	+0.019	.001		
LBCH3			25.66X[2]	25.663
to	+0.179	.002		
LBCH4			25.84X[1]	25.843
to	-1.509	.002		
LBCH5			24.33X[2]	24.334
to	-2.399	.002		
L.B.C.H.6			21.93X[3]	21.935
to	-0.877	.003		
LBCH7			21.06X[56]	21.059
to	-2.318	.003		
158			18.74X[38]	18.741

MAY 22, 1961

F. B. 941 PG. 146

FORM 379 SM 7-40

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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

DO NOT EXTEND NOTES THIS SIDE OF THIS LINE

Chief of Party A C GUIZADO Weather HAZE Inst. No. 15097
Notes by A & C Time 9.00 To 10.40 Rod No. 29 & 30

Name L.B. SURVEY
Job No. 0301.02
From To
Date 5-22-56
Indexed M.E.ON

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B.S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
1	6936 6749 6562		187 187 374		68°	4570 4382 4194		188 188 376		BM 158 N.W. COR OCEAN BLVD & DALE AVE BRASS PLATE IN WELL
	20247	6749		374		13146	4382		376	
2	6231 6048 5867		183 181 364			6075 5897 5719		178 178 356		+12.798 −10.279 +2.519
	18146	6049		738		17691	5897		732	
	+12798					−10279				BM LB A4 CITY STA OCEAN BLVD & MAGNOLIA AVE TRAVSE STATION
3	6749 6577 6403		172 174 346			5062 4888 4716		174 172 346		+12.224 −9089 +3.135
	19729	6576		1084		14666	4888		1078	
4	5860 5648 5437		212 211 423			4416 4201 3987		215 214 429		BM CLB 571 SE COR OCEAN BLVD & CHESTNUT AVE LET TOP CITY MARKER
	16945	5648		1507		12604	4201		1507	
		12224					9089			

F.B. 241 PG. 147

FORM 379 SM 7-40

FORM 379 SM 7-40

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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

DO NOT EXTEND NOTES THIS SIDE OF THIS LINE

Chief of Party A.C. Guzzado Weather Cloudy Inst. No. 15097
Notes by A.L. Gable Time 9:00 AM-10:[illegible] AM Rod No. 29-30

Name Long Beach Subsidence
Job No. 6301.02
From ____ To ____
Date 5-22-61
Indexed [illegible]

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B.S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
12	4731	5298	093	3439	68°	5831	5708	094	3418	− 11.445
	4638		094			5737		094		+ 9.936
	4544		187			5643		188		− 1.509 ✓
	13913	4638		3626		17211	5737 ✓		3606	
	+ 9.936					− 11.445 ✓				BM LBCH 5 SE COR BROADWAY & CHESTNUT AVE C SPK IN CONC, IN WELL
13	5918		186			6604		185		− 18.039
	5732		188			6419		187		+ 15.640
	5544		374			6232		372		− 2.399 ✓
	17194	5731		4006		19255	6418		3978	
14	5298		150			6451		150		
	5148		150			6301		150		
	4998		300			6151		300		
	15444	5148		4300		18903	6301		4278	
15	4856		095			5420		100		BM LBCH 6A SW COR BROADWAY & MAGNOLIA AVE C SPK IN CONC, IN WELL
	4761		094			5320		101		
	4667		189			5219		201		
	14284	4761		4489		15959	5320		4479	
	+ 15640					− 18039 ✓				

F.B. 911 PG. 150

FORM 379 5M 7-40

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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

DO NOT EXTEND NOTES THIS SIDE OF THIS LINE

Chief of Party A.C. Quizado Weather Cloudy Inst. No. 15097
Notes by A.L. Goble Time 9:00 A.M.-10:40 A.M. Rod No. 29-30

Name Long Beach Subsidence
Job No. 0301.02
From To
Date 5-22-61
Indexed H.E. On

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B.S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
16	5589		151	4489	68°	5540		146	4479	BM LBCHGA _ SW COR
	5438		150			5394		146		BROADWAY & MAGNOLIA AVE
	5288		301			5248		292		C SPK IN CONC, IN WELL
	16315	5438		4790		16182	5394		4771	
17	5007		151			5929		152		-11.870
	4856		154			5177		155		+10.293
	4702		305			5622		307		-0.877
	14565	4855		5095		17328	5776		5078	
	+10293					-11.170				BM LBCH 7 _ SW COR
										BROADWAY & DAISY AVE
										C SPK IN CONC, IN WELL
18	5422		186			5838		190		
	5236		185			5648		190		
	5051		371			5458		380		
	15709	5236		5466		16944	5648		5458	
19	5258		186			5818		186		
	5072		189			5632		186		
	4883		375			5446		372		
	15213	5071		5841		16896	5632		5830	
		10307					11280			

F.B. 4711 PG. 157

FORM 379 5M 7-40

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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

DO NOT EXTEND NOTES THIS SIDE OF THIS LINE

Chief of Party A.C. Guizado Weather HAZY Inst. No. 15097
Notes by A.L. Goble Time 9:00 AM-10:40 AM Rod No. 29-30

Name L.B. SUBSIDENCE
Job No. 0301.02
From To
Date 5-22-61
Indexed H.E.O.T.

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B.S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	4967	10307	083	5841	68°	5 [illegible]	11280	080	5830	
20	4884		082			5889		080		- 23.340
	4802		165			5802		160		+ 21.022
	14653	4884		6006		17667	5889		5990	- 2.318
	5853		022			6193		022		
21	5831		022			6171		023		
	5809		044			6148		045		
	17493	5831		6050		18512	6171		6035	
	+ 21022					- 23.340				BM CLB 158 NW COR DAISY AVE & OCEAN BLVD BRASS PLATE IN WELL

PG 152

Notes Ck'd by	Survey of L.B.Co.BLDG, SUB. STUD.	F. B. 941 Pg. 153
Map No.	JN 0021.03 Tape — Std — °F	
Office Work JFM	Surveyed by G.E. DREIER	
Checked	Notes G.E.D. Date 10-23-61	
Date	Indexed [illegible]	

JOB NO. 0021.03

LONG BEACH Co. BUILDING
SUBSIDANCE STUDIES

DREIER
MOODY
VALDEZ
LYBRAND
WORKMAN

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

Do not extend notes this side of this line.

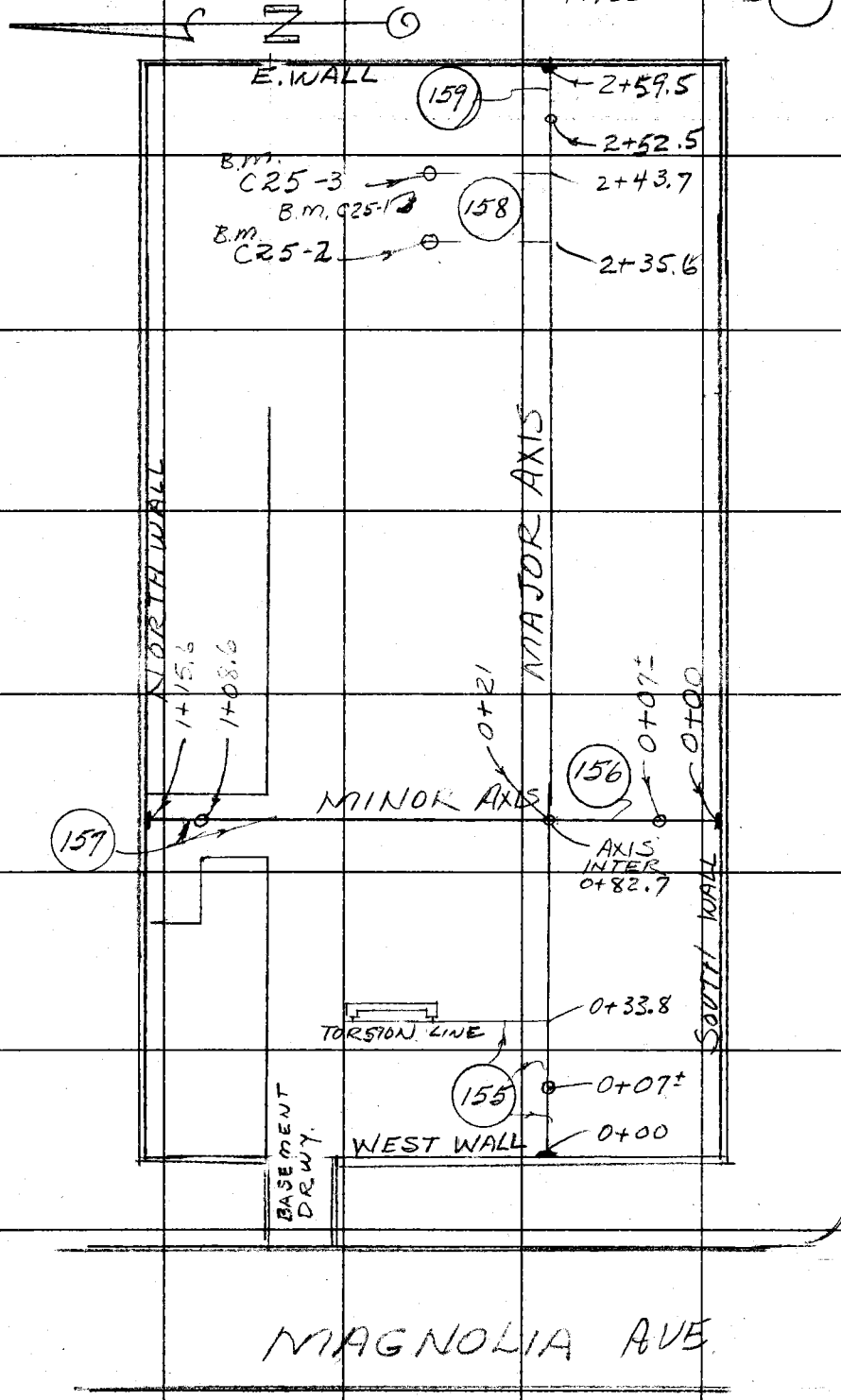
RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE #247—3-57

F. B. 941 Pg. 154

INDEX

PAGE = 2



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

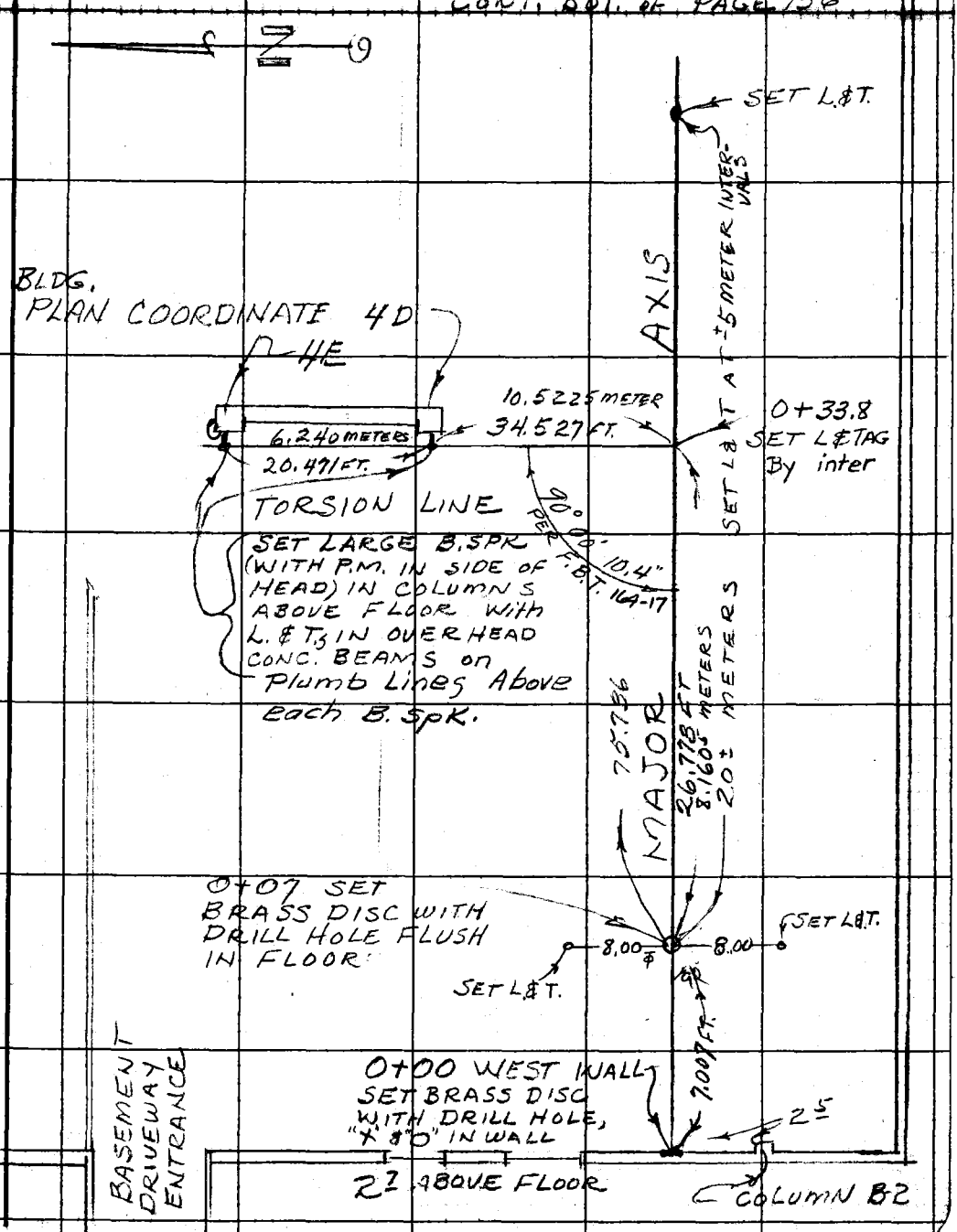
Do not extend notes this side of this line.

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

Notes Ck'd by	Survey of L.B.Co.BLDG. SUB.STU.
Map No.	JN 0021.03 Tape Std °F
Office Work	Surveyed by G.E. DREIER
Checked	Notes G.E.D. Date 10-3-61
Date	Indexed H. E. OTT

F. B. 941 PG. 155

CONT. BOT. OF PAGE 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.

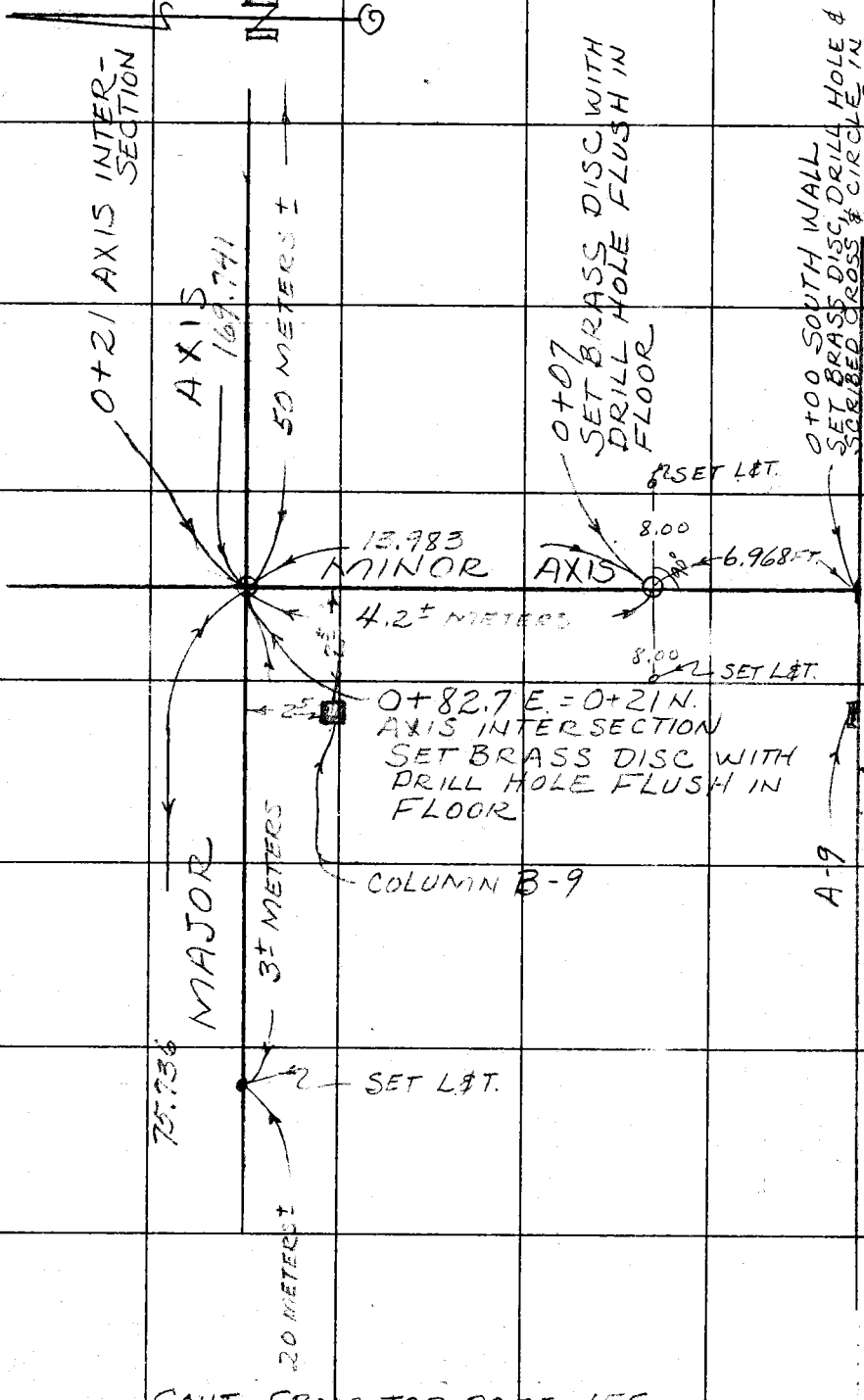
Do not extend notes this side of this line.

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

763095 CE #247—7-53

F. B. 941 PG. 156

CONT. ON BOT. PAGE 158



CONT. FROM TOP PAGE 155

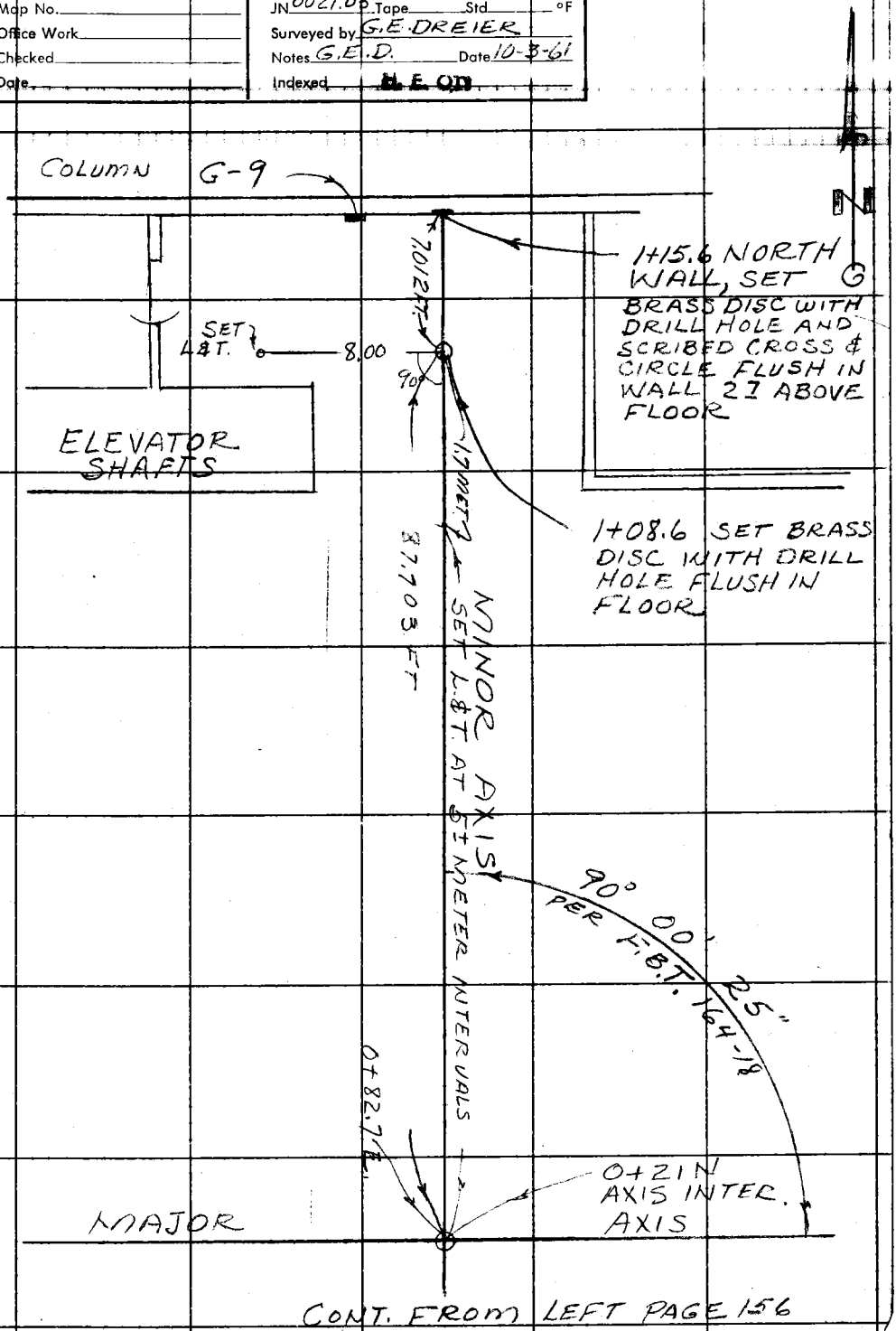
RETURN TO
LOS ANGELES COUNTY ENGINEER
700 Los Angeles County Engineering Bldg.

Do not extend notes this side of this line.

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

Notes Ck'd by	Survey of L.B. Co. BLDG. SUB. STU.
Map No.	JN 0021.03 Tape Std °F
Office Work	Surveyed by G.E. DREIER
Checked	Notes G.E.D. Date 10-3-61
Date	Indexed H. E. Ott

F. B. 941 Pg. 157



CONT. FROM LEFT PAGE 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 ENGINEER
DO LOS ANGELES COUNTY ENGINEERING BLDG.

763095 CE #247 7-53

CONT. ON BOT. OF PAGE 159

F. B. 941 PG. 158

B.M. C 25-1
SET LARGE B. SPK IN COR. OF CONC. COLUMN ABOVE WORK-BENCH ABOUT 3FT ABOVE FLOOR
+ 9'-4"

B.M. C-25-3
SET BRASS CAP WITH B.M. BUTTON WITH DRILL HOLE 6.7 FT. DEEP UNDER CAST IRON COVER IN TOP OF FOOTING
10.718 FT.
3.267 METERS

SET L&T.
2+43.7
90°01' 16.6"
PER F.B.T. 164-24

SET L&T.
50± METERS
COLUMN B-25

3.2955 METERS
10.812 FT
SET DRILL HOLE IN ASPHALT TILE
2+35.6

9'
FOOTING PER PLAN

HALLWAY

90°03' 52.9"
PER F.B.T. 164-25

B.M. C25-2
SET BRASS CAP WITH B.M. BUTTON WITH DRILL HOLE ABOUT 6.7 FEET BELOW FLOOR UNDER CAST IRON COVER, IN TOP OF FOOTING

HALLWAY
HALLWAY
MAINTANCE ROOM
MAJOR AXIS
BASEMENT GARAGE

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

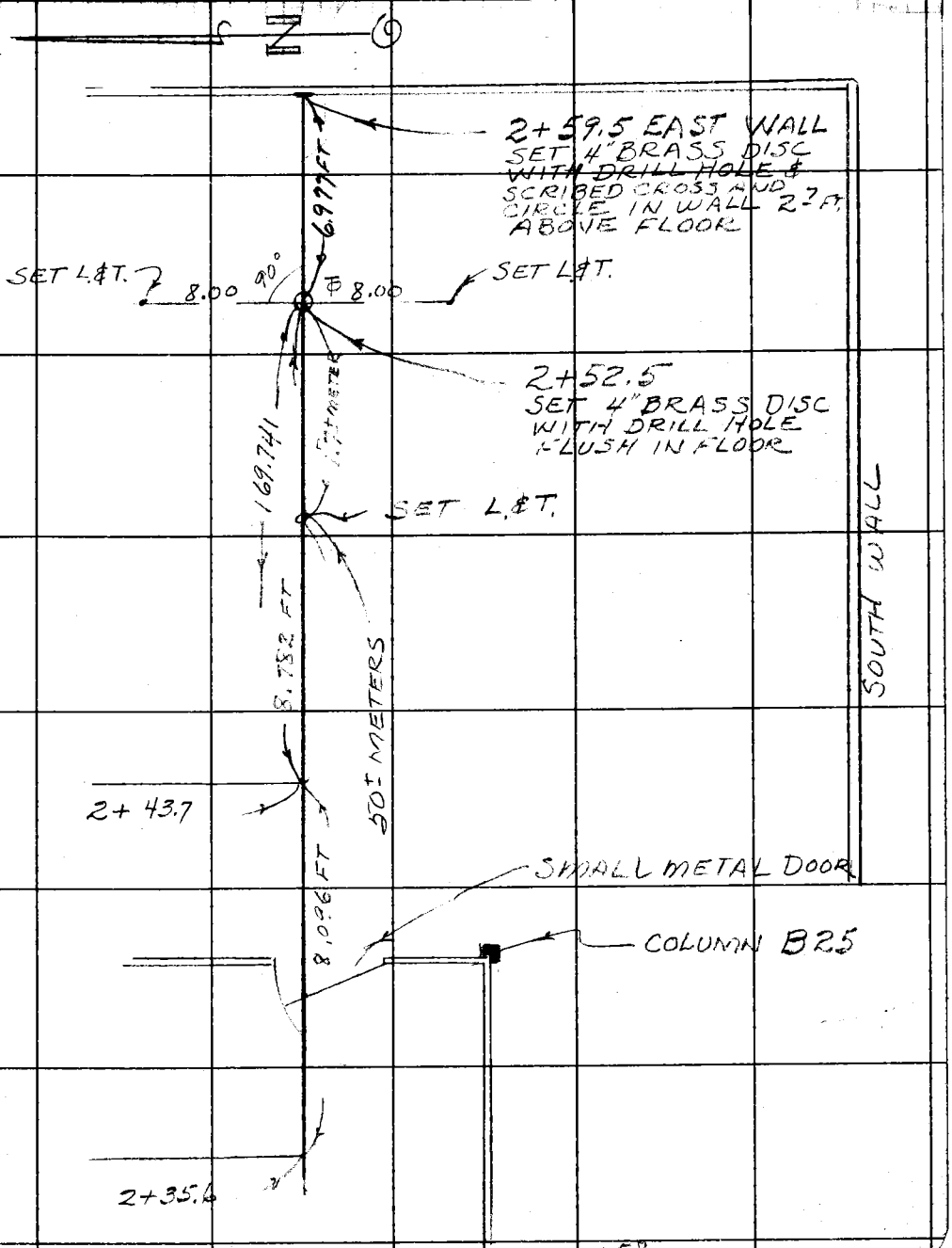
Do not extend notes this side of this line.

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

CONT. FROM TOP. PAGE 156

Notes Ck'd by	Survey of L.B. CO. BLDG. SUB STUD
Map No.	JN 0021.03 Tape Std °F
Office Work	Surveyed by G.E. DREIER
Checked	Notes G.E.D. Date
Date	Indexed H.E.O.K.

F. B. 941 PG. 159



CONT. FROM TOP PAGE 158

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

Do not extend notes this side of this line.

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

76309S CE #247—7-53

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

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

Do not extend notes this side of this line.

F. B. 941 PG. 160

Notes Ck'd by	Survey of L.B.Co.BLDG. SUB STU.
Map No.	JN 00213 Tape Std °F
Office Work	Surveyed by G.E.DREIER
Checked	Notes G.E.D Date 11-15-61
Date	Indexed NOV 20 61

F. B. 941 PG. 161

JOB NO. 0021.03 STUDY
LONG BEACH CO. BLDG. SUBSIDENCE

AREA BOUNDED BY OCEAN BLVD, CEDAR AVE., BROADWAY, & DAISY AVE.

LEVELS — NOV. 15, 1961

DREIER

LEVEL SUMMATIONS
PAGES 162, 169, 170 & 171

VERTICAL DETERMINATION OF BLDG. CORNERS
PAGE 172

MOODY
VALDEZ
LYBRAND
WORKMAN

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

Do not extend notes this side of this line.

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

76509S CE #247—7-53

SUMMATION OF LEVELS AREA BOUNDED BY OCEAN BLVD, CEDAR AVE, BROADWAY, & DAISY AVE. (MAY 1961 L.B. HARBOR DEPT. ELEV. = 18.741 MSL)

NOV. 15, 1961, LEVEL NOTES ON PAGE 163 THRU 168 CLB-158 AUG 1961 = 18.739

CLB-571 AUG 1961 = 24.405

F.B. 941 PG. 162

B.M.	DIFF IN ELEV. (IN CM)	MEAN (CM)	FEET	UNADJ ELEV	ADJ
C.LB 158				18.741	18.739
TO	+77.079 ✓				
TRAV. STA. A-4	-77.103 ✓	+77.091 ✓	+2.5292 ✓	21.270 (682)	21.269
TO	+95.852 ✓				
CLB #571	-95.844 ✓	+95848 ✓	+3.1446 ✓	24.414 (28)	24.405
TO	+37.995 ✓			+.0014	
LB CH #2	-38.007 ✓	+35001 ✓	+1.2467 ✓	25.660 (517)	25.653
TO	+00.610 ✓			+.0027	
LB CH #3	-00.594 ✓	+00634 ✓	+0.0208 ✓	25.681 (725)	25.675
TO	+05.437 ✓			+0.0041	
LB CH #4	-05.536 ✓	+2.2486 ✓	+0.1800 ✓	25.861 (225)	25.857
TO	-46.125 ✓			+.0055	
LB CH #5	+46.072 ✓	-46.098 ✓	-1.5124 ✓	24.349 (401)	24.346
TO	-73.299 ✓			+0069	
LB CH #6A	+73.327 ✓	-73.315 ✓	-2.4053 ✓	21.944 (348)	21.942
TO	-26.978 ✓			+0.0082	
LB CH #7	+26.951 ✓	-26.964 ✓	-0.8841 ✓	21.060 (502)	21.058
TO	-70.669 ✓			+.0096	
CLB #158	+70.806 ✓	-70.738 ✓	-2.3198 ✓	18.739 (294)	18.739
		-00.053	-0.0096		

JTM 11/22/61

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

Do not extend notes this side of this line.

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

76P526B CE # 308 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

JOB NO. 0301-02 SURVEY OF L.A. CO. PRECISE LEVEL NET — 007103 — L.A. CO. BLDG. SUB. STNDRDS

SURVEY BY [illegible] WEATHER Clear INST. NO. 17227

NOTES BY C.G. YALDEZ DATE 11-15-61 TIME ROD NO. 2115

INDEXED B.E. OTT DATE NOV 20 '61 NOTES CHKD [illegible] DATE 11/[illegible]

F.B. 9411 Pg. 163

STATION	BACKSIGHT					FORESIGHT					DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT	STADIA		RIGHT	MIC.	LEFT	STADIA		FROM C.L.B.# 158 TO SAME - LEFT [illegible]
B.M. C.L.B.# 158											B.M. C.L.B.# 158
1	104	681	446 E	182 104	41	111	572	412 E	132 91	41	BRASS PLATE IN WELL @ N.W. &
2.	186	632	446 E	324 167	37	157	718	438 E	172 61	57	a- OCEAN BLVD & DAISY AVE - 4' N
					78					98	of c.b. & 20' W of c.b.
TOTAL -	+246	351 ✓				269	290 ✓				
	-261	290 ✓							METERS	153	
DIFF. IN ELEV.	+ 71	071 ✓									
B.M. C.L.B.# A-4											
1.	205	786	526 E	226 126	40	142	412	442 E	161 122	39	B.M. C.L.B.# A-4 TRAVERSE E
2.	138	470	466 E	138 143	37	130	112	431 E	149 111	38	② OCEAN BLVD & N. HAGEMAN A
					79					117	F.B. 923 - 31 & 33.
TOTAL	+343	206 ✓				272	284 ✓			79	
	-343	284 ✓							METERS	156	
DIFF. IN ELEV.	+ 0	822 ✓									
B.M. C.L.B.# 571											
1.	158	771	439 E	152 125	27	100	776	401 E	32 30	29	B.M. C.L.B.# 571
-	100	744								27	1/4" IN TOP OF CONC. CITY MON.
DIFF/ELEV.	+ 57	115 ✓							METERS	27	② S.E. COR. OCEAN BLVD & [illegible]
											11' S. of c.b. & 1' E. F/L.
											B.M. [illegible] C.H.# 2
											OCEAN BLVD & [illegible]
											4. = COR. PT. SPL. 17' E. of E. END

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F.B. 941 PG. 164 JOB NO. 0021.03

SURVEY OF L.B. Co. BLDG. SUB. STUDIES

SURVEY BY GED NOTES C.G. VALDEZ

INDEXED H.E.O. DATE 11-15-61

WEATHER Clear & Cool INST. NO. NAD-27-1

TIME ROD NO. 76 + 75

NOTES CHKD DATE 11/24/61

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT	FORESIGHT STADIA	DESCRIPTION AND REMARKS
									FROM LB 158 TO FOREWARD
B.M. L.B. CH 2	168	146	4645	197 141 47	167	536	4685	192 143 49	CONT.
1.	167	536						47	
	+ 0	610						METERS 16	
DIFF/ELEV.	+ 00	610							
									B.M. LB CH 3
									OCEAN BLVD & CEDAR AVE N.W. COR
									B. STAMPED IN CURB 7.8 N. OF N. END C.R.
B.M. LB CH 3									
1.	175	531	4768	175 133 42	143	139	4025	134 92 42	
2.	164	762	4655	186 143 43	154	111	4576	137 94 43	
3.	156	928	4515	165 147 18	165	341	4395	196 180 16	
				103				101	
TOTAL	+ 496	339			490	102		404	
	- 490	172						METERS 205	
DIFF/ELEV.	+ 05	437							
									B.M. LB CH 4
B.M. LB CH 4									CEDAR AVE & BROADWAY, S.W. COR
1.	150	422	4558	175 125 50	175	467	4175	75 25 50	W. SPK IN CONC. IN WELL 10'S & 8'W
					15	432		100	OF CURB, IN CONC. WALK
					- 46	125			
B.M. LB CH 5									B.M. LB CH 5
1.	180	539	4815	200 160 40	175	991	3705	195 155 40	BROADWAY & CHESTNUT AVE, S.E. COR
T.P. 2	124	698	4255	148 100 48	225	145	5005	226 178 48	C. SPK. IN CONC. IN WELL 10'S & 8'
				88				96	E. OF CURB LINE
TOTAL	303	237			373	536		80	B.M. LB CH 6A S. SIDE COR
					#303	237		80	BROADWAY & MAGNOLIA AVE
DIFF IN ELEV.					- 73	299		176	C. SPK IN CONC. IN WELL, 9' W. &
									11 FT. S. OF C.B. LINE

76P526B CE # 308 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA		DESCRIPTION AND REMARKS
													FROM CLB #158 TO FORWARD
B.M. LB CH 6A 1	175	259	476	5	160 / 190	30	173	323	474	5	158 / 188	30	CONT.
2	154	766	455	5	139 / 170	31	183	680	484	5	168 / 199	31	
TOTAL	330	025				61	357	003				61	
B.M. LB CH #7							-330	025				61	B.M. LB CH #7
DIFF IN ELEV.							-26	978				122	BROADWAY & DAISY AVE [illegible]
1	166	580	467	5	145 / 186	41	165	288	467	5	147 / 188	41	CSPK IN CONC. IN WELL, 7' W. OF [illegible] LINE & 9' [illegible] OF [illegible] LINE
2	144	373	445	5	123 / 165	42	174	534	475	5	153 / 194	41	
3	153	586	454	5	142 / 163	21	192	413	493	5	181 / 203	22	
	464	536				104	535	205				104	
B.M. CLB #158							+464	536				104	B.M. CLB 158
							-70	669				208	OCEAN BLVD. & DAISY AVE N.W. [illegible] A BRASS PLATE IN A WELL 7 FT N & 20 4' W. OF CURB LINE.

JOB NO. ~~0301.02~~ 0301.03 SURVEY OF ~~L.A. CO. PRECISE LEVEL NET~~ L.B. CO. BLDG. SUB. STUDIES

SURVEY BY [illegible] DATE 11-15-61 WEATHER [illegible] INST. NO. [illegible]

NOTES BY [illegible] TIME 2 [illegible] ROD NO. [illegible]

INDEXED H. E. OTT DATE NOTES CHKD [illegible] DATE 11/22/61

F.B. 941 Pg. 165

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F.B. 941 Pg. 166 JOB NO. 6021.02 SURVEY OF L.B. COAST BLVD SUB. STUDIES SURVEY BY G.E.D. NOTES G.E.D. INDEXED M.E.O. DATE

INST. NO. N3 25-34 ROD NO. 26 & 15 DATE 11/22/61 NOTES CHKD A.F.M. DATE WEATHER FOG - WIND

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT	FORESIGHT STADIA	DESCRIPTION AND REMARKS
									FROM B.M. CLE # 158 TO TRAV. RUN
B.M. CLE # 158									B.M. CLE # 158
1	189	960	490 5	538 / 522	15	780	451 5	126 / 161	CURAN AVE & DAISY AVE N.W. COR.
2	176	727	477 5	126 / 165	14	207	448 5	126 / 165	BRASS PLATE IN WELL, 7 FT. N. & 20½ FT. N. OF CURB LINE
3	168	696	469 5	189 / 147	16	985	463 5	175 / 144	
TOTAL +	534	783			45	172			
−	462	977							
DIFF IN ELEV +	72	806 CM							B.M. LB CH 7
B.M. LB CH 7									BROADWAY & DAISY AVE S.W. COR.
1	180	768	487 5	139 / 121	15	852	467 5	177 / 137	C.SPK. IN CONC. IN WELL
2	176	461	479 5	191 / 161	173	52	479 5	32 / 28	7 FT. W. & 9'S. OF CB. LINE
TOTAL +	356	1229			188	904			
−	325	1008							
DIFF IN ELEV +	31	221 CM							B.M. LB CH 6A
B.M. LB CH 6A									BROADWAY & CEDAR S.W. COR.
1	208	709	500 5	228 / 188	12	559	423 5	140 / 121	C.SPK. IN CONC. IN WELL 9' W & 11 S. OF CB. LINE
2	170	475	479 5	132 / 98	13	131	493 5	32 / 28	
TOTAL +	378	1184			25	690			
−	306	860							
DIFF IN ELEV +	72	324 CM							B.M. LB CH 5
B.M. LB CH 5									BROADWAY & CEDAR S.E. COR.
1	117	212	498 5	132 / 98	13	140	452 5	128 / 98	C.SPK. IN CONC. IN WELL 10 S. & 8 E OF CURB LINE
	151	140							
DIFF IN ELEV +	46	072							B.M. LB CH 4
B.M. LB CH 4									BROADWAY & CEDAR S.W. COR.
									W SPK IN CONC. IN WELL 10'S & 8'W OF CB

76P526B CE # 308 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY [illegible] WEATHER [illegible] INST. NO. [illegible]

NOTES BY [illegible] DATE [illegible] TIME [illegible] ROD NO. [illegible]

INDEXED [illegible] DATE [illegible] NOTES CHKD [illegible] DATE [illegible]

F.B. 941 Pg. 11

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT	STADIA	RIGHT	MIC.	LEFT	STADIA	FROM CLB #158 TO BACK
B.M. LB CH 4									CONT.
1	169	239	1305	101 16	154	272	1555	122 12	
2	156	106	1317	90	166	106	1351	107 13	
3	149	135	1045	103 43	180	121	1251	121 1	
TOTAL	494	111		101	500	529		103	
					494	111		101	
DIFF IN ELEV.					5.536	CAL		2.1	NAVD
B.M. LB CH 3									B.M. LB CH #3
1	163	34	1317	35 11	151	251	1310	46	OCEAN BLVD & CEDAR AVE. N.W. C
					12	12		49	
DIFF/ELEV.					2.651			95	B. SPK. IN CURB 9ft N. OF N. END C
B.M. LB CH 2									B.M. LB CH #2
1	191	301	1317	67 23	147	211	1115	127	OCEAN BLVD & CHESTNUT AVE. N.E.
					191	301		28	
DIFF. IN ELEV.					28.097			55	B. SPK. IN CURB 16 FT. E. OF E. END
B.M. CLB 571									B.M. CLB 571
1	132	158	1335	152 113 39	165	672	2005	136 135 40	OCEAN BLVD & CHESTNUT AVE. S.E.
									L&T. IN TOP OF 4 CONC. CITY
2	[illegible]	[illegible]	[illegible]	[illegible]	203	802	5045	223 183	PROPERTY MARKER 11 S. OF [illegible]
TOTAL	273	130			368	974		80 78	& 14 E. OF P/L
					273	130			
DIFF IN ELEV B.M. LB A-4					95	844		158	B.M. LB A-4 TRAVERSE STA. OCEAN BLVD & MAGNOLIA AVE

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM CLB #158 TO BACK TO #158
B.M. L.B. A-4													CONT.
1	156	901	457	5	175 138	37	185	601	486	5	203 166	37	
2	114	810	415	5	134 93	41	163	213	464	5	183 142	41	
	271	711				78	348	814				78	
							271	711				78	
							77	103				156	
B.M. CLB #158													B.M. CLB #158 BRASS PLATE IN WELL AT N.W. COR. OCEAN BLVD. & DAISY AVE., 7 FT. N. & 20± W. OF CURB LINE

F.B. 941 PG. 168 JOB NO. 0021.03

SURVEY OF L.B. CO. BLDG. SUB. STUDIES

SURVEY BY G.E. DREIER NOTES G.E.D.

INDEXED B.E. OTT DATE

WEATHER COOL INST. NO. N3-75234

TIME ROD NO. 76 #95

NOTES CHKD [illegible] DATE 11/6/46

763098 CE #247—7-53

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

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

Do not extend notes this side of this line.

AUG '61 CLB 158 = 18.739 MSL

SUMMATION OF LEVELS (PAGES 171 THRU 180) LONG BEACH CO. BLDG.

ELEV. DATUM L.B. HARBOR DEPT. MAY 1961 CLB #158

B.M.	DIFF IN ELEV IN CM	MEAN	FEET	UNADJ ELEV.	Corr'n	ADJ ELEV
CLB 158	+77.079	+.77091	+2.5292	18.~~741~~ 7390		18.739
TO	-77.103					
TRAV. STA L.B. A-4	-219244			21.2702		21.269
TO	+219341	-219292	-7.1946			
T.B.M. G-2	+00199			14.0756	14.072	
TO	-00153	+00176	+0.0058	-.047	.047	
F-2	-10618			14.0286	14.025	
TO	+10608	-10613	-0.3482	14.0814		14.078
E-4	+00015			13.7332		13.730
TO	-00008	+00012	+0.0004			
D-4	+10280			13.7336		13.730
TO	-10295	+10288	+0.3375			
B-2	+00920			14.0711		14.068
TO	-00899	+00910	+0.0298			
A-2	-00087			14.1010		14.097
TO	+00084	-00086	-0.0028			
B-3	+00429	+00434	.0143	14.0982		14.094
TO	-00440		+0.~~1042~~			
B-5	-00897		.0290	14.2024		14.109
TO	+00872	-00884	-0.~~1190~~			
B-7	+01149			14.0834		14.080
TO	-01174	+01162	+0.0381			
B-9				14.1215		14.118

CONT.

SEE NOTE PG. 184

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

Survey of L.B. Co. BLDG. SUB. STUDY
JN [illegible] Tape Std. of
Surveyed by G. E. DREIER
Notes [illegible] Date 11-16-61
Indexed H. F. [illegible]

F.B. 941 PG. 169

B.M.	DIFF. IN ELEV. IN CM	CONT. FROM PAGE 159 MEAN (cm)	FEET	UNADJ. ELEV.		Adj
B-9				14.1215		14.118
TO	− 00 127 ✓					
	+ 00 175 ✓	− 00 151	− 0.0050 ✓			
B-11	+ 00 535 ✓			14.1165		14.113
TO		+ 00 449	+ 0.0147 ✓			
	− 00 363 ✓					
B-13				14.1312		14.128
	+ 00 061 ✓					
TO	− 00 108 ✓	+ 00 086	+ 0.0028 ✓			
	+ 00 048 ✓			14.1340		14.130
B-15						
TO	− 00 044 ✓	+ 00 046	+ 0.0015 ✓			
B-17				14.1355		14.132
	− 00 367 ✓					
TO						
	+ 00 347 ✓	− 00 357	− 0.0117 ✓			
B-18				14.1235		14.120
	+ 00 206 ✓					
TO	− 00 238 ✓	+ 00 222	+ 0.0073 ✓			
B-20				14.1311		14.128
TO	− 00 179 ✓					
	− 00 178		− 0.0058 ✓			
	+ 00 177 ✓					
B-23				14.1253		14.122
	− 01 023 ✓					
TO						
	+ 01 097 ✓	− 01 060	− 0.0348 ✓			
B-25				14.0905		14.087
	− 00 236 ✓					
TO						
	+ 00 192 ✓	− 00 214	− 0.0070 ✓			
A-25				14.0835		14.080
	+ 82 137 ✓					
TO						
	− 82 150 ✓	+ 82 144	+ 2.6950 ✓			
C-25-1				16.7785		16.775
	−290 267 ✓					
TO						
	+ 290 293 ✓	− 290 280	− 9.5236 ✓			
C-25-3				7.2549		7.251
	+ 00 634 ✓					
TO						
	− 00 613 ✓	+ 00 624	+ 0.0205 ✓	7.2754		
C-25-2						7.272

CONT. NEXT PAGE

F.B. 911 PG. 170

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

Do not extend notes this side of this line.

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

763095 CE #247—7-53

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

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

Do not extend notes this side of this line.

B.M.	DIFF. IN ELEV. IN CM	MEAN	CONT. FROM FEET	PAGE 170 UNADJ. ELEV.		ADJ.
C-25-2	+208 313 ✓			7.2754		7.272
TO		+ 208 324	+ 6.8348			
G-26	-208 336 ✓			14.1102		14.107
G-2	+239.924 ✓	239.940	✓	14.3756 (16.169)	←	14.072
TO	-246.594	~~+240246~~	+ 7.8720			
B.M. LB CH6A	-239 957 ✓			21.9476		21.942

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

Survey of L.A. Co. BLDG. SUB. STUDY
JN 002168 Tape _____ Sid _____ of
Surveyed by G.E. DREIER
Notes _____ Date 1-6-61
Indexed _____

F. B. 941 Pg. 171

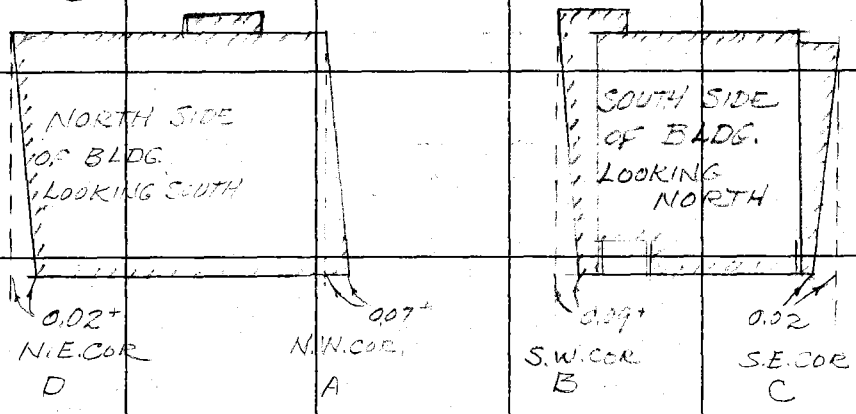
F. B. 941 Pg. 172

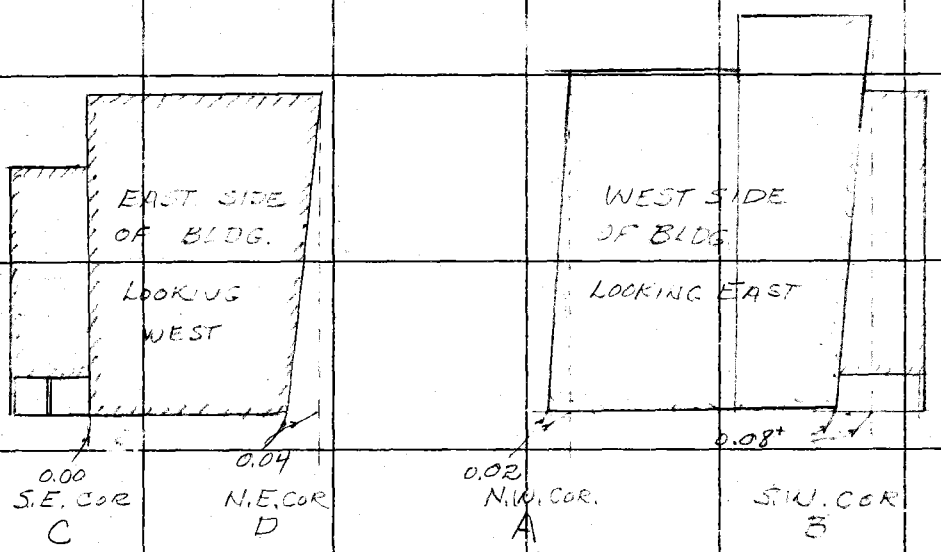
NOV. 16, 1961

VERTICAL CORNERS

DETERMINATION OF BLDG.

SEE PAGES 143 & 144





Next observation shown on FB 941-203, 204

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

Do not extend notes this side of this line.

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

76P526B CE # 308 6-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

JOB NO. 0301-02 SURVEY OF L.A. CO. PRECISE LEVEL NET — L.B. CO. BLDG. SUB. STUDIES

SURVEY BY G.E. DUNLAP C.V. — WEATHER Cool

NOTES BY G.E. Dunlap C.V. — TIME 9:00 TO 3:00 — INST. No. 3

DATE 11-16-61 — ROD NO 24 & 25

INDEXED — NOTES CHKD DATE 11/28/61

F.B. 941 Pg. 172

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT	FORESIGHT STADIA	DESCRIPTION AND REMARKS
									FROM BM LB 4-4 TO SLOPE STAKE
BM. LB A-4									
1	209	284	510 5	23 3/16 26	184	165	485 5	15 16	
2	34	032	235 5	29 10	249	550	750 5	252 245	
3	121	153	420 5	35 117 8	180	079			MICKEY MOUSE ROD
TOTAL	364	855 ✓		74	684	099 ✓			
					+ 364	855 ✓			
DIFF IN ELEV					- 219	244 ✓			
B.M. G-2									
	150	159		7	149	960	450 5	152 147	5
	- 149	962 ✓							
DIFF.	+ .00	197 ✓							
B.M. F-2									
1	146	928	447 5	152 128 7	157	546	453 5	32 155	5
					146	938 ✓			7
DIFF/ELEV.					10.618 ✓				
B.M. E-4									✓ 0.17 ABOVE FLOOR
1	156	110	457 5	121 7	156	895	457 5	151	5
	156	895 ✓							5
DIFF/ELEV.		0.015 ✓							10
B.M. D-4									
1.	159	531	400 5	133 128 8	139	250	450 5	13 125	8
	149	250 ✓							8
	.10	280 ✓							16
B.M. B-2									CONT.

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM ____ TO ____
B.M. B-2 1.	149	298	450 5	151 147 4	148	378	449 5	151 [illegible] 5 4/9	0.51 ABOVE FLOOR.
	148	378							
DIFF/	0.	920							
B.M. A-2	148	491	449 5	150 145 5	148	578	449 5	150 145 5 5/10	0.50 ABOVE FLOOR.
					148	491			
DIFF/ELEV.					0.	087			
B.M. B-3 1.	148	410	449 5	150 146 4	147	981	448 5	150 145 5 4/9	0.53 ABOVE FLOOR
	147	981							
DIFF/ELEV.		429							
B.M. B-5 1.	149	123	450 5	152 146 6	150	020	451 5	153 147 6 6/12	0.53 ABOVE FLOOR
					149	123			
DIFF/ELEV.					0.	897			
B.M. B-7	149	180	450 5	152 146 6	147	981	448 5	150 145 5 6/11	0.55 ABOVE FLOOR
	147	981							
DIFF/ELEV.	1.	149							
B.M. B-9									0.54 ABOVE FLOOR
									CONT.

F.B. 941 PG. 174

JOB NO. 0021.03

SURVEY OF L.B. Co. BLDG. SUB. STUDIES

SURVEY BY G.E.D. NOTES C.G. VALDEZ

INDEXED R. E. OTT DATE 11-16-61

(INSIDE BASEMENT) N3 75234

WEATHER ____ INST. NO. ____

TIME 9:00 TO 3:00 ROD NO. 96895

NOTES CHKD. [illegible] DATE 11/22/61

76P526B CE # 308 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM L.B.A-4 TO BASEMENT
B.M. B-9									0.54 ABOVE FLOOR
1.	147	959	449 5	150 / 144 6	148	086	449 5	150 / 145 5	
					147	959		1 / 11	
DIFF/ELEV					.00.	127			
B.M. B-11									0.53 ABOVE FLOOR
1.	148	556	449 5	151 / 146 5	148	021	449 5	[illegible]	
	148	021						5 / 10	
DIFF/ELEV	.00	535							
B.M. B-13									0.53 ABOVE FLOOR
1.	149	166	450 5	150 / 146 4	149	105	450 5	151 / 146 [illegible]	
	149	105						4 / 9	
DIFF/ELEV.	.00.	061							
B.M. B-15									0.53 ABOVE FLOOR
1.	149	198	450 5	151 / 146 5	149	150	450 5	152 / 146 6	
	149	150						5 / 11	
DIFF/ELEV.	.00.	048							
B.M. B-17									0.53 ABOVE FLOOR
1.	149	021	450 5	150 / 147 3	162	261	463 5	154 / 159 5	
2.	162	181	463 5	165 / 158 7	149	303	450 5	151 / 147 4	
TOTAL	311	202		10	311	569		9	
					311	202		10 / 19	
DIFF. ELEV					0.	367			
B.M. B-18									0.55 ABOVE FLOOR. CONT

JOB NO. ~~030202~~ 0021.03 SURVEY OF ~~L.A. CO. PRECISE LEVEL~~ NET L.B.Co. BLDG. CUR. STUDIES

SURVEY BY G.E. DREYER

NOTES BY C.G. YALDEZ DATE 11-16-61

INDEXED B.E. OD DATE

WEATHER INSIDE PRECISION

TIME 9:00 TO 3:00

NOTES CHKD [illegible] DATE 11/22/61

INST. NO. 75[illegible]

ROD NO. 96815

F.B. 941 PG. 175

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INSIDE BASEMENTS INST. NO. 75254

WEATHER ROD NO. 4L-135

TIME 9:00 TO 3:00 DATE 11-22-61

NOTES CHKD

F.B. 941 Pg. 176 JOB NO. 0021.03

SURVEY OF L.A. Co. BLDG. SUB STUDIES

SURVEY BY G.E.D. NOTES C.G. YALDEZ

INDEXED DATE

STATION	BACKSIGHT					FORESIGHT					DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT	STADIA		RIGHT	MIC.	LEFT	STADIA		FROM L.B. A-4 TO BASEMENT
B.M. B-18											CONT.
1.	149	032	450	5	5	148	826	449	5	4	
	148	826								5	
DIFF/ELEV.	0.	206								9	
B.M. B-20											0.53 ABOVE FLOOR
1.	148	753	449	5	5	148	932	449	5	5	
						148	753			5	
DIFF/ELEV.						0.	179			10	
B.M. B-23											0.53 ABOVE FLOOR
1.	148	348	449	5	5	149	371	450	5	5	
						148	248			5	
DIFF/ELEV.						1.	023			10	
B.M. B-25											10.43 ABOVE FLOOR
1.	149	845	450	5	4	150	081	451	5	6	APPEARS TO HAVE BEEN BENT DOWNWARD
						149	845			4	
DIFF/ELEV.						0.	236			10	
B.M. A-25											0.50 ABOVE FLOOR
1.	150	242	451	5	6	68	105	369	5	8	
	68	105								6	
DIFF/ELEV.	82.	137								14	
B.M. C25-1											3.17 ABOVE FLOOR
											CONT.

76P526B CE # 308 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

JOB NO. ~~0301.02~~ 0021.03 SURVEY OF ~~L.A. CO. PRECISE~~ LEVEL NET INSIDE

SURVEY BY G.E. VALDEZ DATE 11-16-61 WEATHER TIME 9:00 TO 3:00 INST. NO. 7523 ROD NO. 96 & 95

NOTES BY C.G. VALDEZ DATE 11-16-61 NOTES CHKD [illegible] DATE 11/22/61

INDEXED E. E. OTT DATE

F.B. 941 PG. 177

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM L.B. A-4 TO BASEMENT
B.M. C-25-1									CONT.
1.	6	852	307 5	9 4 5	297	119	598 5	299 295 4	
					6	852		5 4	
DIFF/ELEV.					290.	267			
B.M. C-25-3									
1.	297	024	598 5	299 295 4	296	390	597 5	299 293 6	BRASS CAP & B.M. BUTTON IN WELL
	296	390						4 10	SEE PG. 158
DIFF/ELEV.	0.	634							
B.M. C-25-2	297	501	598 5	301 292 9	89	188	390 5	98 80 18	BRASS CAP & B.M. BUTTON
	89	188						9 27	IN WELL SEE PG. 159
DIFF/ELEV.	208	313							
				(GOING BACK)					
B.M. G-26									0.50 ABOVE FLOOR.
1.	89	098	390 5	98 80 18	297	434	598 5	301 292 9	
					89	098		18 27	
					208	336			
B.M. # C-25-2									
1.	297	430	598 5	300 296 6	298	043	599 5	300 296 4	
					297	430		6 10	
					0.	613			
B.M. # C-25-3									CONT.

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT	FORESIGHT STADIA	DESCRIPTION AND REMARKS
									FROM BASEMENT TO LB CH 6A
B.M. C-25-3 1.	298	011	599 5	350 / 296 4	7	718	308 5	10 / 4 6 / 4 / 10	CONT.
	7	718							
DIFF/ELEV.	290	293							
B.M. C-25-1 1.	64	670	365 5	67 / 61 6	146	820	447 5	150 / 143 7 / 6 / 13	
					64	670			
DIFF/ELEV.					82	150			
B.M. A 25 1.	146	361	447 5	148 / 144 4	146	169	447 5	148 / 144 4 / 4 / 8	
	146	169							
DIFF/ELEV.	0	192							
B.M. B-25	145	877	446 5	148 / 143 5	144	780	445 5	146 / 142 4 / 5 / 9	
	144	780							
DIFF/ELEV.	1	097							
B.M. B-23 1.	145	379	446 5	147 / 142 5	145	202	446 5	147 / 142 5 / 5 / 10	
	145	202							
	0	177							
B.M. B. 20									CONT.

F.B. 941 PG. 178 JOB NO. [illegible]

SURVEY OF L.B. CO. BLDG. SUB. STUDIES

SURVEY BY G.E.D. NOTES C.G. VALDEZ

INDEXED H.E. OTT DATE 11-16-61

(INSIDE BASEMENT)

WEATHER

TIME 9:00 to 3:00

NOTES CHKD [illegible]

INST. NO. N3 75234

ROD NO. 96895

DATE 11/22/61

76P526B CE # 308 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

JOB NO. 60-1102 L.A. CO. BLDG. CUR. CTR. SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY G.E. DAVIS, C.E. BEEN WEATHER CLEAR

NOTES BY C.W. BEEN DATE 11-16-61 TIME 2:00 TO 3:00 INST. NO. 2

INDEXED B.E. OTT DATE NOTES CHKD. W.E.D. DATE 11/22/61 ROD NO. 96 & 95

F.B. 741 Pg. 179

STATION	BACKSIGHT					FORESIGHT					DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT	STADIA		RIGHT	MIC.	LEFT	STADIA		FROM BASEMENT TO L.B.C.H. 6A
B.M. B-20											CONT.
1.	145	215	4465	148 / 143	5	145	453	4465	147 / 143	4	
						145	215			2/9	
DIFF/ELEV.						.00	238				
B.M. B-18	145	190	4465	146 / 143	3	158	296	4595	161 / 155	6	
										3/9	
2.	159	793	4605	162 / 159	5	146	242	4475	143 / 142	1	
TO - TAL	304	983				304	636			5/9	
	304	636									
DIFF/ELEV.	.00	347									
B.M. B-17											
1.	153	054	4655	156 / 155	6	153	098	4514	155	2	
						153	054			6/12	
DIFF/ELEV.						.00	044				
B.M. B-15											
1.	145	222	4466	149 / 143	6	145	330	4466	148	4	
						145	228			6/10	
DIFF/ELEV.						.00	102				
B.M. B-13											CONT.

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT	FORESIGHT STADIA	DESCRIPTION AND REMARKS
									FROM BASEMENT TO L.B.CH 6A
B.M. - B-13									CONT.
1.	144	625	445 5	146 142 4	144	988	445 5	147 142 5	
					144	625		4/9	
DIFF/ELEV.					.00	363			
B.M. B-11									
1.	145	365	446 5	148 142 6	145	190	446 5	147 142 5	
	145	190						6/10	
DIFF/ELEV	.00	175							
B.M. B-9									
1.	144	663	445 5	147 141 6	145	837	446 5	148 142 6	
					145	663		6/12	
DIFF/ELEV					.00	174			
B.M. B-7									
1.	147	521	448 5	150 144 6	146	649	447 5	149 143 6	
	146	649						6/12	
DIFF/ELEV.	.00	872							
B.M. B-5									
1.	145	141	446 5	147 142 5	145	581	446 5	149 143 5	
					145	141		5/10	
					.00	440			
B.M. B-3									CONT.

F.B. 941 PG. 180

JOB NO. 0021.03

SURVEY OF L.B. CO. BLDG. SUB. STUDIES

SURVEY BY DREIER NOTES C. VALDEZ

INDEXED H. E. OTT DATE

WEATHER COOL INST. NO. N3 75234

TIME 9:00 TO 3:00 ROD NO. 96-[illegible]

NOTES CHKD [illegible] DATE 11/22/61

76P526B CE # 308 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM BASEMENT TO LB. CH 6A
B.M. B-3									
1.	145	526	446 5	148 / 142 6	145	442	446 5	148 / 142 6	
	145	442						6 / 12	
DIFF/ELEV	.00	084							
B.M. A-2									
1.	145	731	446 5	149 / 142 7	146	630	447 5	150 / 143 7	
					145	731		7 / 14	
DIFF/ELEV					.00	399			
B.M. B-2									
"	145	587	446 5	150 / 150 10	155	882	456 5	159 / 152 6	
					145	587		10 / 16	
DIFF/ELEV					.10	295			
B.M. D-4									
"	153	689	454 5	155 / 150 5	153	697	454 5	150 / 150 5	
					153	689		5 / 10	
DIFF/ELEV.					.00	008			
B.M. E-4									
"	155	063	456 5	158 / 152 6	144	460	445 5	147 / 147 6	
	144	460						6 / 12	
DIFF/ELEV	10	603							
B.M. F-2									[illegible]

JOB NO. 0021.03 ~~0301.02~~ SURVEY OF ~~L.A. CO. PRECISE LEVEL NET~~ L.B. CO. BLDG. SUB. STUDIES

SURVEY BY G.E. DRUM

NOTES BY G.E. D DATE 11-16-61 WEATHER [illegible] INST. NO. N3 [illegible]

INDEXED H. E. OTT DATE TIME 9:00 TO 3:00 ROD NO. 95896

NOTES CHKD [illegible] DATE 11/22/61

F.B. 941 PG. 181

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT	FORESIGHT STADIA	DESCRIPTION AND REMARKS
									FROM BASEMENT TO LBCH 6A
[illegible] F.									CONT.
	145	180	446 5	147 143 4	145	333		?	[illegible]
					145	180			
DIFF/ELEV.					00	153			
B.M. 4-2.									
1.	145	391	—	?	117	211	418 5	125 113 12	
2.	262	700	563 5	266 258 8	45	519	346 5	49 41 8	
3.	190	030	491 5	[illegible] 172 [illegible]	162	968	463 5	[illegible] 143 37	
4.	154	832	455 5	[illegible] 130 47	18[illegible]	741	487 5	[illegible] 162 48	
								125	
	752	973		?	512	439			
	512	439							
	240	534	DIFF/ELEV.						
B.M. L.B. CH-6A									B.M. L.B. CH 6A S.W. COR. BROADWAY & MAGNOLIA AVE C.SPK IN CONC. IN WELL 9 FT W. & 11 S. OF CURB LINES

F.B. 941 PG. 182 JOB NO. 0021.03

SURVEY OF L.B. CO. BLDG. SUB. STUDIES

SURVEY BY G.E. DREIER NOTES G. VALDEZ

INDEXED H. E. OTT DATE

WEATHER COOL INST. NO. N3 75234

TIME 9:00 TO 3:00 ROD NO. 96 & 95

NOTES CHKD [illegible] DATE 11/22/61

76P526B CE # 308 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT	FORESIGHT STADIA	DESCRIPTION AND REMARKS
									FROM B.M. L.B.CH.6A TO B.M. A-1 (TRAVERSE) (BACK ROAD)
B.M. L.B.CH.6A									
1.	191	501	[illegible] 5	[illegible] 48	158	739	459 5	182 135 47	
2.	169	840	470 5	183 [illegible] 38	198	115	499 5	[illegible] 135 37	
3.	49	644	350 5	63 [illegible] 8	265	421	566 5	269 261 8	
4.	131	438	422 5	125 117 8	(150	105)	[illegible]	ROD	4.905 USEING PHILADELPHIA ROD
TOTAL =	532	423		102	772	380		?	
					532	423			
DIFF. ELEV.					239	957			B.M. G-2
B.M. G-2									4.912 USEING PHILADELPHIA ROD
1.	(150	272)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	125 117 8	
2.	267	374	568 5	271 [illegible] 3	51	713	355 5	55 47 8	
3.	183	869	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] 196 26	B.M. A-1 TRAVERSE [illegible]
TOTAL	601	515		?	332	174		42	
	382	174							
DIFF/ELEV.	219	341							

JOB NO. ~~0301.02~~ 0021.03 SURVEY OF ~~L.A. CO. PRECISE LEVEL NET~~ L.B. CO. BLDG. SUB. [illegible]

SURVEY BY J. E. [illegible] DATE 11-17-61 WEATHER [illegible] INST. NO. [illegible]

NOTES BY C. G. VALDEZ DATE 11-17-61 TIME 1:30 ROD NO. 95 & 96

INDEXED [illegible] DATE NOTES CHKD [illegible] DATE 11/22/61

F.B. 941 Pg. 83

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT	FORESIGHT STADIA	DESCRIPTION AND REMARKS
B.M. G-2.									FROM G-2 TO L.B. CH. 6A RERUN
1.	149	370	—	?	118	160	419 5	123 113 10	
2.	263	732	564 5	267 259 8	41	491	357 5	[illegible]	
3.	195	[illegible]	[illegible]	13 176 37	167	380	463 5	[illegible]	
4	158	728	459 5	151 130 4	141	973	[illegible]	215 [illegible] 48	
TOTAL	767	128		?	527	204		74	
	527	204							
DIFF/ELEV.	239	924							

NOTE: SPK AT T.B.M. G-2 WAS BENT DOWN TO ACCOMMODATE STD. METRIC ROD

T.B.M. G-2 ROD AFTER 4.968

T.B.M. G-2 ROD BEFORE 4.921

0.047 LOWER ELEV.

F.B. 941 PG. 184

JOB NO. 0021.03

SURVEY OF L.B. Co. Bldg. SUB. STUDY

SURVEY BY G.E. DRAFT NOTES C. WALDEZ

INDEXED H. E. OTT DATE

WEATHER

TIME 9:30

NOTES CHKD

INST. NO. 75234

ROD NO. 96 #75

DATE

Notes Ck'd by	Survey of L.B.Co.BLD.SUB.STUDIES F. B. 241 Pg. 185
Map No.	JN 002103 Tape 170 Std. 84 °F
Office Work	Surveyed by G.E DREIER
Checked	Notes Date 2-8-63
Date	Indexed K. E. OTT FEB 1 1963

LONG BEACH Co. BLDG. SUBSIDANCE STUDIES

JOB. No. 002103

MAJOR & MINOR AXIS, MEAS. IN FEET

DREIER
MOODY
N. SMITH
C. VALDEZ
R.R.RODRIGUEZ
A. WORKMAN

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

Do not extend notes this side of this line.

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

763099 CE #247—7-58

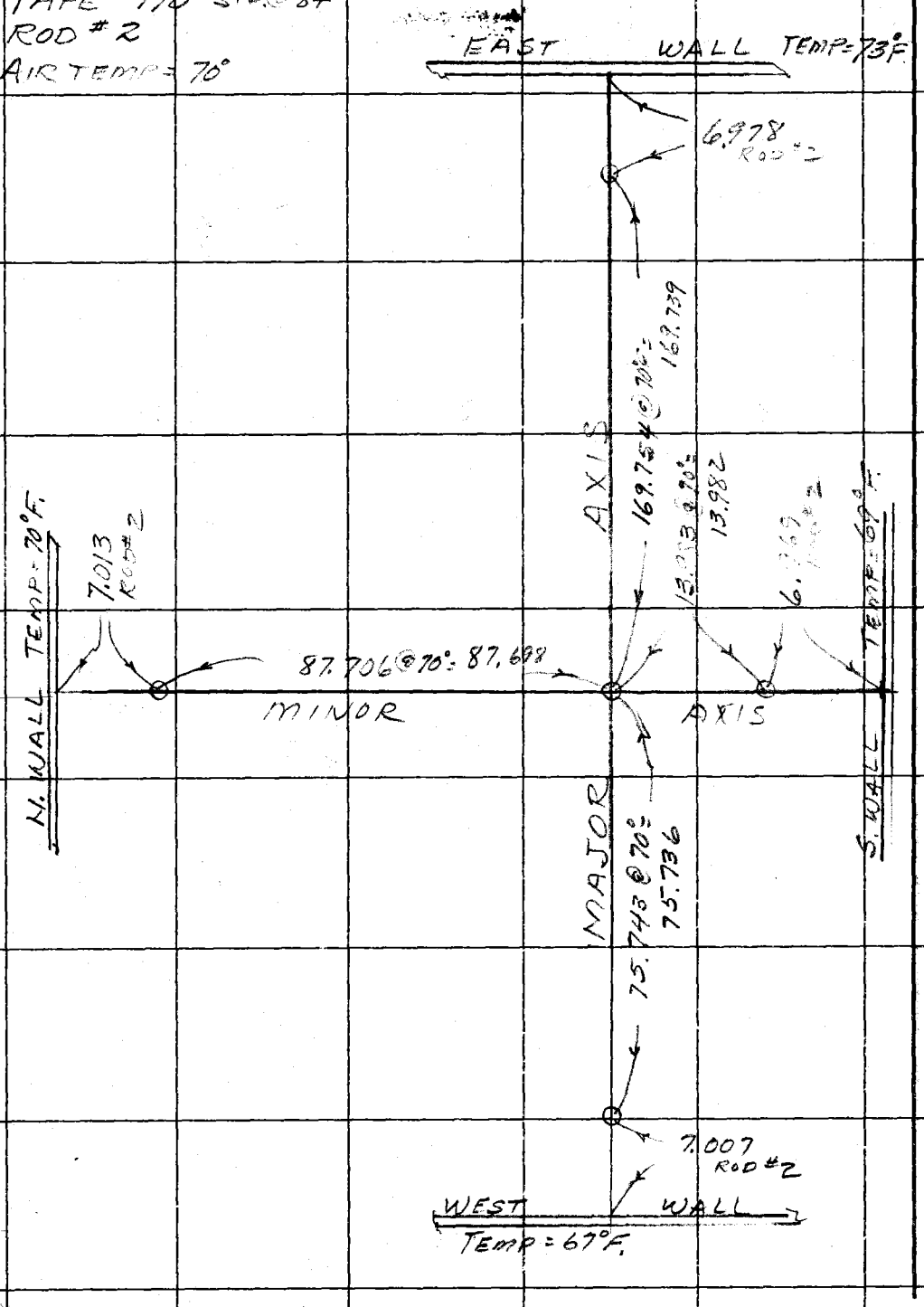
2-8-62

MAJOR & MINOR AXIS

MEASUREMENTS IN FEET

F.B. 741 PG. 86

TAPE # 170 STD. @ 84°
ROD # 2
AIR TEMP = 70°



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

Do not extend notes this side of this line.

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 L.B.Co BLDG.SUB.STUDY
Map No.	JN 0301.01 Tape Std °F
Office Work	Surveyed by G.E.DREIER
Checked	Notes G.E.D Date 4-62
Date	Indexed P. E. OTT APR 30 '62

F. B. 941 Pg. 187

L.B. COUNTY BLDG. SUBSIDENCE STUDY

APRIL 1962

JOB NO. 0301.01 OUTSIDE

JOB NO. 0301.04 INSIDE

LEVELS OUTSIDE PAGES 188 TO 194

ANGLES " IN F.B.G. 943-24 TO 40

TAPING " IN F.B.T. 169 - 24 to 31

LEVELS INSIDE PAGES 195 TO 199

ANGLES & TAPING INSIDE IN F.B.T. 164

DREIER

MOODY ↑

LEGAULT ↑

VALDEZ H.C.

SMITH, N. H.C.

RODRIGUEZ H.C.

SMITH, R.D. ↑

MEYERS ↑

LYBRAND H.C.

GLIDDEN H.C.

WORKMAN R.C.

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

Do not extend notes this side of this line.

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

76F3095 CE #247—3-57

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

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

Do not extend notes this side of this line.

SUMMATION OF LEVELS PAGE 188 TO 194 $201,202

B.M.	DIFF. IN FT.	ELEV.	BASED ON C.L.B 158, AUG. 1961, 18.739
C.L.B 158		18.739	
	+ 2.536 ✓		
TRAV. STA A-4		21.275 *	
	+ 3.148		
C.L.B. 577		24.423	
	+ 1.246		
L.B.C.H. 2		25.669	
	+ 0.025		
L.B.CH 3		25.691	
	+ 0.180 ✓		
L.B.C.H. 4		25.871	
	- 1.515 ✓		
L.B.CH. 5		24.356	
	- 2.404 ✓		
L.B.CH 6A		21.952 ‡	
	- 0.888 ✓		
L.B.C.H. 7		21.064	
	- 2.325 ✓		
C.L.B 158		18.739	
	+02		
TRAV. STA L.B. A-4		21.275 *	
	-7.180		
BLDG F-2		14.095	
	+7.860		
L.B CH-6A		21.955 ‡	

F.B. 341 PG. 188

FORM 379 5M 7-40

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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

DO NOT EXTEND NOTES THIS SIDE OF THIS LINE

Chief of Party E. E. DREIER Weather ____ Inst. No. ____
Notes by ROGER GLIDDEN Time 9:30 Rod No. ____

Name L A CO PRECISE LEVEL NET
Job No. 0301.02
From ____ To ____
Date 4-11-62
Indexed H. E. OTT.

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	5.122		171			4.882		189		BM. 158
	4.951		171			4.693		189		OCEAN & DAISY AVE.
1	4.780					4.504				
	14.853	4.951	342	342		14.079	4.693	378	378	+12.011
	7.275		214			5.004		221		-9.475
	7.061		216			4.783		223		+2.536
2	6.845					4.560				
	21.181	7.060	430	772		14.347	4.782	444	822	
	+12.011					-9.475		772 / 1597		BM LB AA
								= .10 ft		OCEAN & MAGNOLIA AVE.
	6.570		198			4.712		183		+11.759
	6.372		197			4.529		187		8.611
1	6.175					4.346				+ 3 1/4 X 8
	19.117	6.372	395	395		13.583	4.528	370	370	
	5.587		200			4.270		188		BM CLB 571
	5.387		202			4.082		184		OCEAN & CHESTNUT AVE.
2	5.185					3.898				
	16.159	5.386	402	797		12.250	4.083	372	742	
	+11.758					8.611		797 / 1539		F.B. 211 PG. 199
								0.10		

FORM 379 SM 7-40

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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

DO NOT EXTEND NOTES THIS SIDE OF THIS LINE

Chief of Party G. E. DREIER Weather ____ Inst. No. 26280
Notes by ____ Time 10:15 Rod No. ____

Name L.A. CO. PRECISE LEVEL NET
Job No. 0301.02
From ____ To ____
Date 7-11-62
Indexed M. E. OTT

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B.S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	4.654		164			3.478		175		S.C. CLB. 571
	4.490		165			3.243		172		OCEANE CHESTNUT
	4.325					3.071				+4.488 90
	13.469	4.489 90	329	329		9.732	3.244	347	347	3.244
		4.489					3.246		329	+1.244 56
									676	BM LBCH 2
									0.04	OCEANE CHESTNUT
	3.217		174			3.360		189		
	3.043		174			3.171		187		
	2.869					2.984				+ 7.955
	9.129	3.043	348	348		9.515	3.172	376	376	- 7.930
	5.019		103			4.860		101		+ 0.025
	4.911		106			4.759		107		
	4.805					4.652				
	14.735	4.912	214	562		14.276	4.759	203	579	
		7.955					7.930		562	
									1141	BM LBCH 3
									0.07	OCEANE CEDER

F.B. 941 PG. 190

FORM 379 5M 7-40

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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

DO NOT EXTEND NOTES THIS SIDE OF THIS LINE

Chief of Party G. E. DREIER Weather ..... Inst. No. .....
Notes by G. LIDDEN Time ..... Rod No. .....

Name L. A. CO. PRECISE LEVEL NET
Job No. .....
From ..... To .....
Date .....
Indexed H. E. OTT

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B.S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
1	5.701		170			5.187		190		BM LBCH 3
	5.531		171			4.997		189		OCEAN & CE[illegible]
	5.360					4.808				
	16.592	5.531	341	341		14.992	4.997	379	379	
2	5.608		192			5.022		180		+15.858
	5.416		191			4.842		181		-15.678
	5.225					4.661				+0.180
	16.249	5.416	383	724		14.525	4.842	361	740	
3	5.061		150			5.958		119		
	4.911		149			5.839		120		
	4.762					5.719				
	14.734	4.911	299	1023		17.516	5.839	239	979	
		+15.858					-15.678		1023	BM LBCH 4
									2102	CEDAR & BROADWAY
									0.13	
1	5.296		167			5.582		177		
	5.129		168			5.405		177		
	4.961					5.228				
	15.386	5.129	335	335		16.215	5.405	354	354	

F.B. 941 PG. 101

FORM 379 5M 7-40

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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

DO NOT EXTEND NOTES THIS SIDE OF THIS LINE

Chief of Party G. E. DREIER Weather Inst. No.
Notes by Time Rod No.

Name L. A. CO. PRECISE LEVEL NET
Job No. 0301.02
From To
Date 4-16-62
Indexed H. E. OTT

F.B. 941 PG. 192

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B.S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	4663	5.129	70	335		5.902	5.205	70	354	-11.237
	4.593		71			5.832		70		+9.722
2	4.522					5.260				-1.515 ✓
	13.778	4.593	141	476 ✓		17.496	5.832	140	494 ✓	
		+9.722 ✓					-1.237 ✓		476	BM LBCH 5
									970	BROADWAY & CHESTNUT
									0.06	
	6.080		200			6.260		203		
	5.880		201			6.057		203		
1	5.679					5.854				
	17.639	5.880	402	402		18.171	6.057	406	406	-16.855
	4.630		140			5.932		159		+14.451
2	4.490		141			5.773		158		-2.404 ✓
	4.349					5.615				
	13.469	4.490	281	683		17.320	5.773	317	723	
	4.158		76			5.109		84		BM LBCH 6 A
3	4.082		78			5.025		85		BROADWAY & MAGNOLIA
	4.004					4.940				
	12.244	4.081	154	837 ✓		15.074	5.025	169	892 ✓	
		+14.451 ✓					-16.855 ✓		837	
									1729 = 0.11	

FORM 379 5M 7-40

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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

DO NOT EXTEND NOTES THIS SIDE OF THIS LINE

Chief of Party G. E. DREIER Weather ..... Inst. No. 26280
Notes by GLIDDEN Time ..... Rod No. .....

Name ~~L.A. CO. PRECISE LEVEL NET~~
Job No. 0301.0
From ..... To .....
Date 4-11-62
Indexed H. E. OTT 30 62

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	5.013		99			5.027		99		BM LBCH 6A
	4.914		99			4.928		99		BROADWAY & M[illegible]
	4.815					4.829				
	14.742	4.914	198	198		14.784	4.928	198	198	
	5.214		204			6.081		198		−10.811
	5.010		207			5.883		198		+ 9.923
	4.803					5.685				− 0.888
	15.027	5.009	411	609		17.649	5.883	396	594	
		+ 9.923					−10.811		609	BM LBCH 7
									1203	BROADWAY & D[illegible] SY
									0.08	
	5.418		150			5.647		150		
	5.268		150			5.497		148		
	5.118					5.349				
	15.804	5.268	300	300		16.493	5.498	298	298	
	5.251		161			5.757		163		
	5.090		162			5.594		164		
	4.928					5.430				
	15.269	5.090	323	623		16.781	5.594	327	625	
		10.358					11.092		623 / 1248 = 0.08	

F.B. 941 PG. 193

FORM 379 5M 7-40

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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

DO NOT EXTEND NOTES THIS SIDE OF THIS LINE

Chief of Party G. E. DREIER Weather ..... Inst. No. 26280
Notes by GLIDDEN Time 12:00 Rod No. 21 & 22

Name L. A. CO. PRECISE LEVEL NET
Job No. C301.02
From ..... To .....
Date 4-11-62
Indexed H. E. OTT

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	4.891	10.358	116	6.23		5.627	11.092	114	6.25	
	4.775		116			5.513		113		-22.430
	4.659					5.400				+20.105
	14.325	4.775	232	8.55		16.540	5.513	227	8.52	-2.325 ✓
	5.036		63			5.884		69		
	4.973		66			5.825		70		
	4.907					5.765				
	14.916	4.972	129	9.84		17.474	5.825	139	9.91	
	+20.105 ✓					-22.430 ✓			9.84	BM CLB 158
									1975	DAISY & OCEAN.
									=0.12	

F.B. 941 PG. 194

76S420 S & E-353 9-55

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

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

Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TRAV. STA	21.269					TRAV. STATION, (OCEAN & MAG Vol
LB. A-4 +	6.518		6.219			L.B. A-4 ELEV. 21.269
	27.[illegible]	+.094	-.094			PER F.B. 941 Pg 169 (AUG. 196
-	6.612		6.313			
TP1	21.175					
+	1.968		1.410			
	23.143	-7.771	-7.772			
-	9.739		9.182			
TP2 *	13.404					
+	5.22[illegible]		5.[illegible]			
	18.635	+0.[illegible]	-0.687			
-	4.5[illegible]		4.39[illegible]			
F-2	14.093					F-2
TP2 *	13.404					
+	5.226		4.990			
	18.630	+0.645	+0.644			
-	4.581		4.346			
G-2	14.049					G-2
+	4.[illegible]		4.560			
	18.302	-0.302	-0.304			
-	[illegible]		4.36[illegible]			
E-4	13.747					E-4
+			[illegible]			
	18.747	+0.[illegible]	[illegible]			
-	[illegible]		[illegible]			
[illegible]	13.[illegible]8					[illegible]

NOTES RED ____ JOB NO. 0301.04 SURVEY OF L.B. Co. BLDG SUB. STORM
DATE 4-[illegible]-62 SURVEY BY [illegible]
NOTES CHKD. ____ NOTES BY [illegible] DATE 4-[illegible]
DATE ____ INDEXED H. E. OTT DATE APR 30 62

F.B. 941 Pg. 192

76S420 S & E-353 9-55

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

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

Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
D-2	13.746					
+	[illegible]		4.983			
	[illegible]	+0.3[illegible]	+0.333			
—	[illegible]		[illegible]			
B 2	[illegible]					B-2
	[illegible]		4.754			
	[illegible].326	+0.029	+0.030			
	[illegible]		4.724			
A-2	14.118					A-2
+	4.511		4.691			
	18.629	-0.001	-0.002			
—	4.512		4.693			
B-3	14.117					B-3
+	4.773		4.788	5.141		
	18.890	~~+0.014~~	+0.013	+0.013		
—	4.659		4.775	5.1[illegible]		
B-5	14.131					B-5
+	4.790		4.693			
	18.921	-0.028	-0.028			
—	4.818		4.721			
B-7	14.103					B-7
+	4.653		4.596			
π	13.756	+0.036	+0.033			
—	4.617		4.558			
B-9	4.139					
+	4.659		4.640			
π	18.798	-0.006	-0.007			
—	4.665		4.647			
B-11	14.133					

JOB NO. 0301.04 SURVEY OF L.B. Co. BLDG. SUB. STUD. NOTES RED.
SURVEY BY [illegible] DATE
NOTES BY [illegible] DATE 4-11-62 NOTES CHKD.
INDEXED H. E. OTT DATE DATE

F.B. 941 PG. 196

76S420 S & E-353 9-55

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

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

Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
B-11	14.133					
+	4.643		4.683			
⊼	18.776	+0.011 ✓	+0.011 ✓			
−	4.632		4.672			
B-13	14.144					
+	4.815		4.806			
⊼	18.959	+0.003 ✓	+0.004 ✓			
−	4.812		4.802			
B-15	14.147					
+	4.782		4.774			
⊼	18.929	+0.002	+0.002			
−	4.780		4.772			
B-17	14.149					
+	4.667		4.646			
⊼	18.816	−0.011 ✓	−0.012 ✓			
−	4.678		4.658			
B-18	14.138					
+	4.772		4.766			
⊼	18.910	+0.009 ✓	+0.008 ✓			
−	4.763		4.758			
B-20	14.147					
+	4.755		4.708			
⊼	18.902	−0.007 ✓	−0.006 ✓			
−	4.762		4.714			
B-23	14.140					
+	4.757		4.718			
⊼	18.897	−0.033 ✓	−0.033 ✓			
−	4.790		4.751			
B-25	14.107					

NOTES RED ____ JOB NO. C301.04 SURVEY OF L.A. Co [illegible] F. B. 241 PG. 147
DATE ____ SURVEY BY G.E.D. [illegible]
NOTES CHKD. ____ NOTES BY G.E.D. DATE 4-12-62
DATE ____ INDEXED H. E. OTT DATE APR 30 '62

F. B. 941 PG. 198

JOB NO. 0301.04 SURVEY OF L.B. Co. BLDG. SUB.
SURVEY BY G.E. DREIER
NOTES BY G.E.D. DATE 4-12-62
INDEXED H. E. OTT DATE

NOTES RED.
DATE
NOTES CHKD.
DATE

76S420 S & E-353-9-55

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

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

Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
B-25	14.107		4.732			
+	4.765					
⊼	18.872	-0.007	-0.008			
−	4.772		4.740			
A-25	14.100					
+	4.823		4.781			
⊼	18.923	+2.695	+2.696			
−	2.128		2.085			
C-25-1	16.745		1.650			
+	1.692					
⊼	18.487	-9.521	-9.522			
−	11.213		11.172			
C-25-3	7.274					
+	11.162		11.250			
⊼	18.436	+0.020	+0.020			
−	11.142		11.230			
C-25-2	7.294					
+	11.519		11.600			
⊼	18.813	+6.829	+6.830			
−	4.690		4.770			
G-26	14.123					
+	4.879		4.828			
⊼	19.002	-0.560	-0.560			
−	5.439		5.388			
T.P.	13.563					
+	5.315		5.405			
⊼	18.878	+0.535	+0.536			
−	4.780		4.869			
T.P. (F-2)	14.098					

CONT.

CONT.

76S420 S & E-353 9-55

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

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

Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.(F-2)	14.098					
+	4.836		4.908			
⊼	18.934	+4.527	+4.527			
−	0.309		0.381			
T.P.	18.625					
+	9.659		9.580			
⊼	28.284	+4.253	+4.255			
−	5.406		5.325			
T.P.	22.878					
+	4.981		4.936			
⊼	27.859	−0.425	−0.426			
−	5.406		5.362			
T.P	22.453					
+	5.354		5.273			
⊼	27.807	−0.487	−0.488			
−	5.841		5.761			BROADWAY & MAGNOLIA
B.M. L.B.C.-6A	21.966					

NOTES RED ____ JOB NO. 8301.04 SURVEY OF L.B.Co. BLVD. SUB. STUDY
DATE ____ SURVEY BY G.E. [illegible]
NOTES CHKD. ____ NOTES BY G.E.D. DATE 4-12-62
DATE ____ INDEXED H. E. OTT DATE [illegible]

F.B. 941 PG. [illegible]

F. B 941 PG. 200

JOB NO. 0301.04 SURVEY OF L.B. Co BLDG SUB. STUDIE NOTES RED. ______

SURVEY BY G. E. DREIER DATE ______

NOTES BY ______ DATE ______ NOTES CHKD. ______

INDEXED H. E. OTT DATE ______ DATE ______

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

Do not extend notes this side of this line

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

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

76S420 S & E-353-9-55

76P526 S & E #379 1-54

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

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

L.S. JO. BLDG. 3rd ST.

Chief of Party G. E. DREIER Weather HAZY Inst. No. 18161
Notes by G. E. D. Time 1:30 Rod No.

Name L. A. CO. PRECISE LEVEL NET
Job No. 0210.01
From OCEAN & MAS. To M.R. & Fwy
Date 4-12-62
Indexed R. E. OTT

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	6.4[illegible]		161			7.945		135		BM. TRV. STA. L.B. 1
	6.258		159			7,810		135		OCEAN & MAGNOLIA
	6.09[illegible]		330 ✓			7.675		270 ✓		
1	18776	6.259 ✓		.320		23730	7.913 ✓		.270	
	1.874		045			5.168		043		
	1.829		044			5.125		043		
	1.785		089 ✓			5.082		086 ✓		
2	5488	1.829		.409		15375	5.125		.356	
	5.515		030			4.847		029		+ 15.572
	5.485		032			4.818		028		- 20.752
	5.445		062 ✓			4.790		057 ✓		- 7.180 ✓
3	16445	5.482		.469 ✓		14455	4.818		.413	
		13573 ✓					20.753 ✓		469	B.M. F-2
									882	LEFT
	4837		028			2167		064		
	4.809		028			2.103		062		
4	4781		056			2041		126		
	14427	4.809 ✓		.525		6311	2.104		.539	

F.B. [illegible] P.G. [illegible]

76P526 S & E #379 1-54

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

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

L.B. Co. BLDG. SUB. STUDIES

Chief of Party G. E. DREIER Weather HAZY Inst. No. NI 18161
Notes by G.E.D Time 1:30 Rod No. #2

Name ~~L. A. CO. PRECISE LEVEL NE~~
Job No. 030101
From To
Date 4-12-62
Indexed H. E. OTT APR 30 '62

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	11.669	4.8[illegible]	103	.525		4.653	2.[illegible]04	102	.539	
	11.566		104			4.551		100		
	11.462		207			4.451		202		
5	34.697	11.566		.732		13.655	4.[illegible]		.741	
	4.681		210			6.480		204		
	4.471		211			6.276		206		
	4.260		421			6.070		410		
6	13.412	4.471		1.153		18.826	6.[illegible]75		1.151	
	5.765		144			5.796		119		+ 26.4[illegible] ✓ 14.[illegible]
	5.621		142			5.677		119		- 18.60[illegible] ✓ [illegible]
	5.479		286			5.558		238		+ 7.3[illegible] ✓ 21.95[illegible]
7	16.865	5.622		1.439		17.031	5.[illegible]77 ✓		1.389	
		26.468 ✓					18.[illegible]08 ✓			B.M. LBCH 6A MAGNOLIA & BROADWAY SW. COR.
8										

F.B. 941 P.G. 202

Notes Ck'd by	Survey of L.B.Co. BLDG. SUBSIDENCE
Map No.	JN 0301.01 Tape Std °F
Office Work	Surveyed by [illegible]
Checked	Notes C.E.D Date 4-12-62
Date	Indexed R. J. GALLI 4-20-62

F. B. 94X PG. 203

L. B. Co. BLDG. SUBSIDENCE STUDY

JOB NO. 0301.01

VERTICAL DETERMINATION OF BLDG. CORNERS

APRIL 12, 1962

DREIER
VALDEZ
RODRIGUEZ, R.R.

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

Do not extend this side of this line.

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

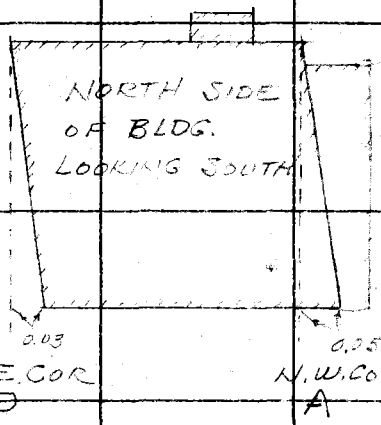
76F3095 CE # 310 3-61

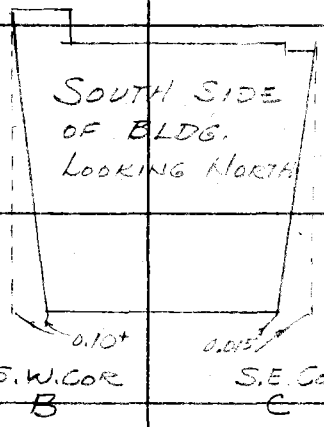
F. B. 941 Pg. 204

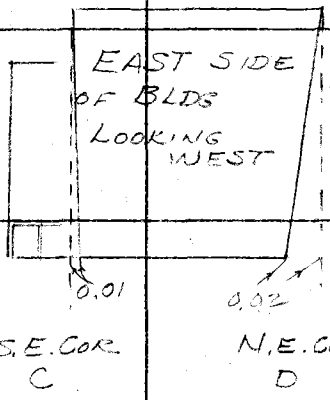
VERTICAL DETERMINATION OF CORNERS OF L.B. Co. BLDG.

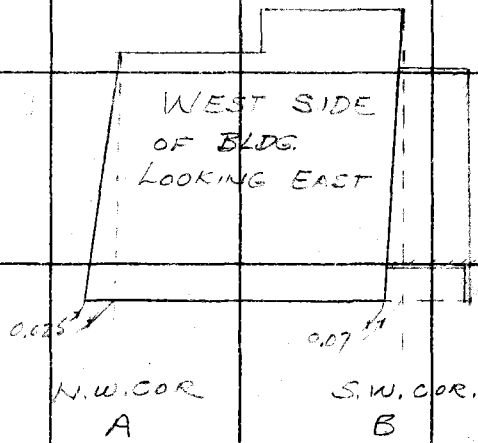
Apr. 12, '62

FOR CONTROL POINTS SEE PAGE 143









LOS ANGELES COUNTY ENGINEER
403 Los Angeles County Engineering Bldg.

PLEASE RETURN TO

Do not extend this side of this line.

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

SUBSIDENCE

Notes Ck'd by	Survey of L.B. Co. COURTHOUSE
Map No.	JN ____ Tape ____ Std ____ °F
Office Work	Surveyed by A.C. GUIZADO
Checked	Notes HCG Date 10/5/62
Date	Indexed R. J. GALL NOV 20 62

F. B. 741 PG. 205

LONG BEACH COUNTY COURTHOUSE SUBSIDENCE STUDY

JOB NO 0301.01 (OUTSIDE)

JOB NO. 0301.04 (INSIDE)

LEVELS (OUTSIDE)	pgs 207-218
" (INSIDE)	pgs 220-227
ANGLES (OUTSIDE)	FBG 971 pg 3 to 22
TAPING "	FB-G 943 pg 41 to 46
	FB-T 170 pg 1 to 16
ANGLES & TAPING (INSIDE)	" " 27 to 34
	FBT 164 pg 52 to 60
VERTICAL DETERMINATION OF BLDG. CORNERS	pg 219

GUIZADO	AC
SMITH	RD
GLIDDEN	RD
LYBRAND	J
GUIZADO	G.O.

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

Do not extend this side of this line.

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

76F309S CE # 310 3-61

F.B. 341 Pg. 206

SUMMATION OF LEVELS at LONG BEACH COURTHOUSE

DATUM AUG 1961 — LONG BEACH HARBOR DEPT.

(BM CLB 571 MSL=24.405) BM # CLB 158 MLLW ELEV = 21.539
CORR. − 2.800
MSL = 18.739

BM	DIFF. IN ELEV.	MEAN DIFF.	UNADJ. ELEV	ADJ. ELEV
CLB 158			18 7390	18 739
TO	+ 2.5336			
LB A-2	− 2.5423	+2.5380		
TO	+3.1597		21 2770	
CLB 571	− 3.1551	+3.1574		
TO	+ 1.2437		24 4344	
LBCH 2	− 1.2443	+1.2440		
TO	+ 0.0250		25 6784	
LBCH 3	− 0.0256	+0.0253		
TO	+ 0.1813		25 7037	
LBCH 4	− 0.1846	+0.1830		
TO	− 1.5230		25 8867	
LBCH 5	+ 1.5206	−1.5218		
TO	− 2.4170		24 3649	
LBCH 6A	+ 2.4170	−2.4170		
TO	− 0.8910		21 9479	
LBCH 7	+ 0.8890	−0.8900		
TO	− 2.3272		21 0579	
CLB 158	+ 2.3187	−2.3230		
			18 7349	

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

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

Do not extend this side of this line.

76P526-CE 379—10-57

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

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party A.C. GUIZADO Weather CLEAR Inst. No. 18161
Notes by R. G. Time 1:25 Rod No. 7 & 8

Name LONG BEACH COURTHOUSE SUBSIDENCE
Job No. 0301.01
From BM CLB 158 To FORWARD RUN
Date 10-30-62
Indexed E. J. GALLI

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	6354		246			4480		242		BM 158
	6108		245			4238		240		OCEAN & DAILY AVE
	5863					3 ~~4~~998				
1	18325	6.1083	491	491		13716	4.2387	482		+ 12.4010
	6432		137			5791		162		− 9.8674
	6293		140			5629		163		− 2.5336
	6153					5466				
2	18878	6.2927	279	770		16886	5.6287	325	807	
	+ 12.4010					− 9.8674			770 / 1.577 = 0.10 MI	BM LB A-4
										OCEAN & MAGNOLIA AVE
										+ 12.1150
	6597		155			4913		157		− 8.9553
	6442		154			4756		156		+ 3.1597
	6288					4600				
1	19327	6.4423	309	309		1426	4.7563	313	313	
	5890		217			4449		250		BM CLB 571
	5673		218			4199		250		OCEAN & CHESTNUT AVE.
	5454					3949				
2	17018	5.6727	435	744		12597	4.1990	500	813	
	+ 12.1150					8.9553			744 / 1.557 = 0.10 MI	

F.B. 241 P.G. 207

76P526-CE 379—10-57

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

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party [illegible] Weather [illegible] Inst. No. 18161
Notes by [illegible] Time ..... Rod No. 758

Name LONG BEACH COURTHOUSE SUBSIDENCE
Job No. 0301.01
From BM CLB 158 To FORWARD RUN
Date 10-30-62
Indexed E. J. GALLI

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
1	4790 4613 4438 13841	4.6137	177 175 [illegible]	352		3552 3370 3188 10110	3.3700	182 182 [illegible]	364	BM CLB 571 OCEAN & CHESTNUT
		+4.6137					3.3700		352 .716 0.05 MI	+4.6137 −3.3700 +1.2437
1	5453 5225 4997 15675	5.2250	228 228 456			5442 5200 4958 15600	5.2000	242 242 484	484	BM LBCH 2 OCEAN & CHESTNUT
		5.2250					5.2000		484 456 .940 0.06 MI	+5.2250 −5.2000 +0.0250
										BM LBCH 3 OCEAN & CEDER

F.B. 941 P.G. 208

76P526-CE 379—10-57

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

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party A.C. GUIZADO Weather CLEAR Inst. No. 18 61
Notes by R. G. Time Rod No. 7 E 8

Name LONG BEACH COUNTHOUSE SUBSIDENCE
Job No. 030 21
From BM CLB 158 To FORWARD RUN
Date 10-30-62
Indexed C. J. GAULT

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	5672		168			4946		166		BM LB CH 3
	5504		168			4780		164		OCEAN & CEDAR
	5336					4616				
1	16512	15040	336	336		14342	14807	330		
	5470		165			4975		67		
	5305		165			4808		[illegible]		+ 15.8220
	5140					[illegible]				15.6407
2	15915	53050	330	666		14424	18080	334	664	+ 0.1813
	5183		170			6220		168		
	5013		170			6052		168		
	4843					5884				
3	15039	50130	340	1006		18156	60520	336	1000	
	+ 15.8220						15.6407		1006	BM LB CH 4
									2.006 =	CEDAR & BROADWAY
									0.13 MI	
	5408		163			5902		171		
	5245		161			5791		171		
1	5084					5620				
	15737	52457	324	324		16373	57910	342	342	

F.B. 941 P.G. 209

76P526-CE 379—10-57

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

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party A.C. GUIZADO Weather CLEAR Inst. No. 18161
Notes by K.G. Time Rod No. 768

Name LONG BEACH SUBSIDENCE COURTHOUSE
Job No. 0302.01
From BM CLB 158 To FORWARD RUN
Date 10-30-62
Indexed C. J. GALLI

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
2	5013	32457	70	324		6007	5.7910	86	342	−11.7117
	4943		70			5921		87		+10.1881
	4873					5834				−1.5230 ✓
	14829	49430	140	464		17762	5.9207	173	515	
	+10.1887 ✓					−11.7117 ✓			464 .979 = 0.06 MI	BM LB CH 5 BROADWAY & CHESTNUT
1	6091		165			5750		160		
	5926		165			5590		160		−17.0810
	5761					5430				+14.6640
	17778	5.9260	330	330		16770	5.5900	320	320	−2.4170 ✓
2	4542		166			5966		168		
	4376		166			5798		170		
	4210					5628				
	13128	4.3760	332	662		17392	5.7973	338	658	
3	4468		106			5192		99		BM LB CH 6A BROADWAY & MAGNOLIA
	4362		106			5613		97		
	4256					5596				
	13086	4.3620	212	874		16081	5.6937	196	854	
	14.6640 ✓					17.0810 ✓			874 1.728 = 0.11 MI	

F.B. 941 P.G. 210

76P526-CE 379—10-57

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

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party A. C. GUIZADO Weather CLEAR Inst. No. 18161
Notes by R. G. Time Rod No. 7E3

Name LONG BEACH COUNTY COURTHOUSE
Job No. 0301.01
From BM CLB 158 To FOR. [illegible] RUN
Date 10-30-62
Indexed R. J. GALLI

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	5563		171			5564		172		BM LBCH 6A
	5392		169			5392		170		BROADWAY & [illegible]
1	5223					5222				
	16178	5,3927	340	340		16188	5,3927	342	342	− 11.1287
	4978		133			5864		128		+ 10.2377
	4845		133			5736		128		− 0.8910
	4712					5608				
2	2535	4,8400	266	606		17208	5,7360	256	598	
	+ 10.2377					− 11.1287			606	BM LBCH 7
									1204	BROADWAY & [illegible]
									0.08 MI	
	5437		162			5701		162		
	5275		160			5539		164		
1	5115					5375				
	15827	5,2757	322	322		16615	5,5393	326	326	
	5240		169			5828		170		
	5071		167			5658		170		
2	[illegible]					5488				
	15215	5,0717	336	658		16974	5,6580	340	666	
	10.3474					11.1963				

F.B. 941 P.G. 211

76P526-CE 379—10-57

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

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party H. C. GUIZADO Weather [illegible] Inst. No. [illegible]
Notes by R. G. Time [illegible] Rod No. [illegible]

Name LONG BEACH SUBSIDENCE COUNTY COURTHOUSE
Job No. 2301.01
From BM CLB 158 To FORWARD Run
Date 10-30-62
Indexed C. J. GALLI

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	4888	10.34[illegible] 3	184	655		6332	11.965	150	660	
	4704		182			6182		150		
3	4522					6032				−17.37[illegible] 8
	14114	4704	366	1024		3[illegible]	2	300	966	−15.052 0
		+15.052 0					−17.[illegible] 8		1024	−2.327 2 63
									1.990	
									0.13 MI	
										BM CLB 158 [illegible]

F.B. 941 P.G. 212

76P526-CE 379—10-57

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

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party A.C. CRUZ 400 Weather CLEAR Inst. No. 181,61
Notes by R.G. Time 9:00 Rod No. 7E8

Name LONG BEACH Co. SURVEY
Job No. 0301.01
From BM CLB 158 To Back wash Line
Date 10-31-62
Indexed C. J. GALLI

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	6561		164		#7	5116		41		B.M. 158
	6407		162			4971		145		OCEAN & DAISY AVE
1	6245					4826				
	18223	6073	301	301	F86	14932	4977	290	290	T R D. SMITH
	5444		31			4979				
	5428		16			5183		1		+ 17.900
	5412					5384				18.693
2	10984	3661	333	634		10309	5155	332	623	+ 2.315 ✓
	5421		64			5617		1		
	5357		128			5483		134		
3	10778	3593	192	826		11100	5550	135	269	
		3060 ✓					5473 ✓		968	
									1.997=	
									0.13mi	
	5222		159			5000		155		
	6062		158			5158		158		
1	4904					4742				
	19188	6396 ✓	317	317		15320	5107 ✓	313	313	

F.B. 12 P.G. 213

76P526-CE 379—10-57

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

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party [illegible] Weather [illegible] Inst. No. 18161
Notes by [illegible] Time ..... Rod No. [illegible]

Name L.B. Co. of Hr. Sub
Job No. 0301.01
From BMCLB158 To Backward Run
Date 10-31-62
Indexed E. J. GAIN

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
2	[illegible]	6.0633	[illegible]	[illegible]	#7	[illegible]	[illegible]	[illegible]	320	+11.7070
	[illegible]		[illegible]			[illegible]		139		[illegible]
	[illegible]				T=86	[illegible]				0.8900
	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]	599	
	+11.7070								603	BM LBCo. [illegible]
									1202=	[illegible]
									0.08 mi	
1	[illegible]					[illegible]		[illegible]		
	[illegible]					[illegible]		[illegible]		+17.7750
	[illegible]					[illegible]				−15.3580
	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]	[illegible]	+2.4170
2	[illegible]		[illegible]			[illegible]		[illegible]		
	[illegible]		[illegible]			[illegible]		[illegible]		
	[illegible]					[illegible]				
	[illegible]	6300	[illegible]	[illegible]		13980	[illegible]	329	[illegible]	
3	[illegible]		107			5793		103		[illegible]
	[illegible]		[illegible]			[illegible]		[illegible]		BROADWAY & CHESTNUT
	[illegible]					[illegible]				
	[illegible]	[illegible]	[illegible]	359		[illegible]	6960	[illegible]	873	
	+17.7750					15.3580			859	
									1.732=	
									0.11 mi	

F.B. 941 P.G. 214

76P526-CE 379—10-57

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

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party G. J. Gallardo Weather CLEAR Inst. No. 1B1641
Notes by R.G. Time Rod No. 7F3

Name L.B. Co. Cl. Lic 542
Job No. 0201.01
From BM LB 158 To BM ARC RUN
Date 10-31-64
Indexed G. J. GALL

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	6597		164		#7	4547		166		BM ~20' S
	4433		160			4381		164		& 1' Down
	6273					4547				
1	13932 6	43	324	324	TE86	14045 4	6317	330	330	
	5598		81			5928		80		+11.915
	5517		82			5743		79		10,430 3
	11115					5670				+ 1330 7
2	16550 5516	163	497			17246 5743	1503	489		
	+11.915					-10433		487		BM LB CH 2
						3		975		BCR ARC RUN
								006M		
	6389		158	8		5373		163		
	6231		155			5210		162		
	6075		310	13		5048				
1	13693 6	229	313		309	15631 5210	1035	325		
	5147		160			4987		165		
	4987		163			4822		165		
2	10134					9805				
	4796 4	2	03	20	328	14771 5	5	330	655	

11.216
80

10,780

F.B. 441 P.G. 215

76P526-CE 379—10-57

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

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party A.C. GUIZADO Weather CLEAR Inst. No. ZEISS 18161
Notes by A.D.G. Time Rod No. 758

Name L.B.C. Ct. Use Sub.
Job No. 0301.01
From BM CLB 158 To BACKWARD RUN
Date 10-31-62
Indexed B. J. GALLI

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
3	5400 5223 [illegible] [illegible]	11280 [illegible]	177 178 [illegible]	628 [illegible]	#7 T=86	[illegible] [illegible] 5660 17530	10.7803 [illegible]	182 184 [illegible]	655 [illegible]	−16.6236 +16.4407 −0.1[illegible] 29
		−16.4407					−16.6236		983 2004= 0.13mi	BM LBCH 3 OCEAN & CEDAR
1	5507 5347 [illegible] 16044	[illegible]	[illegible]	[illegible]		[illegible] [illegible] [illegible] [illegible]	[illegible]	153 [illegible]	[illegible]	
2	5092 5016 [illegible] 16060	5.0167	76 72 [illegible]	[illegible]		5274 [illegible] [illegible] [illegible]	[illegible]	7[illegible] 7[illegible] [illegible]	[illegible]	−10.3903 +10.3647 −0.0256
		−10.3647					−10.3993		471 .937= 0.06mi	BM LBCH 2 OCEAN & [illegible]

F.B. 941 P.G. 216

76P526-CE 379—10-57

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

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party [illegible] Weather [illegible] Inst. No. [illegible]
Notes by R.G. Time Rod No. 7 & 8

Name LB Co. Ct. Hse-23
Job No. 0301.0
From BMCLB 158 To Bac. [illegible] Run
Date 10-31-62
Indexed C. J. GALLI

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
1	4847 4776 4704 14327	4.7757	71 72 [illegible]	143	#7 T=86	6052 [illegible] [illegible] [illegible]	6.0[illegible]	72 72 [illegible]	143 287= 0.02 MI	BM LBCH 2 OCEAN & [illegible] — 6.0[illegible] — [illegible] — 1.2[illegible]
1	[illegible] 4[illegible] [illegible] 13688	4.5[illegible]	157 158 [illegible]	315		[illegible] 5733 [illegible] [illegible]	5.7[illegible]	157 157 [illegible]	[illegible]	[illegible] [illegible] [illegible] 0
2	[illegible] 5043 [illegible] [illegible]	[illegible]	[illegible] [illegible] [illegible]	[illegible]		5[illegible] [illegible] [illegible] 17252	5.7[illegible]	[illegible] [illegible] [illegible]	[illegible]	[illegible] — 3.15[illegible] 40
3	[illegible] [illegible] [illegible] [illegible]	[illegible]	72 7[illegible] [illegible]	772		[illegible] [illegible] [illegible] [illegible]	[illegible]	[illegible] [illegible] [illegible]	784	BM LBCH 4 [illegible]

— 14.5[illegible]
90

— 17.7[illegible] X 0

772
1556 =
0.10 MI

F.B. 341 P.G. 217

76P526-CE 379—10-57

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

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

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party [illegible] Weather [illegible] Inst. No. 18161
Notes by [illegible] Time 10:[illegible] Rod No. 7[illegible]

Name LB Co. Cl Hse Sub.
Job No. 0301.01
From [illegible] To [illegible]
Date 10-31-62
Indexed [illegible] J. GALLI

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	[illegible]		[illegible]		[illegible]	[illegible]		[illegible]		[illegible]
	[illegible]		[illegible]			[illegible]		[illegible]		
	[illegible]					[illegible]				
1	[illegible]	[illegible]	27[illegible]	[illegible]	T=86	[illegible]	[illegible]	[illegible]		
	[illegible]		237			6306		254		[illegible]
	4[illegible]08		238			[illegible]		25[illegible]		[illegible]
	337[illegible]					[illegible]				− 25423
2	12323	4[illegible]077	475	754		18158	[illegible]	[illegible]	766	
	[illegible]					[illegible]			754	BM [illegible]
									1520	[illegible]
									[illegible]	

F.B. 941 P.G. 218

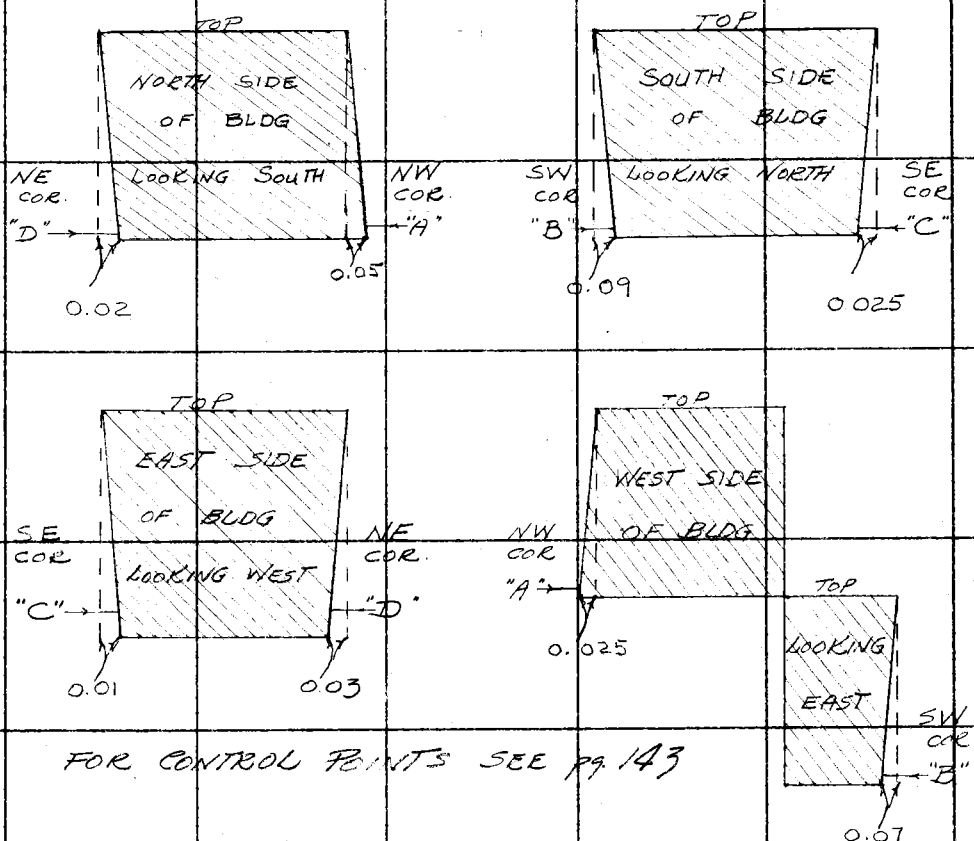
Courthouse Sidewalk

Notes Ck'd by	Survey of Long Beach County
Map No.	JN 0301.01 Tape ___ Std ___ °F
Office Work	Surveyed by A.C. Guicado
Checked	Notes ACG Date 10/31/62
Date	Indexed C. J. Gall

F. B. 941 PG. 219

OCT. 31, '62

VERTICAL DETERMINATION OF CORNERS



FOR CONTROL POINTS SEE pg. 143

PREVIOUSLY OBSERVED ON APRIL 12, 1962
SEE FB 941-204
PREVIOUSLY OBSERVED ON NOVEMBER 16 1961
SEE FB 941-172
PREVIOUSLY OBSERVED ON MAY 22, 1961
SEE FB 941-144

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

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.
Do not extend this side of this line.

76F309S CE # 310 3-61

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

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

Do not extend this side of this line.

SUMMATION OF LEVELS LONG BEACH COURTHOUSE BASEMENT

BM	DIFF/ELEV.	MEAN	UNADJ ELEV	CORR	ADJ ELEV
LB A-4			21 2690		21 269 per pg 169
	-7.182				
TO		-7.1810			
F-2	-7.180		14 0880		
	-0.054				
TO		-0.0540			
G-2	-0.054		14 0340		
	-0.291				
TO		-0.2915			
E-4	-0.292		13 7425		
	0.000				
TO		0.0000			
D-4	0.000		13 7425		
	+0.336				
TO		+0.3355			
B-2	+0.335		14 0780		
	+0.030				
TO		+0.0295			
A-2	+0.029		14 1075		
	-0.001				
TO		-0.0015			
B-3	-0.002		14 1060		
	+0.015				
TO		+0.0145			
B-5	+0.014		14 1205		
	-0.028				
TO		-0.0285			
B-7	-0.029		14 0920		
	+0.038				
TO		+0.0380			
B-9	+0.038		14 1300		
	-0.005				
TO		-0.0045			
B-11	-0.004		14 1255		

F. B. 941 PG. 220

76F309S CE # 310 3-61

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

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

Do not extend this side of this line.

BM	DIFF/ELEV	MEAN	UNADJ	ELEV	CORR	ADJ ELEV
B-11			14	1255		
TO	+0.012	+0.0130				
B-13	+0.014		14	1385		
TO	+0.002	+0.0020				
B-15	+0.002		14	1405		
TO	+0.002	+0.0020				
B-17	+0.002		14	1425		
TO	-0.010	-0.0110				
B-18	-0.012		14	1315		
TO	+0.008	+0.0085				
B-20	+0.009		14	1400		
TO	-0.007	-0.0075				
B-23	-0.008		14	1325		
TO	-0.032	-0.0330				
B-25	-0.034		14	0995		
TO	-0.016	-0.0090				
A-25	-0.008		14	0905		
TO	+2.694	+2.6940				
C-25-1	+2.694		16	7845		
TO	-9.522	-9.5215				
C-25-3	-9.521		7	2630		
TO	+0.024	+0.0230				
C-25-2	+0.022		7	2860		
TO	+6.831	+6.8300				
G-26	+6.829		14	1160		

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

Survey of LONG BEACH CO
JN 070104 Tape Std °F
Surveyed by A.C. [illegible]
Notes A.C.G. Date 11-1-62
Indexed E. J. GALLI

Continuous Subsurface

F. B. 941 PG. 221

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

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

Do not extend this side of this line.

F. B. 941 PG. 222

76S420 S & E-353 4-54

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
L.B. A4	21 269					TRAV. STA. L.B. A4
+	6 182		6.241			ADJUSTED ELEV. 21.269 PBM
	27451	+1.854	+1.954			F.B. 941 - 169
−	4 329		4.387			
T.P.	23.123					
+	1.305		1.245			
	24.428	-9.745	-9.743			
−	11.050		-10.99[illegible]			
T.P.	13.378					
+	5.202		5 202			
	18.580	+0.159	+0.709			
−	4.513		4.413			
F-2	14.067					BT SW FLOOR TO TOP 0.5
+	4.516		4 513			
	18.603	-0.054	-0.054			
−	4 570		4.567			
G-2	14.033					
+	4.541		4.590			
	18574	-0.291	-0.292			
−	4.865		4.857			
E-4	13.742					" " " " " 0.1
+	4.897		4 943			
	18639	0.000	0.090			
−	4 997		4 848			
D-4	13742					" " " " " 0.17
+	4 882		4 935			
	18624	+0.336	0.235			
−	4 546		4.599			
B.2	14 078					" " " " " 0.57

NOTES RED. JOB NO. 2111 SURVEY OF L.B. 2007 HOUSE
DATE 10-21-62 SURVEY BY A.S. GUZZO
NOTES CHKD. NOTES BY T.D.S. DATE 10-22-62
DATE INDEXED G.J. GALLI DATE

F.B. 941 PG. 223

76S420 S & E-353 4-54

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
B-2	14.078					
+	4.575	✓	4.597			
	18.653	+0.030	+0.029 ✓			
−	4.545		4.568			
A-2	14.108					BT SPL FLOOR TO TOP 0.50
+	4.643		4.673			
	18.751	-0.001	-0.002 ✓			
−	4.644	✓	4.675			
B-3	14.107					" " " " " 0.52
+	4.667		4.706			
	18.774	+0.015	+0.014 ✓			
−	4.652	✓	4.692			
B-5	14.122					" " " " " 0.52
+	4.727		4.767			
	18.849	-0.029	-0.029 ✓			
−	4.755	✓	4.796			
B-7	14.094					" " " " " 0.54
+	4.816		4.774			
	18.910	+0.038	+0.038 ✓			
−	4.778	✓	4.736			
B-9	14.132					" " " " " 0.53
+	4.732		4.668			
	18.864	-0.005	-0.004 ✓			
−	4.737		4.672			
B-11	14.127					" " " " " 0.53
+	4.668	✓	4.742			
	18.795	+0.012	0.014 ✓			
−	4.656		4.728			
B-13	14.139					" " " " " 0.53

JOB NO. 0301.04 SURVEY OF L.B. COURT HOUSE INSIDE NOTES RED.
SURVEY BY A.C. GUIZADO DATE
NOTES BY R.D.S. DATE 10-31-62 NOTES CHKD.
INDEXED C.J. CALLI DATE DATE

F.B. 941 PG. 224

76S420 S & E-353 4-54

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

NOTES RED. JOB NO. 20004 SURVEY OF L.B. APTS. TWIN HOUSE
DATE SURVEY BY. A.S. COMPUTED
NOTES CHKD. NOTES BY. DATE 10-24-62
DATE INDEXED C.J. GALL DATE

F.B. 21 PG. 225

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
B-13	14.139					
+	4.745		4.784			
	18.884	+0.002	+0.002	✓		
−	4.743		4.782			
B-15	14.141					BT SDL FLOOR TO TOP 02
+	4.784		4.744			
	18.925	+0.002	+0.002	✓		
−	4.782		4.742			
B-17	14.143					
+	4.726		4.756			" " " " " 05
	18.869	+1.272	+1.272	✓		
−	3.454		3.482			
T.P.	15.415					
+	3.451		3.419			
	18.866	-1.282	-1.294	✓		
−	4.733		4.703			
B-18	14.133					" " " " "
+	4.752		4.692			
	18.885	+0.008	+0.009	✓		
−	4.744		4.671			
B-20	14.141					
+	4.639		4.678			
	18.780	-0.007	-0.008	✓		
−	4.644		4.686			
B-23	14.134					" " " " " 0.2
+	4.746		4.771			
	18.890	-0.032	-0.034	✓		
−	4.778		4.805			
B-25	14.102					" " " " " 0.17

76S420 S & E-353 4-54

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 2201.02 SURVEY OF L.B. COURT HOUSE NOTES RED.
SURVEY BY A. C. QUIZARO DATE
NOTES BY RDS DATE 10-31-62 NOTES CHKD.
INDEXED C. J. GALLI DATE DATE
F. B. 311 PG. 226

INSIDE

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
B-25	14.102					
+	4.797		4.842			
	18.899	-0.010	-0.008			
-	4.807		4.850			BT, SPK. FLOOR TO TOP 0.49
A-25	14.092					
+	4.817		4.851			
	18.909	+2.694	+2.694			
-	2.123		2.157			
C-25-1	16.786					" " " " " 3.17
+	2.120		2.172			
	18.906	-9.522	-9.521			
-	11.642		11.693			
C-25-3	7.264					IN H.H.
+	11.647		11.684			
	18.911	+0.024	+0.022			
-	11.623		11.662			
C-25-2	7.288					IN H.H.
+	11.629		11.603			
	18.917	+6.831	6.829			
-	4.798		4.774			
G-26	14.119					BT. SPK. FLOOR TO TOP.
+	4.760		4.795	4.825		
	18.879	-0.028	-0.034	-0.027		
-	4.788		4.829	4.852		
F-2	14.091					
+	4.787		4.942			
	18.878	-0.710	0.710			
-	5.497		5.552			
T.P.	13.381					

76S420 S & E-353 4-54

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.	13.381					
+	9.8[illegible]		10.264			
	23.271	+9.744	+9.745			
−	0.146		0.519			
T.P.	23.125					
+	5.170		5.210			
	28.295	−0.465	−0.463			
−	5.635		5.673			
T.P.	22.660					
+	5.508		5.534			
	28.168	−0.723	−0.725			
−	6.231		6.259			
LBCH 6A	21.937					BM LBCH 6A ELEV=21.942 per pg 169 MAGNOLIA AVE & BROADWAY SW cor c.spk in conc in well 9'W & 11' CURB LINE

NOTES RED. ____ JOB NO. [illegible] SURVEY OF L.B. COURT HOUSE
DATE ____ SURVEY BY A.C. GUZZINO
NOTES CHKD. ____ NOTES BY R.D.S. DATE 10-21-62
DATE ____ INDEXED K. J. GALLI DATE ____

F. B. 921 PG. 227

F. B. 941 Pg. 228

JOB NO. ______ SURVEY OF ______ NOTES RED. ______
SURVEY BY ______ DATE ______
NOTES BY ______ DATE ______ NOTES CHKD. ______
INDEXED R. J. GALLI DATE ______ DATE ______

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

Do not extend notes this side of this line

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

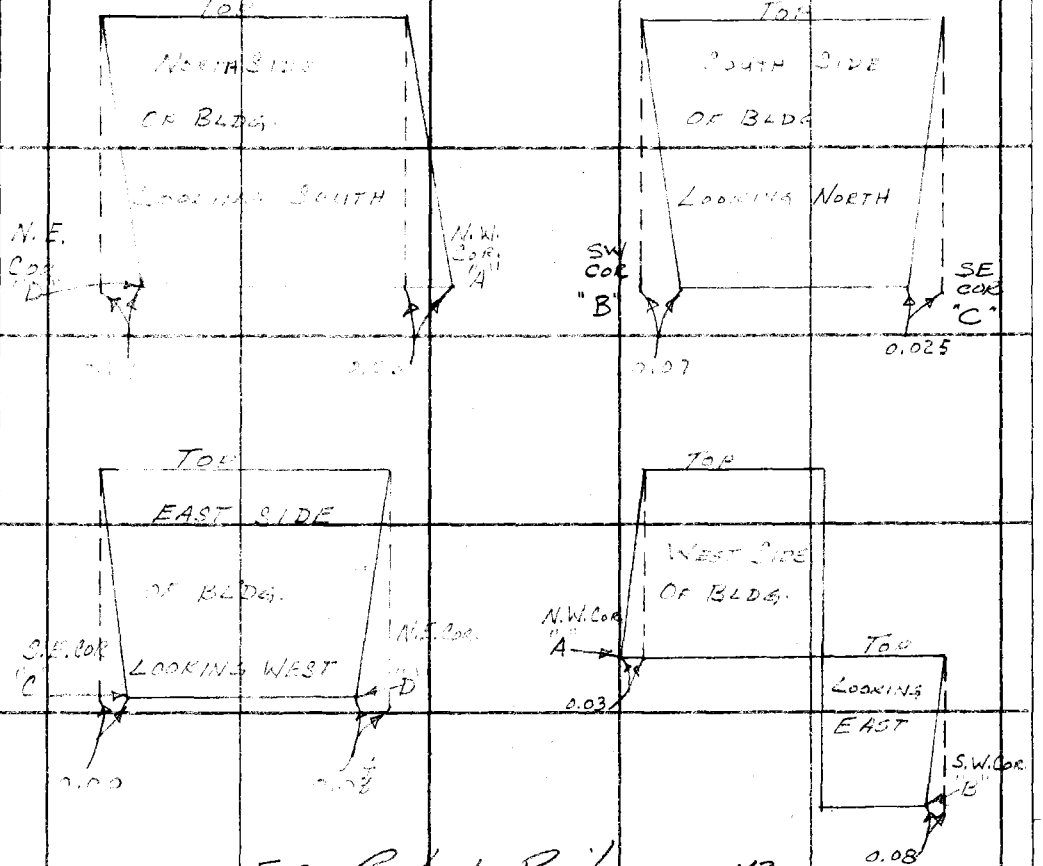
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

76S420 S & E-353 4-54

Notes Ck'd by	Survey of Courthouse Sub Long Beach Co
Map No.	JN 03010 Tape Std °F
Office Work	Surveyed by A.C. Guisado
Checked	Notes DLW Date 12/4/63
Date	Indexed

F. B. 941 PG. 231

VERTICAL DETERMINATION OF CORNERS



FOR CONTROL POINTS SEE pg 143

FOR PREVIOUS OBSERVATION SEE pg 144, 172, 204 & 219

Previously Observed on Oct 31, 1962
See F.B. 941-219

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

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.
Do not extend this side of this line.

76F309S C.E. #310 6-62

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

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

Do not extend this side of this line.

SUMMATION OF LEVELS — LONG BEACH COURT HOUSE SUBSIDENCE

B.M.	MEAN DIFF	UNADJ.	ELEV.	CORR	ADJ. ELEV.
L.D. A-4		21	2690		21.209 ELEV PER PG 107
TO	+ 3.1585				
L.B. 571		24	4275		
TO	+ 1.2436				
L.B. CH #2		25	6711		
TO	+ 0.0219				
L.B. CH #3		25	6930		
TO	+ 0.1683				
L.B. CH #4		25	8613		
TO	- 1.5222				
L.B. CH #5		24	3391		
TO	- 2.4190				
L.B. CH #6A		21	9201		
TO	- 3.8975				
L.B. CH #7		21	0226		
TO	- 2.3133				
BM 158		18	7093		
TO	+ 2.5539				
L.B. A-4		21	2631		

F.B. 94 PG 112

Notes Ck'd by	Survey of [illegible]
Map No.	JN Tape Std °F
Office Work	Surveyed by
Checked	Notes Date
Date	Indexed [illegible] DEC 1963

F. B. 941 PG. 229

DEC 1963
LONG BEACH COUNTY
COURTHOUSE SUBSIDENCE
STUDY

JOB NO. 0301.01 (OUTSIDE)
" " 0301.04 (INSIDE)

LEVELS (OUTSIDE)	pg 237 to 244
" (INSIDE)	pg 245 to 260
ANGLES (OUTSIDE)	FB G1009 pg 15-44
" (INSIDE)	FB T170 pg 55-62
Taping (INSIDE)	FB T170 pg 53-54
" (OUTSIDE)	FB T172 pg 1-16
VERT Dist. of Bldg Cor	pg 231

GUIZADO	LIND
WILKS	MALDONADO
GLIDDEN	MARTINEZ E
VALDEZ	RODRIQUEZ R.R.
SMITH N	OHASHI

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

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.
Do not extend this side of this line.

76F309S CE #310 6-62

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

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

Do not extend this side of this line.

F.B. 941 PG 130

76F309S CE #310 6-62

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

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

Do not extend this side of this line.

SUMMATION OF LEVELS LONG BEACH COURT HOUSE SUBSIDE-

BM No	MEAN DIFF	UNADJ.	ELEV.	CORR	ADJ. ELEV.
L.B. A-4		21	2690		21.269 PER [illegible]
TO	-7.1884				
F-2		14	0806		
TO	-0.0506				
G-2		14	0300		
F-2		14	0806		
TO	-0.3477				
E-4		13	7329		
TO	+0.0006				
D-4		13	7335		
TO	+0.3366				
B-2		14	0701		
TO	+0.0324				
A-2		14	1025		
TO	-0.0026				
B-3		14	0999		
TO	+0.0141				
B-5		14	1140		
TO	-0.0290				
B-7		14	0850		
TO	+0.382				
B-9		14	1232		

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

Survey of [illegible]
JN [illegible] Tape Std °F
Surveyed by
Notes Date [illegible]
Indexed [illegible]

F. B. 941 PG. [illegible]

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

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

Do not extend this side of this line.

Summation of Levels — Long Beach Court House Subdivision

By No	Mean Diff	Unadj.	Elev.	Corr	Adj.	Elev.
B-9		14	1232			
To	- 0.0051					
B-11		14	1181			
To	+ 0.0112					
B-13		14	1293			
To	+ 0.0032					
B-15		14	1325			
To	+ 0.0022					
B-17		14	1347			
To	- 0.0114					
B-18		14	1233			
To	- 0.0082					
B-20		14	1151			
To	- 0.0039					
B-23		14	1072			
To	- 0.0328					
B-25		14	0744			
To	- 0.0073					
A-25		14	0691			
To	- 6.8287					
C-25-3		7	2404			

F. B. 941 PG 234

76F309S CE #310 6-62

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

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

Do not extend this side of this line.

SUMMATION OF LEVELS LONG BEACH COURT HOUSE SUBSIDENCE

BM No	MEAN DIFF	UNADJ.	ELEV.	CORR	ADJ.	ELEV.
C-25-3	✓	7	2404 ✓			
TO	+9.5379					
C-25-1		16	7783			
C-25-3		7	2404			
TO	+0.0201					
C-25-2		7	2605			
TO	+6.8343					
G-26		14	0948			
TO	-0.0326					
F-2		14	0622			

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

Survey of [illegible]
JN [illegible] Tape Std °F
Surveyed by
Notes Date
Indexed [illegible]

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

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

Do not extend this side of this line.

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

F. B. 941 PG 234

76P526 CE # 308 3-61

PLEASE RETURN TO

L ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

E: ANY ADDITIONS OR CHANGES HIS SHEET MUST BE MADE OR LED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM BM 158 TO BM LB C4
BM 158				222				131	BM. 158
1.	199	131	5005	176 46	108	779	409 5	85 46	
				178				192	
2.	164	758	4655	149 30	[illegible]	[illegible]	[illegible] 5	162 30	
TOTALS	267	837		76	286	002		76	
	286	002						76	
								152 M.	
DIFF	+77	837 cm.							
BM LB. A-4				228				160	BM. LB. A-4
1.	[illegible]	[illegible]	5065	182 46	137	620	432 5	114 46	
				176				146	
2.	159	048	4605	142 34	130	291	431 5	114 32	
Totals	364	209		80	267	911		78	
	267	911						80	
DIFF +	96	298 cm						158 M.	
BM. LB. 571				194				156	BM. LB. 571
1.	176	330	4775	158 36	138	452	439 5	120 36	
	138	452						36	
DIFF	+37	878 cm						72	
BM LB. C4-2									BM LB. C4-2

JOB NO. 0301.02 SURVEY OF L. A. CO. PRECISE LEVEL NET

SURVEY BY [illegible] DATE 12-12-63 WEATHER Sunny INST. NO. [illegible]

NOTES BY Martinez TIME 930 To ROD NO. [illegible]

INDEXED E. J. GALLI DATE NOTES CHKD [illegible] DATE

F.B. 141 PG. 237

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F.B. 911 PG. 138 JOB NO. 03012 DATE

SURVEY OF 4th CO. ENGINEERS LEVEL PARTY NOTES MORTINEZ

SURVEY BY LLYD

INDEXED E. J. GALLI DATE

WEATHER Sunny INST. NO. 252.36

TIME 11:00 ROD NO. 55.96

NOTES CHKD Chg

STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM BM LBCH #2 TO BM 158
BM LBCH #2			161			169	BM LBCH #2
1.	134 012	4355	117 34	172 242	4725	153 36	
				24 012		34	
				39 930	69	70	
BM LBCH #2							BM 571
BM 158							
BM 571			148			176	BM 571
1.	132 610	4335	116 32	160 967	4615	194 32	
			155			223	
2.	132 703	1335	109 46	200 570	5015	177 46	
Totals	265 313		75	361 537		75	
D.H. Elev				265 313		74	
BM 84				96 224	CM	151	BM 84
						126	
BM 4-4			148			176	BM 4-4
1.	173 430	1115	118 30	161 243	4625	146 30	
			137			229	
2.	116 420	4175	93 46	206 599	5075	183 46	
Totals	289 850		74	367 842		74	
D.H. Elev				289 850		75	
BM 158				77 792	CM	149	BM 158

76P526 CE # 308 3-61

PLEASE RETURN TO

L ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

E: ANY ADDITIONS OR CHANGES HIS SHEET MUST BE MADE OR LED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BM LB CH #2 TO BM LB CH #5
BM LB CH #2				178				177	BM LB CH #2
1.	154	003	455 5	130 48	153	384	454 5	129 48	
	153	384						48	
Diff E	+0	618						96 M	
BM LB CH #3									BM LB CH #3
BM LB CH #3				192				161	BM LB CH #3
1.	169	068	470 5	146 46	138	401	439 5	115 46	
				179				175	
2.	136	062	437 5	133 46	131	803	433 5	129 46	
				153				172	
3.	148	952	449 5	143 10	177	699	478 5	172 10	
Totals	474	082		102	468	903		102	
	463	903						102	
DIFF	+5	179						204 M.	
BM LB CH #4				169				215	BM LB CH #4
1.	144	521	445 5	119 50	190	859	491 5	165 50	
					144	521		50	
Diff E by					-46	338		100 M	
BM LB CH 5									BM LB CH #5

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY [illegible] WEATHER [illegible] INST. NO. [illegible]

NOTES BY [illegible] DATE 12-12-[illegible] TIME [illegible] ROD NO. [illegible]

INDEXED [illegible] J. CALL DATE NOTES CHKD [illegible] DATE

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

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM BMLBCH #5 TO
BMLBCH #5				[illegible]				160	BMLBCH #5
1.	190	265	491 5	165 50	14[illegible]	809	444 5	115 50	
	143	309						50	
Diff Elev	+46	456	cm					100 M	
BMLBCH #4									BMLBCH #4
BMLBCH #4				184				155	BMLBCH #4
1.	179	[illegible]	480 5	174 10	150	327	45[illegible]	145 10	
				180				183	
2.	157	169	458 5	134 46	160	412	461 5	137 46	
				159				190	
3.	136	822	437 5	113 46	167	422	468 5	144 46	
Totals	473	079		101	478	161		102	
					473	079		102	
DIFF ELEV.					-5	082	cm	204 M.	
BMLBCH #3				182				183	BMLBCH #3
1.	158	916	459 5	134 48	159	632	460 5	135 48	
					158	916		48	
Diff elev.					-0	716	cm	96 M.	
BMLBCH #2									BMLBCH #2

F.B. [illegible] PG. [illegible] JOB NO. 0301.02

SURVEY OF LA CO PROCESS LEVEL NET

SURVEY BY LIND NOTES MARTINEZ

INDEXED B. J. Gatti DATE

WEATHER Sunny INST. NO. 15234

TIME 11:15 ROD NO. 95 96

NOTES CHKD [illegible] DATE

76P526 CE # 308 3-61

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM BM LBCH #5 TO BM 158
BM LBCH #5									
1.	173	458	474 5	186 / 150 46	183	840	484 5	206 / 160 46	BM L.B.C.H. #5
2.	131	760	432 5	152 / 110 42	195	070	486 5	216 / 174 42	
Totals	305	218		88	378	910		88	
					305	218		88	
Diff					-73	692 cm		17	Metals
BM LBCH #6A									
1.	161	588	462 5	[illegible] 46	161	643	462 5	184 / 138 46	BM L.B.C.H. #6A
2.	144	541	445 5	152 / 136 16	171	789	472 5	179 / 163 16	
Totals	306	094		62	333	432		62	
					306	094		62	
Diff					-27	338 cm		12	m
BM LBCH #7									
1.	160	290	461 5	179 / 141 38	165	140	466 5	184 / 146 38	BM L.B.C.H. #7
2.	139	081	440 5	166 / 112 54	171	591	472 5	192 / 144 54	
3.	147	402	448 5	151 / 143 8	180	539	481 5	183 / 177 6	
Totals	446	773		100	517	270		100	
Diff Elev BM 158					446	773		100	BM-158
					-70	497 cm		195 / 300	m

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY [illegible] DATE 12-12-63 WEATHER [illegible] INST. NO. [illegible]

NOTES BY [illegible] TIME [illegible] ROD NO. [illegible]

INDEXED C. J. GALLI DATE NOTES CHKD [illegible] DATE

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

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F.B. 421 Pg. 22 JOB NO. 32-1-32

SURVEY OF 6A 20 Sept 15 Level Net

SURVEY BY Lucas NOTES Kirkpatrick

INDEXED C.L. Cain DATE

WEATHER Sunny INST. NO. 15234

TIME 11:00 ROD NO. 2x 86

NOTES CHKD Clut DATE

STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM [illegible] TO BM LBCH #5
BM 158			186			152	BM. 158
1	182 412	4835	178 8	148 891	4495	144 8	
			198			164	
2	1[illegible] 240	4[illegible]25	144 54	138 320	4395	112 52	
			183			179	
3	164 250	4655	145 38	160 171	4615	141 38	
Totals	517 902		100	447 382		93	
	447 382					100	
Diff	+70 520					193	
BM. LBCH #7			182			156	BM L.B.C.H. #7
1.	174 394	4755	166 16	14[illegible] 576	4495	140 16	
			189			161	
2	166 049	4675	143 46	164 192	4655	141 46	
Totals	340 443		62	313 068		62	
	313 068					62	
Diff	+27 375					124	
BM LBCH #6A			215			153	BM. LBCH #6A
1.	194 911	4955	173 42	132 172	4335	111 42	
			207			196	
2	184 611	4855	161 46	173 640	4745	150 46	
Totals	379 582		58	305 812		33	
Diff Elev.	305 812					33	
BM LBCH #5							BM LBCH #5
	+73 770					176	

76P526 CE # 308 3-61

PLEASE RETURN TO

L ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

E: ANY ADDITIONS OR CHANGES HIS SHEET MUST BE MADE OR LED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BM A4 TO BM F-2
BM A-4				210				176	B.M. A-4
1.	196	763	497 5	182 28	163	227	464 5	150 26	
				15				274	
2.	10	988	311 5	5 10	269	713	570 5	264 10	
				145				139	
3.	142	288	443 5	139 6	136	252	437 5	133 6	
	350	039		44	569	192		42	
Totals					350	039		44	
Diff Elev.				-	219	153		86	
BM F-2									BM F-2

JOB NO. 0301.02 SURVEY OF L. A. CO. PRECISE LEVEL NET

SURVEY BY C. R. LINE WEATHER [illegible] INST. NO. [illegible]

NOTES BY MARTINEZ DATE [illegible] TIME [illegible] ROD NO. [illegible]

INDEXED E. J. GALLI DATE NOTES CHKD. C R LINE DATE

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

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BMF 2 TO BM 84
BM F-2				139				145	BM F 2.
1.	136	185	437.5	133 6	14[illegible]	310	443.5	139 6	
				278				19	
2.	273	675	574.5	268 10	14	950	315.5	9 10	
				179				514	
3.	166	341	467.5	153 26	200	088	501.5	186 28	
	576	401		4W	357	348		44	
Totals	357	348						4[illegible]	
Diff Elev.								23 M.	
BM A-4 +	219	053							BM. A-4

F.B. [illegible] PG. [illegible] JOB NO. 030102

SURVEY OF LACO Precise Level Net

SURVEY BY LND NOTES Martinez

INDEXED E. J. GALLI DATE

WEATHER Sunny INST. NO. 75234

TIME 11:45 ROD NO. 95 96

NOTES CHKD [illegible] DATE

76P526 CE # 308 3-61

PLEASE RETURN TO

L[illegible]ANGELES COUNTY ENGINEER

403 Los Angeles County Engineering Bldg.

[illegible]E: ANY ADDITIONS OR CHANGES [illegible]HIS SHEET MUST BE MADE OR C[illegible]LED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

Do not extend notes this side of this line.

Forward — Backsight

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY [illegible]

NOTES BY E. J. GALLI DATE 12-[illegible]-58 WEATHER [illegible] INST. NO. [illegible]

INDEXED [illegible] DATE [illegible] NOTES CHKD [illegible] DATE [illegible] ROD NO. [illegible]

F.B. [illegible] Pg. [illegible]

STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM By F-2 TO By E-4
By F-2 1	134 523	437 5	132	136 047	437 5	132	By F-2
				134 523			
				-1519 cm			
For G-2	136 335	437 5	132	134 771	435 5	132	By G-2
	134 771						
	+1 564 cm						
By F-2	135 151	436 5	132	136 240	437 5	132	By F-2
				135 651			
				-10 589 cm			
By E-4							By E-4

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

FORWARD — [illegible]

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM BM B-4 TO BM A-2
BM B-4									BM B-4
1	145	149	446.5	147 / 143 4	147	122	446.5	147 / 143 4	
	145	122						4	
	+ 0	027	CM					8	M.
BM B-2									BM B-2
1	148	095	[illegible]	152 / 144 8	[illegible]	[illegible]	[illegible]	[illegible] 8	
	137	833						8	
	+ 10	262	CM					15	M
BM B-2									BM B-2
1	137	751	438.5	139 / 135 4	[illegible]	[illegible]	[illegible]	[illegible] 4	
	136	794						4	
	+ 0	957	CM					8	M.
BM A-2									BM A-2

F.B. 941 PG. [illegible] JOB NO. 0301.04

SURVEY OF [illegible]

SURVEY BY [illegible] NOTES [illegible]

INDEXED C. J. GALL DATE

WEATHER [illegible] INST. NO. [illegible]

TIME 7:00 to [illegible] ROD NO. [illegible]

NOTES CHKD CDY DATE

76P526 CE # 308 3-61

PLEASE RETURN TO

L ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Forward [illegible]

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BM 6-2 TO BM 3-[illegible]
BM 6-2									BM 6-2
1	136	[illegible]	[illegible]	[illegible]	136	[illegible]	[illegible]	[illegible]	
					136	460			
					- 0	080	cm	4	
								8	M.
BM 3-3									BM 3-3
1	136	[illegible]	[illegible]	[illegible]	135	[illegible]	[illegible]	[illegible]	
	135	833							
	+ 0	439	cm					4	
								8	M.
BM 3-5									BM [illegible]
1	136	[illegible]	[illegible]	134	137	[illegible]	[illegible]	139	
					136	398			
					- 0	886	cm.	4	
								8	M
BM B-7									BM [illegible]

JOB NO. 0301.02 SURVEY OF L. A. CO. PRECISE LEVEL NET

SURVEY BY [illegible] WEATHER [illegible] INST. NO. [illegible]

NOTES BY [illegible] DATE [illegible] TIME [illegible] ROD NO. [illegible]

INDEXED C. J. GALLI DATE [illegible] NOTES CHKD [illegible] DATE [illegible]

F.B. 941 PG. [illegible]

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM [illegible] TO [illegible]
Bm B-[illegible] 1	136	[illegible]	[illegible]	135 3'	[illegible]	[illegible]	[illegible]	134 3' 4' 4'	[illegible]
	135	029							
	+1	159	cm						
Bm B-9 1	135	[illegible]	[illegible]	[illegible] 4'	[illegible]	[illegible]	[illegible]	133 4' 4' 8'	Bm B-[illegible]
					135	644			
					-2	146	cm		
Bm B-[illegible] 1	135	[illegible]	[illegible]	[illegible]	135	[illegible]	[illegible]	133 4' 4' 8'	[illegible]
	135	320							
	+2	337	cm						
Bm B-[illegible]									[illegible]

F.B. [illegible] PG. [illegible] JOB NO. 630104

SURVEY OF [illegible]

SURVEY BY [illegible] NOTES [illegible]

INDEXED [illegible] DATE

WEATHER [illegible] INST. NO. [illegible]

TIME 2:25 to 2:35 ROD NO. [illegible]

NOTES CHKD [illegible] DATE

76P526 CE # 308 3-61

PLEASE RETURN TO

L ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY _____ WEATHER _____

NOTES BY E. J. GALLI DATE _____ TIME _____ INST. NO. _____

INDEXED _____ DATE _____ NOTES CHKD _____ DATE _____ ROD NO. _____

F.B. _____ Pg. _____

STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM _____ TO _____
Sta 13-13							
1							
	132 157						
	+0 112 cm						
Sta 13-15							
1							
	135 677						
	+0052 cm						
Sta 13-17							
1							
2							
	281 153			281 479			
				281 153			
				-0 326 cm			

F.B. 941 PG. 250 JOB NO. 6301.04

SURVEY OF

SURVEY BY NOTES

INDEXED C. J. GALLI DATE

WEATHER INST. NO.

TIME ROD NO.

NOTES CHKD. DATE

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 Los Angeles County Engineering Bldg.

Do not extend notes this side of this line.

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

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT	STADIA	RIGHT	MIC.	LEFT	STADIA	From ... To ...

76P526 CE # 308 3-61

PLEASE RETURN TO

L[illegible] ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

N[illegible]E: ANY ADDITIONS OR CHANGES [illegible] HIS SHEET MUST BE MADE OR C[illegible]LED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

Do not extend notes this side of this line.

STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM [illegible] TO Bm C-25-C
Bm [illegible]							Bm [illegible]
1	[illegible] 981	[illegible]	[illegible]	[illegible] 136 981	[illegible]	[illegible]	
				-0 [illegible] cm		4 / 8 M	
[illegible]							[illegible]
1	93 081	394 5	96 / 91 5	301 222 / 93 082	602 5	[illegible] 6 / 5	
				-208 140 cm		11 M	
[illegible] 3			300				Bm C-25-3
1	[illegible] 7 995	[illegible]	296	7 955	=	[illegible]	USED POCKET TAPE FOR THIS ROD READING
	+ 290.643 cm						
Bm C 25-[illegible]	7.742 = 0.254 FT			[illegible] 7 742	[illegible]	300 / [illegible]	Bm C-25-1
				-290.783 cm			
Bm C 25-3							Bm C-25-3

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY Lind

WEATHER [illegible] INST. NO. [illegible]

NOTES BY [illegible] DATE [illegible] TIME [illegible] ROD NO. [illegible]

INDEXED C. J. GALLI DATE [illegible] NOTES CHKD [illegible] DATE [illegible]

F.B. 941 PG. [illegible]

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

FORWARD [illegible]

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM By C-25-3 TO [illegible]
By C-25-3									By C-25-3
1	284	100	585 5	281 6	[illegible]	[illegible]	[illegible]	[illegible]	
	283	472						6	
	+0	628	cm					14 M.	
By C-25-2									By C-25-2
1	297	[illegible]	[illegible]	301 [illegible] 8	[illegible]	[illegible]	[illegible]	78 [illegible]	
	88	960						8	
	+208	322	cm					28	
By G-26									By G-26
1	137	309	439 5	139 135 4	142	745	447 5	143 144 4	
2	144	658	[illegible]	134 134 2	[illegible]	[illegible]	[illegible]	136 134 2	
3	146	220	447 5	[illegible] 16	[illegible]	163	[illegible]	145 127 1	
TOTALS	428	187		40	429	235		43	
					428	187		40	
DIFF ELEV.					-1	048	cm	83 M.	
By F-2									By F-2

WEATHER [illegible] INST. NO. [illegible]

TIME [illegible] ROD NO. [illegible]

NOTES CHKD [illegible] DATE

JOB NO. 0301.04

SURVEY OF [illegible]

SURVEY BY LIND NOTES [illegible]

INDEXED R. J. GALLI DATE

F.B. 941 PG. 252

76P526 CE # 308 3-61

PLEASE RETURN TO

L[illegible] ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

N[illegible]E: ANY ADDITIONS OR CHANGES [illegible] HIS SHEET MUST BE MADE OR C[illegible]LED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

Do not extend notes this side of this line.

Back [illegible]

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM By F-2 TO By 6-25-
By F-2									By F-2
1	135	603	436 5	143 [illegible] 20	144	582	445 5	156 132 24	
2	145	853	446 5	153 137 12	145	334	446 5	153 137 12	
3	146	222	447 5	143 144 4	[illegible]	[illegible]	[illegible]	[illegible] 4	
TOTALS	427	683		40	426	742		44	
	426	742						40	
[illegible]	+0	941	CM					84 M.	
By G-26									By G-26
1	78	236	379 5	88 68 20	286	532	587 5	291 281 10	
					78	236		20	
					-208	296	CM	30	CM
By 6-25-2									By 6-25-2
1	286	288	587 5	288 284 4	286	888	587 5	287 284 3	
					286	288		4	
					-0	600	CM	7	
By 6-25-3									By 6-25-3

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY [illegible] WEATHER [illegible] INST. NO. [illegible]

NOTES BY [illegible] DATE [illegible] TIME [illegible] ROD NO. [illegible]

INDEXED C. J. GALLI DATE NOTES CHKD [illegible] DATE

F.B. 941 PG. [illegible]

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM C-25-3 TO [illegible]
C-25-3									C-25-3
1	287	041	[illegible]	289 / 295	73	900	[illegible]	81 / 75 6	
	73	900						4	
	+ 203	141	cm					10	M
A-25									A-25
1	128	419	429	129 / 126	[illegible]	[illegible]	[illegible]	[illegible]	
	129	200						3	
	+ 0	219	cm					7	M.
B-25									B-25
1	127	910	423	129 / 125	[illegible]	[illegible]	[illegible]	129 / 124 5	
	126	918						4	
	+ 0	992	cm					9	M.
B-27									B-27

WEATHER Passaic INST. NO. 75234
TIME 1-40 to 2-50 ROD NO. 90-96
NOTES CHKD CDJ DATE

F.B. 941 PG. 234 JOB NO. 03.104
SURVEY OF L.B. County [illegible]
SURVEY BY [illegible] NOTES [illegible]
INDEXED C. J. GALLI DATE

F.B. 941 PG.

JOB NO. 0301.02 SURVEY OF L. A. CO. PRECISE LEVEL NET

SURVEY BY ______ WEATHER ______ INST. NO. ______

NOTES BY ______ DATE ______ TIME ______ ROD NO. ______

INDEXED R. J. GALLI DATE ______ NOTES CHKD ______ DATE ______

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM ______ TO ______
1	121				127				
1	121				126			174	
2	140			137					
TOTAL	247				247				
B-17									B-17

Do not extend notes this side of this line.

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

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

76P526 CE # 308 3-61

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

WEATHER _____ INST. NO. _____

TIME _____ ROD NO. _____

NOTES CHKD _____ DATE _____

F.B. 941 Pg. 316 JOB NO. _____

SURVEY OF _____ NOTES _____

SURVEY BY C. J. GALL DATE _____

INDEXED _____

STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM _____ TO _____
1							
DIFF							
1							
1							

76P526 CE # 308 3-61

PLEASE RETURN TO

L ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

E: ANY ADDITIONS OR CHANGES
HIS SHEET MUST BE MADE OR
LED IN RED INK, WITH DATE AND
NAME OF PERSON MAKING CHANGE

Do not extend notes this side of this line.

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY _____ WEATHER _____ INST. NO. _____

NOTES BY C. J. GALLI DATE _____ TIME _____ ROD NO. _____

INDEXED _____ DATE _____ NOTES CHKD _____ DATE _____

F.B. _____ Pg. _____

STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM _____ TO _____
B-11							
1							
DIFF							
B-9							
1							
DIFF							
B-7							
1							
DIFF							
B-5							

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM [illegible] TO [illegible]-2
B-2									[illegible]
1	135	520	436 5	137 / 133 4	13[illegible]	[illegible]	436 5	137 / 133 4	
					13[illegible]	520		4	
					-0	421		8	
B-3									B-3
1	136	509	437 5	138 / 134 4	13[illegible]	[illegible]	437 5	138 / 134 4	
	136	[illegible]						4	
	+0	081						8	
A-2									A-2
[illegible]	136	392	437 5	138 / 134 4	13[illegible]	[illegible]	438 5	[illegible] 4	
					13[illegible]	392		4	
					-1	018		8	
B-2									B-2

F.B. 941 PG. [illegible]

SURVEY OF [illegible] JOB NO. [illegible]

SURVEY BY [illegible] NOTES [illegible]

INDEXED C. J. GALLI DATE

WEATHER [illegible] INST. NO. [illegible]

TIME [illegible] ROD NO. [illegible]

NOTES CHKD [illegible] DATE

76P526 CE # 308 3-61

PLEASE RETURN TO

L ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

E: ANY ADDITIONS OR CHANGES HIS SHEET MUST BE MADE OR C...LED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BM B-2 TO BM F-2
B-2									BM B-2
1	137	390	433.5	142 / 132 1/2	147 / 137	650 / 390	443.5	[illegible]	
								10 / 13 M	
DIFF					-10	220' CM			
B-4									BM B-4
1	147	[illegible]	[illegible]	[illegible]	145 / 145	051 / 020	[illegible]	[illegible]	
								4 / 8 M	
DIFF					-0	011' CM			
E-4									BM E-4
1	146 / 135	499 / 891	447.5	[illegible]	131	891	[illegible]	[illegible]	
								2 / 12 M	
DIFF	+10	208' CM							
F-2									BM F-2

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY _____ WEATHER _____ INST. NO. _____

NOTES BY _____ DATE _____ TIME _____ ROD NO. _____

INDEXED B. J. GALLI DATE _____ NOTES CHKD. [illegible] DATE _____

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

F.B. 941 PG. 262

JOB NO.

SURVEY OF

SURVEY BY NOTES

INDEXED DATE

WEATHER INST. NO.

TIME ROD NO.

NOTES CHKD DATE

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM TO

Notes Ck'd by	Survey of LB Crause Bldg
Map No.	JN ____ Tape ____ Std ____ °F
Office Work	Surveyed by AC [illegible]
Checked	Notes ACG Date 12/63
Date	Indexed [illegible]

F. B. 941 PG. 263

LONG BEACH COURT HOUSE

JN.	
0301.01	OUTSIDE TRAVERSE & ANGULAR SCHEME
0301.04	INSIDE BASEMENT TRAVERSE & CHECK ANGLES SCHEME

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

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

Do not extend this side of this line.

76F309S CE #310 6-62

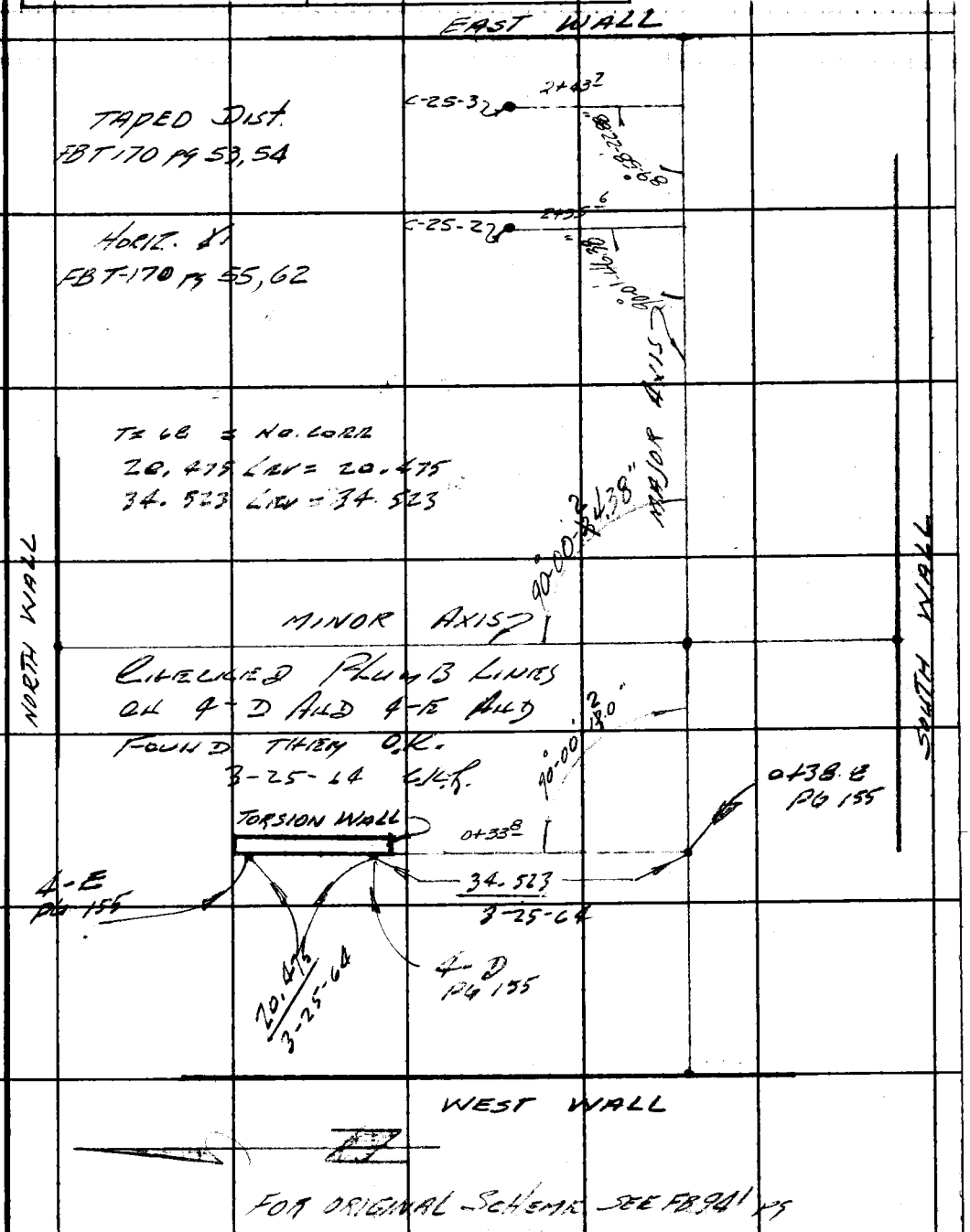
F. B. 941 PG 264

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

Do not extend this side of this line.

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

Notes Ck'd by	Survey of LB COURTHOUSE	F. B. 941 PG. 265
Map No.	JN 0301.01 Tape Std °F	
Office Work	Surveyed by A.C. [illegible]	
Checked	Notes ACG Date 12/63	
Date	Indexed C. J. GALLI	



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

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.
Do not extend this side of this line.

76F309S CE #310 6-62

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

Do not extend this side of this line.

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

F. B. 941 PG 246

76F3095 CE #310 6-83

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

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

Do not extend this side of this line.

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

Survey of
JN
Surveyed by
Notes
Indexed

Tape
Std.
°F
Date

F. B.
PG.

F. B._____ Pg._____

MA 53611
EX 61874
Stead Hartong
Ron Cormier

LO[illegible] RETURN TO
405 LO[illegible] COUNTY [illegible]
[illegible] LDG.
[illegible] this side of this

Note: [illegible] Additions or Changes on This
Shee[illegible] must be Made or Circled in Red
Ink [illegible] Date and Name of Person
M[illegible] Message.