Notes Ck'd by
No.
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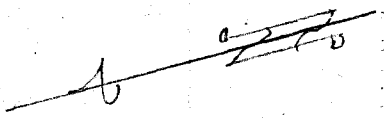
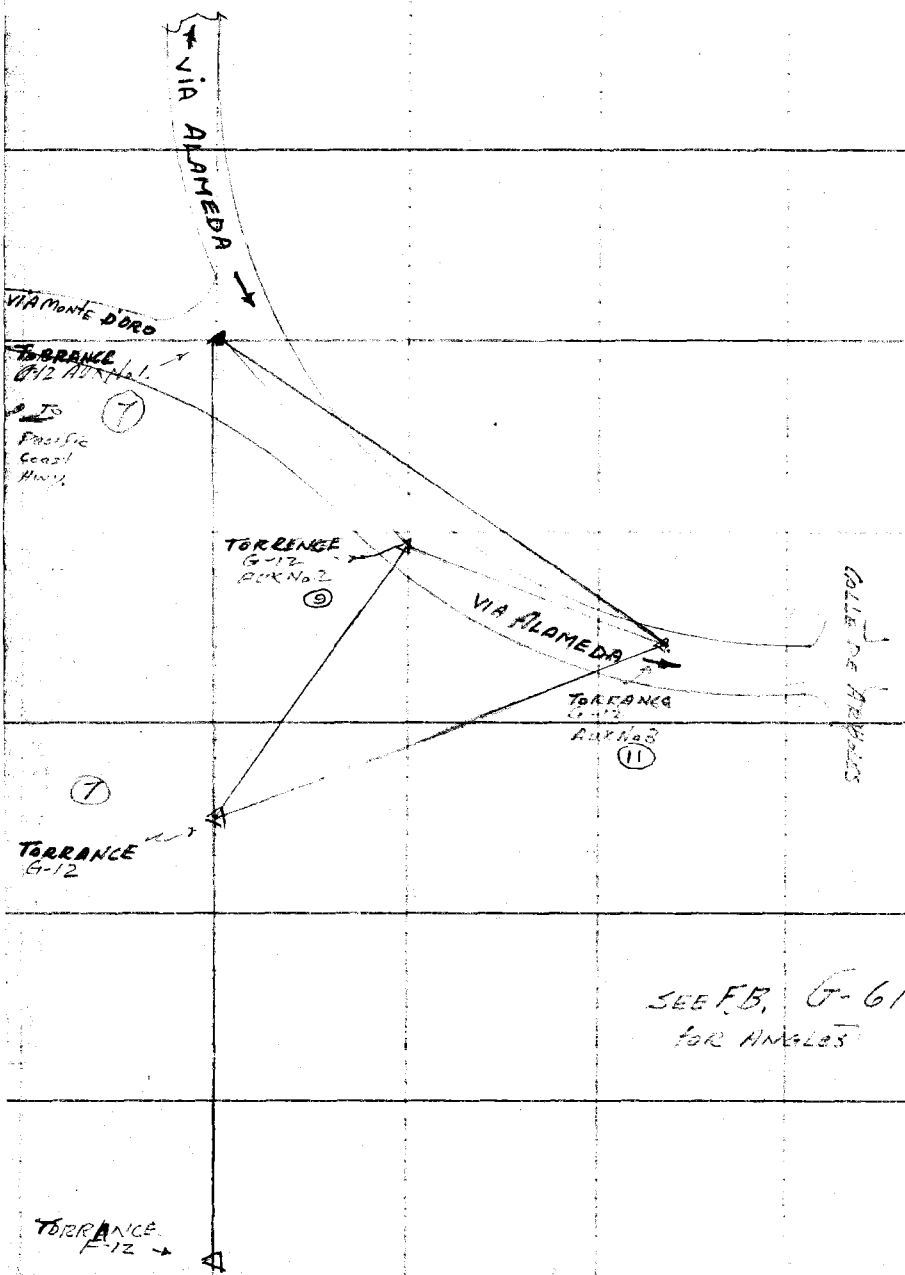
Survey of Geodetic Control
W. O. 8301.00 Tape No. 0.25 St'd. 68 °F
Surveyed by H.E. Grandvist
Notes H.E.G. Date 3/25/34
Indexed A. C. Johnson 3-29-54

F.B. 942 Pg. 5

Geodetic control system.
Palo Verde Area.
Ties to Torrence G-12 Aux No 1
" " Aux No 2
" " Aux No 3.
Index Pg 6 Pg 12

F. B. 942 PG. 6





SEE F.B. G-616 FOR ANGLES

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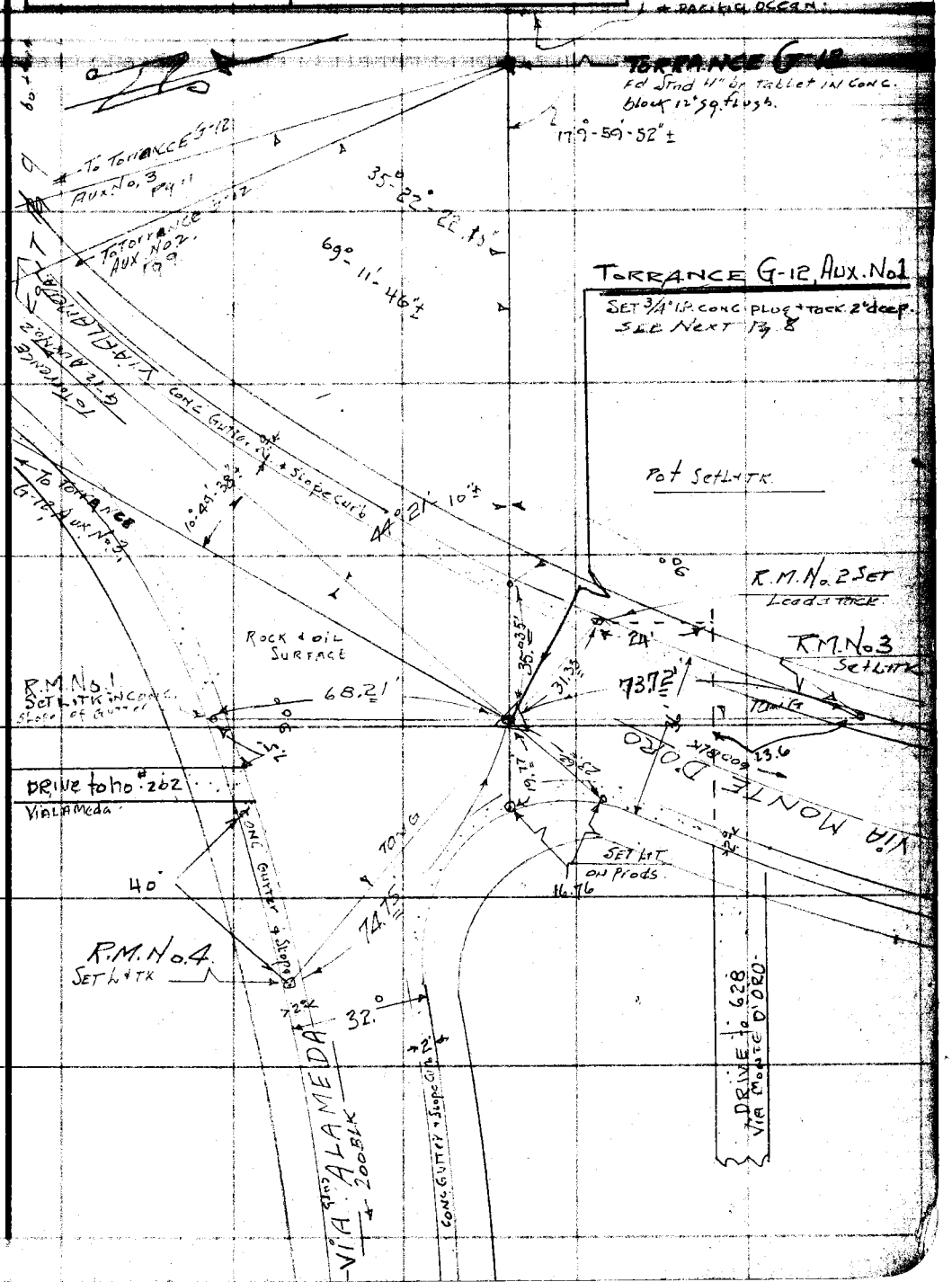
Checked	Notes H. E. G. Date 3-18-54
Date	Indexed A. C. Johnson

F. B. 942 PG. 7



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76F3098 247 4-53

F.B. 942 PG. 8

~ DESCRIPTION ~

STATION

"TORRANCE 6-12. AUX. No. 1"

LOCATION: IN Southwestern portion of Los ANGELES County, 8 South of City of Redondo, AND IN VICINITY of HOLLYWOOD RIVIERA TORRANCE district, 1.1 Mile Southerly of Intersection of Pacific Coast Hwy. No. 101 ALTERNATE, and VISTA DE MAR. to INT of VIA ALAMEDA & VIA Monte D'ORO.

STATION MARK: 3/8" IRON Pipe with Concrete plug and copper Tack Ctr. point, 2" below top of pavement. Approx. 66 feet N'ly. of S'ly curb of VIA ALAMEDA and 30 feet Est'ly of Wst'ly curb of VIA MONTE D'ORO.

Sub Surface Mark: None.

REFERENCE MARK No. 1 - 3/4" Copper Tack w/lead IN S'ly curb of VIA ALAMEDA 7' Wst'ly of Wst'ly edge of drive to ho. No. 202 VIA ALAMEDA

R.M. No. 2. SET a Lead & Tack IN Wst'ly curb of VIA Monte D'ORO 24' S'ly of a Line prod. of S'ly. edge of drive to ho. No. 628 VIA Monte D'ORO

R.M. No. 3 SET a Lead & Tack IN Wst'ly curb of VIA Monte D'ORO 236' N'ly. of a Line prod. of S'ly. Edge of Drive to ho. #628 VIA Monte D'ORO

R.M. No. 4. SET a Lead & Tack IN S'ly Curb of VIA ALAMEDA 40' Est'ly of Est'ly Edge of Drive to ho. #202 VIA ALAMEDA

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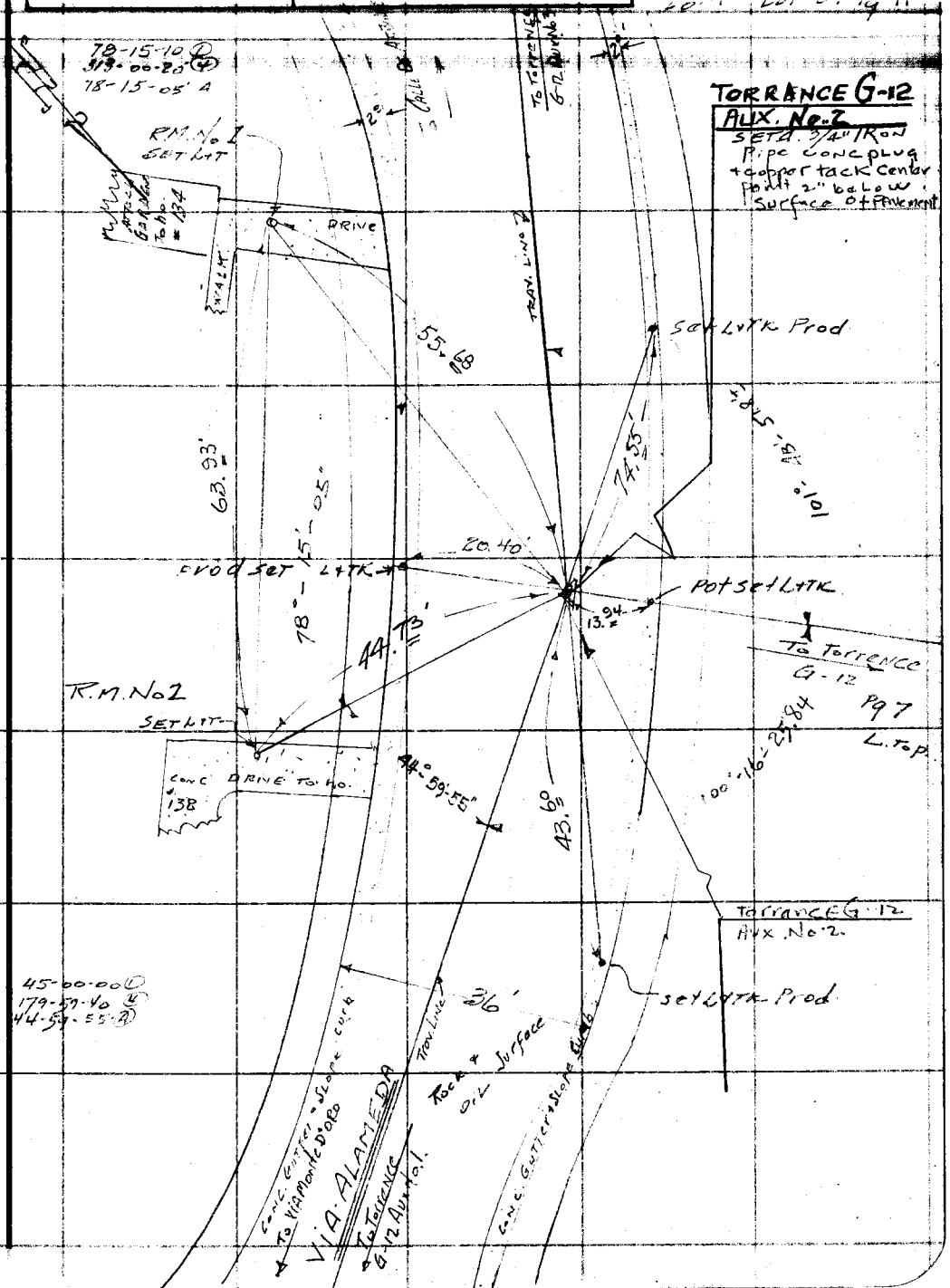
Date	Indexed A. C. Johnson

F. B. 942 PG. 9

Palo Verde Area ✓



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76F3O9S 247 4-53

F. B. 942 PG. 10

~ Description ~

TORRANCE G-12, AUX. No. 2.

Location: IN South Wester Portion of Los Angele County, South of the City of Redondo And in Vicinity of Hollywood Riviera Torrance District. 1.10 mile Southerly of intersection of Pacific Coast High Way Number 101. Alternate, and Vista Del Mar. To the in Section of Via Alameda and Via Monte D'Oro

Station Mark: A three Quarter inch Iron Pipe with Concrete Plug and Copper Tack Center Point. Two inch Below Pavement. Top Approx. 21'± Feet Westerly of Easterly Curb of Via Alameda and 148± Feet South Westerly of intersection of Pavements of Via Monte D'Oro and Via Alameda.

Sub-Surface Monument None.

R.M. Number 1: Set Copper tack in Lead Plug in Drive Way of Garage To House Number 134. VIA ALAMEDA ; 12.70 North Westerly of North Front of Garage and 1.00 North Easterly of Westerly Closest Side of Concrete Drive Way. and 20.8 South Easterly of Nearest Curb To House No. 134

R.M. No. 2: Set Copper tack in Lead Plug in Drive Way to House Number 138. VIA ALAMEDA 22.0 Feet Southwesterly of Garage Front; 13± Feet South Easterly of Curb Nearest To House No. 138 and 1.00 Feet To Nearest Conc. Drive Way Edge.

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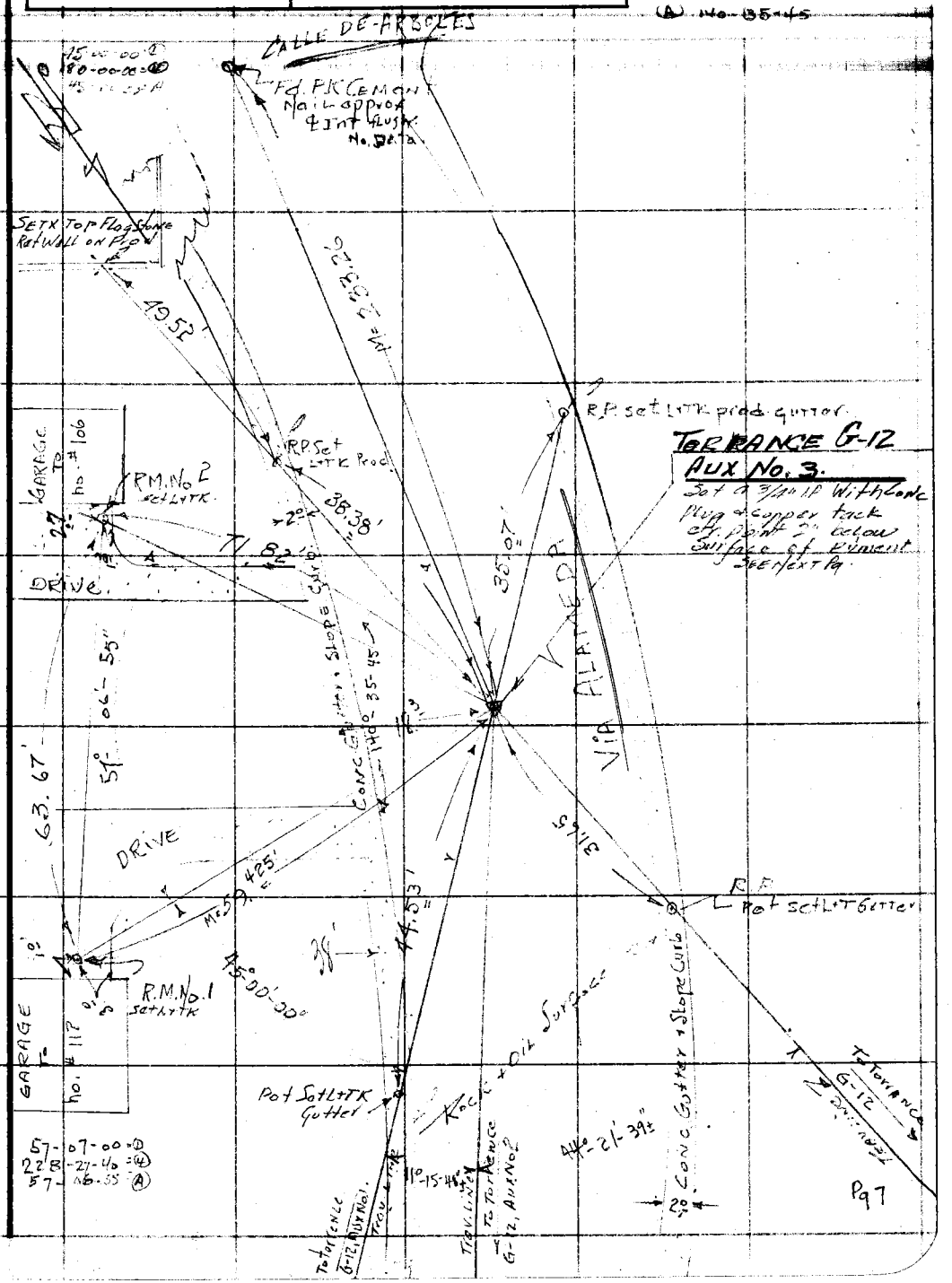
Map No.	W. O. 0301.00 Tape No. 0125 St'd. 68 °F
Office Work	Surveyed by [illegible]
Checked	Notes [illegible] Date [illegible]
Date	Indexed A. C. Johnson

F. B. 9112 PG. 11

Torrance Area Palo Verde
300' Tape #103 Calb. @ 84°
235.29 @ 64° = 233.26
① 140-35-40
(A) No. 35-45



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76F3098 247 4-53

F.B. 942 Pg. 12

— Description —

STATION: TORRANCE G-12, AUX. No. 3.

LOCATION: IN Southwestern portion of Los Angeles County, and South of City of REDONDO and INVICINITY of HOLLY [illegible] RIVIERA TORRANCE district, 1.1 Mile Sly of [illegible] of Pacific Coast Hwy ALTERNATE No 101 and VISTADEL MAR. to Int of Via Monte [illegible] and VIA ALAMEDA and Sly, approx feet to Station. in front of house No 112 VIA ALAMEDA.

Station Mark: Set a [illegible] iron pipe with concrete plug and copper tack ctr point [illegible] below top of pavement Surface, approx 18.3' Wstrly of Estrly Curb of VIA ALAMEDA & 23.3' N. Estrly of approx [illegible] & VIA ALAMEDA. in front of ho. No. 112 VIA ALAMEDA

Sub Surface Mark: None

Reference MARK No. 1 Set a Lead & copper tack in [illegible] to ho. # 112. 1 foot Sly of Sly. face of Garage Entrance & 3' Estrly of Wstrly Edge of Conc. Drive and 38' S. Esly of Estrly Curb of Via ALAMEDA

REF. Mark No. 2: Set a Lead & Tack in Drive at N. Wstrly Cor of Garage to ho. #106 VIA ALAMEDA. 1.3' ft. Estrly of Wstrly Edge of drive & 2.7' Nly of Entrance to Garage and 36' S. Estrly of Estrly Curb of Via ALAMEDA

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Office Work	Surveyed by M.A. Van Deren
Checked	Notes Van Date 3-30-54
Date	Indexed C. Johnson 4-28-54

F. B. 942 Pg. 13

JN 0301.00

NEW TIE POINTS ON CL. C-3 AUX-1

Mon to be Taken out by Const

PRESERVATION OF MONUMENTS

3-30-54
Van Deren
Richards
Myers
Bazen
McCullough
Nunez

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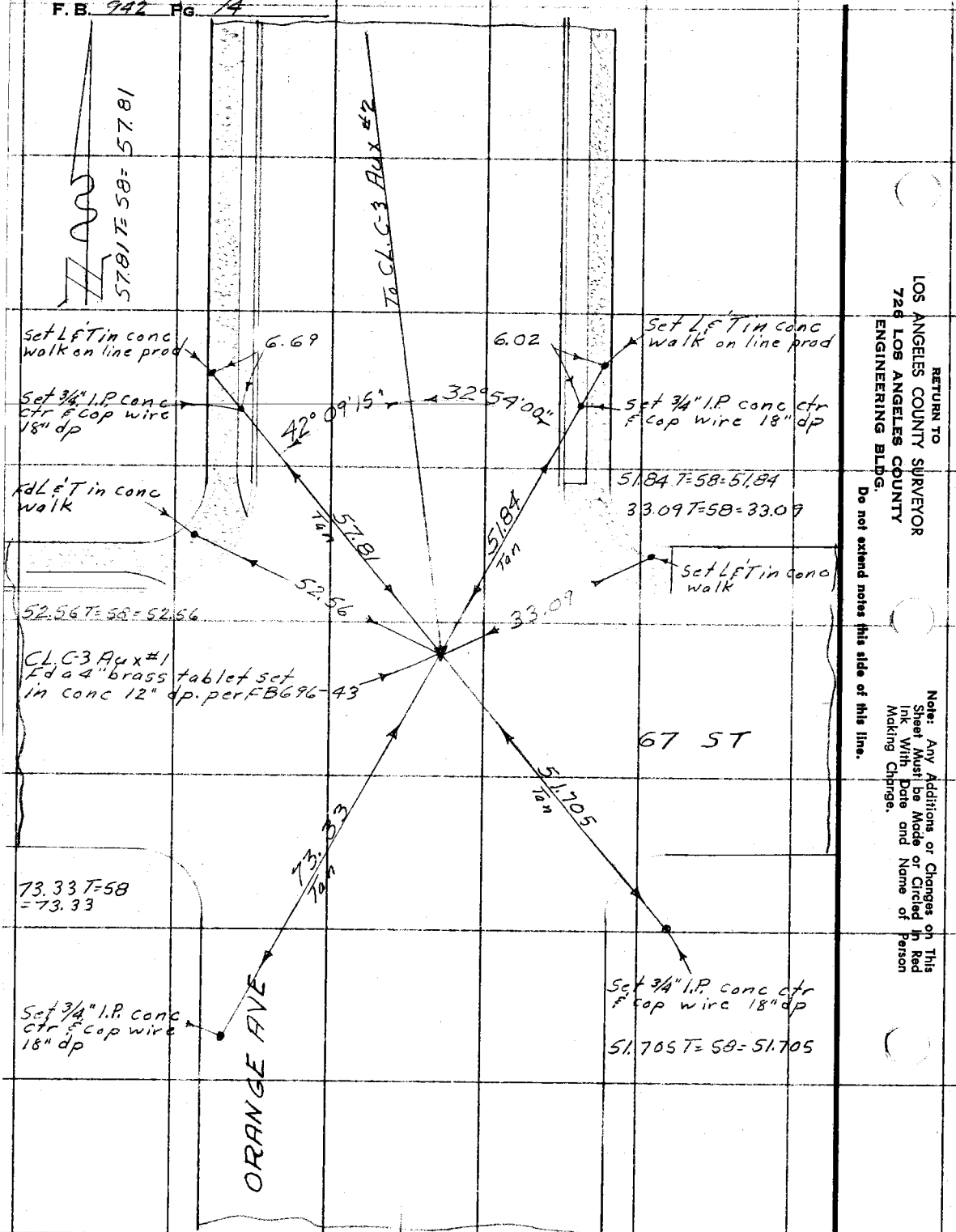
76F3008 247 4-53

F. B. 942 Pg. 14



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Date	Indexed C. Johnson

F. B. 942 PG. 15

JN 0301.00

NEW TIE POINTS ON CL. C-3 AUX-2

Mon to be taken out by const

PRESERVATION OF MONUMENTS

3-30-54
Van Deren
Richards
Myers
Bazen

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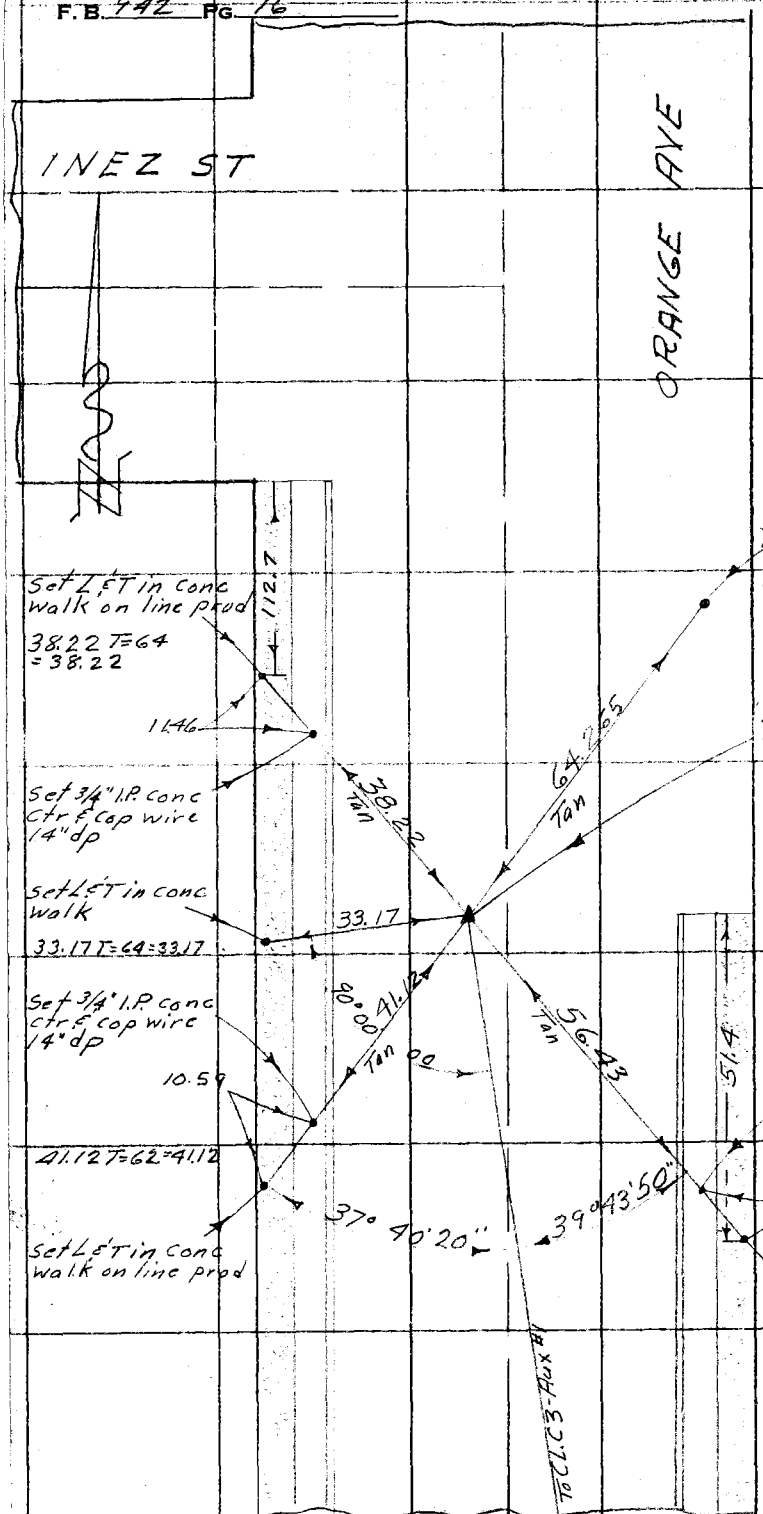
76F3095 247 4-53

F.B. 942 Pg. 16



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Date	Indexed C. Johnson

F. B. 242 PG. 17

JN 0301.00

NEW TIE POINTS ON CL. C-3 AUX-3

Mon to be taken out by const

PRESERVATION OF MONUMENTS

3-30-54

Van Deren
Richards
Myers
Barrn

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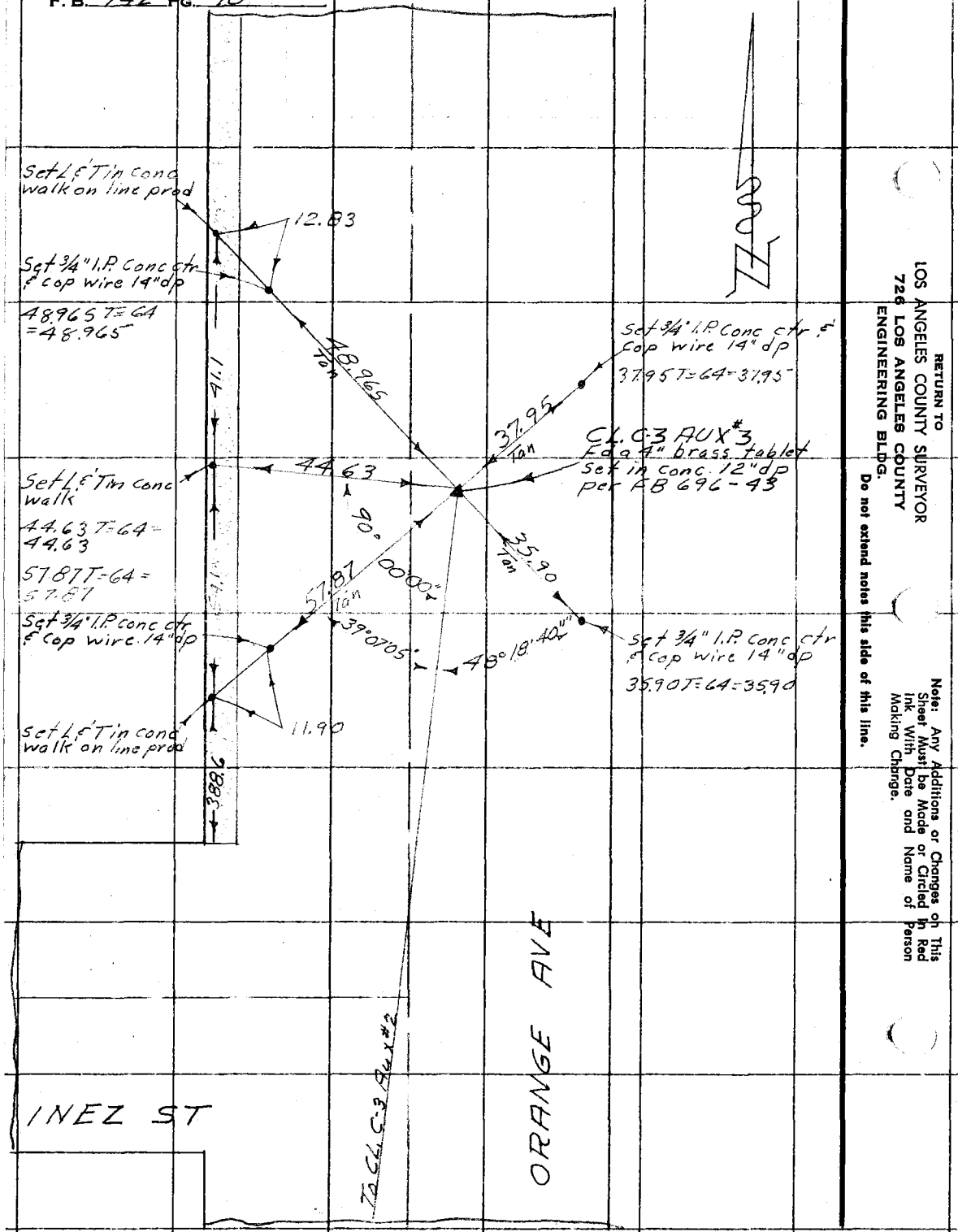
76F3098 247 4-53

F.B. 942 Pg. 18



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Date	Indexed C. Johnson

F. B. 747 Pg. 19

J.N. 0301.00

NEW TIE POINTS ON LONG BEACH E-3

Mon to be taken out by const

PRESERVATION OF MONUMENTS

4-23-54
VanDeren
Richards
Bazen
Myers

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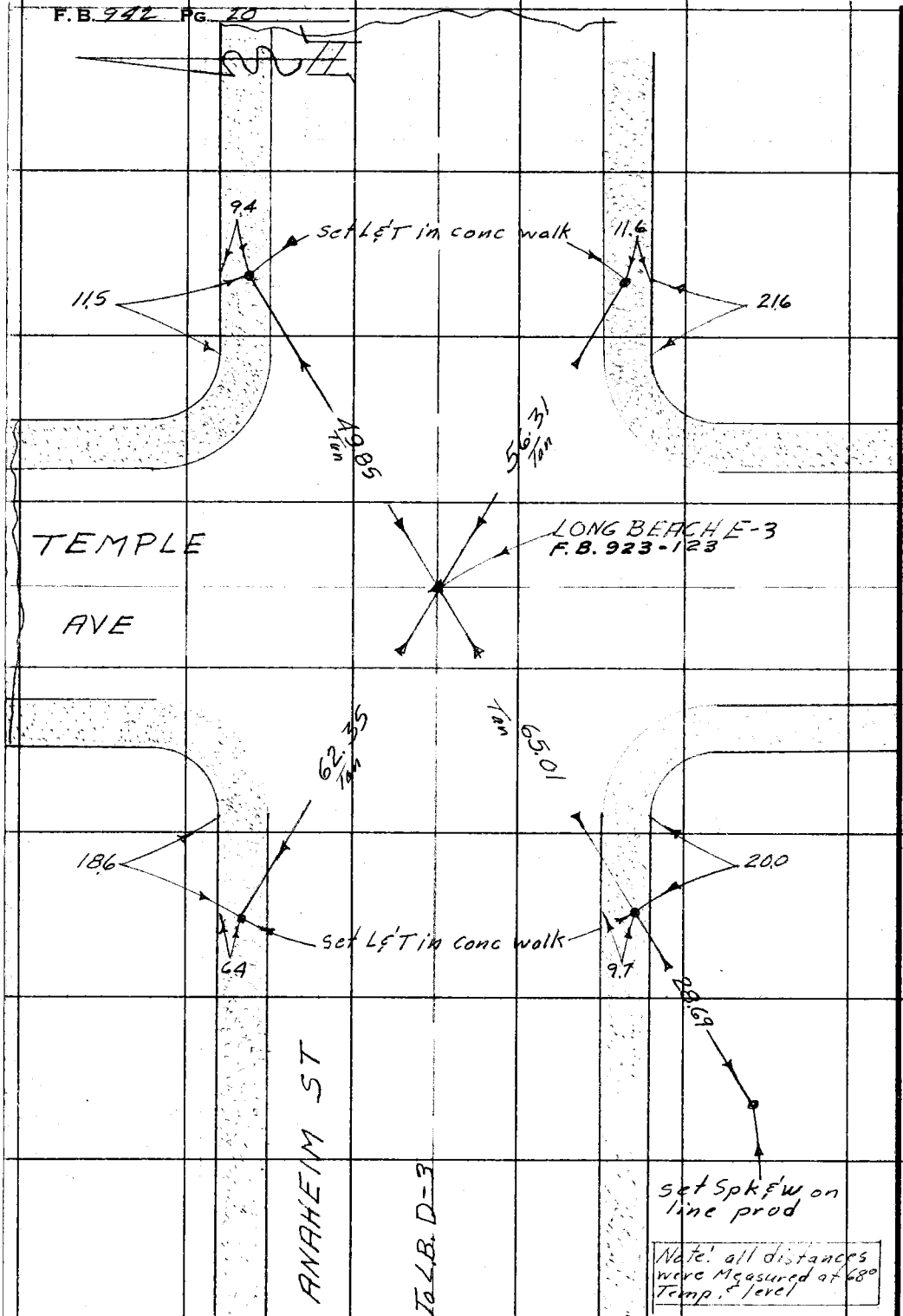
F. B. 942 Pg. 20



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Date	Indexed [redacted]

F. B. [illegible] PG. 21

J.N. 0301.00

NEW TIE POINTS ON LONG BEACH C-5

Mon to be taken out by const

PRESERVATION OF MONUMENTS

1-13-54
Van Dercn
Richards
Myers
Bezen
McKnight

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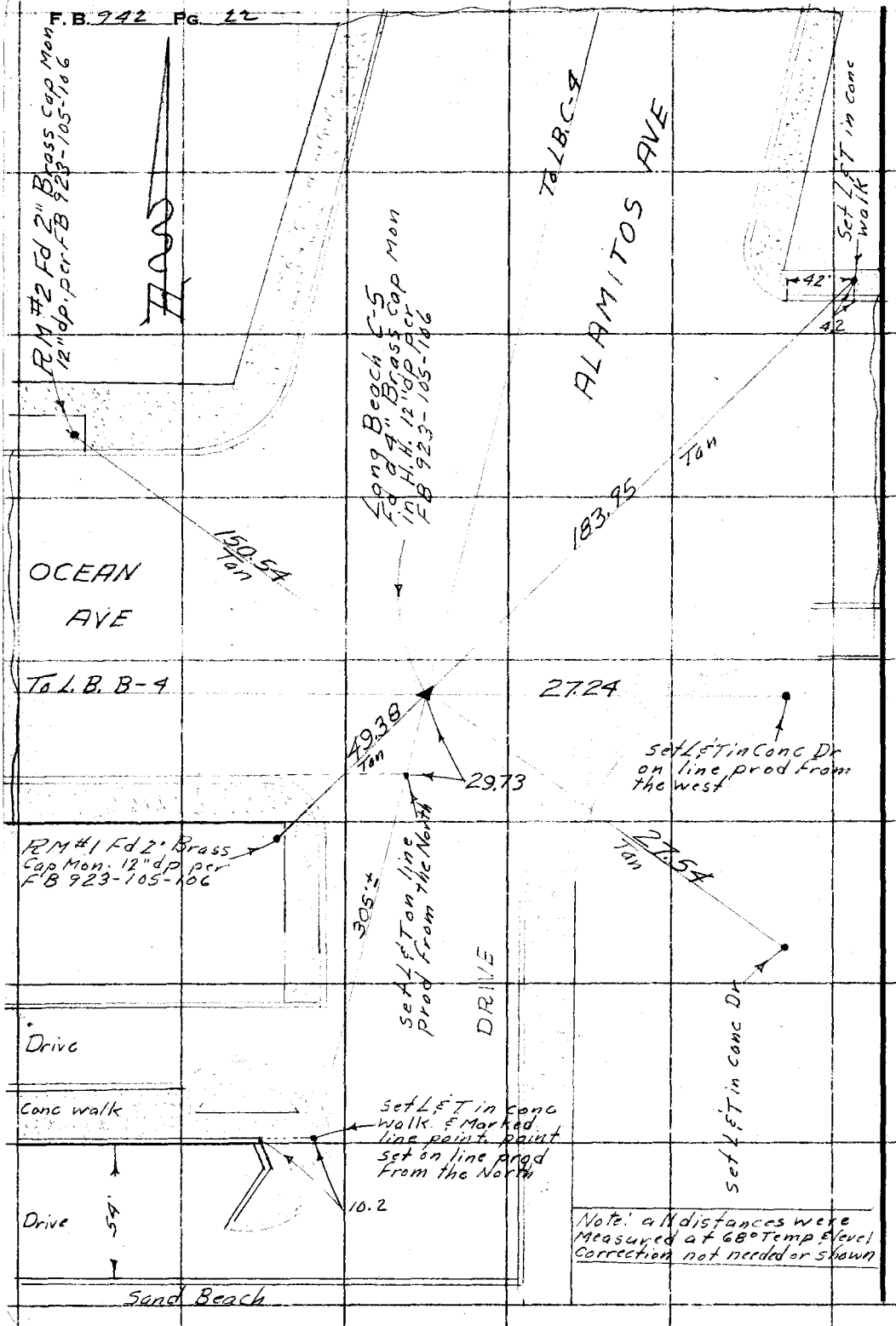
76F3098 247 4-53

F.B. 942 PG. 22



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F. B. 742 Pg. 23

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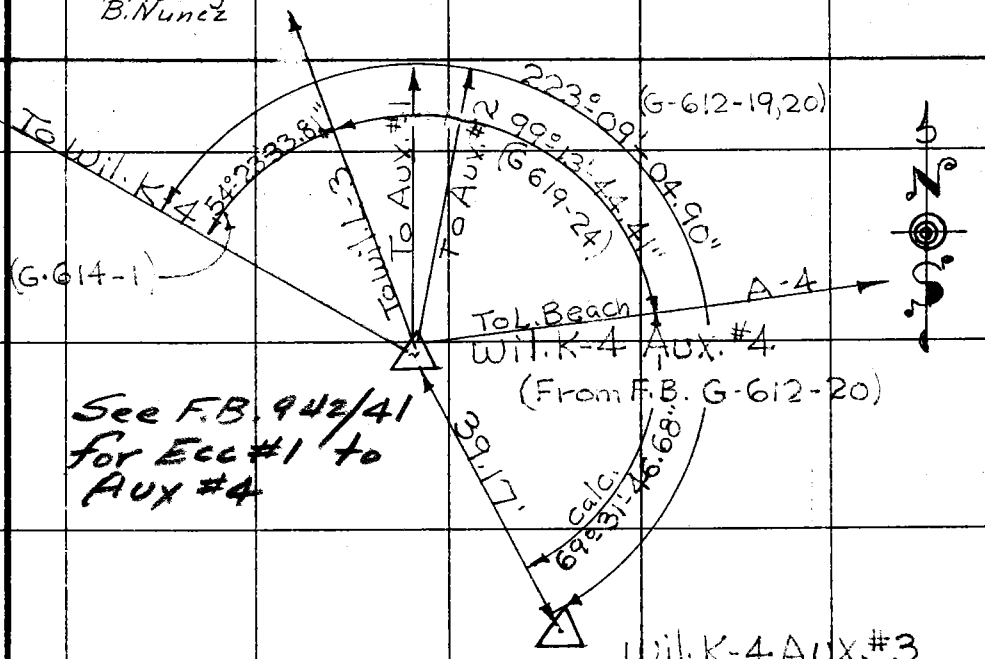
NEW TIE POINTS ON WIL-K4 AUX 3

PRESERVATION OF MONUMENTS

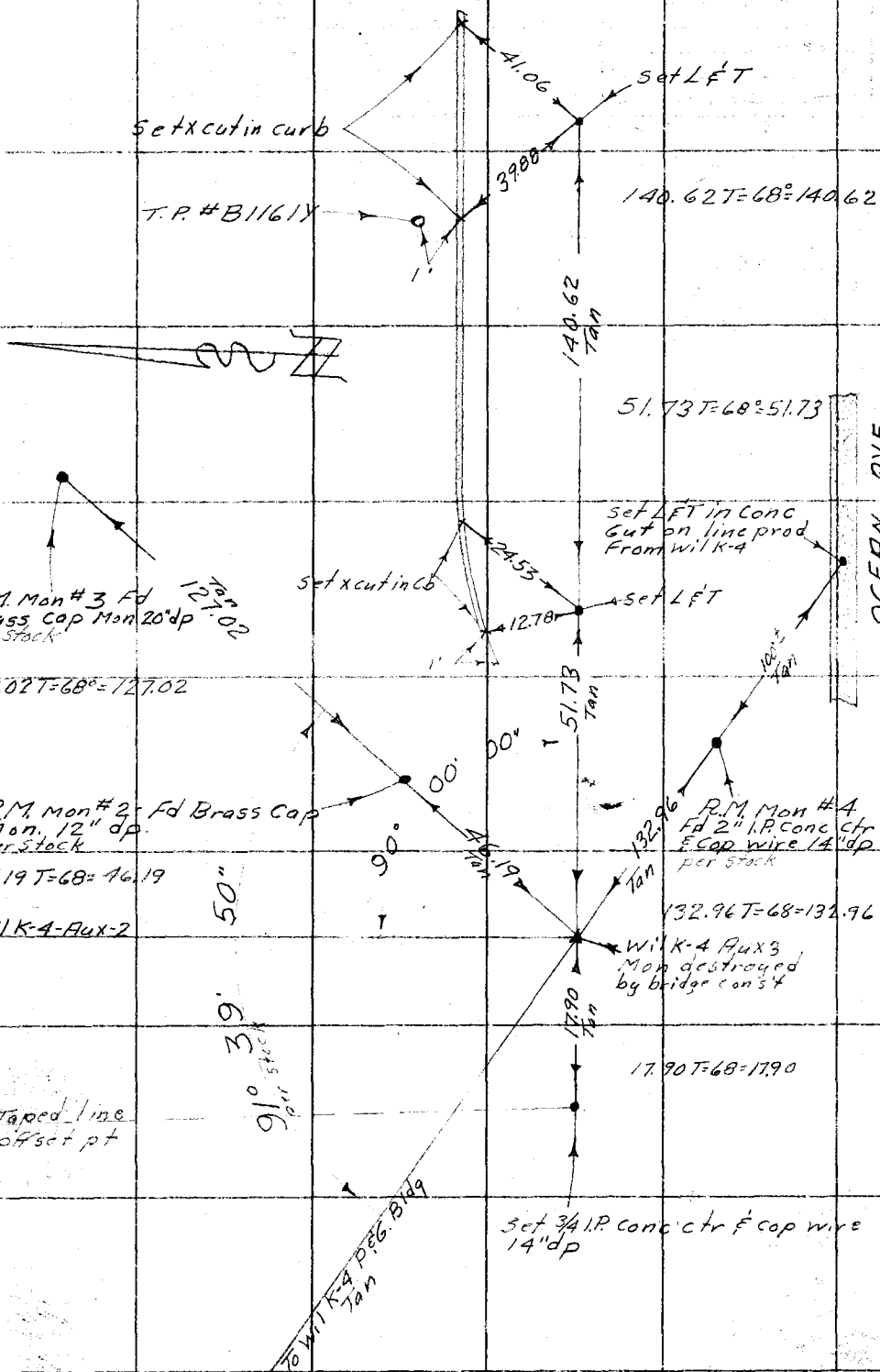
1-13-54
M.A. Van Deren
W. Richards
K. Myers
J. Bazen
R. Sherry
W. Allen
T. McKnight
B. Nunez



See F.B. 942/41 for Ecc #1 to Aux #4

76F3095 247 4-53

F.B. 742 PG. 24



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Date	Indexed E. C. Johnson

F. B. 345 Pg. 25

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
SUN AUX #1

Note: all distances shown were measured @ 68° Temp. and level corrections not needed or shown

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76F3085 247 4-55

F.B. 942 Pg. 22

TRIANGULATION STATION SUN-AUX #1
~DESCRIPTIONS~

This station is in Los Angeles County, & in the City of Long Beach. West of the Cerritos Channel & North of Seaside Blvd. 100 yards ± South of the second Edison Steam plant Bldg from the west. & 58' west of the East line of the second Edison co Steam plant Bldg prod to the South 0.17M East of the main entrance to the Long Beach Edison Co. Steam plant. 102.2 Southwesterly from the center of the U.P. offset oil well #468

Station Mark: set a standard 4" Brass cap Triangulation station in conc Flush.
Brass cap is inscribed L.A. County Survey Control System Triangulation Station SUN AUX #1 1954 Set by L.A County Surveyor R.E. 63

Sub Surface Mark: None

RM#1 set a LET in Easterly Cor of 3' conc Fire wall. dist 97.26
RM#2 set a LET in westerly cor of 3' conc Fire wall dist 98.075
RM#3 set a LET in North end of the East conc headwall of conc culvert dist 63.31

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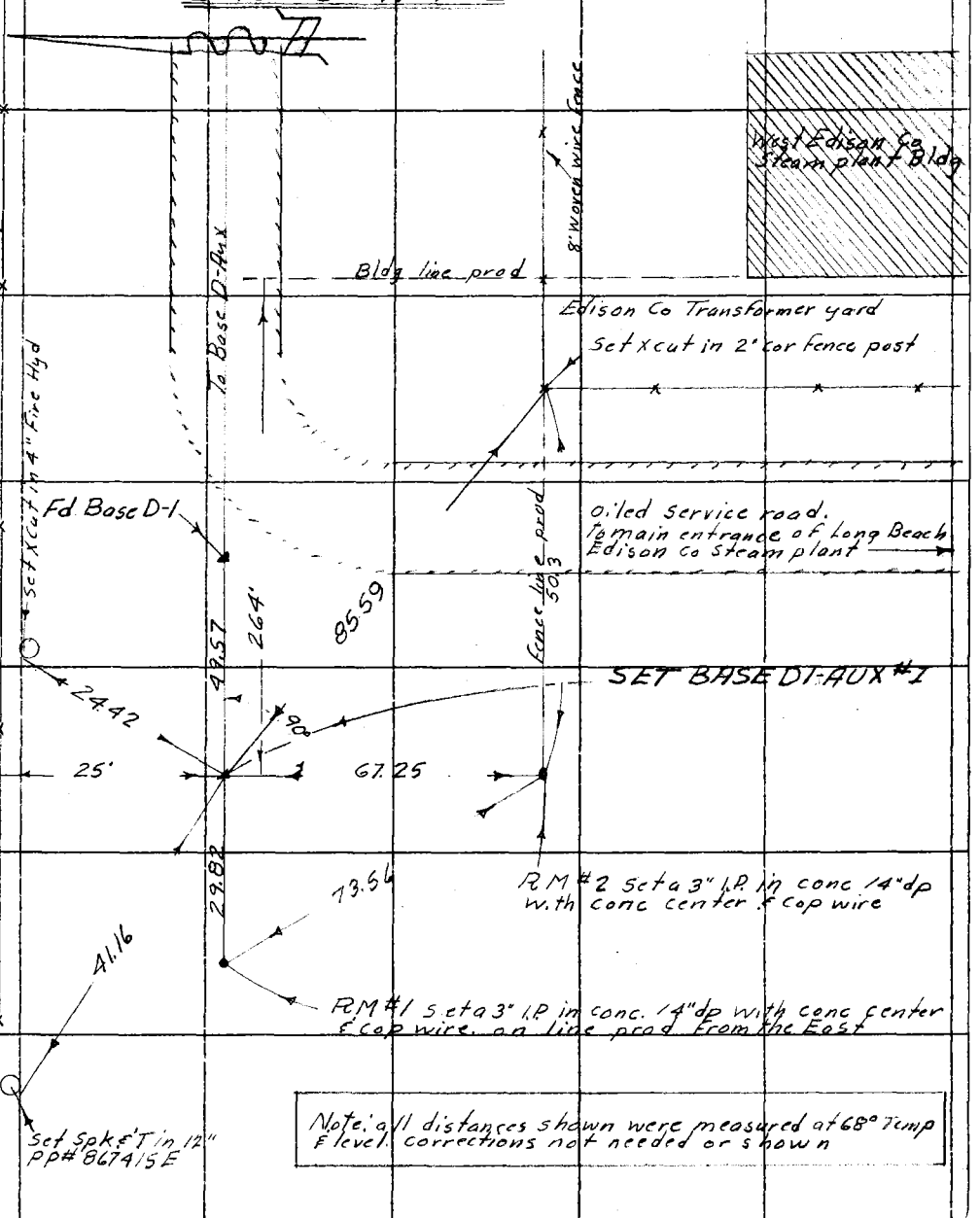
Date	Indexed A. C. Johnson

F.B. 242 PG. 27

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
BASE D1-AUX #1



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ENGINEERING BLDG.

76FSOBS 247 4-53

F. B. 742 PG. 28

TRIANGULATION STATION BASE D1-AUX #1
~DESCRIPTONS~

This station is in Los Angeles County & in the City of Long Beach west of the Cerritos Channel & North of Seaside Blvd. on the North Side of the Long Beach Edison Co Steam Plant. 25' South of a 8' woven wire fence. & 264' west of the west Edison Co steam plant Bldg line prod to the North & 85.99 Northwest of a fence cor enclosing the Edison Co transformer yard. 24.42 Southwest of a x cut in the west side of a 4" Fire Hyd. & 41.16 South East of a spk & tin in a 12" P.P. #867415E & 49.57 west on line prod from Base D-1

Station Mark: set a standard 4" Brass cap triangulation station in conc Flush.

Brass cap is inscribed L.A. County Survey Control System. Triangulation station BASE D1-AUX #1 1954 set by L.A. County Surveyor R.E. 63

Sub Surface Mark: None

RM #1 set a 3" I.P. in conc 12" dp. conc center & cap wire on line prod from the East. dist 29.82

RM #2 set a 3" I.P. in conc 12" dp. conc center & cap wire on 90° to the line to the East. dist 67.25 This Mon is 50.3 west of fence cor on fence line prod to the west

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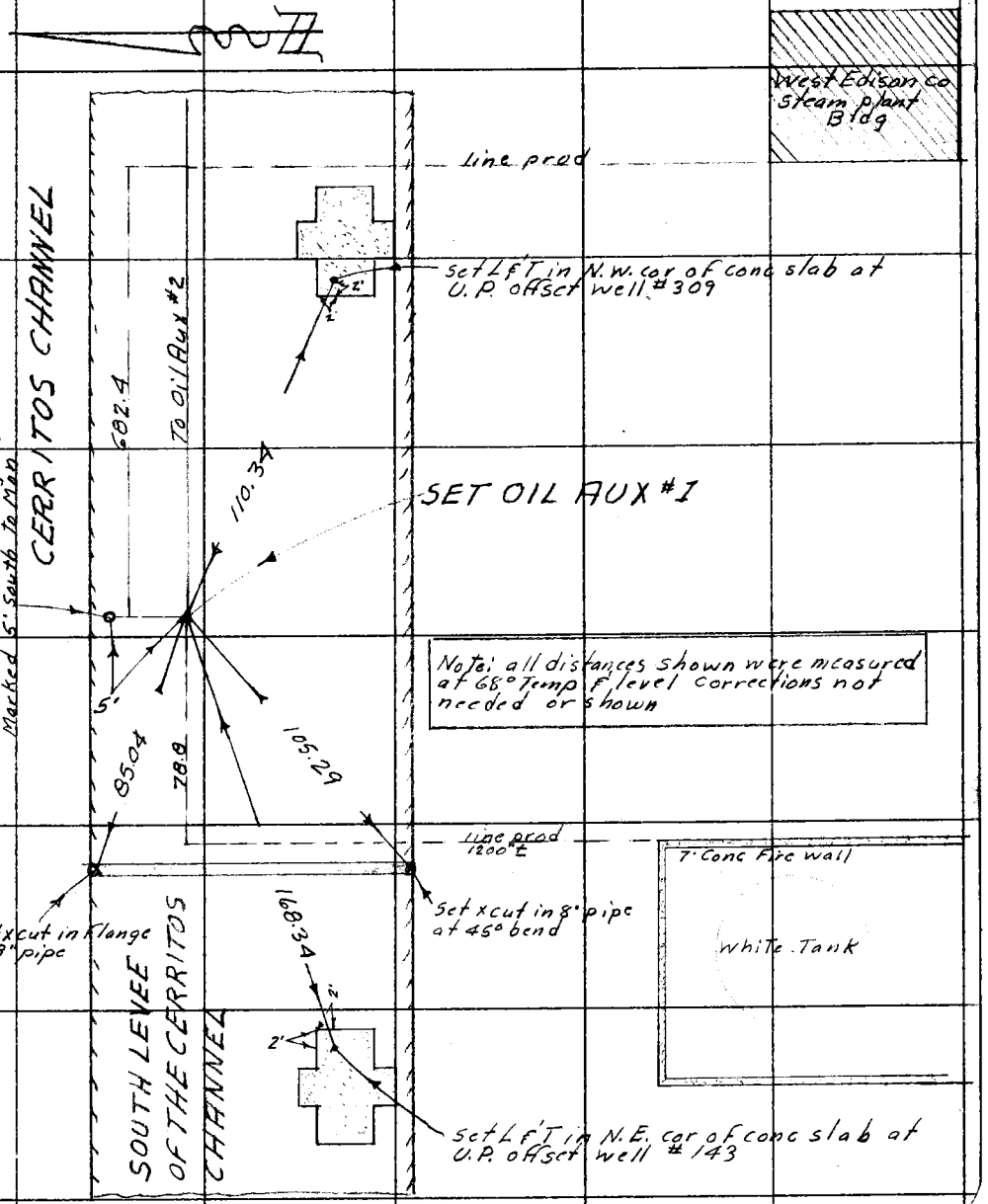
Office Work	Surveyed by M.A. VanDeren
Checked	Notes Van Date 7-13-54
Date	Indexed R. C. Johnson

F. B. 942 PG. 27

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
OIL AUX #1



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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3098 247 4-58

F.B. 992 Pg. 30

TRANGULATION STATON OIL AUX #1

~DESCRIPTIONS~

This station is in Los Angeles County, in the City of Long Beach and is north of the Long Beach Edison Co Steam plant. & is on top of the South levee of the Cerritos Channel. 682.4 west of the west line of the of the west Edison Co steam plant Bldg produced to the North. 110.94 N.W. From a L&T set in the N.W. cor of a conc slab at U.P. Offset well #309 168.34 N.E. From a L&T set in the N.E. cor of a conc slab at U.P. offset well #143 & 5' South of a 3" I.P. set in conc, & is 4' high & Stamped 5' South to Mon.

Station Mark: set a standard 4" Brass Cap Triangulation Station in conc 24" dp. Brass cap is inscribed L.A. County Survey Control System. Triangulation Station Oil Aux #1 1954 set by L.A. County Surveyor R.E. 63

Sub Surface Mark: None

RM #1 set a L&T in N.W. Cor of conc slab at U.P. offset oil well # 309 dist 110.34

RM #2 set a L&T in N.E. cor of conc slab at U.P. offset oil well # 143 dist 168.34

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.
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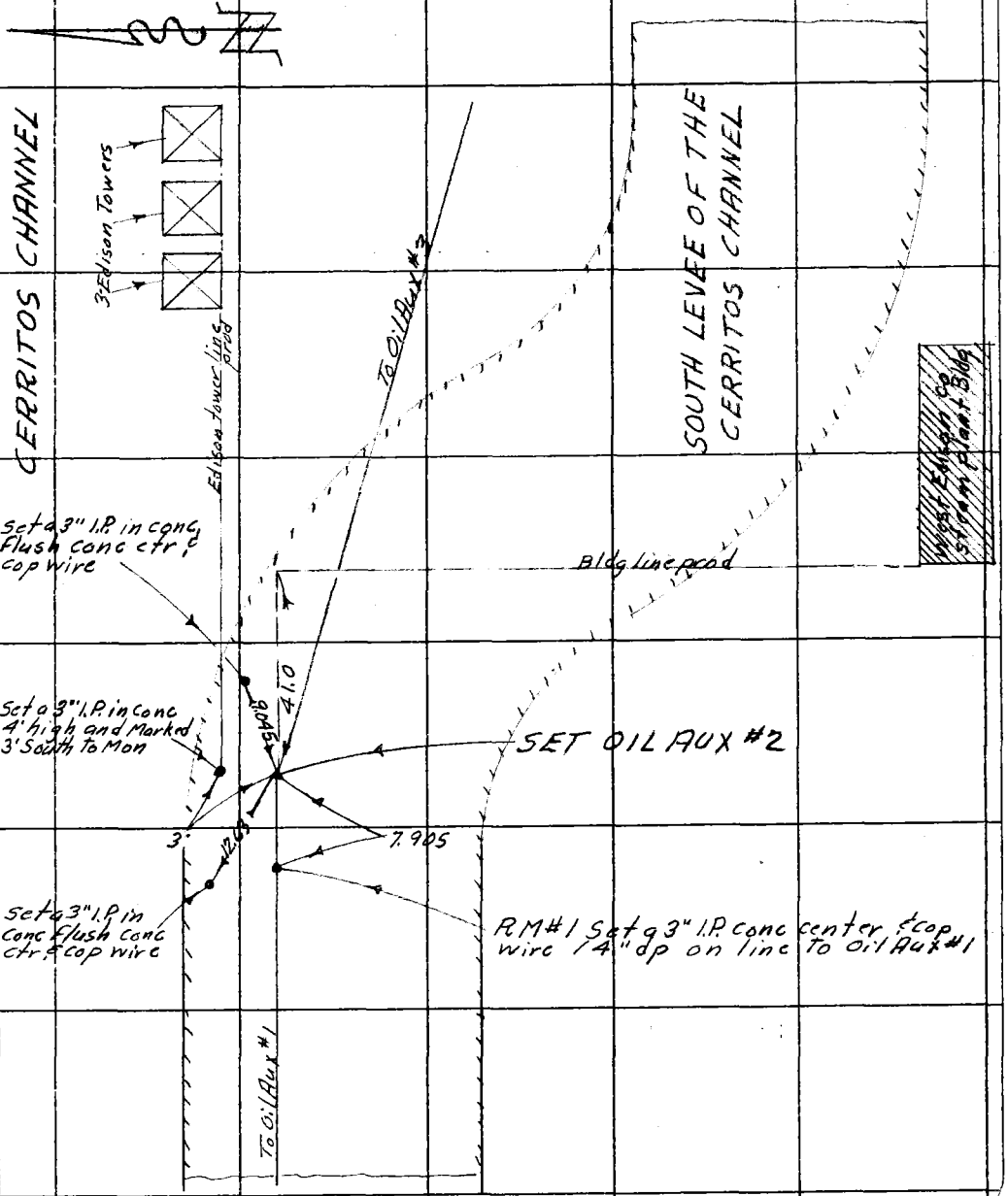
Office Work	Surveyed by M.A. Van Deren
Checked	Notes Van Date 4-13-54
Date	Indexed C. Johnson

F.B. 942 PG. 31

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
OIL 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 4-53

F.B. 942 Pg. 32

TRIANGULATION STATION OIL AUX #2
~DESCRIPTIONS~

This station is in Los Angeles County & in the City of Long Beach & is on top of the South levee of the Cerritos Channel & is 41' West of the West Long Beach Edison Co Steam plant Bldg line produced to the North & is 3' South of of the South line of three Edison towers prod to the west. is 3' South of a 3" I.P set in conc 4' high & marked 3' South to Mon.

STATION MARK: set a standard 4" Brass Cap Triangulation Station in conc. Flush. Brass Cap is inscribed L.A. County Survey Control System. Triangulation Station Oil Aux #2 1954 set by L.A. County Surveyor R.E. 63

Sub Surface Mark: none

R.M. #1 set a 3" I.P. in conc. with a conc center & cop wire 14" dp on line To Oil Aux #1

RM #2 Set a 3" I.P. in Conc with conc center & cop wire Flush. 9.045 S.W. To Mon

RM #3 Set a 3" I.P. in conc with a conc center & cop wire Flush. 12.63 S.E. To Mon

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

Notes Ck'd by		Survey of Geodetic Control	F.B. 942 Pg. 33
Map No.		W. O. 2201 Tape No. 2145 St'd. 68 °F	
Office Work		Surveyed by M.A. Van Deren	
Checked		Notes Van Date 4-14-54	
Date		Indexed C. Johnson	

North Levee of the Cerritos Channel

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
OIL AUX #3

TURNING BASIN

CERRITOS CHANNEL JUNCTION

ENTRANCE CHANNEL

CHANNEL #2

CHANNEL #3

Set L.S.T. in 2.6 x 2.5 Conc anchor to oil well # U.P. lease. well # DG-Sec-3

To Oil Aux #4

To Oil Aux #1

3.29

36.12

25.76

25.62

Set Spk & T in 12" Guard post

SET OIL AUX #3

5.5

12.03

2'

WEST LEVEE OF THE CERRITOS CHANNEL

Set L.S.T. in conc slab of U.P. lease oil well # DG-Sec-3

Note: all distances shown were measured at 68° Temp & level corrections not needed or shown

Note: Any Additions or Changes on This Sheet Must 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. 742 Pg. 34

TRIANGULATION STATION OIL AUX #3
~DESCRIPTIONS~

This station is in Los Angeles County & in the City of Long Beach. & is on the west levee of the Cerritos Channel 5.5 North of the West line of the conc slab prod North of U.P. lease oil well #D6-Sec3. & is North of the Long Beach Edisen Co Steam Plant & East of the Southern California Edison Co power line R/w

STATION MARK: Set a Standard 4" Brass Cap Triangulation station in conc 14" dp. Brass Cap is inscribed L.A. County Survey Control System Triangulation station Oil Aux #3 1954 Set by L.A. County Surveyor R.E. 63

Sub Surface Mark: None

RM #1 set a L & T in the N.E. cor of a conc slab To U.P. lease oil well #D6-Sec3, dist 12.03 - S.E. From Mon

RM #2 set a L & T in the N.W. Cor of a Conc slab to U.P. lease Oil well #D6-Sec3. dist 7.46 S.E. from Mon

RM #3 set a L & T in the S.W. Cor of a 2.5 x 2.5 Conc anchor dist 32.99 N.W. From Mon

RM #4 set a L & T in the S.W. Cor of a 2.5 x 2.5 Conc anchor dist 36.12 N.E. From Mon

RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.
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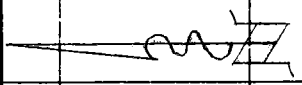
Notes Ck'd by	Survey of Geodetic Control
Map No.	W. O. 03XXX Tape No. 0145 St'd. 68 °F
Office Work	Surveyed by M. A. VanDercen
Checked	Notes Van Date 4-16-54
Date	Indexed

F. B. 942 PG. 35

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
OIL AUX # 4



CERRITOS CHANNEL TURNING BASIN

Oil Tank

S.C. Edison Co Towers

S.C. Edison Co P/W

3000'±

at angle point in pipe

300'±

S.C. Edison Co P/W

332

18" H.P. Gas line

at angle point in pipe

West line of S. Cal Edison Co P/W

38.6

43.5

17.8

10'

5'

SET OIL AUX #4

To Oil Aux #3

East Property line of the U.P.R.R. Property, parcel #83 per The Frances Bates Survey.

Set 3" I.A. in conc. 4' high & stamped S. South to Mon

25'±

12" P.P. No Number

To Oil Aux #2

To Oil Aux #1

300'±

NORTH LEVEE OF THE CERRITOS CHANNEL

U.P. offset oil well # 259

Note: Any Additions or Changes on This Sheet Must 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. 942 Pg. 36

TRIANGULATION STATION OIL AUX #4
~DESCRIPTIONS~

This Station is in Los Angeles County & in the City of Long Beach. & is on the North Levee of the Cerritos Channel. this station was set on East Property line prod of the U.P.R.R. property parcel #83 per Frances Bates Survey. & is on the west property line prod of the S. C. Edison Co R/W. & is 10' S.W. of a line prod from the South side of U.P. oAset oil well #259 on line with the south side of a 12" P.P. No #. & is 17.8 N.W from a line prod of the East side of the center Edison Co tower on line with the West side of a White Gas tank to the North of the tower. & is 5' South of a 3" I.P set in conc 4' high & Marked 5' South to Mon.

Station Mark: Set a Standard 4" Brass Cap Triangulation station in Conc 14" dp. Brass Cap is inscribed L.A. County Survey Control System Triangulation Station Oil Aux #4 - 1954 Set by L.A. County Surveyor

Sub Surface Mark: none

Note: No RM set for this Station by request of the U.P. lease Foreman

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

Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 0301.00 Tape 101 Std 84 °F
Office Work	Surveyed by W. D. BAY
Checked	Notes W. D. B. Date 8-14-58
Date	Indexed C. Johnson 8-28-58

F. B. 942 Pg. 37

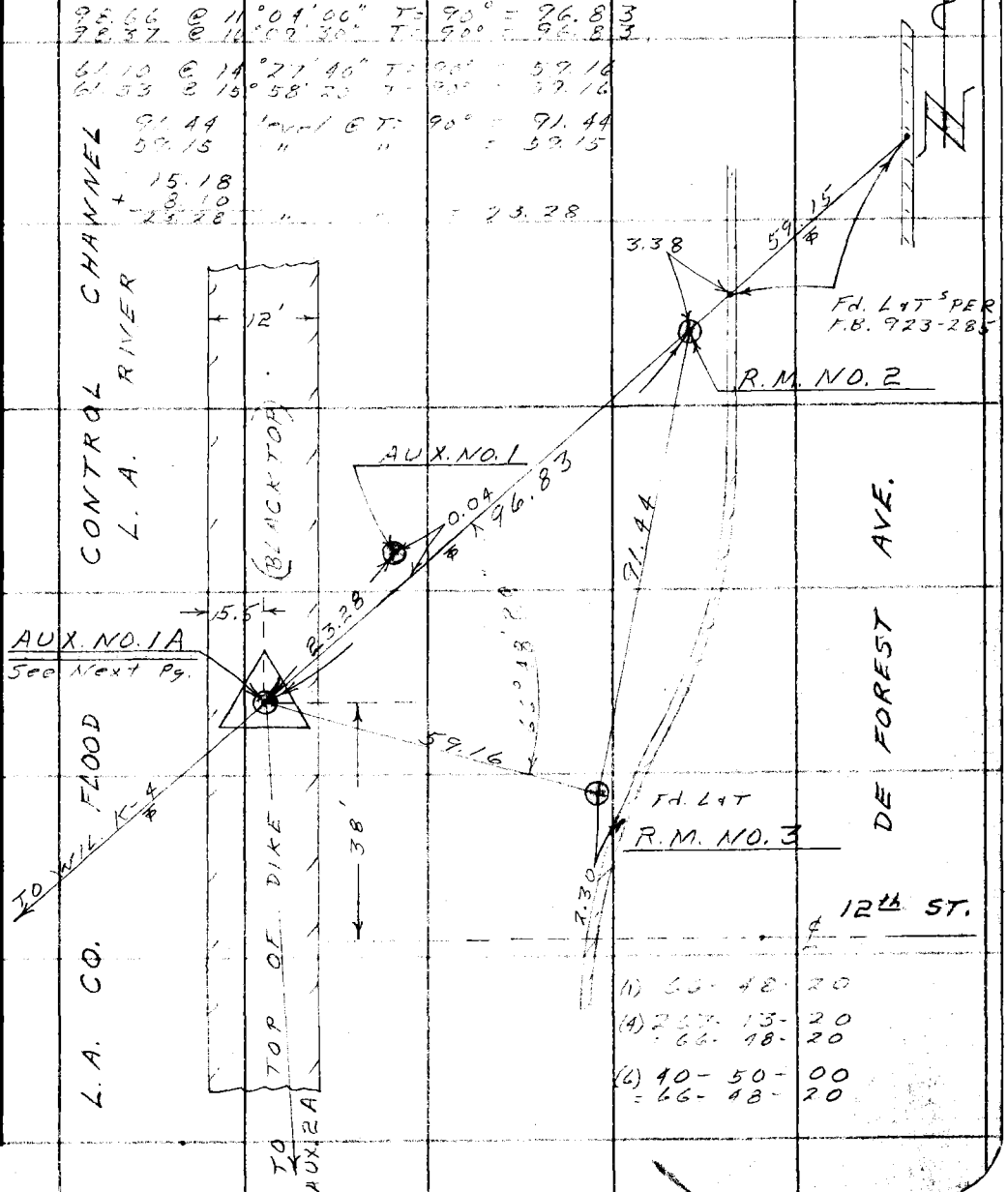
L.A. CO. SURVEY CONTROL SYSTEM
TRIANGULATION STATION
WILMINGTON K-4, AUX. NO. 1A

98.66 @ 11°04'00" T = 90° = 96.83
98.37 @ 10°09'30" T = 90° = 96.83

61.10 @ 14°27'40" T = 90° = 59.16
61.53 @ 15°58'20" T = 90° = 59.16

91.44 level @ T = 90° = 91.44
59.15 " " = 59.15

15.18
+ 8.10
23.28 " " = 23.28



(1) 66-48-20
(4) 267-13-20
= 66-48-20
(6) 40-50-00
= 66-48-20

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

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LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.
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76F309S S&E #247 1-56

F. B. 947 Pg. 38

— DESCRIPTIONS —

WILMINGTON K-4, AUX. NO. 1A

THIS STATION IS IN THE CITY OF LONG BEACH, ON TOP OF THE EAST DIKE OF THE L.A. RIVER, AND 38' N. OF THE ℄ PROD. OF 12th ST. FROM THE EAST.

STATION MARK: SET A STD. 4" BRASS L.A. CO. TRIANG. STATION CAP ON A 2" IRON PIPE, FLUSH, IN CONC. AND STAMPED "WILMINGTON K-4, AUX. 1A 1953, CO. ENG., R.E. 5869".

REFERENCE MARK NO. 2: FD. A STD. 4" BRASS R.M. CAP IN CONC. STAMPED "WIL. K-4, AUX. 1, R.M. NO 2, 1953" DN. 15" BELOW C.B. GRADE. PER F.B. 923-285.

REFERENCE MARK NO. 3: FD. A 2" ST. WITH CONC. CORE & COPPER DISC CENTER IN CONC., DN. 12" BELOW C.B. GRADE. PER F.B. 923-285.

AUX. NO. 1: FD. A STD. 4" BRASS TRIANGULATION STA. CAP IN CONC. STAMPED "W.K. K-4 1952, AUX. NO. 1, COUNTY SURVEYOR, R.E. 63", DN. 7 FT. IN SIDE OF DIKE.

PER F.B. 923-278, 285.

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700 Los Angeles County Engineering Bldg.

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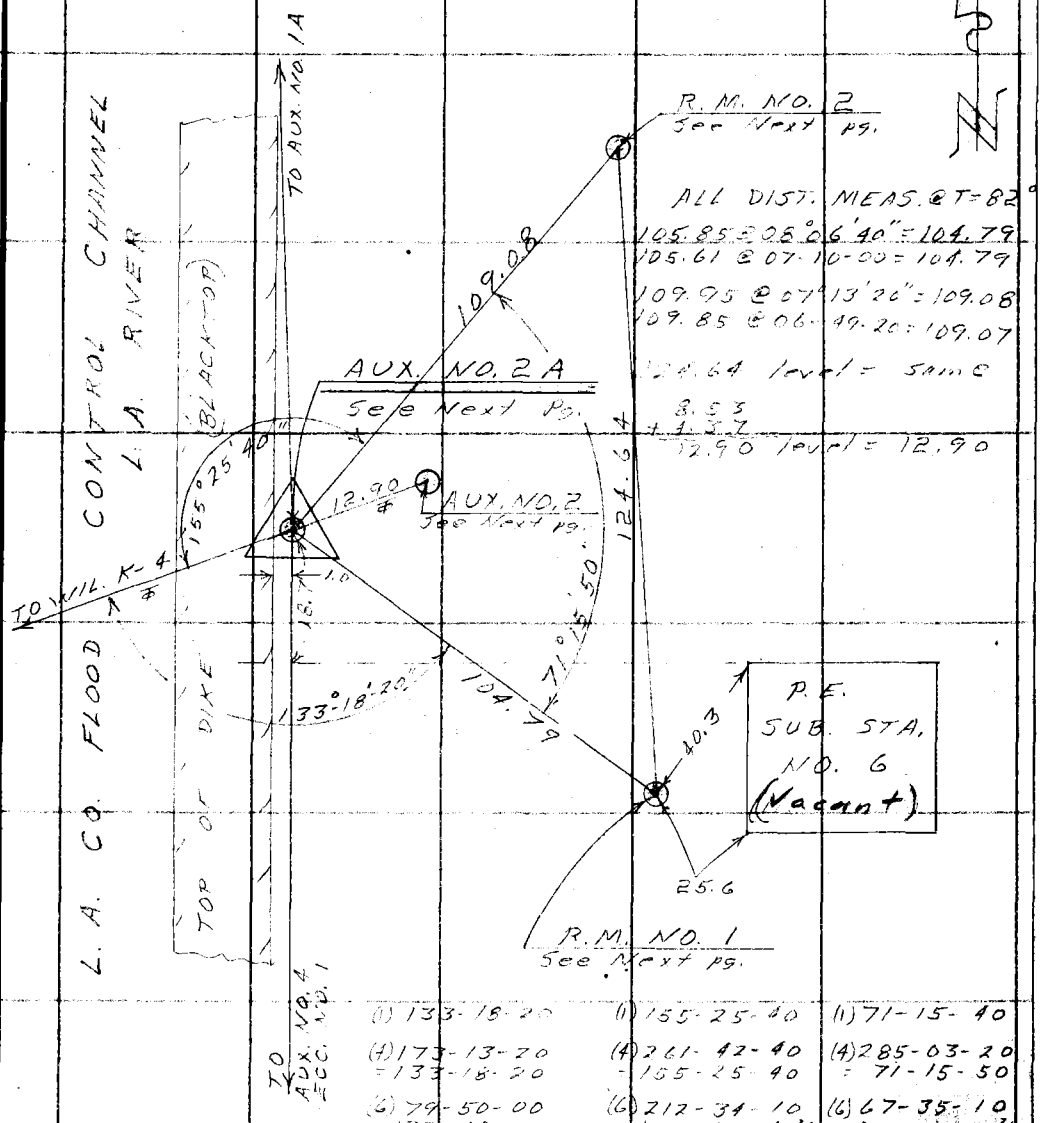
Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 2301.00 Tape 101 Std 84 °F
Office Work	Surveyed by W. D. BAY
Checked	Notes W. D. B. Date 8-14-58
Date	Indexed K. G. Johnson

F. B. 947 Pg. 39

L. A. CO. SURVEY CONTROL SYSTEM
TRIANGULATION STATION
WILMINGTON K-4, AUX. NO 2A



(1) 133-18-20	(1) 155-25-40	(1) 71-15-40
(4) 173-13-20 = 133-18-20	(4) 261-42-40 - 155-25-40	(4) 285-03-20 = 71-15-50
(6) 79-50-00 = 133-18-20	(6) 212-34-10 = 155-25-41 1/3	(6) 67-35-10 = 71-15-51 1/3

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700 Los Angeles County Engineering Bldg.

76F3095 S&E #247 1-56

F. B. 947 PG. 40

— DESCRIPTIONS —

WILMINGTON K-4, AUX. NO. 2A

THIS STATION IS IN THE CITY OF LONG BEACH, ON THE EAST DIKE OF THE L.A. RIVER, 343' S. OF THE S. SIDE OF THE NEW FREEWAY RIVER CROSSING AT 7TH ST. AND 1.0' E. OF THE E. EDGE OF DIKE PVMT.

STATION MARK: SET A STD. 4" BRASS L.A. CO. TRIANGULATION STATION CAP ON A 2" IRON PIPE IN CONC. STAMPED "WILMINGTON K-4 AUX. 2A 1958 L.A. CO. ENGR. R.E. 5869", DN. 18" BELOW PVMT. ON DIKE.

REFERENCE MARK NO. 1: FD. A 2" I.P. CONC. COR. & COPPER PIN CENTER [illegible] PER F.B. [illegible]

REFERENCE MARK NO. 2: FD. A STD. 4" BRASS R.M. CAP IN CONC. STAMPED "WIL. K-4, AUX. 2, 1953, R.M. NO. 2, COUNTY SURVEYOR, R.E. 63" DN. 10". PER F.B. 923-280, 286.

AUX. NO. 2: FOUND A STD. 4" BRASS L.A. CO. TRIANGULATION STATION CAP IN CONC. STAMPED "WIL. K-4 1952, AUX. NO. 2, COUNTY SURVEYOR, R.E. 63", DN. 5 FT. IN SIDE OF DIKE.

PER F.B. 923-280, 286.

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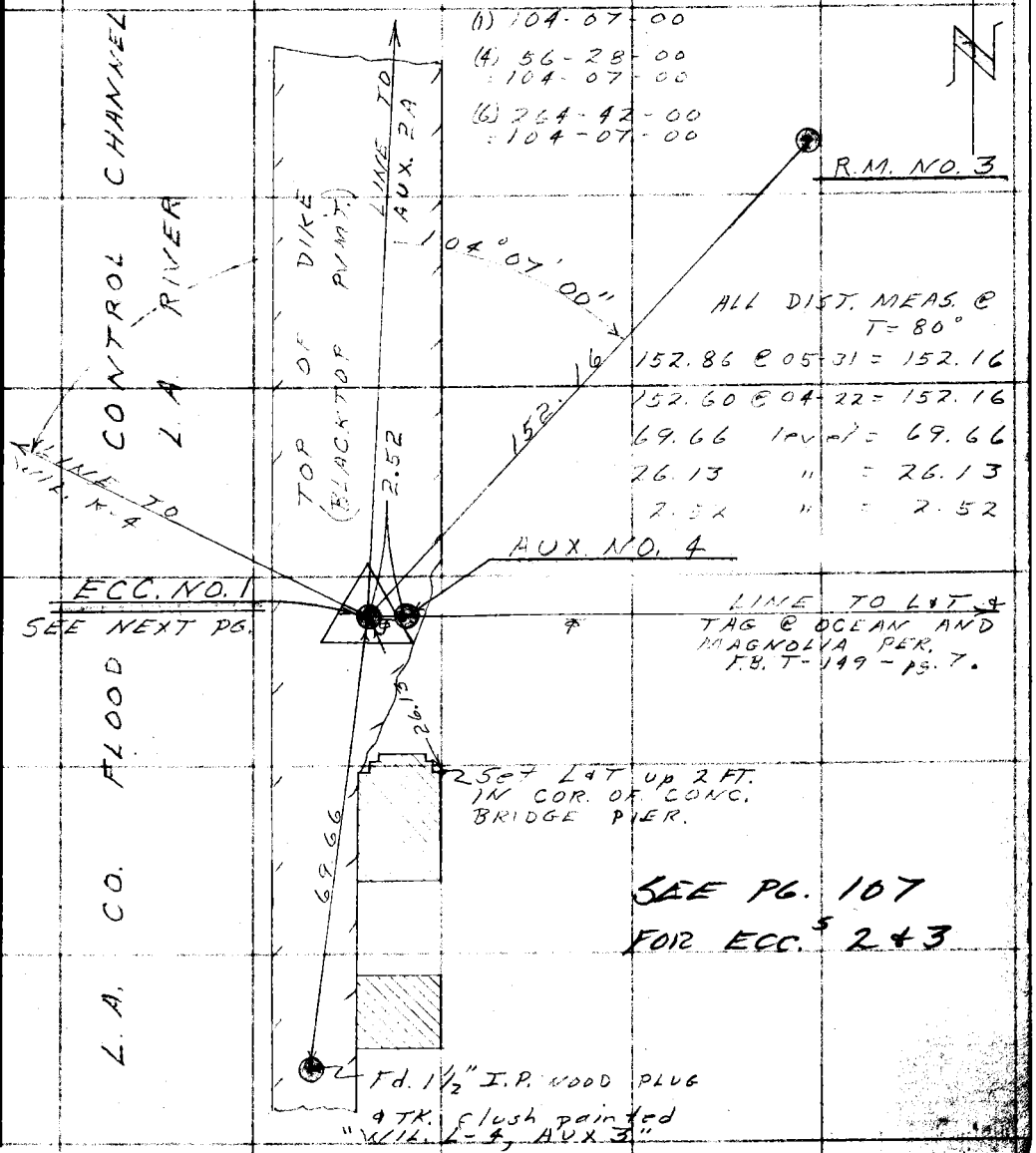
Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN0301.00 Tape 101 Std 84 °F
Office Work	Surveyed by W. D. BAX
Checked	Notes W. D. B. Date 8-14-58
Date	Indexed [illegible]

F. B. 942 Pg. 41

L. A. CO. SURVEY CONTROL SYSTEM
TRIANGULATION STATION
WILMINGTON K-4 AUX 4, ECC. NO. 1



SEE PG. 107 FOR ECC. 243

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

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PLEASE RETURN TO
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700 Los Angeles County Engineering Bldg.

76F309S S&E #247 1-56

F. B. 947 Pg. 47

— DESCRIPTIONS —

WILMINGTON K-4, AUX 4, ECC. NO. 1

THIS STATION IS IN THE CITY OF LONG BEACH ON TOP OF THE EAST DIKE OF THE L. A. RIVER AT OCEAN AVE. 24.5 M. OF THE N. EDGE OF THE MOST NLY. BRIDGE PIER AND 11.5' E. OF THE W. EDGE OF PVMT. ON DIKE.

STATION MARK: SET A STD. 4" BRASS L. A. CO. TRIANGULATION STATION CAP ON A 2" IRON PIPE IN CONC. AND STAMPED "WILMINGTON K-4, AUX. 4, ECC. 1, 1958, L. A. CO. ENGR. R. E. 5869" FLUSH.

REFERENCE MARK NO. 3: Fd. A STD. 4" BRASS R. M. CAP IN CONC. STAMPED "WIL. K-4, AUX. 3, R. M. NO. 3, 1953, R. E. 64" DN. 18".

PER F.B. 923-287.

AUX. NO. 4: FD. A 2" IRON PIPE, CONC. CORE & NAIL DN. 12".

PER. F.B. 942-23.

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700 Los Angeles County Engineering Bldg.
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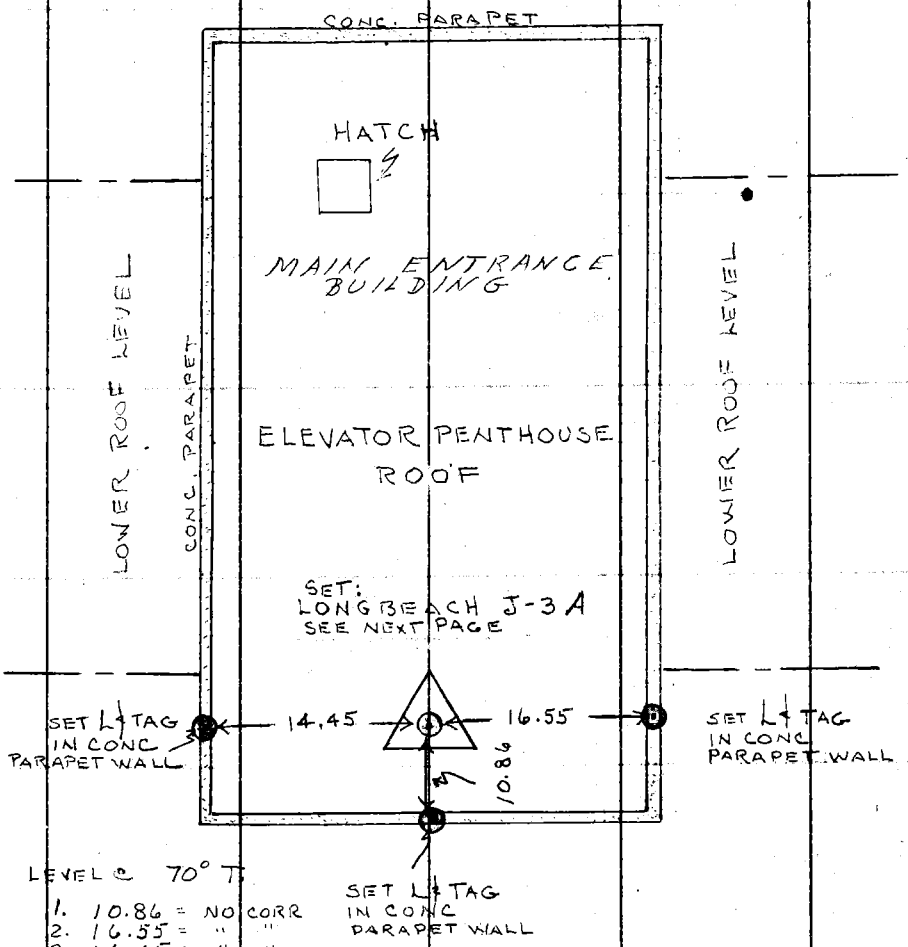
Notes Ck'd by	Survey of LONG BEACH SUBSIDENCE
Map No.	JN 030101 Tape 0119 Std 68 °F
Office Work	Surveyed by W. D. BAY
Checked	Notes R. D. SMITH Date 9-3-58
Date	Indexed C. Johnson 10-22-58

F. B. 942 PG. 45

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LONG BEACH J-3A



LEVEL @ 70° T

1. 10.86 = NO CORR
2. 16.55 = " "
3. 14.45 = " "

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

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3093 S&E #247 1-56

F. B. 942 PG. 46

DESCRIPTIONS

LONG BEACH J-3 A

THIS TRIANGULATION STATION IS IN THE COUNTY OF LOS ANGELES IN THE LONG BEACH AREA. ON TOP OF THE HIGHEST PORTION OF THE VETERENS ADMINISTRATION HOSPITAL 10.86' NORTH OF THE SOUTH PARAPET WALL AND 16.55' WEST OF THE EAST PARAPET WALL AND 14.45 EAST OF THE WEST WALL.

TO REACH THIS STATION. FROM INTERSECTION OF BELLFLOWER BLVD & 7TH STREET, 0.15 MI. NORTHERLY ON BELLFLOWER BLVD. TO THE GATE ENTRANCE OF VETERENS ADMINISTRATION HOSPITAL ON THE EAST SIDE OF THE STREET, THENCE TO THE HOSPITAL FIRE STATION FOR THE KEY TO THE PENTHOUSE & INSTRUCTIONS REGARDING PROCEEDURE & HOW TO REACH.

STATION MARK: SET STD 4" BRASS TRIANGULATION CAP IN THE REINFORCED CONC ROOF FLUSH AND STAMPED. LONG BEACH J-3A 1958 L.A. CO. ENGR. R.E. 5869

REFERENCE MARKS: NONE SET

SURFACE TIES SET AS SHOWN ON SKETCH

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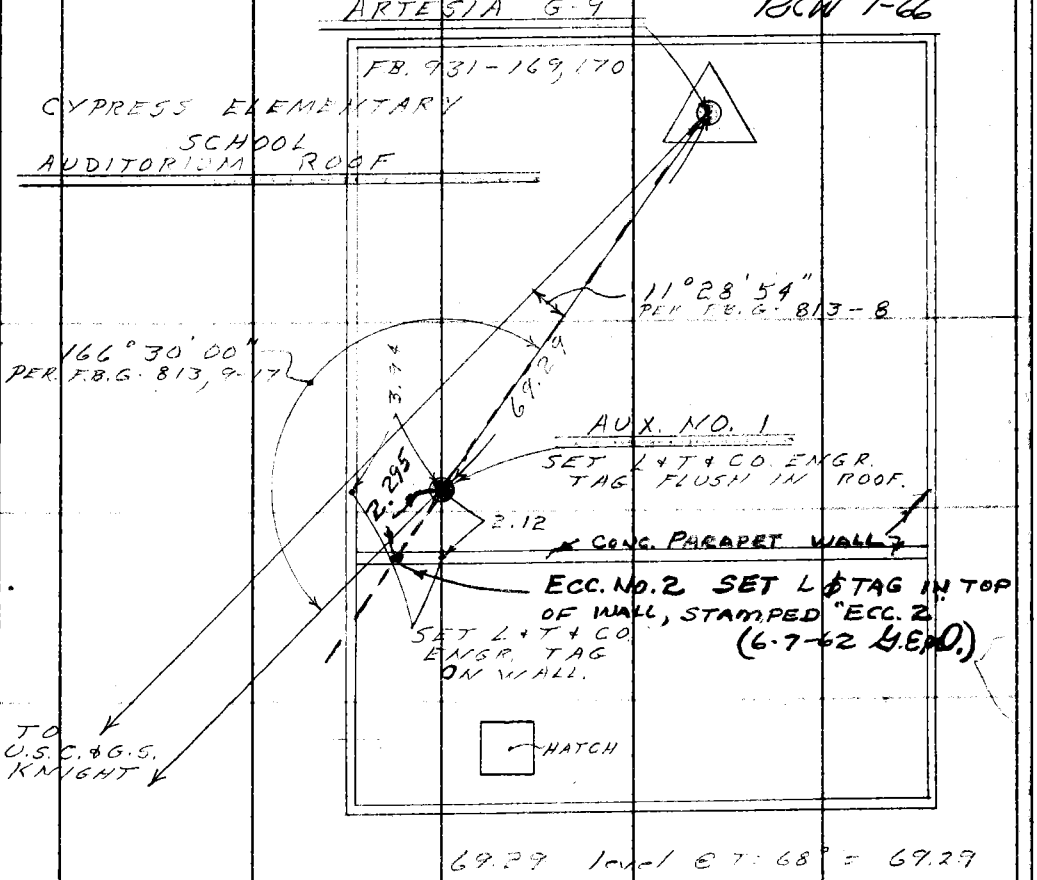
Notes Ck'd by	Survey of LONG BEACH SUBSIDENCE
Map No.	JN 0301.01 Tape 0119 Std 68 °F
Office Work	Surveyed by W. D. BAY
~~Checked~~ Indexed - B	Notes W. D. B. Date
Date	Indexed E. C. Johnson 1-8-59

F. B. 942 PG. 47

L. A. CO. SURVEY CONTROL SYSTEM
TRIANGULATION STATION
ARTESIA G-9 AUX. NO. 1

This station is located on Lincoln ave (extension of Carson) in Orange Co. @ Grindl Avenue on the so. side of Lincoln.
RCW 1-66



69.29 level @ T: 68° = 69.29

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

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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76F309S S&E #247 1-56

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

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F. B. 942 Pg. 48

Notes Ck'd by	Survey of LONG BEACH SUBSIDENCE
Map No.	JNO301.01 Tape 101 Std 84 °F
Office Work	Surveyed by H.R. STOCK
Checked	Notes R.D. SMITH Date 10-16-58
Date	Indexed C. Johnson

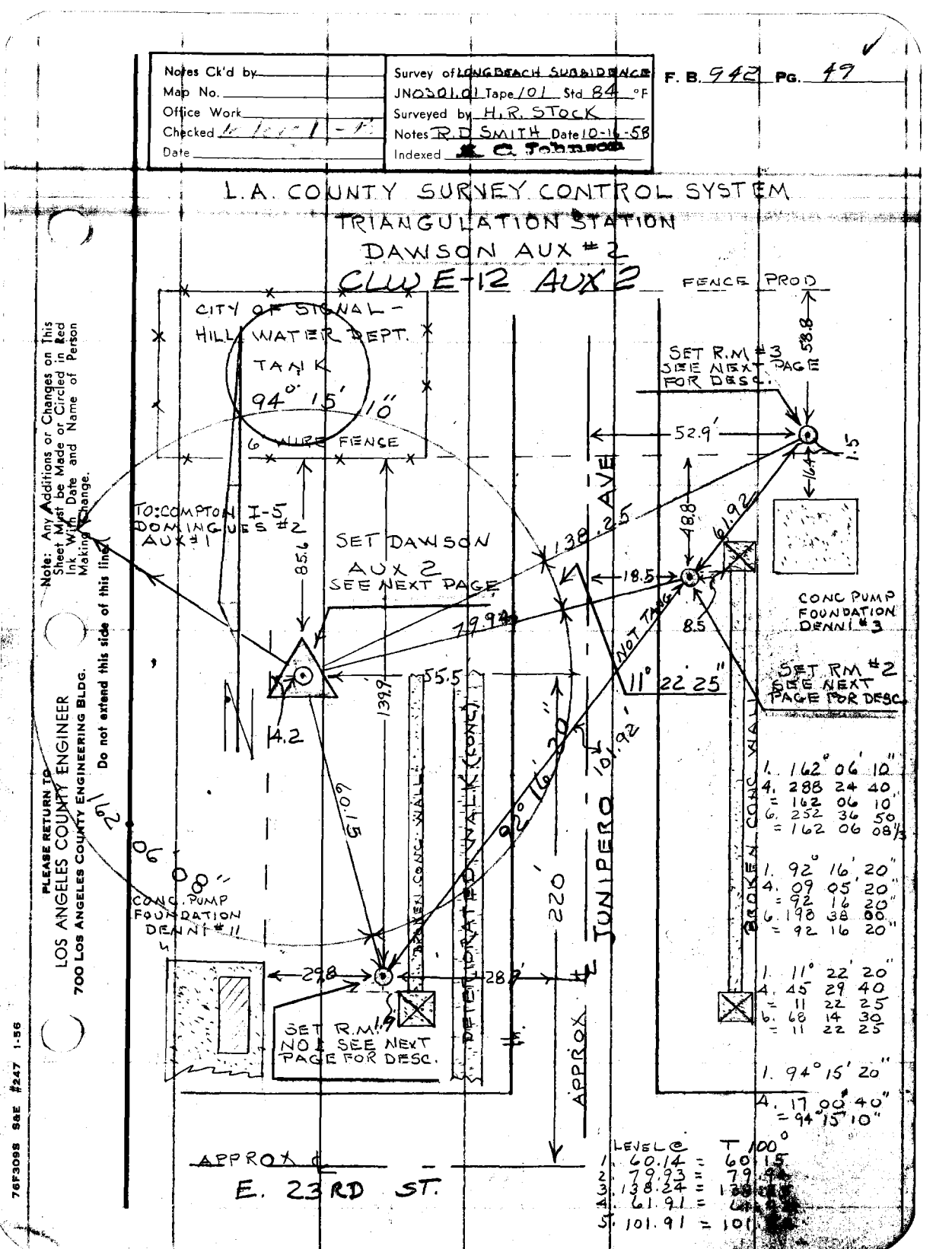
F. B. 942 PG. 49

L.A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

DAWSON AUX #2

CLWE-12 AUX 2



1. 162° 06' 10"
4. 288 24 40
= 162 06 10
6. 252 36 50
= 162 06 08½

1. 92° 16' 20"
4. 09 05 20
= 92 16 20
6. 190 38 00
= 92 16 20

1. 11° 22' 20"
4. 45 29 40
= 11 22 25
6. 68 14 30
= 11 22 25

1. 94° 15' 20"
4. 17 00 40
= 94 15 10

LEVEL @	T 100°
1. 60.14	= 60.15
2. 79.93	= 79.9
3. 138.24	= 138.2
4. 61.91	= 61.9
5. 101.91	= 101.9

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 1-56

F. B. 942 PG. 50

DESCRIPTIONS
DAWSON AUX #2
CLEARWATER E-12

THIS TRIANGULATION STATION IS IN L.A. COUNTY, AT THE SUMMIT, AND ON THE WEST SIDE OF JUNIPERO AVE ON THE RICHFIELD OIL CO. LEASE. 220' FT ± NORTH OF THE CENTER LINE INTERSECTION OF JUNIPERO & E. 23RD ST. AND 55.5FT. WEST OF THE CENTER LINE OF JUNIPERO AVE. AND 85.6FT SOUTH OF A 6 WIRE FENCE AROUND THE SIGNAL HILL WATER DEPT. WATER TANK.

STATION MARK, SET A STD 4" BRASS TRIANGULATION CAP IN CONC., DN. 12" STAMPED DAWSON AUX #2 1958 LA. CO ENGR. R.E. 5869 DN. 0"

REFERENCE MARK NO. 1. SET A STD 4" BRASS REFERENCE CAP IN CONC. DN. 12" STAMPED DAWSON AUX #2 R.M. NO. 1. 1958 L.A. CO ENGR. R.E. 5869

REFERENCE MARK NO 2. SAME AS R.M. #1. EXCEPT DN. 12" AND STAMPED R.M. NO 2.

REFERENCE MARK NO 3. SAME AS R.M. #1 EXCEPT DN. 10" AND STAMPED R.M. NO 3

NOTE
A 50ft. tower is required for occupation of this Aux.

1-12-70
T-58
1 60.15 @ level = 60.15'
2 79.99 @ level = 79.94'
5 101.96 @ level = 101.95'

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LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

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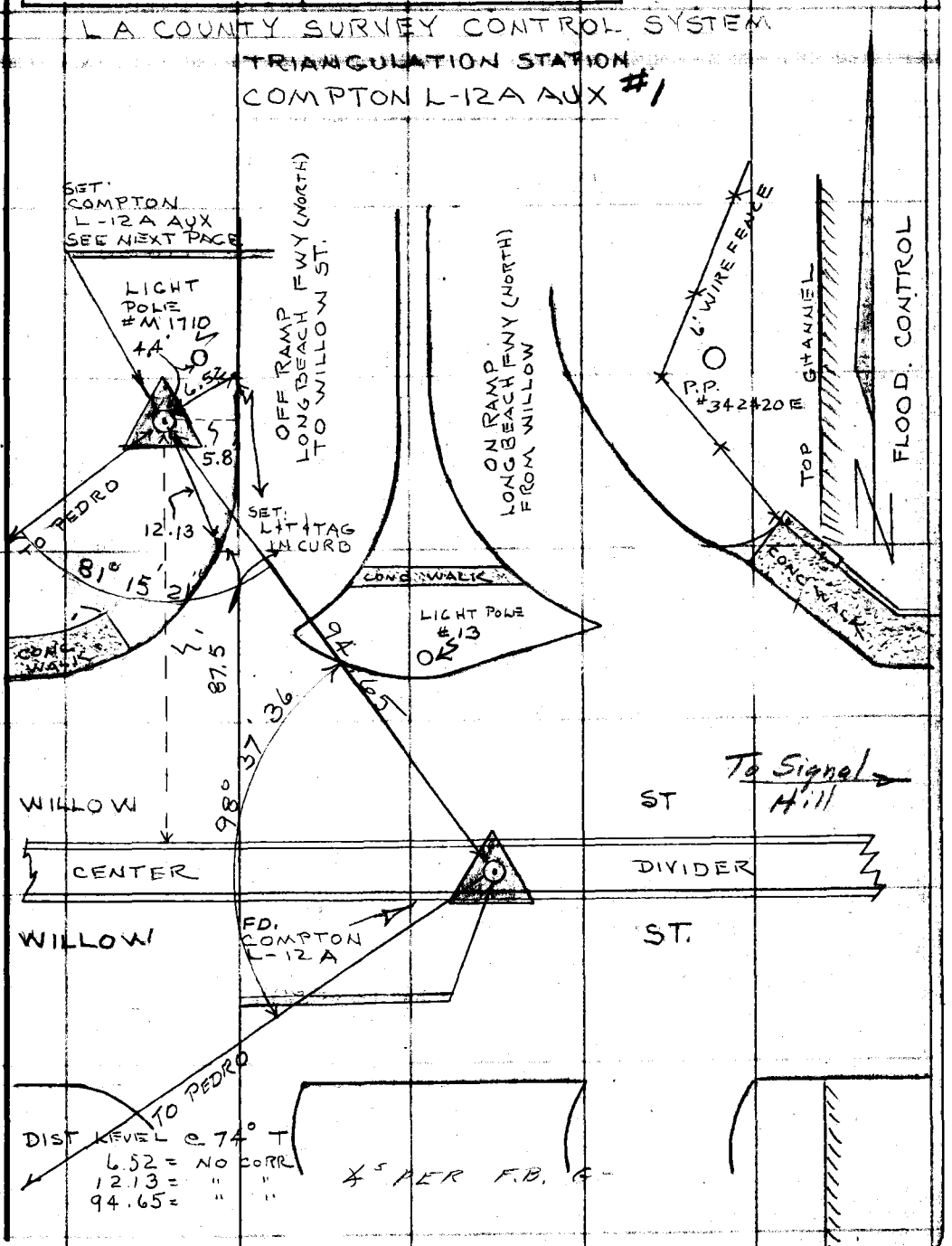
Notes Ck'd by	Survey of LONG BEACH SUBSIDENCE
Map No.	JN0301.01 Tape 0119 Std 68 °F
Office Work	Surveyed by W. D. BAY
Checked Leveled - B	Notes R. D. SMITH Date 12-12-58
Date 1-12-59	C. Johnson Indexed

F. B. 942 PG. 51

L A COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

COMPTON L-12A AUX #1



Note: Any Additions 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 1-56

F. B. 942 Pg. 52

DESCRIPTIONS
COMPTON L-12A
AUX.

THIS STATION IS IN LOS ANGELES COUNTY IN THE CITY OF LONGBEACH ON WILLOW ST. WEST OF THE L.A. CO. FLOOD CONTROL CHANNEL AND 5.8 FT WEST OF THE WEST CURB OF THE OFF RAMP OF THE LONGBEACH FWY. (NORTH) TO WILLOW ST. AND 87.5 FT NORTH OF THE NORTH CURB OF THE CENTER DIVIDER OF WILLOW STREET.

STATION MARK: SET A STD 4" BRASS TRIANGULATION CAP IN CONC FLUSH WITH THE GROUND SOFTIME AND STAMPED: "COMPTON L-12A AUX, 1958, [illegible] 5867."

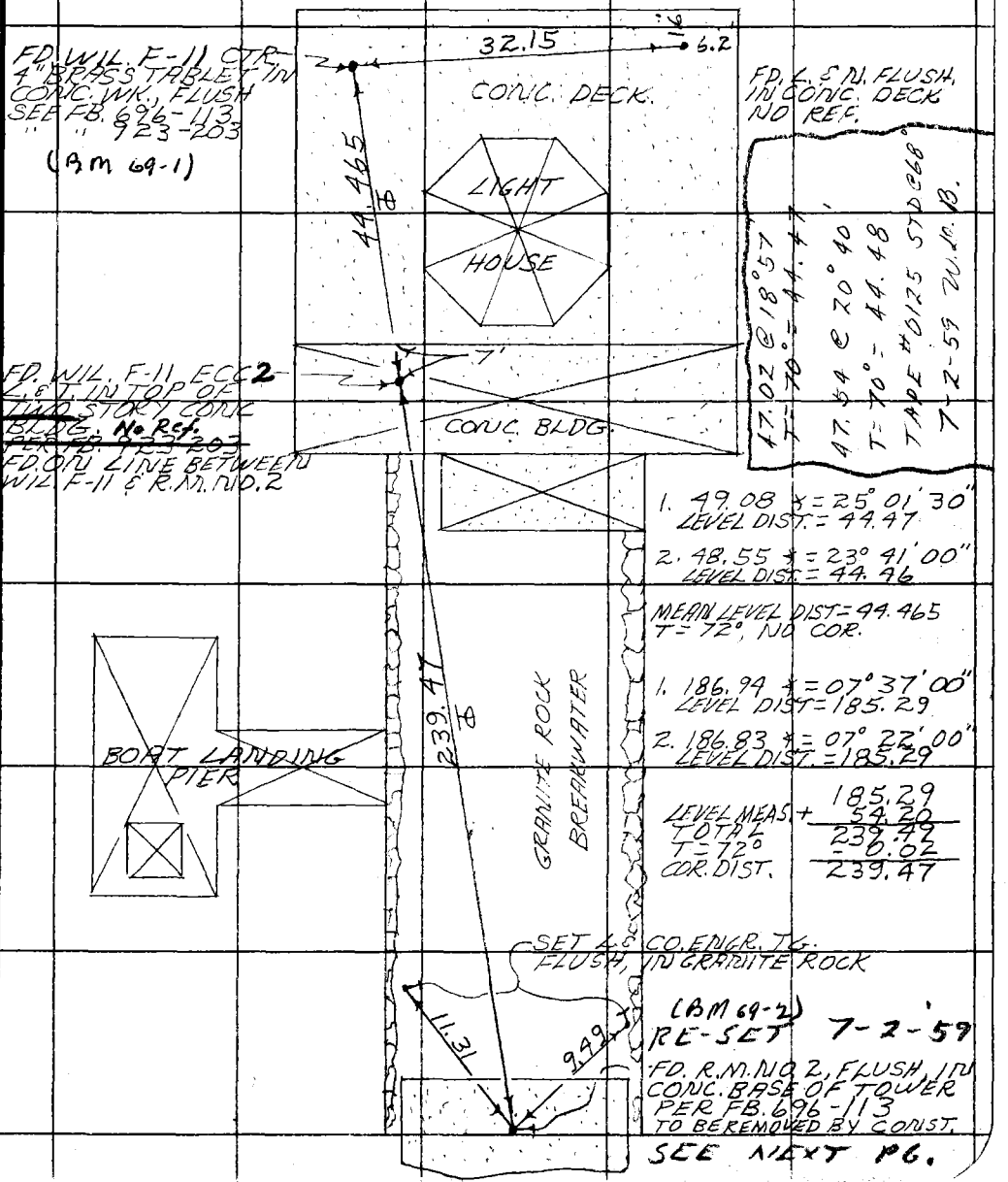
REFERENCE MARK: NONE SET

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 SUBSIDENCE
Map No.	JN 0301.41 Tape 142 Std 84 °F
Office Work	Surveyed by W.D.BAYS
Checked	Notes RICHARDS Date 9-58
Date	Indexed A.C. Johnson 12-12-58

F.B. 942 Pg. 53

Z.A COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
WILMINGTON F-11
ADDITIONAL TIES



SEE NEXT PG.

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

Do not extend notes this side of this line.

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

76F3095 CE #247 3-57

F.B. 942 Pg. 54

WILMINGTON F-11
DESCRIPTIONS

THIS STATION IS IN L.A. COUNTY, IN THE LONG BEACH HARBOR AREA, AT THE MAIN LIGHT-HOUSE ON THE BREAKWATER, WEST END, IN THE CONC. DECK; N.W. CORNER. PER F.B. 696-113

STATION MARK: FD. A STANDARD 4" BRASS DISC (TRIANGULATION STATION) FLUSH IN CONC. DECK OF LIGHTHOUSE STAMPED "WIL. F-11 1936 - R.E. 2177".

REFERENCE MARK NO. 1: HAS BEEN REMOVED

REFERENCE MARK NO. 2: FOUND A STANDARD 4" BRASS REFERENCE DISC. [illegible] IN CONC. AT BASE OF TOWER, STAMPED "WILMINGTON F-11 1937, R.M. 2, R.E. 2177." RE-SET 7-2-59

WILMINGTON F-11 ECC. 2: FOUND A LEAD AND TACK ON LINE BETWEEN F-11 CTR., AND R.M. 2, ON TOP OF A TWO STORY CONC. BLDG. ~~PER~~ F.B. 923-203

R.M. NO. 2: FD. R.M. NO. 2, AS SHOWN ABOVE, DN. 15" IN A 7" DIA. HOLE AS SAVED FOR US BY THE COAST GUARD.

SET A STD 4" BRASS R.M. CAP IN CONC. DIRECTLY ABOVE R.M. NO. 2 AND IN THE SAME HORIZONTAL POSITION AND FLUSH WITH THE NEW CONC. DECK AND STAMPED "WILMINGTON F-11, R.M. NO. 2, RE-SET 1959, L.A. CO. ENGR. R.E. 5869".

I DO NOT BELIEVE THAT THE L+T SHOWN ABOVE IS WIL. F-11 ECC. DUE TO ITS BEING ON A 2 STORY BLDG. AND THE DIST. BEING 0.22 ± LONG. W. D. BAY 7-2-59

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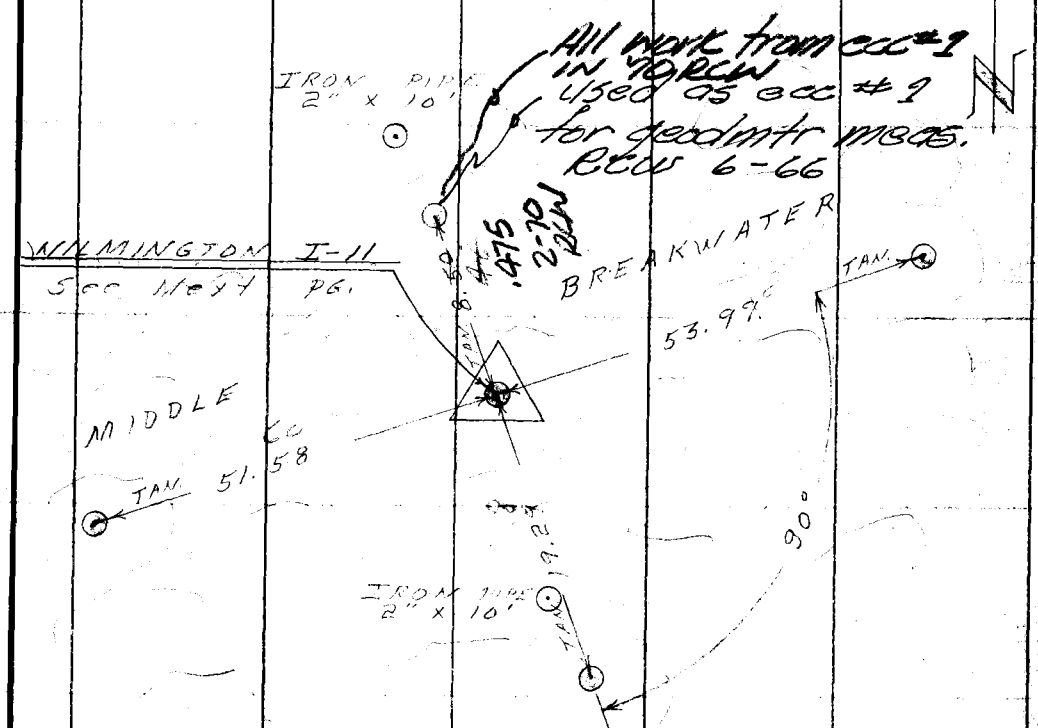
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of LONG BEACH SUBSIDENCE
Map No.	JN 0301.01 Tape 0119 Std 68 °F
Office Work	Surveyed by W. D. BAY
Checked	Notes W. D. B. Date 8-29-58
Date	Indexed A. C. Johnson

F. B. 942 PG. 55

L.A. CO. SURVEY CONTROL SYSTEM
TRIANGULATION STATION
WILMINGTON I-11
U.S.C. & G.S. MID WEST



ALL DIST. MEAS. LEVEL @ T=70°

51.58 =	SAME
19.29 =	"
53.99 =	"
8.50 =	"

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

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

76F309S S&E #247 1-56

F. B. 942 Pg. 56

— DESCRIPTIONS —

WILMINGTON I-11

MID WEST

THIS STATION IS ON THE MIDDLE BREAKWATER OF THE LONG BEACH HARBOR, 808' WLY. FROM THE SIGN MARKING THE EXPLOSIVE ANCHORAGE "E-1"

STATION MARK: FOUND A STD. 4" BRASS U.S.C. & G.S. TRIANGULATION STATION CAP FLUSH, IN A LARGE GRANITE BOULDER AND STAMPED "MID WEST, 1948" STAMPED "I-11" WITH 3-16" DIES N.W. OF CTR. OF CAP.

REFERENCE MARKS: NONE

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

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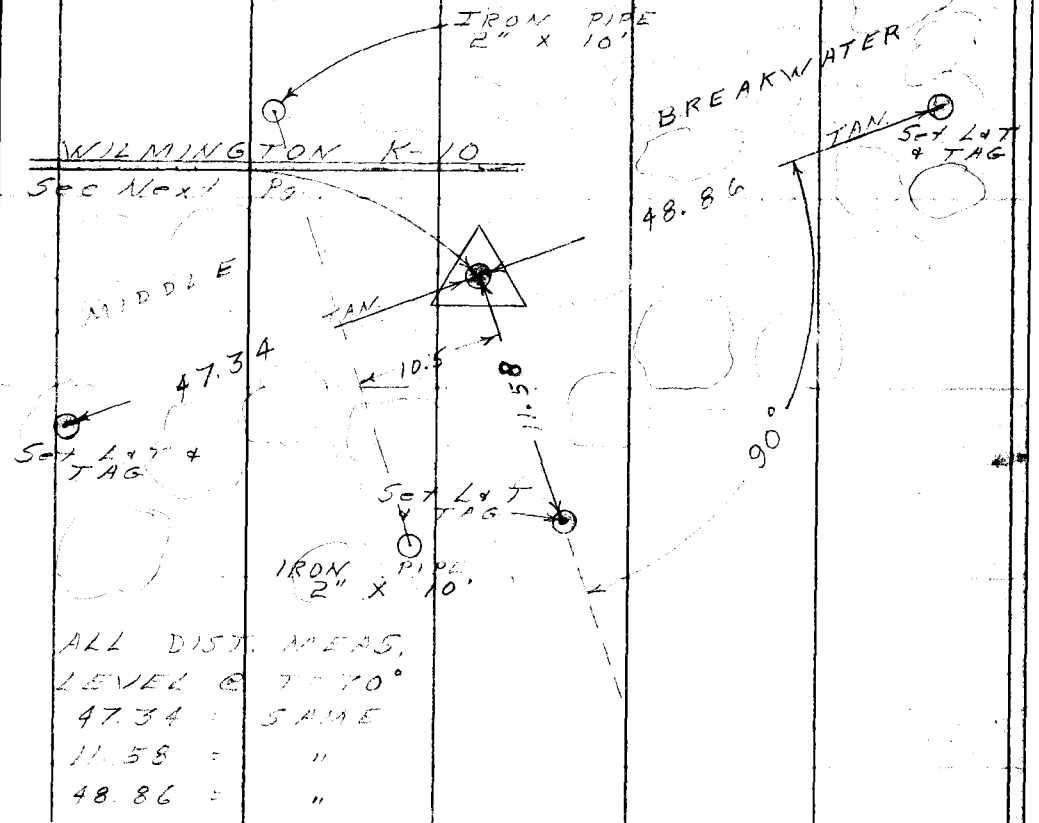
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of LONG BEACH SUBSIDENCE
Map No.	JN0301.01 Tape 0119 Std 68 °F
Office Work	Surveyed by W. D. BAY
Checked	Notes W. D. B. Date 8-29-58
Date	Indexed H. C. Johnson

F. B. 742 Pg. 57

L. A. CO. SURVEY CONTROL SYSTEM
TRIANGULATION STATION
WILMINGTON K-10
U.S.C.&G.S. "MID EAST"



ALL DIST. MEAS. LEVEL @ 70°

47.34 : SAME
11.55 : "
48.86 : "

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.

76F3095 S&E #247 1-56

F. B. 942 PG. 58

— DESCRIPTION —

WILMINGTON K-10

MID EAST

THIS STATION IS ON THE MIDDLE BREAKWATER OF THE LONG BEACH HARBOR, 85' WLY. FROM THE SIGN MARKING EXPLOSIVE ANCHORAGE "E-2"

STATION MARK: FOUND A STD. 4" BRASS U.S.C.&G.S. TRIANGULATION STATION CAP, FLUSH, IN A LARGE GRANITE BOULDER STAMPED "MID EAST, 1948". STAMPED "K.10" WITH 3.16" DIES N.W. OF CTR OF CAP.

REFERENCE MARKS: NONE

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LOS ANGELES COUNTY ENGINEER
700 Los Angeles County Engineering Bldg.

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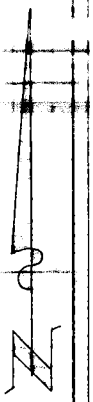
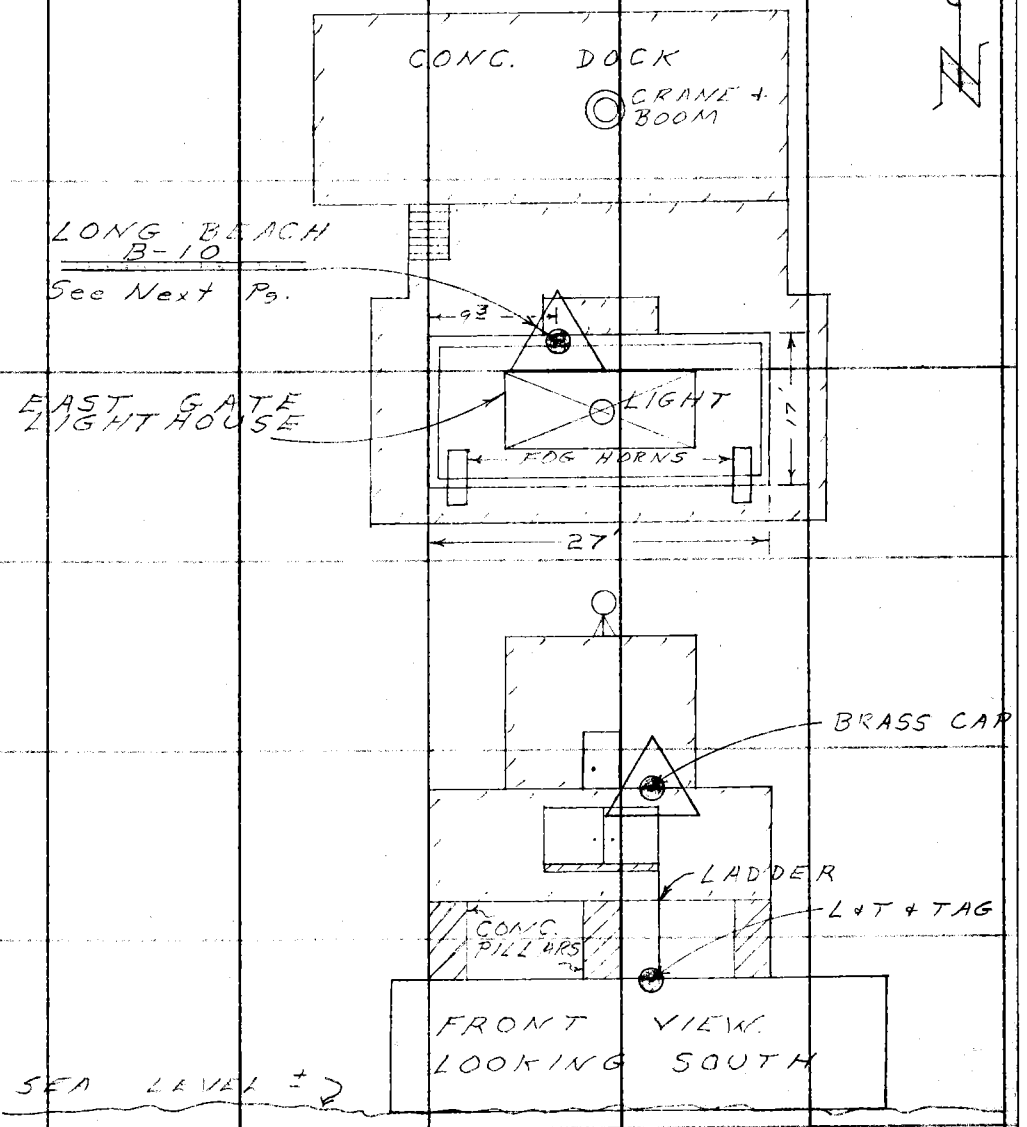
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of LONG BEACH SUBSIDENCE
Map No.	JN 0301.0 / Tape 0119 Std 68 °F
Office Work	Surveyed by W. D. BAY
Checked	Notes W. D. B Date 8-29-58
Date	Indexed C. Johnson

F. B. 942 Pg. 59

L. A. CO. SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LONG BEACH B-10
EAST GATE





Note: Any Additions 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 6-56

F. B. 942 Pg. 60

~ DESCRIPTIONS ~
LONG BEACH B-10
EAST GATE

THIS STATION IS IN THE LONG BEACH HARBOR, ON THE EAST END OF THE MIDDLE BREAKWATER, ON TOP OF THE OUTSIDE WALL OF THE SECOND FLOOR ON THE NORTH SIDE OF THE EAST GATE LIGHT-HOUSE.

STATION MARK: SET A STD. 4" BRASS L.A. CO. TRIANGULATION STATION CAP, FLUSH, AND STAMPED "LONG BEACH B-10, EAST GATE, 1958, L.A. CO. ENGR., R.E. 5869."

ALSO SET A LEAD AND TACK AND [illegible] STAMPED, L.A. CO. ENGR", IN THE SAME HORIZONTAL POSITION BUT DIRECTLY BELOW THE BRASS CAP, IN THE CONC. BASE OF THE LIGHTHOUSE WITH P.L.S. TIES, N.W. & N.E.

REFERENCE MARKS: NONE

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

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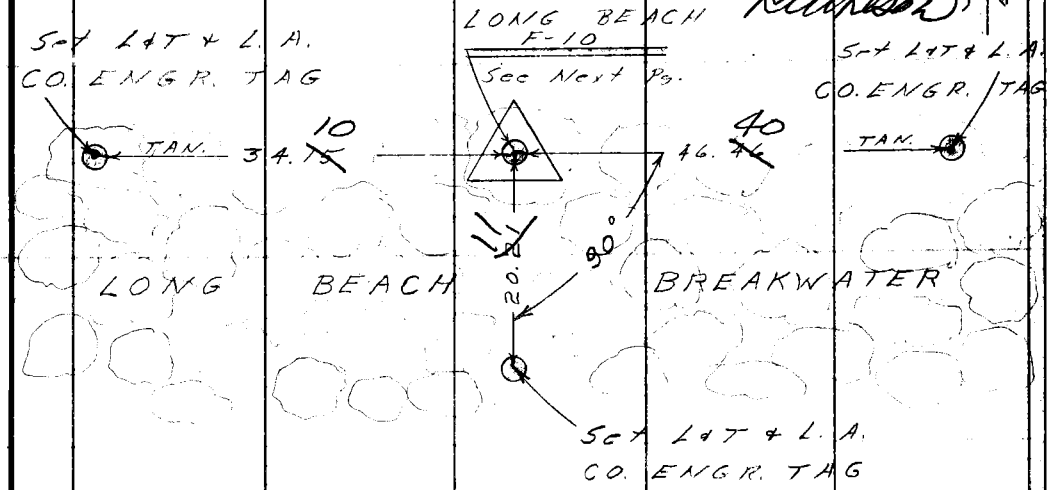
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of LONG BEACH SUBSIDENCE
Map No.	JN 0301.01 Tape 0119 Std 68 °F
Office Work	Surveyed by W. D. BAY
Checked	Notes: W. D. B. Date 8-25-58
Date	Indexed C. Johnson

F. B. 942 PG. 61

L. A. CO. SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LONG BEACH F-10

F10 RESET IN STEM HOLE
2-21-74 STAMPED "LONG BEACH
F10 RESET 1974 RE7078"
L.A. CO. ENGR. TRAV. STA. DISC.



ALL DIST. MEAS. LEVEL @ T = 70°

34.15	=	SAME
20.21	=	"
46.46	=	"

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.

76F309S S&E #247 1-56

F. B. 942 PG. 62

~ DESCRIPTION ~

LONG BEACH F-10

THIS STATION IS ON THE ~~SOUTH~~ NORTH EDGE OF THE LONG BEACH BREAKWATER, 3840' EAST OF THE SIGN MARKING EXPLOSIVE ANCHORAGE "E-3"

STATION MARK: SET A STD. 4" BRASS L.A. CO. TRIANGULATION STATION CAP IN CONC. FLUSH IN A LARGE GRANITE BOULDER AND STAMPED "LONG BEACH F-10, 1958, L.A. CO. ENGR. R.E. 5869".

REFERENCE MARKS: NONE

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700 Los Angeles County Engineering Bldg.

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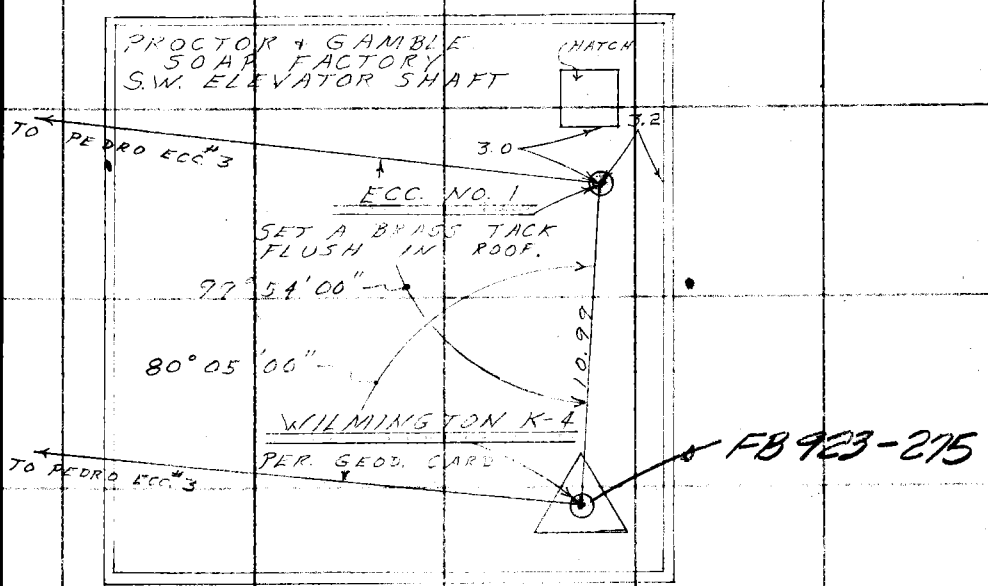
Notes Ck'd by	Survey of LONG BEACH SUBSIDENCE
Map No.	JN 0301.01 Tape 101 Std 84 °F
Office Work	Surveyed by W. D. B.
Checked	Notes W. D. B. Date 10-7-58
Date	Indexed A. C. Johnson 10-30-58

F. B. 942 PG. 63

L.A. CO. SURVEY CONTROL SYSTEM
TRIANGULATION STATION
WILMINGTON K-4
ECCENTRIC NO. 1

THIS STATION IS LOCATED AT THE P. & G. CO. PLANT ON 7TH ST WEST, WEST OF THE PORT OF LONG BEACH FRW.

RWilson 2-10-66



10.99 LEVEL @ T = 70° = 10.99

(1) 99-54-00
(4) 39-36-00
= 99-54-00

(1) 80° 05' 00"
(4) 320° 20' 00"
= 80-05-00

Note: Any Additions or Changes [illegible] Sheet Must be Made or Circled [illegible] Ink With Date and Name of [illegible] Making Change.

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LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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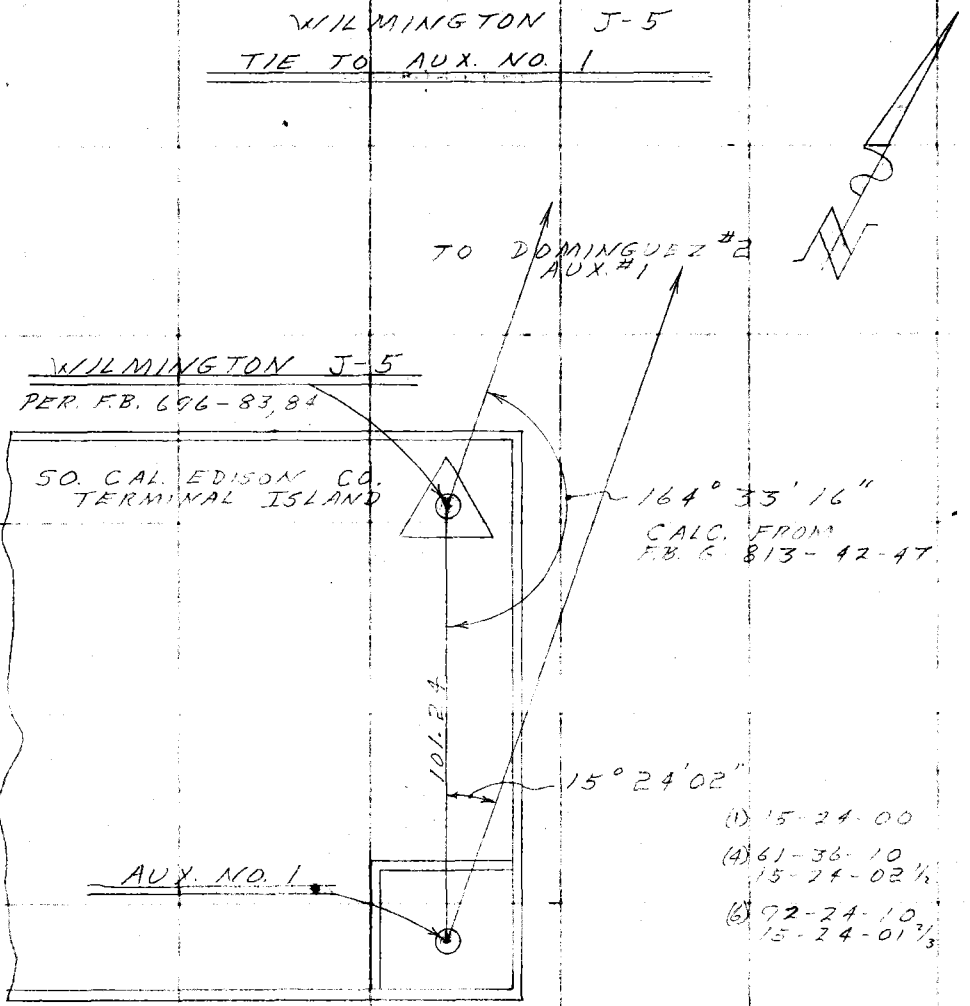
76F309S S&E #247 1-56

F. B. 942 PG. 64

WILMINGTON J-5
TIE TO AUX. NO. 1



(1) 15-24-00
(4) 61-36-10
15-24-02½
(6) 92-24-10
15-24-01⅔

102.70 @ 09°36'00", T=54° = 101.24
102.34 @ 08°19'00", " = 101.24

LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

PLEASE RETURN TO

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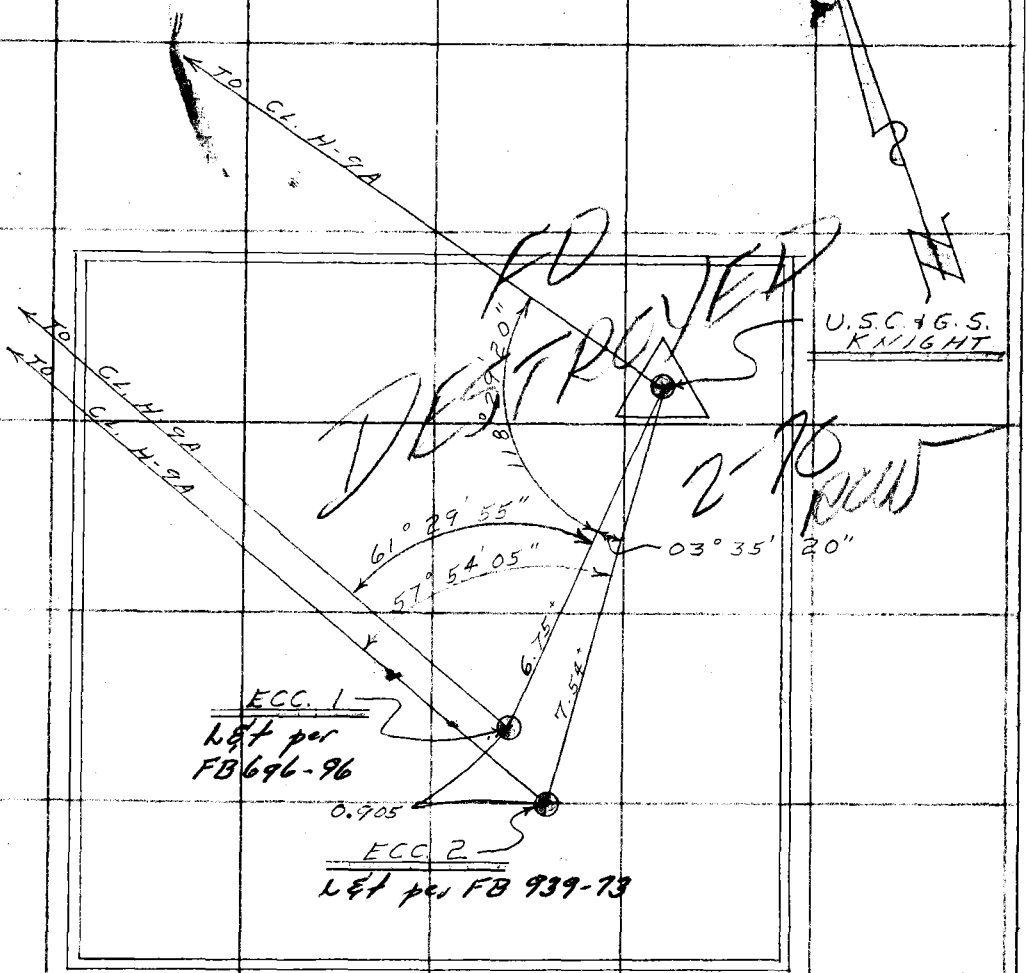
Notes Ck'd by	Survey of LAND SURFACE SUBSIDENCE
Map No.	JN 0301.01 Tape 0119 Std 68 °F
Office Work	Surveyed by W. D. Y.
Checked	Notes W. D. B. Date 10-6-58
Date	Indexed C. O. Johnson 10-27-58

F. B. 942 Pg. 615

ECCENTRIC TIES AT U.S.C.&G.S. "KNIGHT"



(1) 57-54-10	(1) 61-30-55	(1) 118-30-00	(1) 03-35-20
(4) 231-36-20	(4) 245-59-10	(4) 113-59-20	(4) 14-21-20
57-54-05	61-29-55	118-29-50	03-35-20

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

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LOS ANGELES COUNTY ENGINEER
700 Los Angeles County Engineering Bldg.
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76F3095 S&E #247 1-56

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

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F. B. _____ Pg. _____

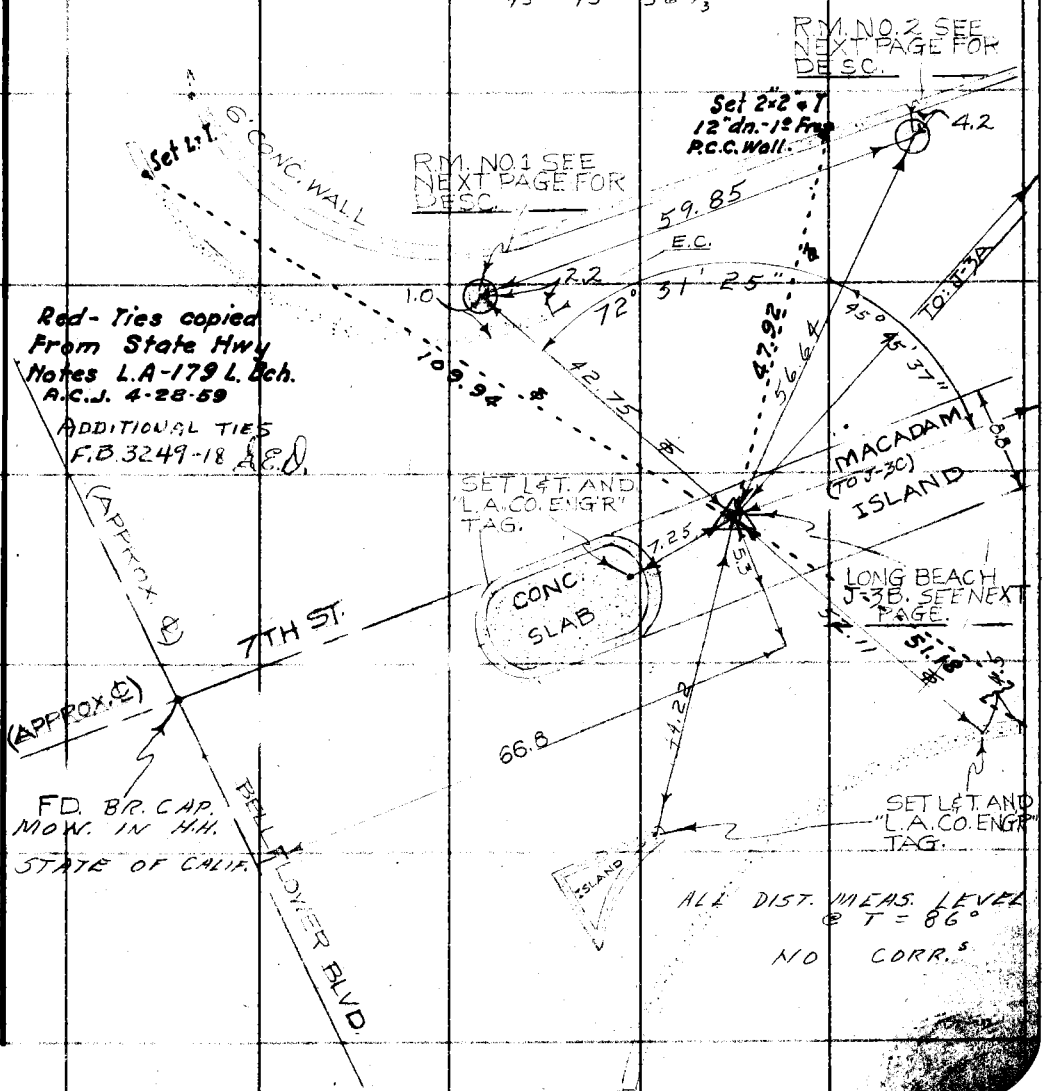
Notes Ck'd by	Survey of LONG BEACH SUBSIDENCE
Map No.	JN0301.01 Tape 101 Std 84 °F
Office Work	Surveyed by W. D. BAY
~~Checked~~ [illegible]	Notes J.C. GOODWIN Date 11-58
Date [illegible]	Indexed A. C. Johnson

F. B. 942 PG. 67

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LONG BEACH J-3B

(1) 72 31 - 30
(4) 290 - 05 - 50
72 - 31 - 27½
(6) 75 - 08 - 30
72 - 3[illegible] - 2[illegible]

(1) 45 - 45 - 40
(4) 183 - 02 - 30
45 - 45 - 37½
(6) 274 - 33 - 40
45 - 45 - 36⅔



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 1-56

F. B. 942 PG. 63

-DESCRIPTIONS-

LONG BEACH J-3B

THIS STATION IS IN THE CITY OF LONG BEACH, NEAR THE INTERSECTION OF BELLFLOWER BLVD. AND 7TH ST., 66.8' E. OF THE APPROX. ℄ OF BELLFLOWER BLVD. & 3.5' S. OF THE APPROX. ℄ OF 7TH ST. IN A WELL WITH A STD. L.A. CO. ENGR. CAST IRON COVER, IN A TRAFFIC ISLAND.

STATION MARK

SET A STANDARD 4" BRASS L.A. CO. TRIANGULATION STATION CAP, DOWN 8". STAMPED, "LONG BEACH J-3B - 1953 - L.A.CO. ENGR. R.E. 5869"

REFERENCE MARK NO. 1

SET A STANDARD 4" BRASS REFERENCE CAP IN CONC. DOWN 10". STAMPED, "LONG BEACH - J-3B - R.M. NO. 1 - 1953 - L.A. CO. ENGR. R.E. 5869".

REFERENCE MARK NO. 2

SAME AS R.M. NO. 1 EXCEPT STAMPED, "R.M. NO. 2"

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

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

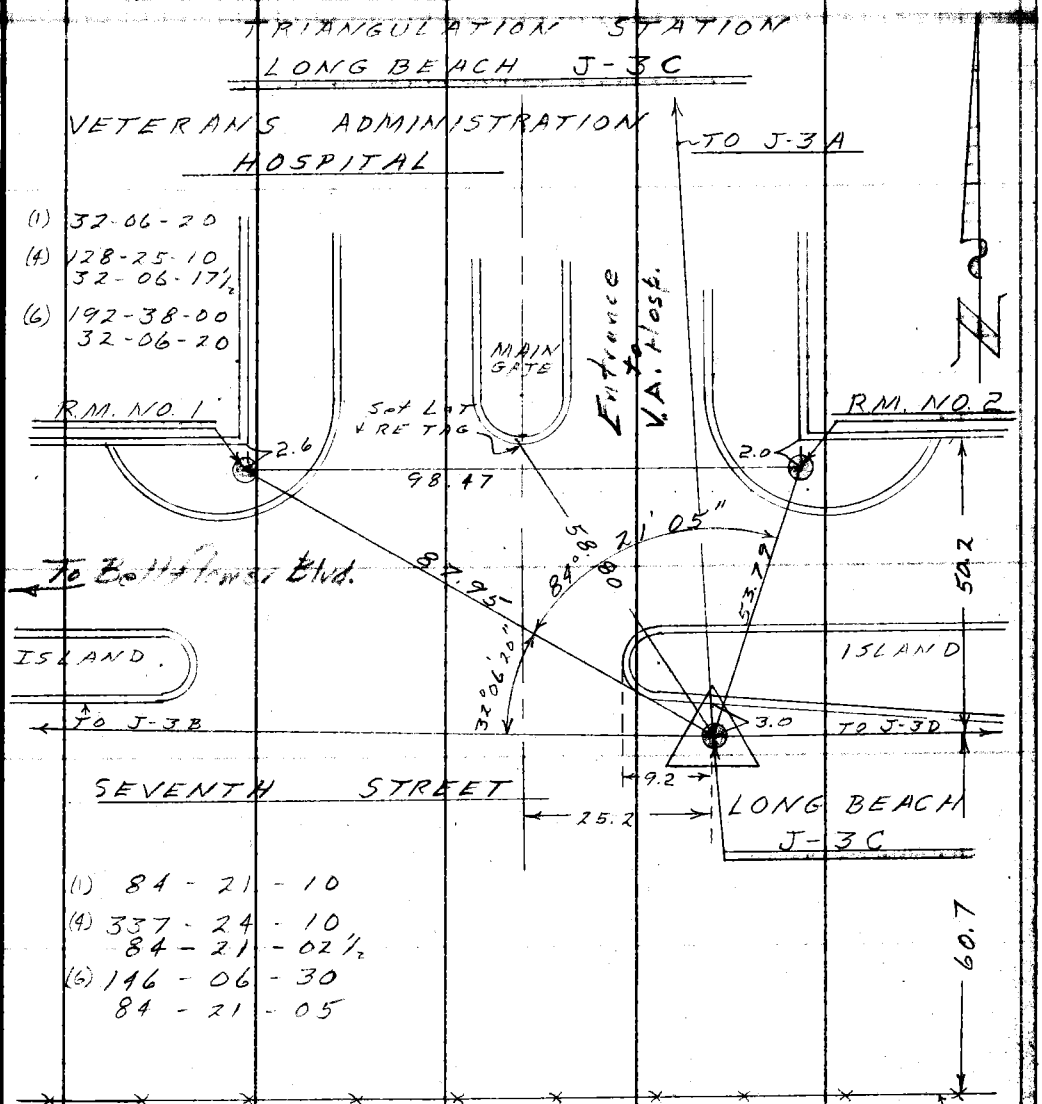
Notes Ck'd by		Survey of LONG BEACH SUBSIDENCE	F. B. 942 Pg. 69
Map No.		JN 0301.21 Tape 101 Std. 84 °F	
Office Work		Surveyed by W. D. BAY	
Checked		Notes W. D. B. Date 11-26-58	
Date		Indexed C. Johnson 1-8-59	

L. A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

LONG BEACH J-3C

VETERANS ADMINISTRATION HOSPITAL



(1) 84 - 21 - 10
(4) 337 - 24 - 10
84 - 21 - 02½
(6) 146 - 06 - 30
84 - 21 - 05

ALL DIST. MEAS. LEVEL
@ T = 78°
NO CORR'S.

PLEASE RETURN TO
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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend this side of this line.

76F3095 S&E #247 1-56

F. B. 942 Pg. 70

— DESCRIPTIONS —

LONG BEACH J-3C

THIS STATION IS IN THE CITY OF LONG BEACH ON SEVENTH ST, 0.1 MILE ± EAST OF BELLFLOWER BLVD, AT THE MAIN ENTRANCE TO THE VETERANS ADMIN-ISTRATION HOSPITAL, 25.2' EAST OF THE APPROX. ℄ OF THE MAIN GATE AND 50.2' SOUTH OF THE CONC. WALL BOUNDING THE HOSPITAL PROPERTY IN A WELL WITH A STD. CO. ENGR COVER.

STATION MARK: SET A STD. 4" BRASS L.A. CO. TRIANGULATION STATION CAP IN CONC. DN. 9" AND STAMPED "LONG BEACH J-3C, 1958, L.A. CO. ENGR. R.E. 5869".

REFERENCE MARK NO. 1: SET A STD. 4" BRASS R.M. CAP IN CONC. DN. 12" AND STAMPED LONG BEACH J-3C R.M. NO. 1, 1958, L.A. CO. ENGR., R.E. 5867".

REFERENCE MARK NO 2: SAME AS R.M. NO. 1 EXCEPT STAMPED "R.M. NO. 2" AND DN. 12".

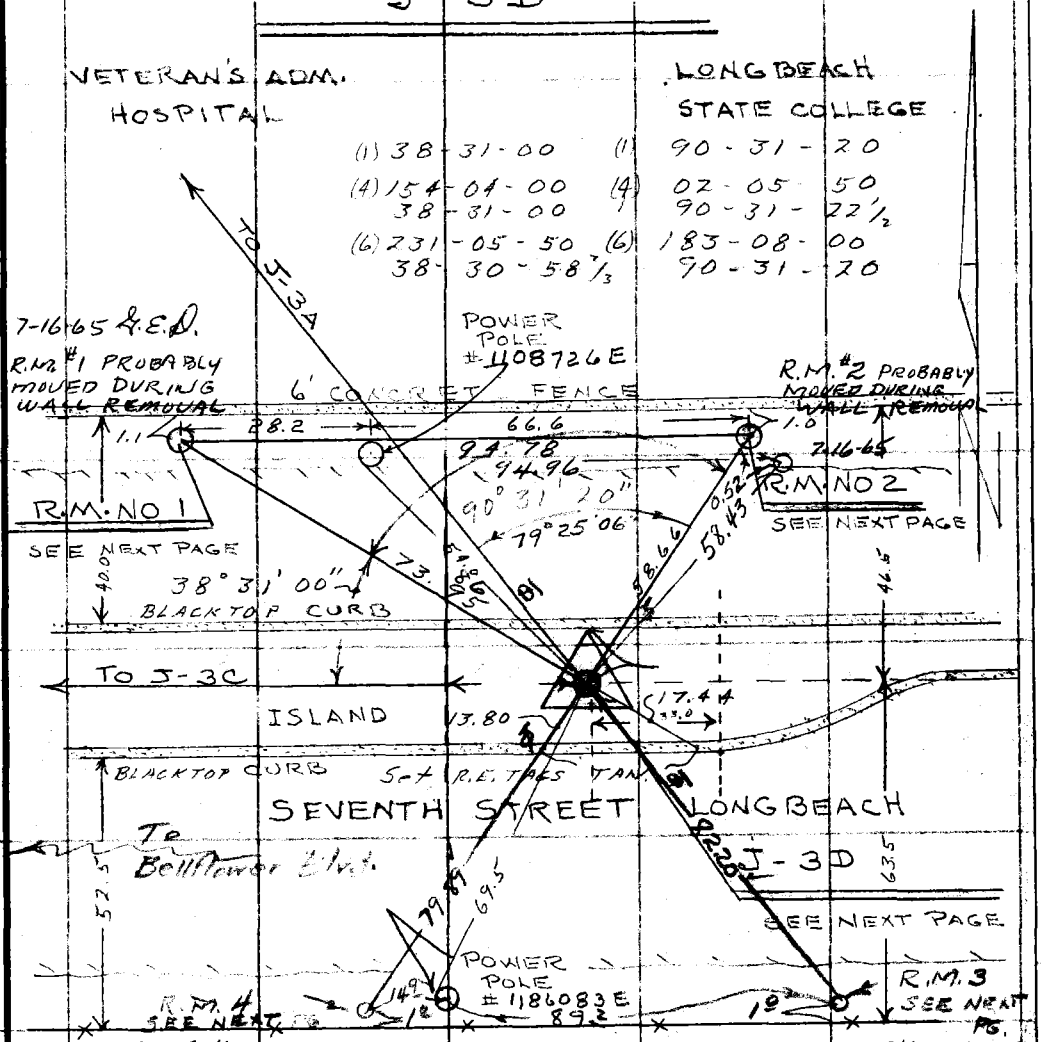
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.
Do not extend this side of this line.

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 SUBSIDENCE
Map No.	W. O. 0381.01 Tape No. 101 St'd. 84 °F
Office Work	Surveyed by W. D. BAY
Checked	Notes R. D. SMITH Date 11-26-58
Date	Indexed T. C. J.

F. B. 942 PG. 71

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LONG BEACH
J- 3D



79	25	00
(4) 317	40	30
79	25	07 1/2
(6) 116	30	40 1/2
19	25	06 1/3

R.M. No. 1 TO R.M. #2

90	30	40
362	03	10
90	30	47 1/2
183	04	30
90	30	45

2-18-65 A.E.O.

ALL DIST. MEAS. LEVEL @ T = 78°
NO CORR's.

79.84 @ 72° = 79.89
82.20 " = 82.20

0.52

Notes: Any Additions or Changes on This Sheet Must 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

F.B. 942 PG. 72

DESCRIPTIONS
LONG BEACH
J-3D

THIS STATION IS IN THE CITY OF LONG BEACH, ON SEVENTH STREET 0.2 MILE EAST OF BELLFLOWER BLVD IN THE TRAFFIC ISLAND 6.3 FT SOUTH OF THE ISLAND NORTH CURB AND 33 FT WEST OF ANGLE POINT IN ISLAND SOUTH CURB. IN A WELL PROTECTED BY A STANDARD CO. ENGR. CAST IRON COVER.

STATION MARK SET A STD 4" BRASS TRIANGULATION STATION DISC IN CONC. DN 9" AND STAMPED "LONG BEACH J-3D 1958 L.A. CO. ENGR. R.E. 5869."

REFERENCE MARK NO 1. SET A STD 4" BRASS REFERENCE DISC IN CONC. DN 12 INCHES AND STAMPED "LONG BEACH J-3D R.M. NO 1 1958 L.A. CO. ENGR. R.E. 5869."

REFERENCE MARK NO 2. SET SAME AS R.M. NO 1 EXCEPT STAMPED "R.M. NO 2" AND DN 12 INCHES.

2-18-65 A.G.D.

R.M. #3 SET 2" I.P., CONC. PLUG, & C.E. TAG 12" DEEP, TAN. TO L.B. J-3A

R.M. #4 SET 2" I.P., CONC. PLUG & C.E. TAG 12" DEEP, TAN TO R.M. #2

RETURN TO
LOS ANGELES COUNTY SURVEYOR
720 LOS ANGELES COUNTY
ENGINEERING BLDG.
Do not extend notes this side of this line.

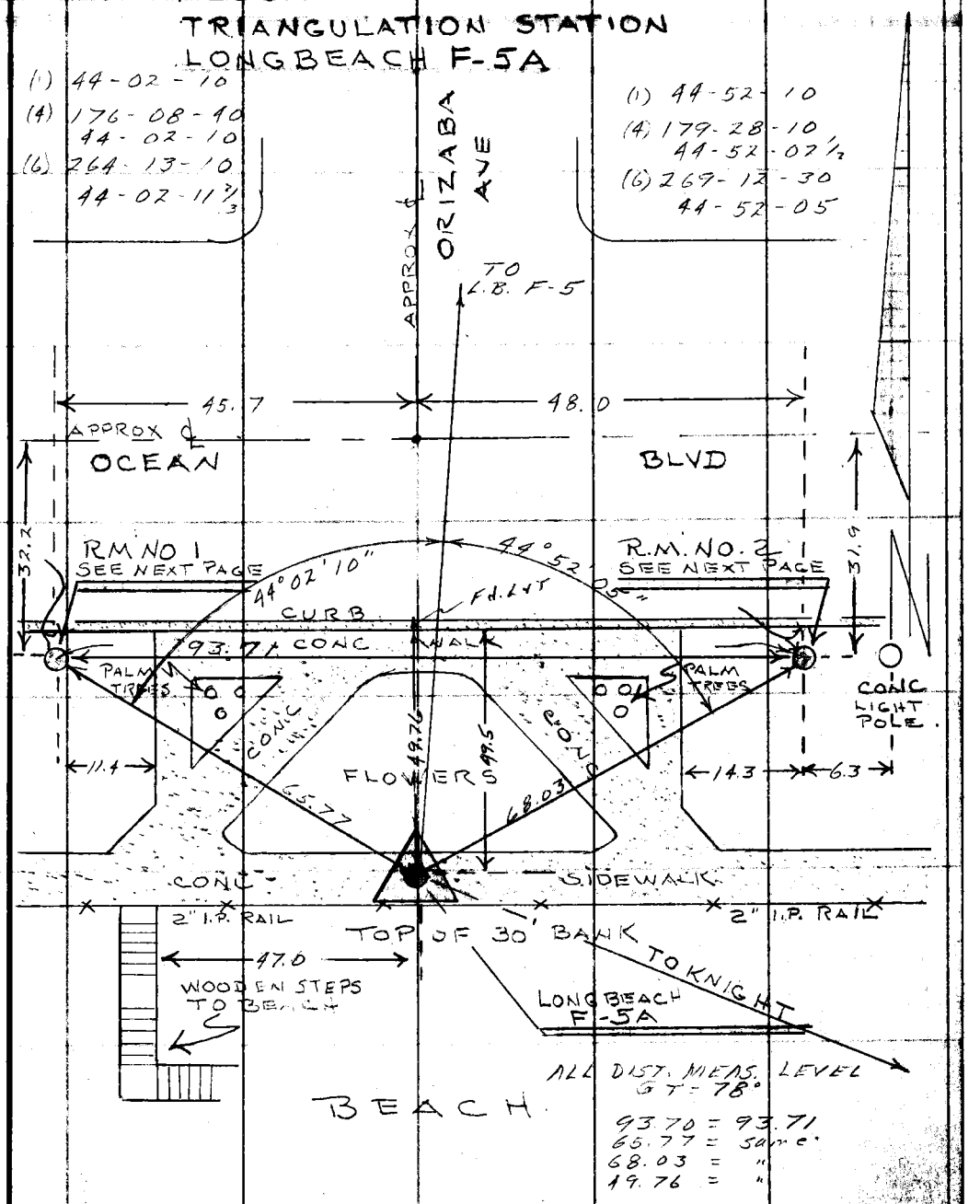
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of LONGBEACH SUBSIDENCE
Map No.	JN0301.011 Tape 0119 Std 68 °F
Office Work	Surveyed by W. D. BAY
Checked	Notes RD SMITH Date 12-10-58
Date	Indexed A. C. Johnson 2-5-59

F. B. 942 PG. 73

L.A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION LONGBEACH F-5A



Note: Any Additions 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 S&E #247 1-56

F.B. 942 PG. 74

DESCRIPTIONS
LONG BEACH
F-5A

THIS STATION IS IN LOS ANGELES
COUNTY IN THE CITY OF LONG BEACH
ON OCEAN BLVD AT ORIZABA AVE
IN A SMALL PARK BETWEEN OCEAN BLVD
AND THE BEACH, 798FT SOUTH OF THE
℄ INTERSECTION OF OCEAN BLVD & ORIZABA
AVE AND ON THE APPROX. ℄ PROD. OF
ORIZABA AVE. IN A CONC
WALK AND IN A HAND HOLE PROTECTED
BY A CAST IRON COVER MARKED
"CITY MON. ENGR."

STATION MARK: FD. 3" BRASS CAP
IN CONC 7" DN IN A HANDHOLE AND
STAMPED L.A. CO. ENGR. F-5A 1958
AND PROTECTED BY A CAST IRON COVER
MARKED "CITY MON ENGR."
THIS STA. SET BY CITY ENGR.

REFERENCE MARK NO 1.- FD. 3" BRASS
CAP IN CONC. IN A HAND HOLE DN 7 INCHES
AND STAMPED F-5A R.M. NO 1 1958
AND PROTECTED BY A CAST IRON COVER
MARKED "CITY MON ENGR".
SET BY CITY ENGR.
REFERENCE MARK NO 2: SAME AS
NO. 1 EXCEPT STAMPED R.M. NO. 2

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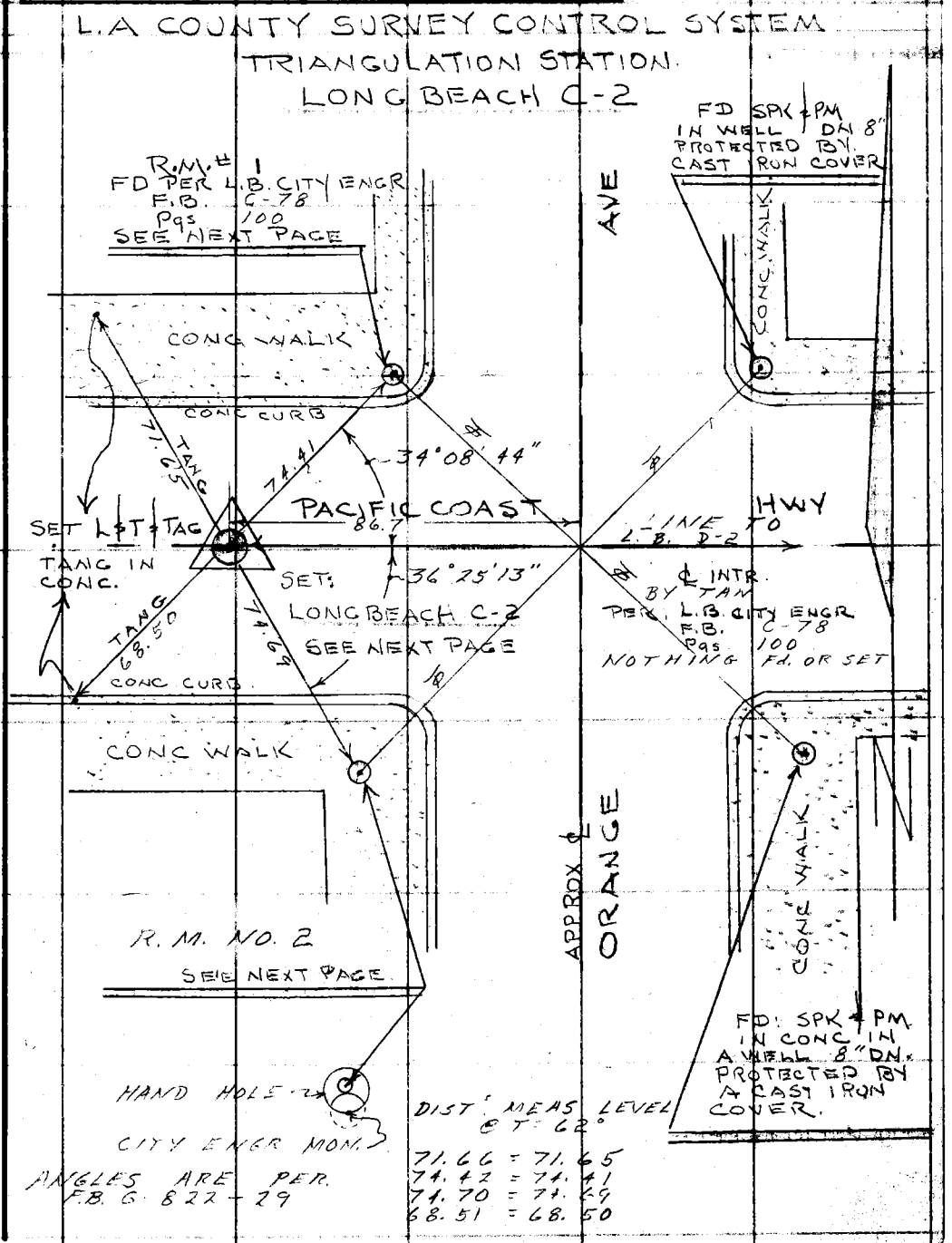
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of LONG BEACH SUBDIVISION
Map No.	JN0301.0 Tape 135 Std 84 °F
Office Work	Surveyed by W.D. RAY
Checked	Notes RDSmith Date 12-6-58
Date	Indexed C. Johnson

F. B. 942 Pg. 75

L.A COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LONG BEACH C-2



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

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LOS ANGELES COUNTY ENGINEER
700 Los Angeles County Engineering Bldg.

76F3098 S&E #247 1-56

F. B. 942 Pg. 76

DESCRIPTIONS
LONGBEACH C-2

THIS STATION IS IN LOS ANGELES COUNTY IN THE CITY OF LONGBEACH. ON PACIFIC COAST HWY 86.7 FEET WEST OF THE ℄ INTERSECTION OF ORANGE AVE AND ON APPROX ℄ OF PACIFIC COAST HWY.

STATION MARK: SET STD 4" BRASS TRIANGULATION CAP IN CONC. 10 INCHES DN. IN A WELL CUT THROUGH THE PAVEMENT AND STAMPED LONGBEACH C-2 1959 R.E 5869. AND PROTECTED BY A STANDARD CO. ENGR. CAST IRON COVER.

REFERENCE MARK NO 1. FD. SPK ℄ P.M. IN CONC INCHES DOWN IN A WELL CUT THROUGH THE SIDEWALK ℄ PROTECTED BY A CAST IRON COVER MARKED L.B. REFERENCE. L.B. CITY ENGR. F.B. C-78 Pgs. 100.

REFERENCE MARK NO 2. SET A 3/4" IRON PIPE LEAD PLUG & CO. ENGR TAG DN. 7" IN A L.B. CITY ENGR. WELL AND ALONG SIDE OF A L.B. CITY ENGR MON. WHICH WAS FOUND AT THE S. EDGE OF THE WELL AND IS NOT USABLE. SEE SKETCH.

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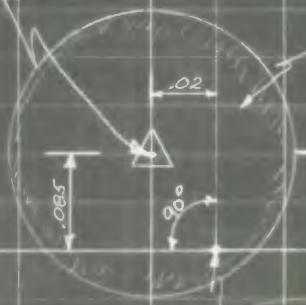
L.B.D. #1

Cherry

- 23 - 58

City St. Dept. set new mom. on top of old mom. new mom 1' below surface.



original monument 3' below surface here

L.B.D #1

Cherry Ave

Fd. C.C. Mon. 'Brass Cap' approx. 3° below Surface. Placed Sand pad over orig. mon. and poured new mon. with L.A.C. Traverse Station brass cap. New point is 0.02' West and 0.085' North of orig. station. Reset ring and cover. CDM

See opp. page

℄ P.C. Hwy

County △ LBD-2
City of L.B. E mon.

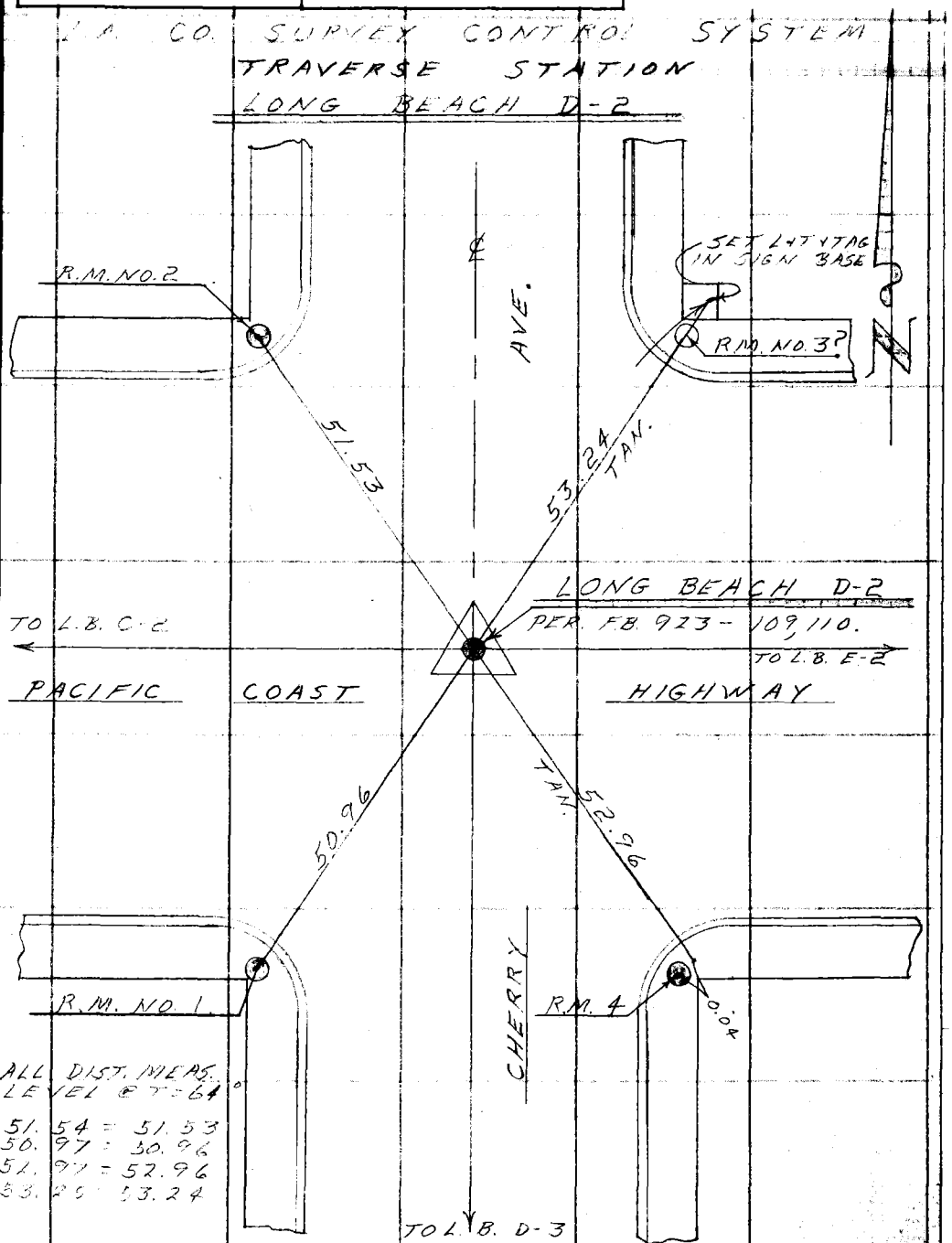
Notes Ck'd by	Survey of SUBSIDENCE
Map No.	JN 0301.01 Tape 135 Std 87 °F
Office Work	Surveyed by W. D. BAY
Checked	Notes W. D. B. Date 1-7-59
Date	Indexed C. Johnson

F. B. 146 Pg. 77

L. A. CO. SURVEY CONTROL SYSTEM

TRAVERSE STATION

LONG BEACH D-2



ALL DIST. MEAS. LEVEL @ T=64°

51.54 = 51.53
50.97 = 50.96
51.97 = 52.96
53.25 = 53.24

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 1-56

F. B. 942 PG. 78

—DESCRIPTIONS—

LONG BEACH D-2

THIS STATION IS IN THE CITY OF LONG BEACH AND IS THE ℄ (see note) INTR. OF PACIFIC COAST HIGHWAY AND CHERRY AVE, DN. 10" IN A WELL WITH A CAST IRON COVER.

STATION MARK: FOUND A STD. 4" BRASS L.A. CO. TRAV. STA. CAP IN CONC. WHICH WAS SET BY THE LONG BEACH CITY ENGR. BUT NOT STAMPED. I STAMPED IT "LONG BEACH D-2, RE-SET 1959, R.E. 5869".

REFERENCE MARKS NO. 1, 2, & 4: Fd. STAR IN CONC. DN. 6" IN WELL [illegible] WITH CAST IRON COVERS MARKED L.B.

REFERENCE MARK NO. 3: FD. WELL IN SIDEWALK BUT THE SIDEWALK WAS APPARENTLY RAISED S.W. LY AND COVERED THE MONUMENT UNDERNEATH. THE SIDE OF THE MON. IS VISIBLE IN THE N.E. COR. OF THE WELL BUT IS NOT USABLE.

Note

This sta. Was supposed to be set exactly over the old mark which is now 3'+- below pvmt. The Long Beach City Engr. reports that it was inadvertently set out of position and is not an exact replacement of D-2 as shown in C.S. F.B. 923/109-110. It's position at the ℄ Intersn as stated above is questionable.

H.F. EVANS
2/5/59

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

Notes Ck'd by	LONG BEACH SUBSIDENCE
Map No.	Survey of
Office Work	JN0301.0 Tape 135 Std 84 °F
Checked	Surveyed by W. D. BAY
Date	Notes R D SMITH Date 12-16-58
	Indexed C. Johnson

F. B. 942 PG. 79

L.A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

LONG BEACH

E - 2

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

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700 Los Angeles County Engineering Bldg.
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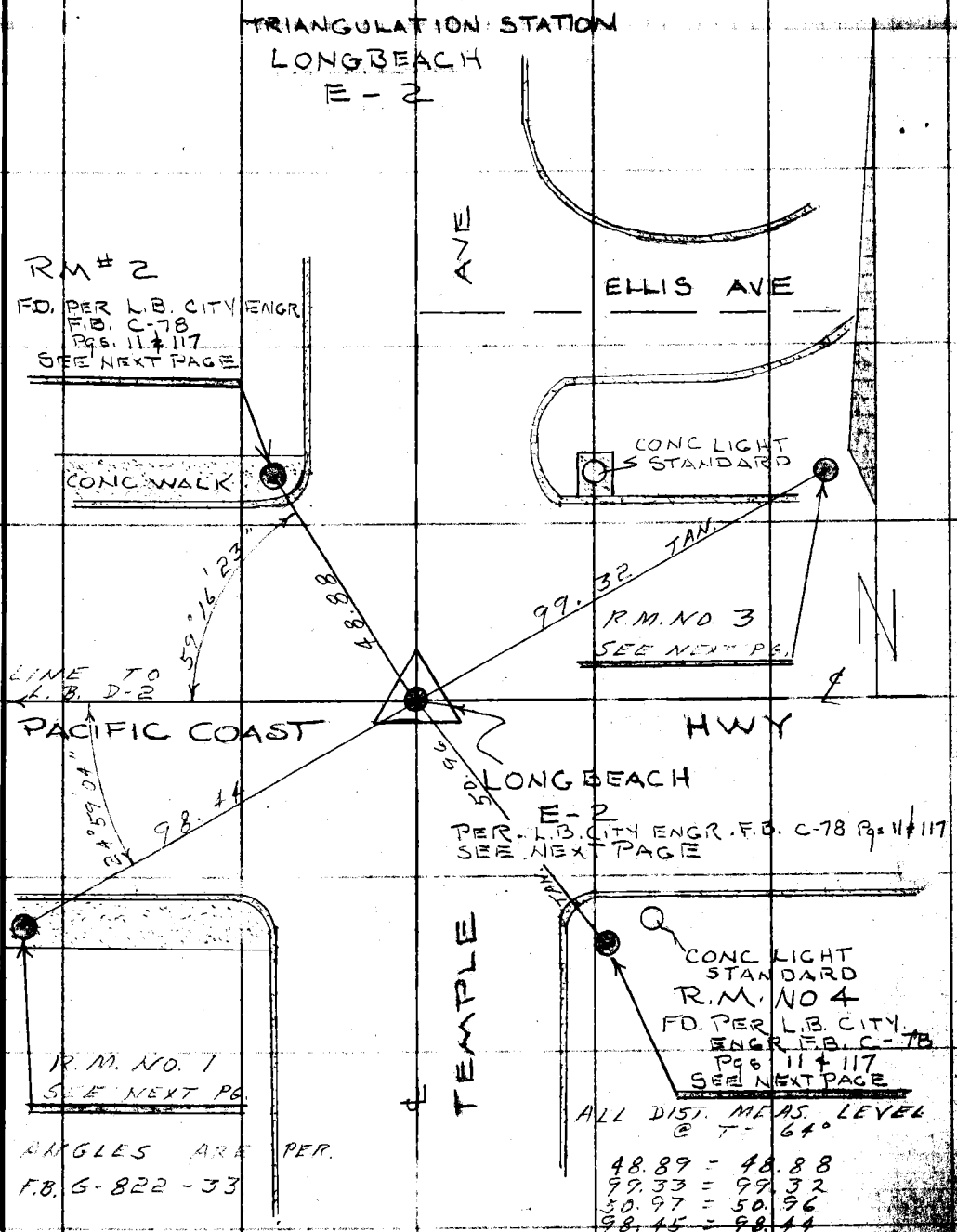

ANGLES ARE PER F.B. G-822-33

ALL DIST. MEAS. LEVEL @ T = 64°

48.89 = 48.88
99.33 = 99.32
50.97 = 50.96
98.45 = 98.44

76F3095 S&E #247 1-56

F. B. 942 PG. 80

DESCRIPTIONS
LONGBEACH
E-2

THIS STATION IS IN LOS ANGELES COUNTY IN THE CITY OF LONG BEACH, AT THE ℄ INTERSECTION OF PACIFIC COAST HWY AND TEMPLE AVE.

STATION MARK: FOUND A PRECAST CONC. MON. WITH BT. SPK. IND PUNCH MARK IN A WELL CUT THROUGH PAVEMENT DOWN 8 INCHES AND PROTECTED BY A CAST IRON COVER MARK L. A. CO. ENGR.

REFERENCE MARK NO 1. FD REF L.B. CITY ENGR. F.B. C-78 Pgs 11 & 117. CT SPK. WITH PUNCH MARK, IN CONC. 8 INCHES DN IN A WELL CUT THROUGH SIDE WALK & PROTECTED BY A CAST IRON COVER MARKED L.B.

REFERENCE MARK NO 2. SAME AS NO 1 EXCEPT: BT. SPK IN CONC.

REFERENCE MARK NO 3. SAME AS NO 2 EXCEPT: DN. 10" IN A BLACKTOP PARKING LOT WITH NO HANDHOLE OR COVER.

REFERENCE MARK NO 4 SAME AS NO 1 EXCEPT: IN A BLACKTOP DRIVE AND DN 7 INCHES.

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700 Los Angeles County Engineering Bldg.
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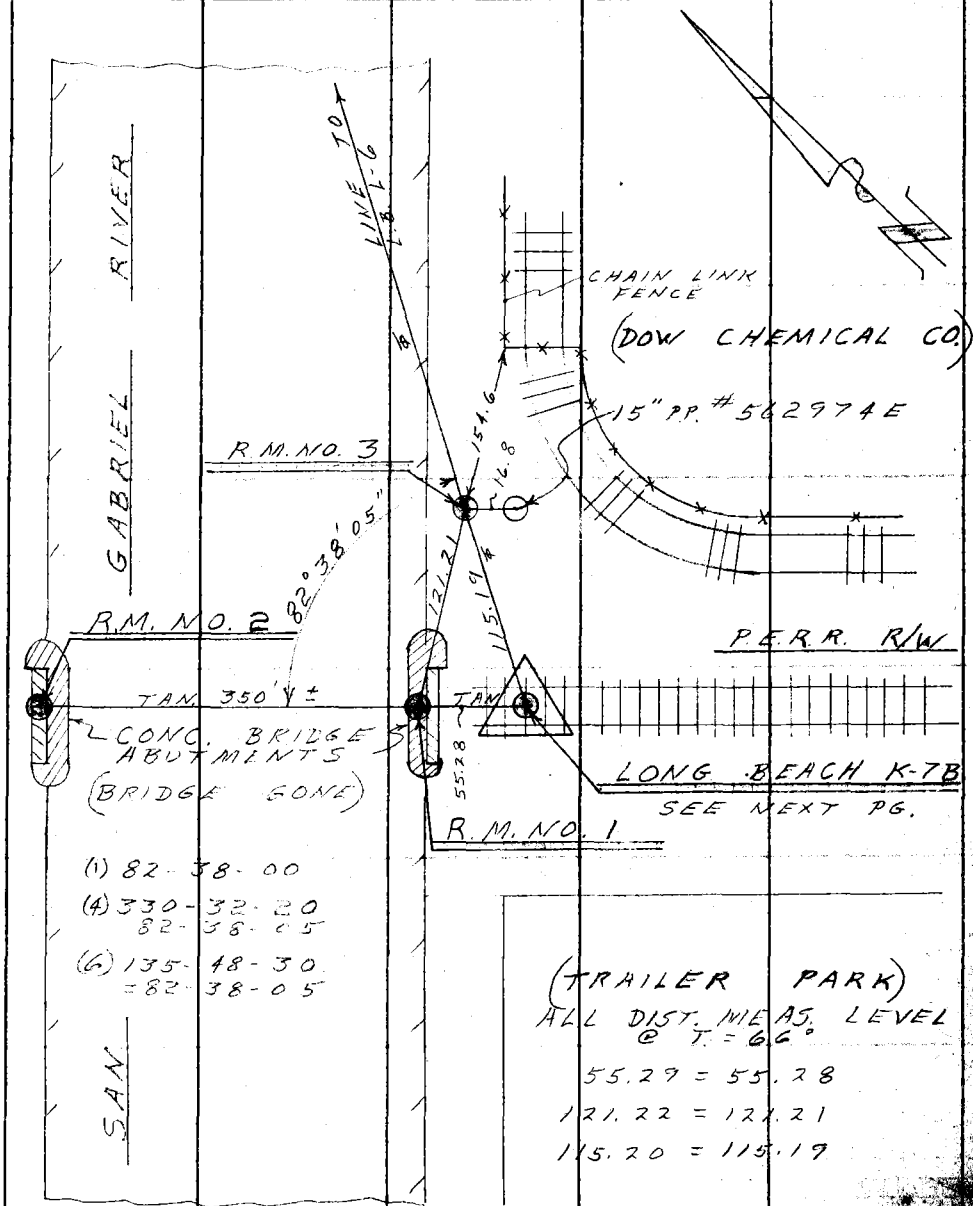
Notes Ck'd by	Survey of SUBS. FENCE	F. B. 742	Pg. 81
Map No.	JN 0301.01 Tape 135 Std 84 °F		
Office Work	Surveyed by W. D. BAY		
Checked	Notes W. D. Date 1-15-59 C. Johnson		
Date	Indexed		

Curb Line

L. A. CO. SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LONG BEACH K-7B



(1) 82 - 38 - 00

(4) 330 - 32 - 20
82 - 38 - 05

(6) 135 - 48 - 30
= 82 - 38 - 05

ALL DIST. MEAS. LEVEL @ T. = 66°

55.29 = 55.28

121.22 = 121.21

115.20 = 115.19

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

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

Do not extend this side of this line.

76F3095 S&E #247 1-56

F. B. 942 Pg. 82

~ DESCRIPTIONS ~
LONG BEACH K-7B

THIS STATION IS IN ORANGE COUNTY, NEAR THE CITY OF SEAL BEACH, ON THE EAST BANK OF THE SAN GABRIEL RIVER, IN THE PACIFIC ELECTRIC R.R.R/W., BETWEEN THE TRACK RAILS AND DN. 20" BELOW GRADE OF RAILS.

STATION MARK: SET A STD. 4" BRASS L.A. CO. ENGR. TRIANGULATION STATION CAP IN CONC. AND STAMPED "LONG BEACH K-7B, 1959,

REFERENCE MARK NO. 1: SET A STD. 4" BRASS L.A. CO. ENGR. R.M. CAP FLUSH IN CONC. BRIDGE ABUTMENT AND STAMPED "LONG BEACH K-7B, R.M. NO. 1, 1959, CO. ENGR. R.E. 5867."

REFERENCE MARK NO. 2: SAME AS R.M. NO. 1 EXCEPT STAMPED "R.M. NO. 2."

REFERENCE MARK NO. 3: SET A STD. 4" BRASS R.M. CAP IN CONC. DN. 12" AND STAMPED LONG BEACH K-7B, R.M. NO. 3 1959, CO. ENGR., R.E. 5867."

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Notes Ck'd by	Survey of LONG BEACH SUBSTATION
Map No.	JN 030161 Tape 192 Std E4 °F
Office Work	Surveyed by STOCK
Checked	Notes MOODY Date 1-1-60
Date	Indexed C. Johnson

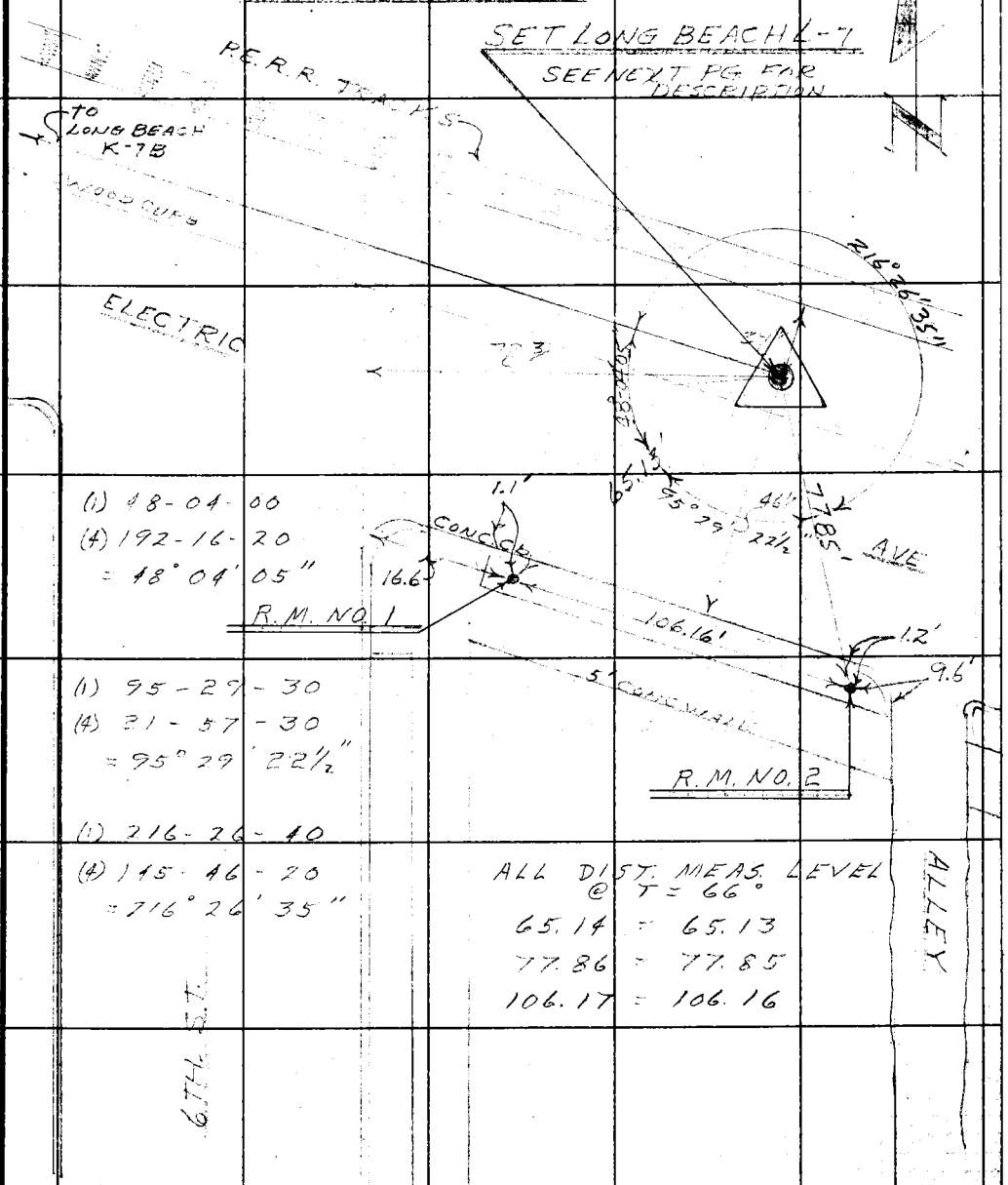
F. B. 942 PG. 83

Typed

L.A. CO. SURVEY CONTROL SYSTEM

TRIANGULATION STATION

LONG BEACH L-7



(1) 48-04-00
(4) 192-16-20
= 48° 04' 05"

(1) 95-29-30
(4) 21-57-30
= 95° 29' 22½"

(1) 216-26-40
(4) 145-46-20
= 216° 26' 35"

ALL DIST. MEAS. LEVEL @ T = 66°
65.14 = 65.13
77.86 = 77.85
106.17 = 106.16

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

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

76F309S CE #247—3-57

F.B. 942 Pg. 84

DISCRIPTIONS

LONG BEACH L-7

This Triangulation Station is in Orange County, in city of Seal Beach, in the Pacific Electric Rail Road Right of Way, 399' South of the South Rail of the Main Tracks & 72.3' East of the East Curb line of 6th St. Produced Northerly, 46½' North of the South Curb of Electric Ave, Buried Dn. 18" Below Flush.

SUB. SURFACE MARK. None Set

STATION MARK: Set a Standard 4" Brass Triangulation Mark in Concrete Stamped, Long Beach L-7, 1959. Set by L.A. Co. ENGR. R.E. 5869, Dn 18" Below Flush.

REFERENCE MARK NO 1 Set a Standard 4" Brass Triangulation Mark in Concrete Stamped Long Beach L-7 R.M. No. 1, R.E. 5869. Dn. 12" Below Flush.

REFERENCE MARK NO 2 Set Same as For No. 1, only Stamped No 2. Dn. 5" Below Flush

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

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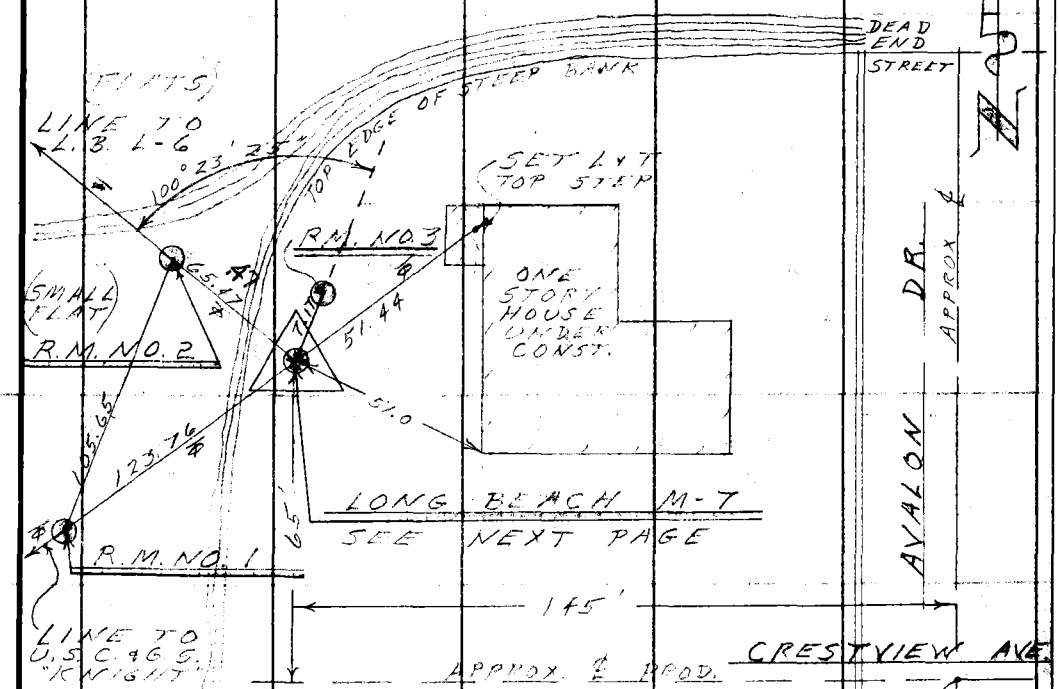
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of SUBDIVISION
Map No.	JN 0301.01 Tape 135 Std 84 °F
Office Work	Surveyed by W. D. BAY
Checked	Notes W. D. B. Date 1-16-57
Date	Indexed C. Johnson

F. B. 942 Pg. 85

L. A. CO. SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LONG BEACH M-7



125.75	@	10° 10'	T = 70°	= 123.76
125.61	@	09° 47'	"	= 123.76
68.74	@	17° 42'	"	= 65.47
68.41	@	16° 47'	"	= 65.47
105.66 level		@	"	= 105.65
7.17	"		"	= 7.17
51.44	"		"	= 51.44

(1) 100° 23' 20"
(2) 41° 33' 40"
= 100° 23' 25"

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

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700 LOS ANGELES COUNTY ENGINEERING BLDG.
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76F3095 S&E #247 1-56

F. B. 942 PG. 86

- DESCRIPTIONS -
LONG BEACH M-7

THIS STATION IS IN ORANGE COUNTY, IN THE LANDING HILL AREA OF SEAL BEACH, 1/2 MILE ± NLY FROM THE INTERSECTION OF MAIN ST. AND PACIFIC COAST HWY., 145' W. OF THE APPROX. ℄ OF AVALON DR. AND 65' N. OF THE APPROX. ℄ PROD. OF CRESTVIEW AVE. FROM THE EAST. THIS IS A REPLACEMENT OF A 1 1/2" IRON PIPE, WOOD PLUG AND INVERTED NAIL FD. DN. 15" WHICH IS A CITY OF L. A., DEPT. OF WATER & POWER, CONTROL PT. NO' REF.

STATION MARK: SET A STD. 4" BRASS L. A. CO. TRIANGULATION STA. CAP IN CONC. D.N. 12" AND STAMPED "LONG BEACH M-7 1959 CO. ENGR. R.E. 5869".

REFERENCE MARK NO. 1: SET A STD. 4" BRASS L. A. CO. R.M. CAP IN CONC. EXTENDING 4" ABOVE FLUSH AND STAMPED "LONG BEACH M-7, R.M. NO. 1 1959, CO. ENGR. R.E. 5869".

REFERENCE MARK NO. 2: SET SAME AS FOR R.M. NO. 1 EXCEPT STAMPED "R.M. NO. 2".

REFERENCE MARK NO. 3: FOUND A 1 1/2" IRON PIPE, CONC. CORE, NAIL & TAG STAMPED "R.C.E. 7754" D.N. 15". BELIEVED TO BE A TRACT CORNER. NO REF.

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Notes Ck'd by	Survey of LONG BEACH SUBSIDENCE	F. B. 942 Pg. 87
Map No.	JN 0301.01 Tape 135 Std 84 °F	(Pot. LBJ-7 Cont)
Office Work	Surveyed by W. D. BAY	
Checked	Notes W. D. B. Date 1-27-59	
Date	Indexed	

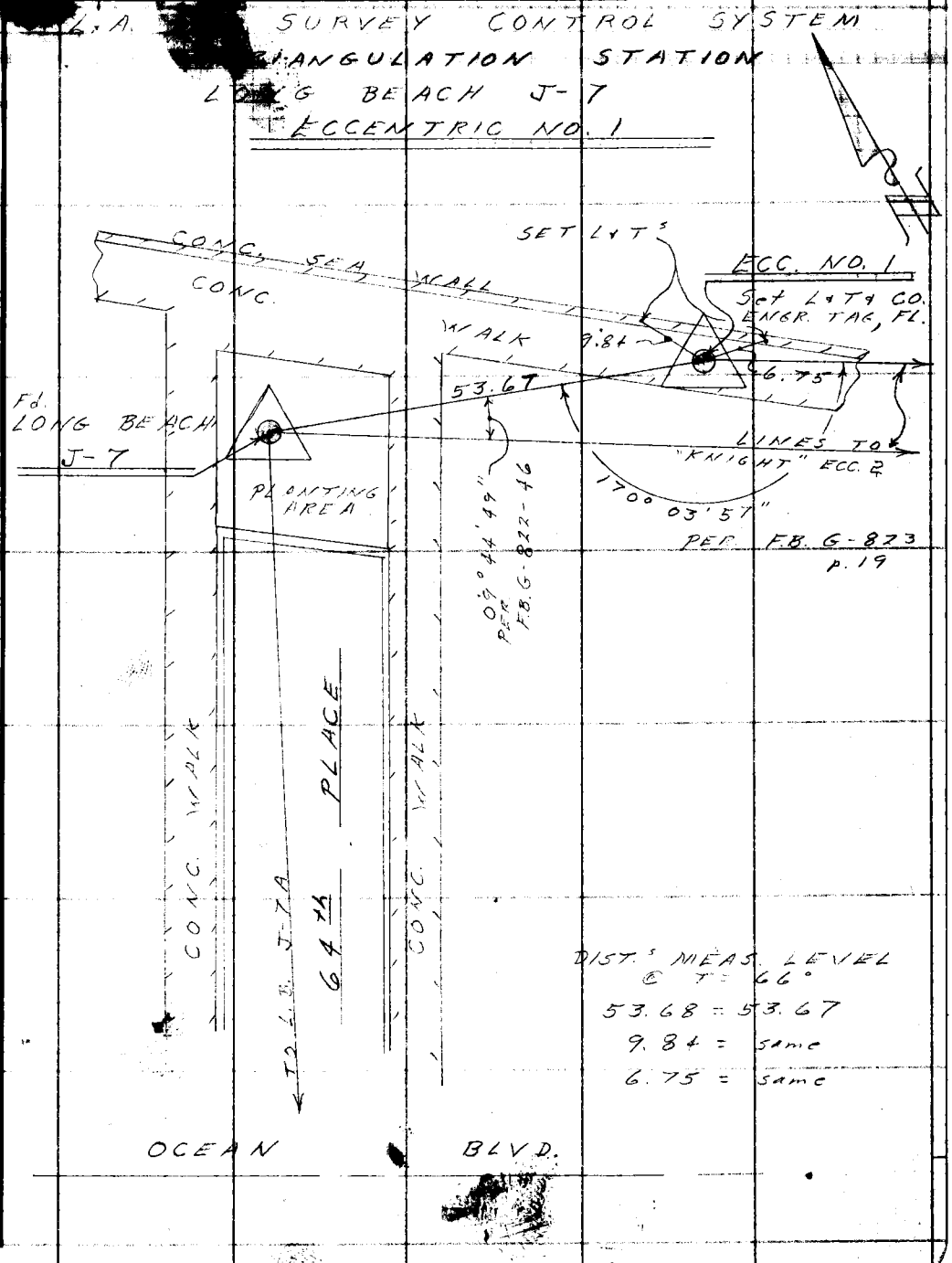
C. Johnson

L.A. SURVEY CONTROL SYSTEM

TRIANGULATION STATION

LONG BEACH J-7

ECCENTRIC NO. 1



DIST.'s MEAS. LEVEL @ T = 66°

53.68 = 53.67

9.84 = same

6.75 = same

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.

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76F3095 S&E #247 1-56

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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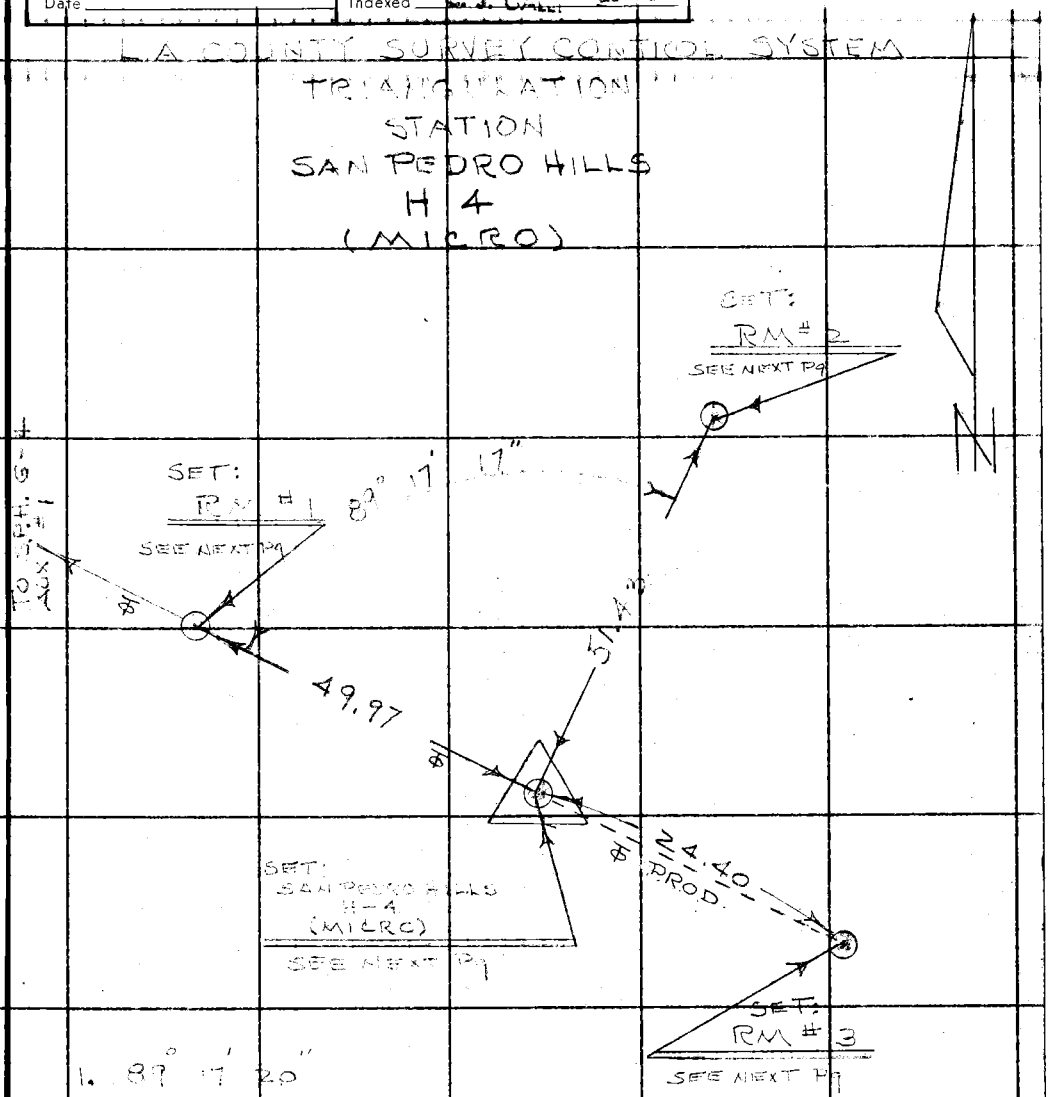
F. B. 942 Pg. 88

Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN0301.00 Tape 0192 Std 68 °F
Office Work	Surveyed by A.C. GUIZADO
Checked	Notes R.D.S. Date 1-23-63
Date	Indexed E. J. [illegible] JAN 28 '63

F. B. 942 PG. 89

L.A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION SAN PEDRO HILLS H 4 (MICRO)



1. 89° 17' 20"
4. 357 09 20
= 89 17 20
6. 175 43 40
= 89 17 16 2/3

LEVEL @ 58° T

49.98 = 49.97
51.44 = 51.43
24.41 = 24.40

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

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.
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76F3095 CE # 310 3-61

F. B. 942 PG. 90

DESCRIPTIONS
TRIANGULATION
STATION
SAN PEDRO HILLS
H-4
(MICRO)

THIS STATION IS IN LOS ANGELES COUNTY IN THE PALOS VERDES AREA NEAR THE COUNTY TRANSMITTER TOWER NEAR INDIAN PEAK RD.
(SEE F.B 825. PAGES 169 THRU 184)

STATION MARK SET STD 4" BRASS TRI. CAP IN CONC 6" ABOVE FLUSH AND STAMPED: "SAN PEDRO HILLS H-4, MICRO, 1963, L.A. CO. ENGR. R.F. 5869 REPLACING 1" I.P. [illegible]

REFERENCE MARK #1 SET STD. 4" BRASS REF. CAP IN CONC. 6" ABOVE FLUSH AND STAMPED: "S.P.H H-4, MICRO, R.M. 1, 1963 L.A. CO. ENGR. R.F 5869"

REFERENCE MARK #2. SAME AS #1 EXCEPT; STAMPED: "R.M. 2"

REFERENCE MARK #3 SET 2" I.P WITH CONC CORE AND TACK AND C.E. TAG. FLUSH TANG TO S.P.H G-4. AUX. #1

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

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

Survey of GEODETIC CONTROL
JN 0301.00 Tape 0231 Std 68 °F
Surveyed by W. H. RICHARDS
Notes W. H. R. Date 2-6-64
Indexed [illegible] MAR 1 3 64

F. B. 242 PG. 91

Noted on Geo. Index Card ✓
Placed on G.S.D. Ind. Stds.
Placed on Sur. Div. by S. No.
Sketch on Geo. Desc. Card

J. N. 0301.00

PRESERVATION OF MONUMENTS

RE-TIES
FOR
CLEARWATER D-12
(TO BE REMOVED BY CONST.)

THIS STATION IS IN THE CITY OF SIGNAL HILL, AT THE (CENTER LINE INTERSECTION)* OF CHERRY AVE. AND WILLOW ST.

REFERENCE: F.B. 923 - 67, 68, 75

* ASSUMED POSITION, AS NO CENTER LINE NOTES ON HAND TO VERIFY LOCATION.

SURVEY INDEX NO. 3815

RICHARDS
OCHSNER
TURRILL
STEMANN

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

Do not extend notes this side of this line.

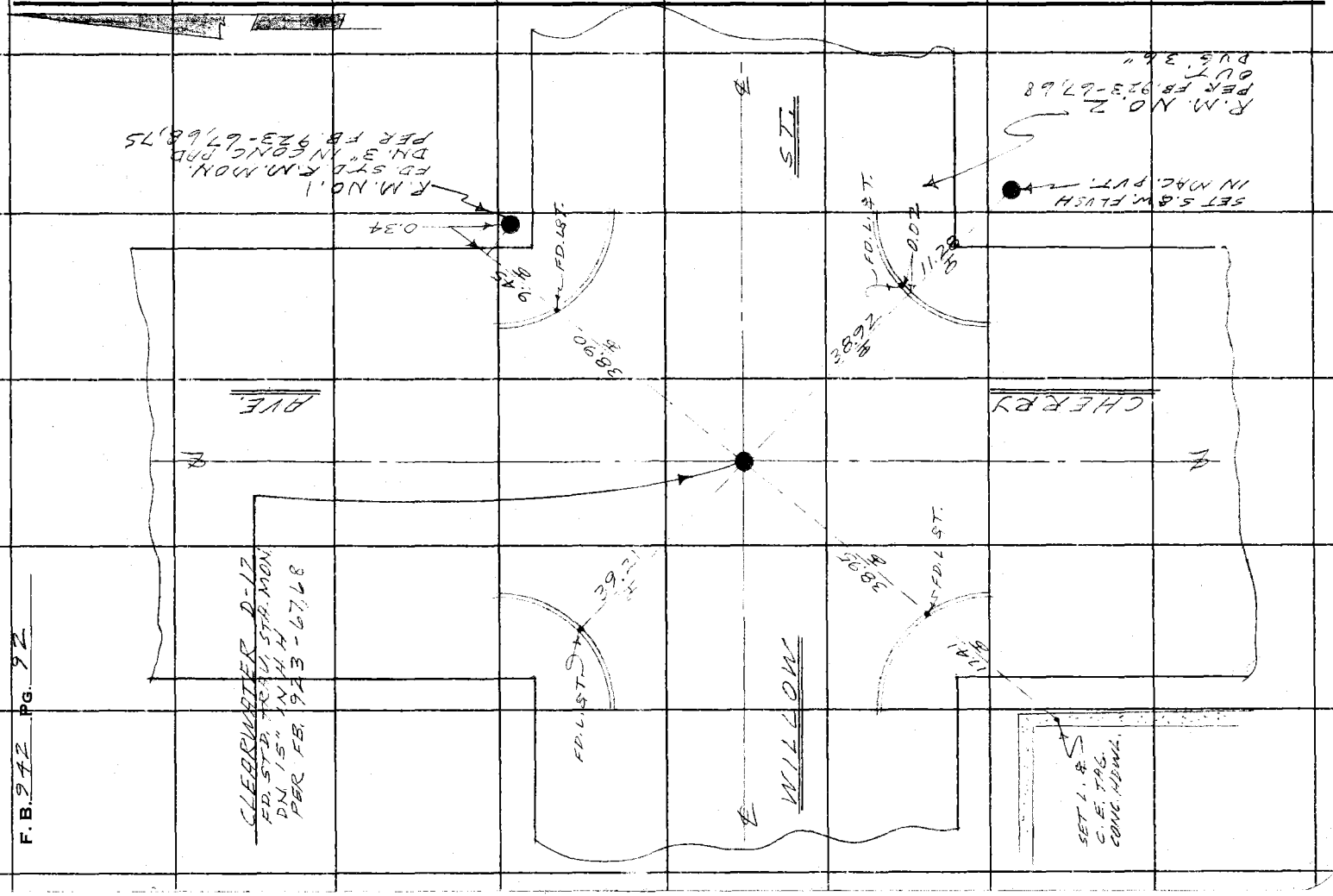
RETURN TO
LOS ANGELES COUNTY ENGINEER
100 LOS ANGELES COUNTY ENGINEERING BLDG.

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.



NOTES RED. JOB NO. 0301.00 SURVEY OF GEODETIC CONTROL F. B. 942 PG. 93

DATE SURVEY BY W. A. RICHARDS

NOTES CHKD. NOTES BY W. A. R. DATE 2-6-64

DATE INDEXED S. L. CAIN DATE

Noted on Re... by Cor...
Placed on ... Quad. ...
Placed on Sec. Div. ...
Sketch on Geo. Desc. Card

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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 ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

76S420 S & E-353 9-55

DESCRIPTION	J.N. 0301.00 PRESERVATION OF MONUMENTS ELEVATION TRANSFER OF CLEARWATER D-12
ADJ. ELEV.	MON. TO BE REMOVED BY CONSTRUCTION
3RD RUN	FOR LOCATION SEE FB. 923-67, 68, 75 " " " " 942-91, 92
2ND RUN	
DIFF.	RICHARDS OCHSNER TURRILL SIEMANN
1ST RUN	
B.M.	

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
CL-D-12	5000.000					CLEARWATER D-12 EL.= (ASSUMED) 5000.00
+	6.773		6.760			STD. TRAV. STA. MON. DN. 15"
π	5006.773	+ 1.666	1.668			PER FB. 923-67, 68, 75
−	5.107		5.092			" " 924-91, 92
T.B.M.#1	5001.666					T.B.M.#1 EL.=
+	5.070		5.058			WILLOW ST. & CHERRY ST., S.E. COR.
π	5006.736	− 1.597	1.597			L. & T. IN CTR. C.R.
−	6.667		6.655			
R.M.#1	5000.069					R.M.#1 EL.=
+	6.640		6.633	6.615		STD. R.M. MON. DN. 3"
π	5006.709	− 0.073	0.069	0.067		FB. 923-67, 68, 75
−	6.713		67.02	6.682		
CL.D-12	4999.996					CLEARWATER D-12 EL.= (ASSUMED) 5000.00
						SEE DESC. FROM

JOB NO. 030100 SURVEY OF GEODETIC CONTROL NOTES RED.
SURVEY BY W. A. RICHARDS DATE
NOTES BY W. A. R. DATE 2-6-64 NOTES CHKD.
INDEXED [redacted] J. GALLI DATE DATE

F.B. ~~924~~ 42 PG. 94

Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 0301.00 Tape 0185 Std 68 °F
Office Work	Surveyed by DREIER
Checked	Notes Bazen Date 7/16/65
Date	Indexed C. J. GALLI JUL 20 '65

F. B. 942 PG. 75

Noted on C.S. Index Card
Placed on U.S. Quad. Shts.
Placed on Cor. Div. W.S. No.
Sketch on Gen. Desc. Card

CADASTRAL TIES
℄ SEVENTH ST., E. OF BELLFLOWER BLVD.
TO TRIANGULATION STATIONS LONG BEACH J-3B, J-3C, & J-3D.

JOB No. 0301.00

DREIER
BAZEN
MATHER
BUSTRUM

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76F309S CE #310 6-63

F. B. 942 Pg. 96

Noted on Geo. Index Card
Plac[illegible] U.S.G.S. Quad. Shts.
Plam[illegible] Sur. Div. W.S. No.
Sketch on Geo. Desc. Card

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Notes Ck'd by	Survey of [illegible]	F. B. 742 Pg. 97
Map No.	JN 0301.00 Tape 0185 Std 68 °F	
Office Work	Surveyed by [illegible]	
Checked	Notes Bazen Date 7/16/65	
Date	Indexed C. J. GALLI	

Noted on Rec. Index Card
Placed on R.G.S. Quad. Shts.
Placed on Bur. Div. W. S. No.
Sketch on Geo. Desc. Card

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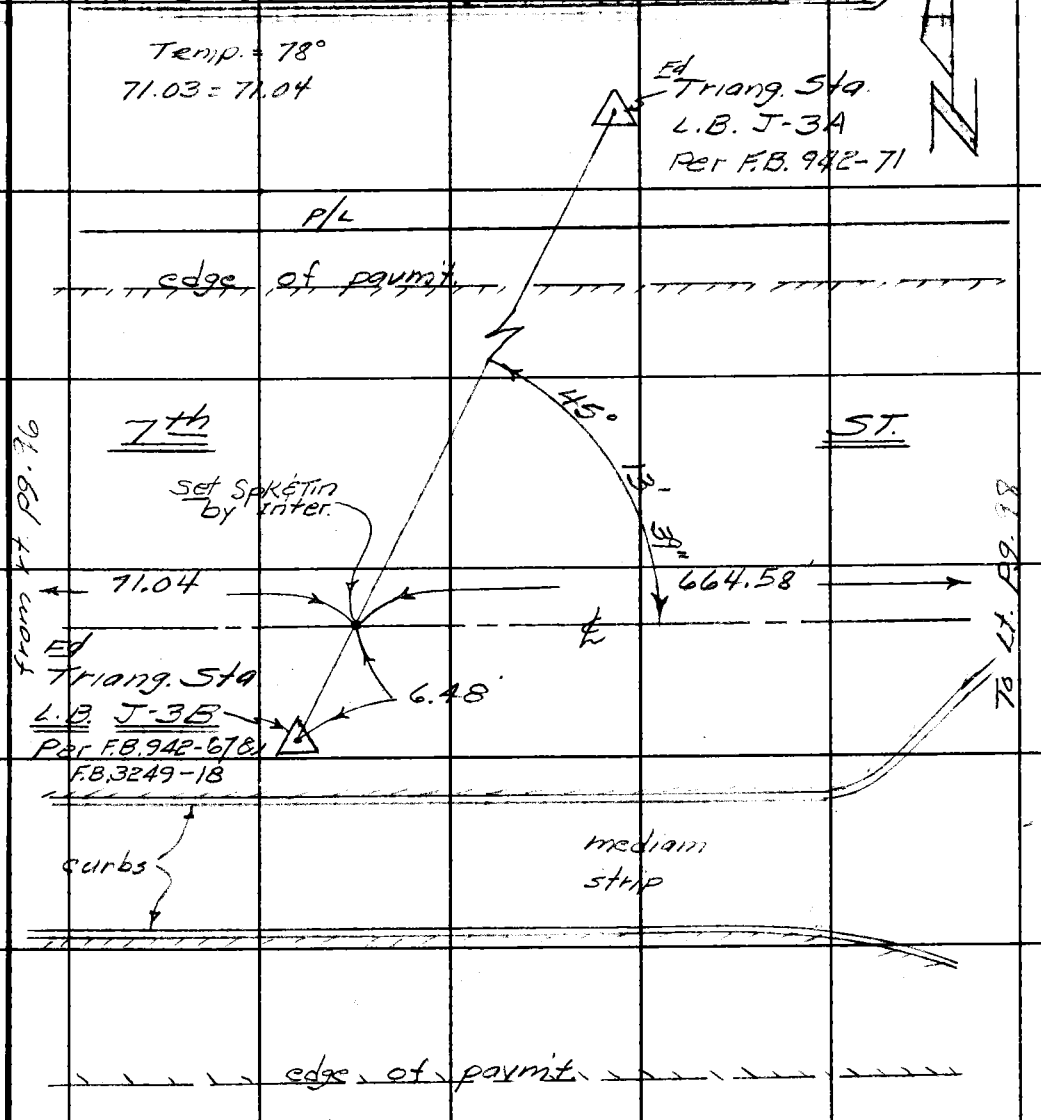
CADASTRAL TIE (L.B J-3B TO ℄ 7TH ST.)



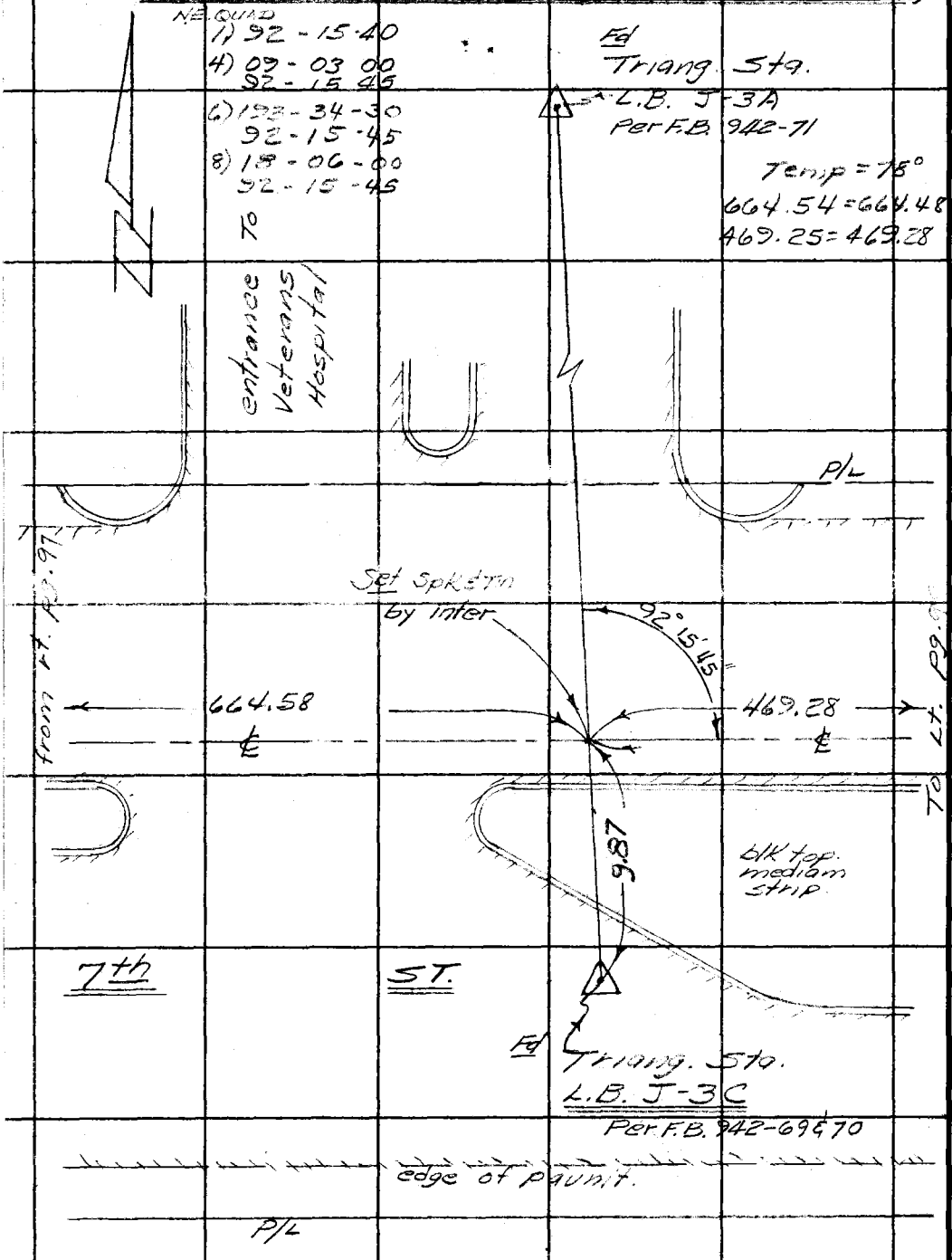
1) 45 - 13 - 40
4) 180 - 54 - 20
45 - 13 - 35
6) 271 - 22 - 00
45 - 13 - 40
8) 01 - 49 - 10
45 - 13 - 39

Temp = 78°
664.54 = 664.58

76F309S CE #310 6-63

F. B. 942 Pg. 78

CADASTRAL TIE (L.B. J-3C TO ℄ 7TH ST)



Noted on Geo. Index Card
Plan U.S.G.S. Quad. Shts.
Place Spr. Div. W.S. No.
Sketch on Geo. Desc. Card

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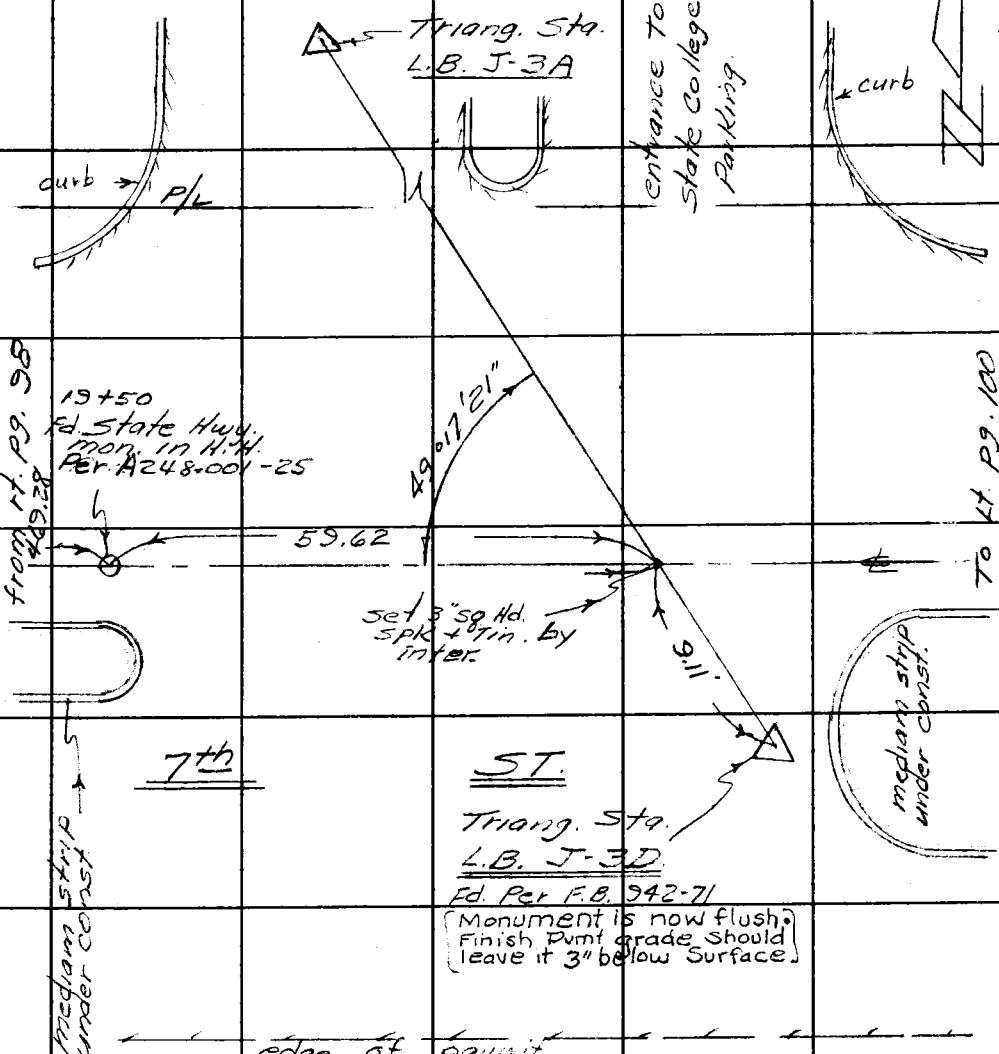
Notes Ck'd by	Survey of Geodetic Control
Map No.	JN 0301.00 Tape 0185 Std 68 °F
Office Work	Surveyed by Dreier
Checked	Notes Bazen Date 7/16/65
Date	Indexed C. J. GALLI

F. B. 942 PG. 99

Noted on Geo. Index Card
Placed on U.S.G.S. Quad. Shts.
Placed on Sur. Div. W.S. No.
Sketch on Geo. Desc. Card

CADASTRAL TIE (L.B. J-3D TO ℄ 7th ST.)



K.&E. #107522

1) 49-17-20
4) 197-09-20
49-17-20
6) 295-44-00
49-17-20
8) 34-18-50
49-17-21 1/4

T = 73°
59.62' = 59.62'
9.11' = 9.11'

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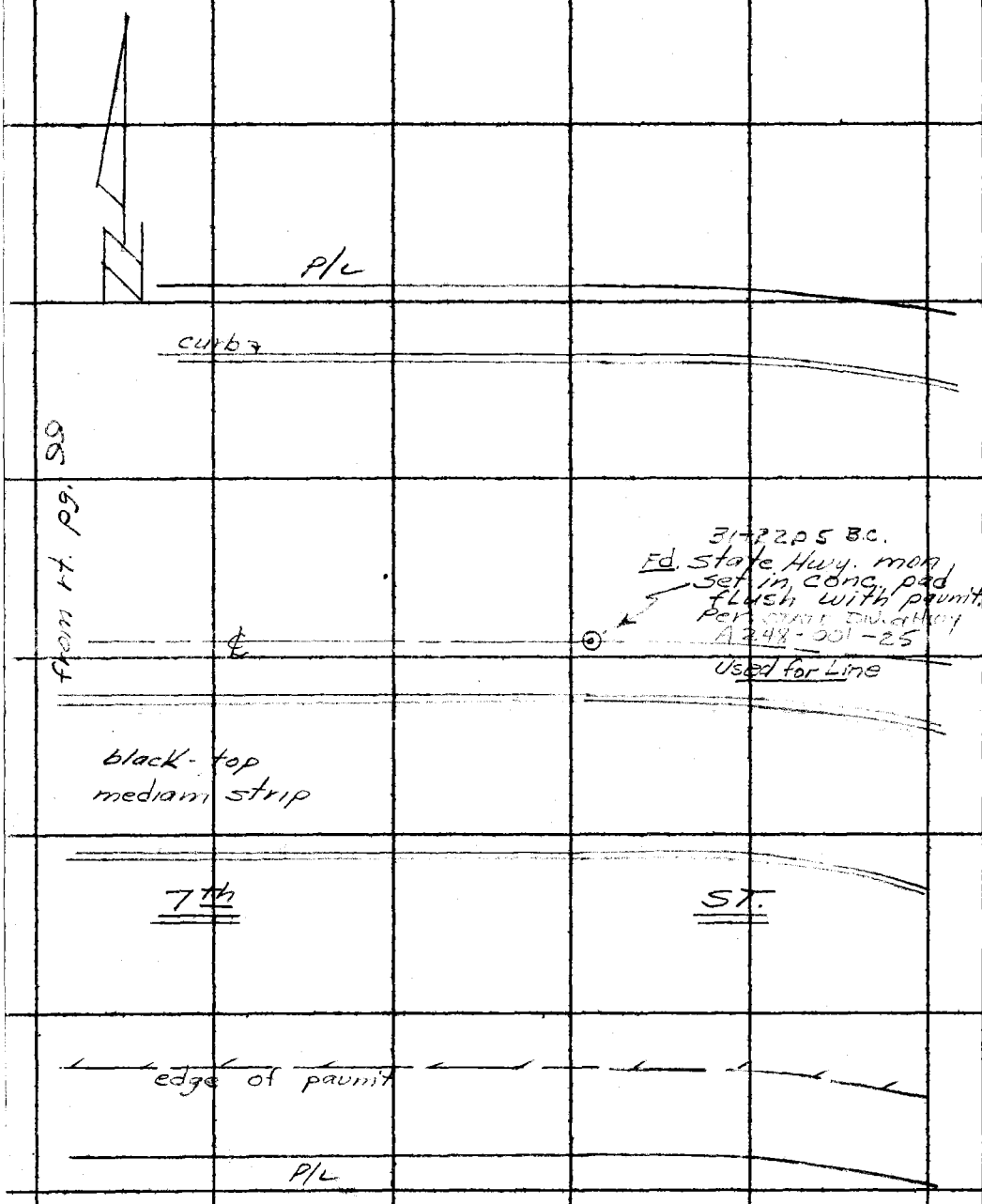
76F309S CE #310 6-63

F. B. 942 Pg. 100



Noted on Geo. Index Card
Placed [illegible] S.G.S. Quad. Shts.
Placed [illegible] Div. W.S. No.
Sketch on Geo. Desc. Card

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3 LOS ANGELES COUNTY ENGINEERING BLDG.

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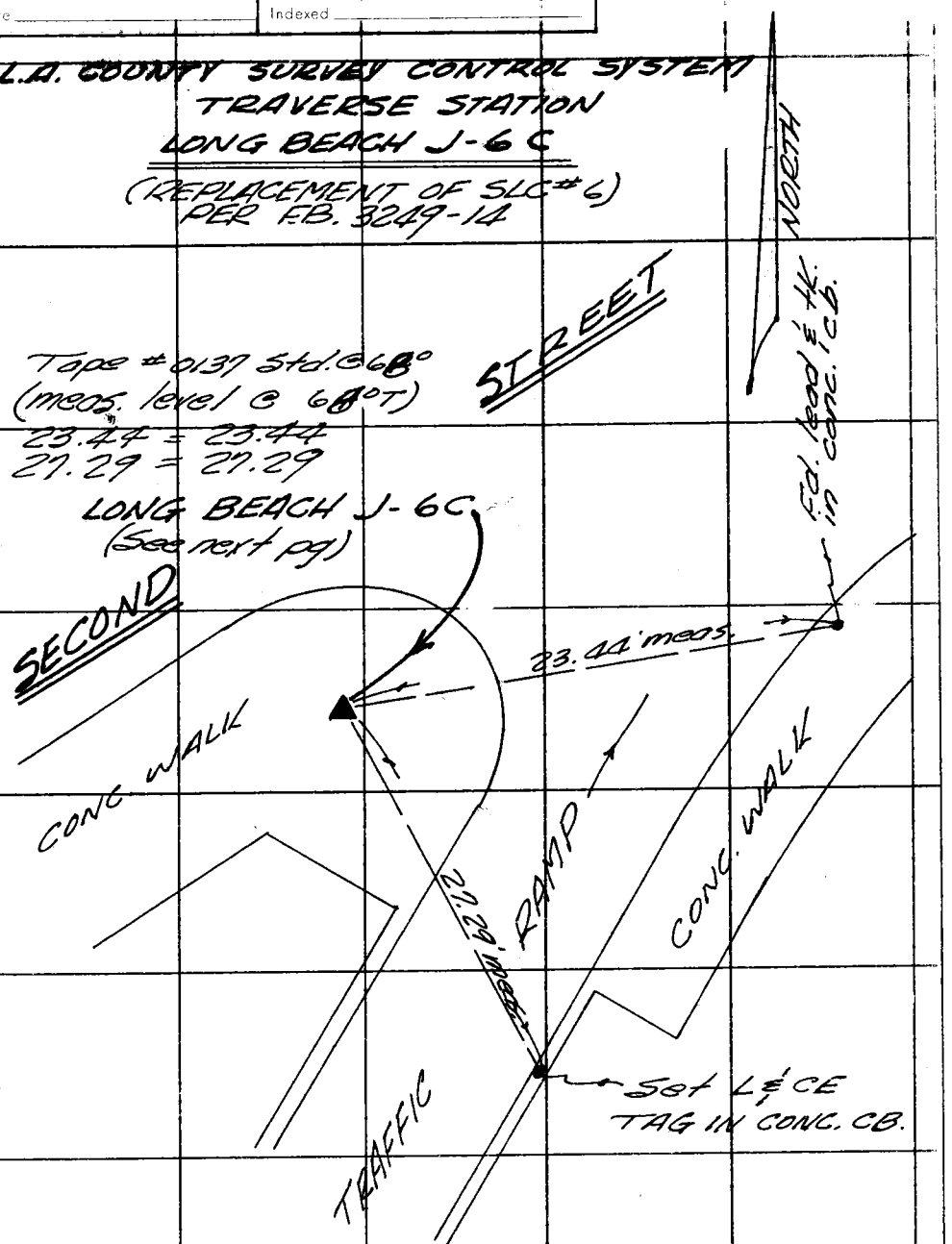
Notes Ck'd by	Survey of L.B. SUB.
Map No.	JN 0301.01 Tape Std °F
Office Work	Surveyed by R C Wilson
Checked	Notes RCW Date 3-5-66
Date	Indexed

F. B. 142 PG. 101

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
LONG BEACH J-6 C

(REPLACEMENT OF SLC#6)
PER F.B. 3249-14



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76F309S CE#310 1-65

F. B. 942 PG. 102 L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION

LONG BEACH J-6C

This traverse station is located in the city of Long Beach on Second Street on the s/ly bridge approach over Marine Stadium 0.5 ± s/ly from Coast Hwy.

STATION MARK: A 4" brass Survey Control Traverse disc, set flush in conc. walk on the eastly side of second Street @ bridge approach over Marine Stadium Stamped: "LONG BEACH J6C 1966 R.E. 5869". This point replacement of "SLC #6" per F.B. 3249-14
Ties set as shown.

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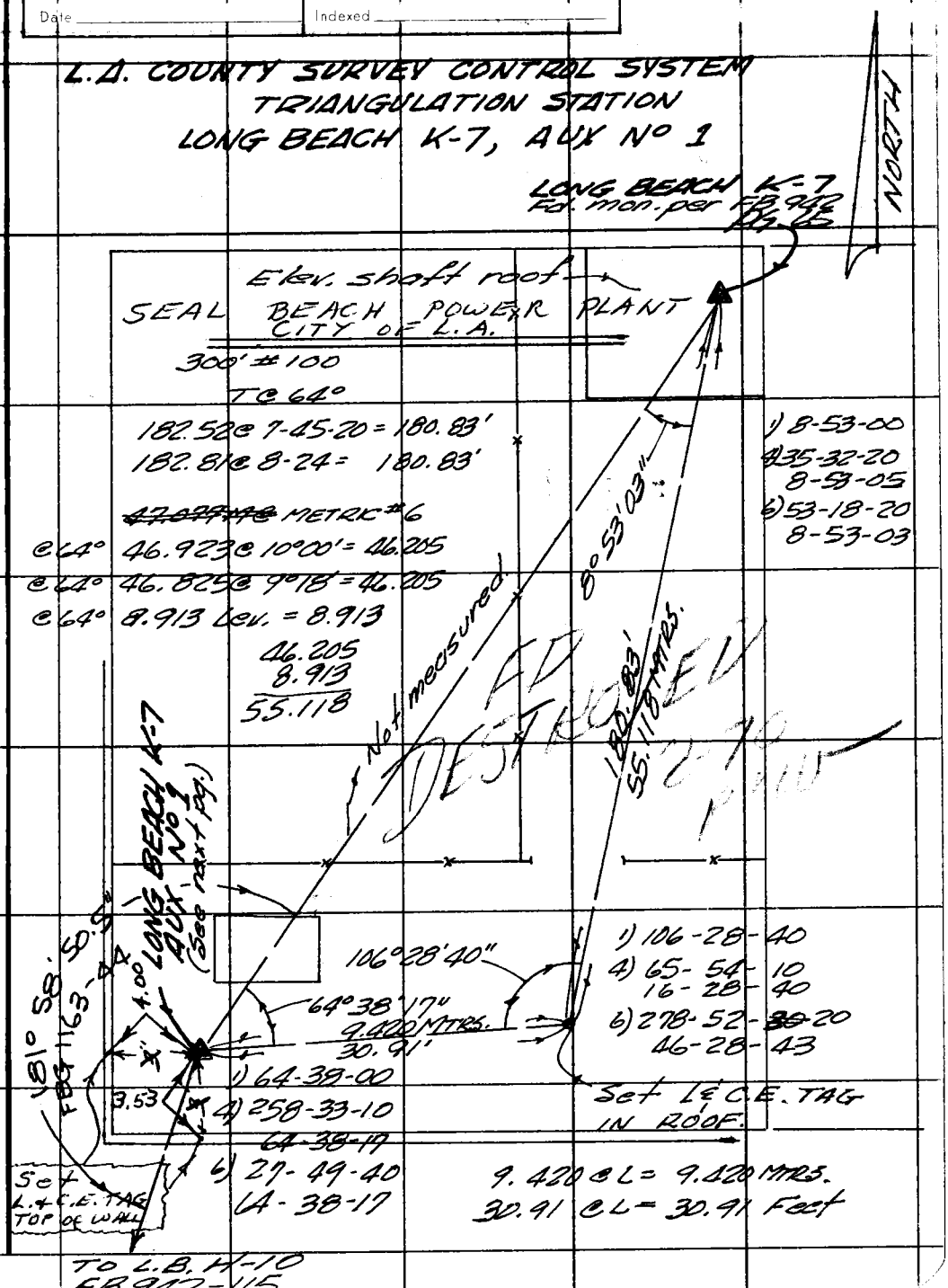
Notes Ck'd by	Survey of LONG BEACH SUB.
Map No.	JN 0301.01 Tape Std °F
Office Work	Surveyed by RCWilson
Checked	Notes RCW Date 3-5-66
Date	Indexed

F. B. 94 PG. 100

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LONG BEACH K-7, AUX No 1



Noted on Geo. Index Card
Placed on U.S. Dept. Shts.
Placed on Geo. Dir. U.S. No.
Sketch on Geo. Dept. Card

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76F309S CE#310 1-65

F. B. 242 PG. 104

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LONG BEACH K-7, AUX No 2

THIS STATION IS LOCATED on top of the highest roof of the City of Los Angeles Seal Beach Power plant, in the City of Seal Beach at the intersection of Ocean Ave. and First Street.

STATION MARK: A 2" Brass TAG set in roof stamped: "AERIAL GEO-TRONICS - MONTREY PARK - CAL - CONTROL" with "KNIGHT ECC" scratched on disc.

REF. MARKS: Set L & CE TAG IN WALL TO WEST 4.00' FROM STATION.
Set L & CE TAG IN WALL TO SOUTH 3.53' FROM STATION.

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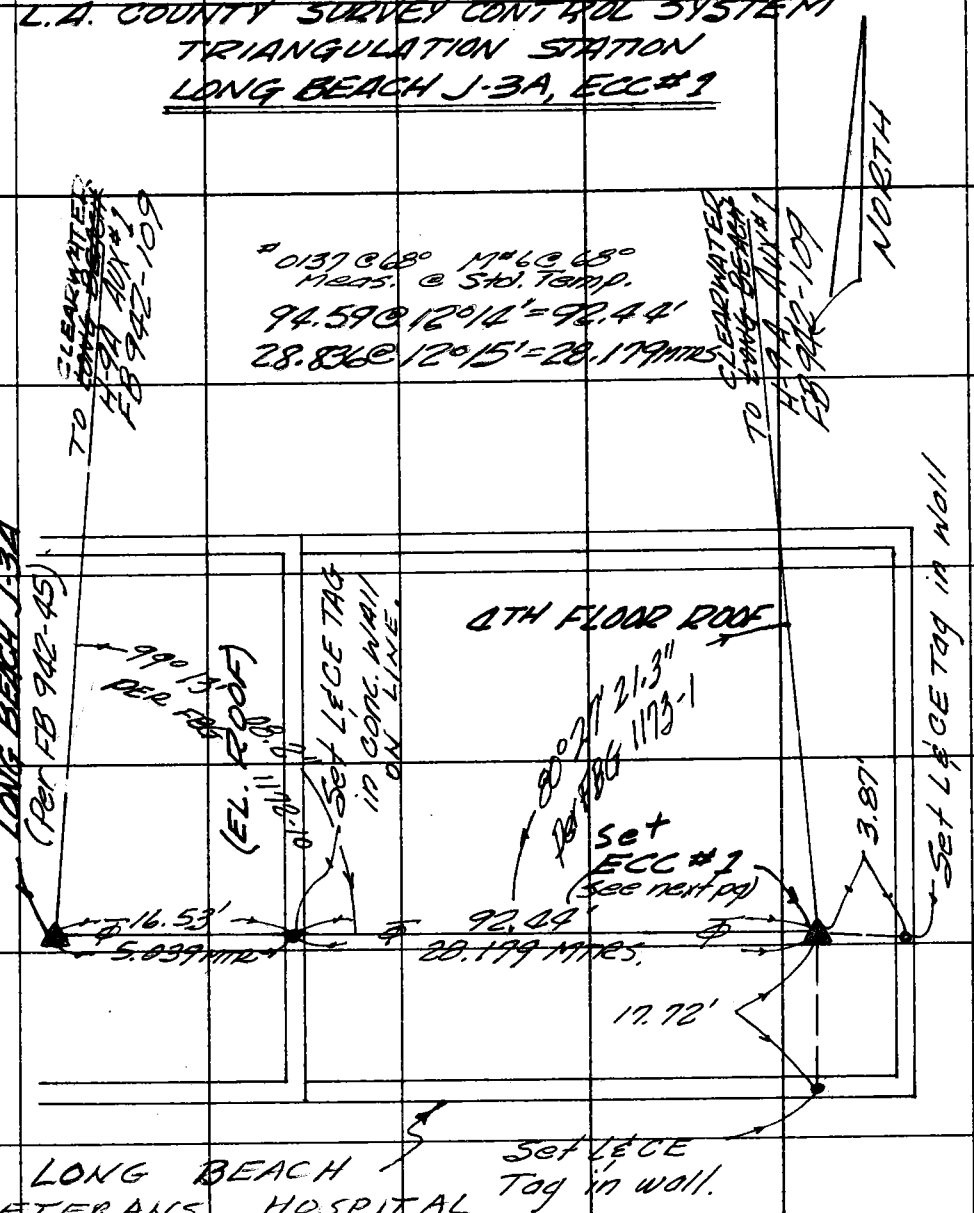
Notes Ck'd by	Survey of LONG BEACH SUB
Map No.	JN 0301.01 Tape Std °F
Office Work	Surveyed by RCWilson
Checked	Notes RCW Date 3-7-66
Date	Indexed

F. B. 942 PG. 102

Noted on Index Card
Placed on U.S. Quad Shts.
Placed on Sur. Div. W.S. No.
Sketch on Geo. Desc. Ca

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LONG BEACH J-3A, ECC#1



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76F309S CE#310 1-65

F. B. 942 PG. 126

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LONG BEACH J-3A, ECC # 1

This station is located in the City of Long Beach, Co. of Los Angeles, at the Long Beach Vet. Hospital & Bellflower Blvd. and 7TH Street.

STATION MARK: A Co. ENGR. Tag set in lead in the conc. roof of the Fourth Floor of the main building. (New structure under const. to south)

Ties set as shown.

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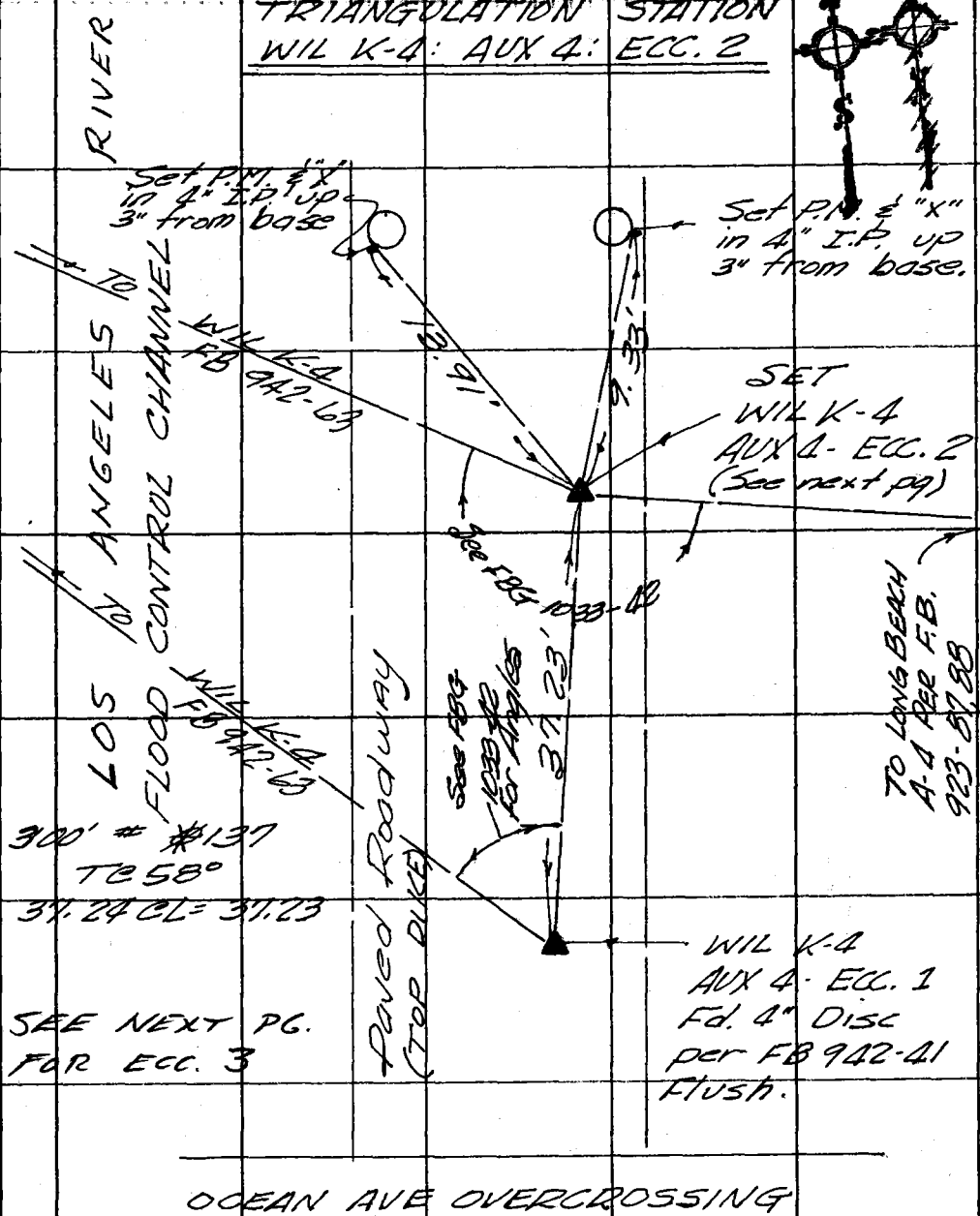
Notes Ck'd by	Survey of Long Beach Sub
Map No.	JN 0301.01 Tape Std. °F
Office Work	Surveyed by RC Wilson
Checked	Notes RCW Date 2-28-66
Date	Indexed

F. B. 742 PG. 101

Noted on Index Card
Placed on U.S. Quad. Shts.
Placed on Sur. Div. W.S. No.
Sketch on Geo. Desc. Card

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
WIL K-4: AUX 4: ECC. 2



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

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76F309S CE#310 1-65

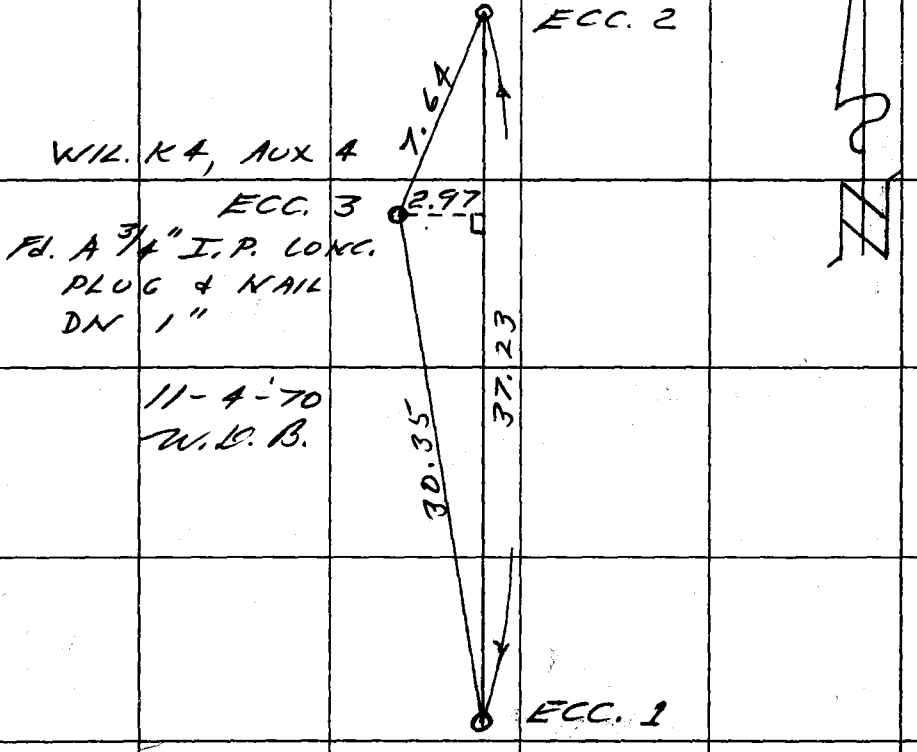
F. B. 942 Pg. 108

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
WIL K4, AUX 4, ECC. 2

This station is in the City of Long Beach, on the top of the east dike of the L.A. River at Ocean Avenue, 61.7' N. of the N. face of the most n'ly bridge pier and 4.0' W. of the E. edge of pav't.

STATION MARK: Set a 1" I.P. flush in pav't with L.A. CO. ENGR. tag in conc. plug.

TIES AS SHOWN:



11-4-70
W.E.B.

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

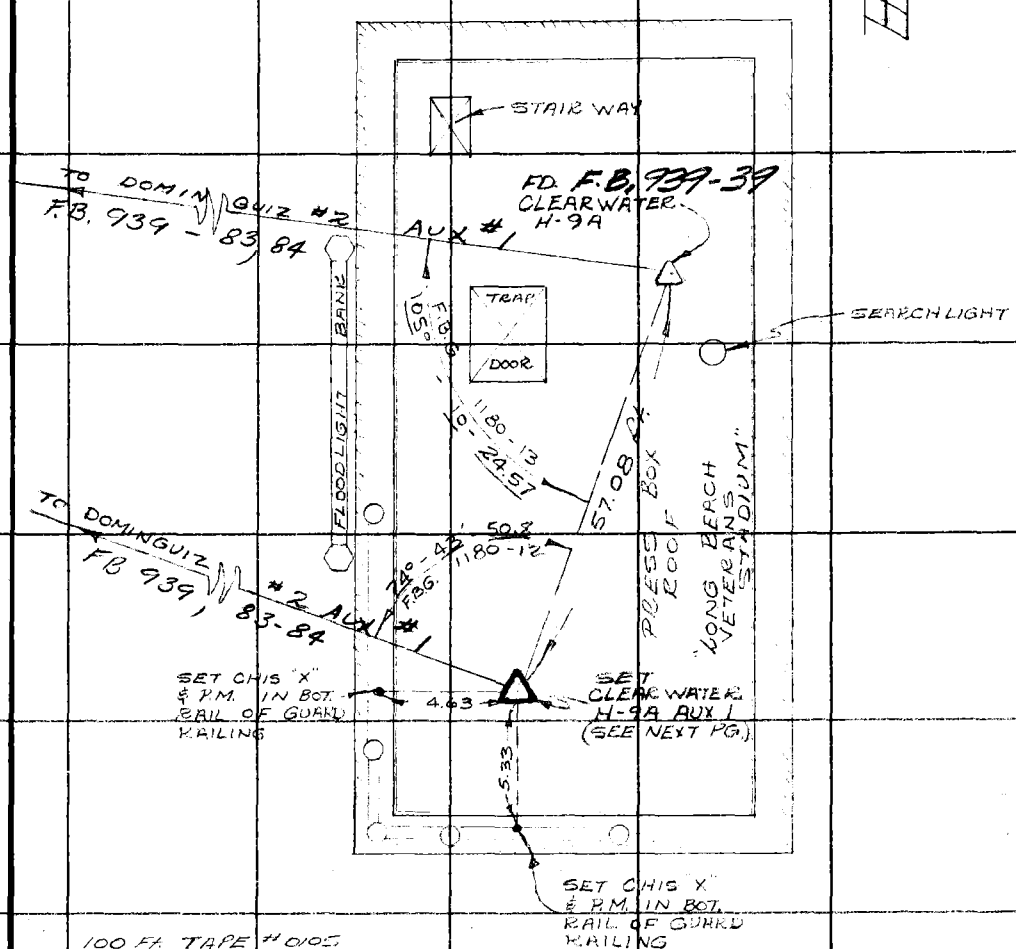
Notes Ck'd by	Survey of Long Beach Sub
Map No.	JN 0301.01 Tape 0105 Std. 68 °F
Office Work	Surveyed by R.C. Wilson
Checked	Notes JGR Date Feb '66
Date	Indexed

F. B. 942 PG. 109

Noted on Geo. Index Card
Placed on U.S.G.S. Quad. Shts.
Placed on Ser. Div. W.S. No.
Sketch on Geo. Desc. Card

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

CLEAR WATER H-9A AUX No 1



100 Ft. TAPE #0105

57.08 @ Lev. @ T = 66° = 57.08 Ft.

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76F309S CE#310 1-65

F. B. 942 PG. 110

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

CLEAR WATER H-9A AUX No 1

AREA:

THIS STATION IS LOCATED IN LOS ANGELES COUNTY, IN THE CITY OF LONG BEACH. NEAR THE INTERSECTION OF CARSON & CLARK STREETS. AND IN THE ROOF OF THE PRESS BOX, OF THE LONG BEACH VETERANS STADIUM.

ROUTE:

FROM THE INTERSECTION OF CARSON ST & CLARK AVE., DRIVE SOUTH ON CLARK ONE BLOCK TO LEW DAVIS ST., TURN RIGHT (WEST) ON LEW DAVIS AND PROCEED ONE BLOCK TO FACULTY ST., TURN LEFT (SOUTH) AND CONTINUE ABOUT ONE BLOCK TO ENTRANCE TO PARKING LOT ON LEFT, (EAST). ENTER PARKING LOT AND DRIVE TO SOUTH SIDE OF STADIUM. PARK HERE AND ENTER STADIUM GROUNDS THROUGH WOODEN SLIDING GATE IN CONCRETE BLOCK WALL. CLIMB TO TOP OF STADIUM AND ENTER PRESS ON THE NORTH SIDE. CONTINUE TO ROOF THROUGH A SERIES OF STAIRWAYS.

STATION MARK:

A COUNTY ENG'R. BRASS TAG, W/ NAIL, IN LEAD, IN A DRILL HOLE IN CONC. ROOF, AND RECESSED IN ASPHALT TILE SHINGLES.

SUB SURFACE MARK:

NONE SET.

REFERENCE MARKS:

SET TIES AS SHOW ON PRECEEDING PAGE

SPECIAL NOTE:

KEYS MUST BE OBTAINED FOR ENTRANCE TO GROUNDS & DOOR OF PRESS BOX.

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Notes Ck'd by	Survey of LONG BEACH SUB
Map No.	JN 0301-01 Tape Std °F
Office Work	Surveyed by RCWilson
Checked	Notes RCW Date 3-7-66
Date	Indexed

F. B. 42 PG. 111

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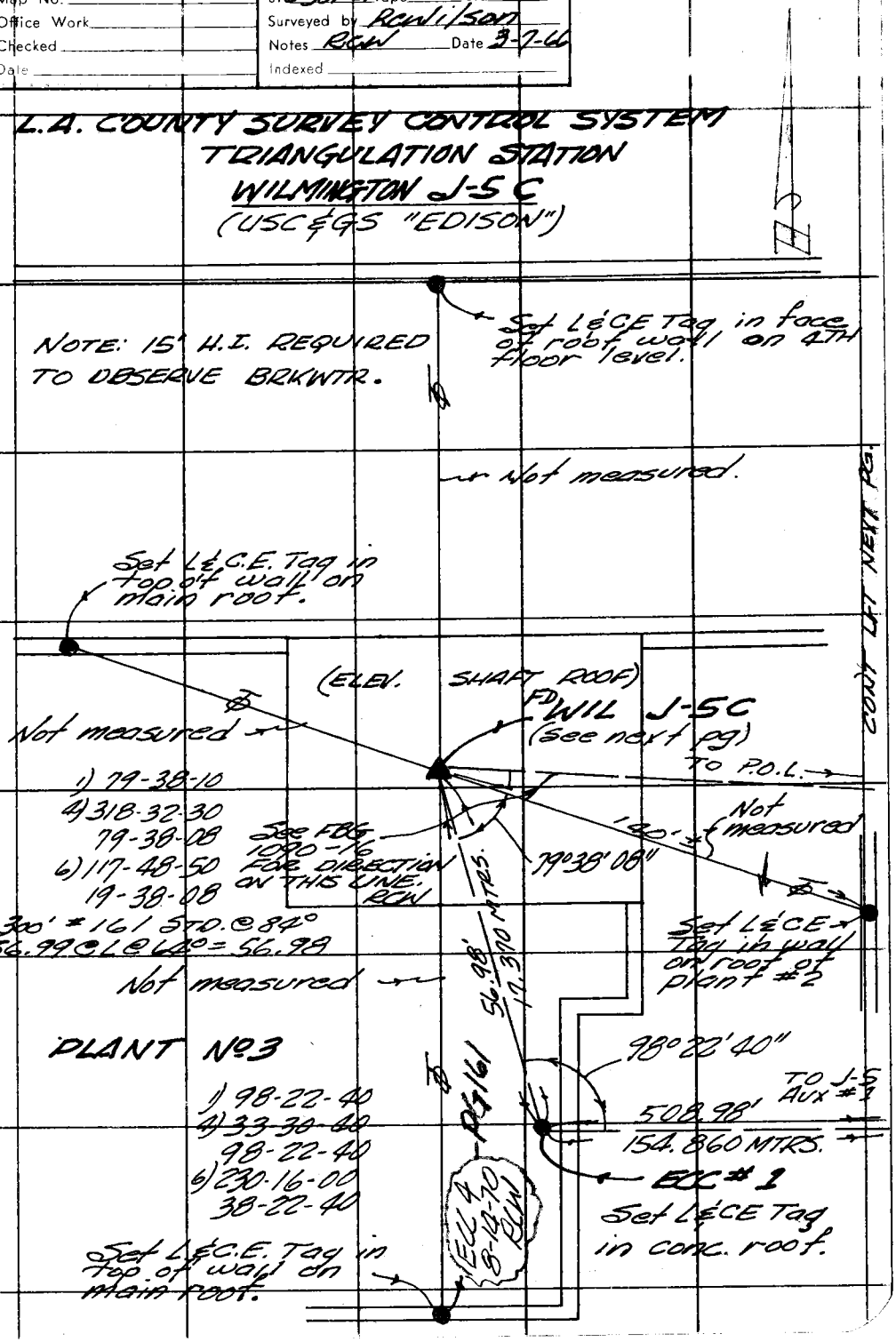
Placed on Sur. Div. W.S. No.
Sketch on Gen. Base Card

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
WILMINGTON J-5 C
(USC&GS "EDISON")



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76F309S CE#310 1-65

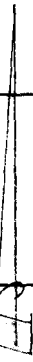
F. B. 942 PG. 112

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
WILMINGTON J-5C

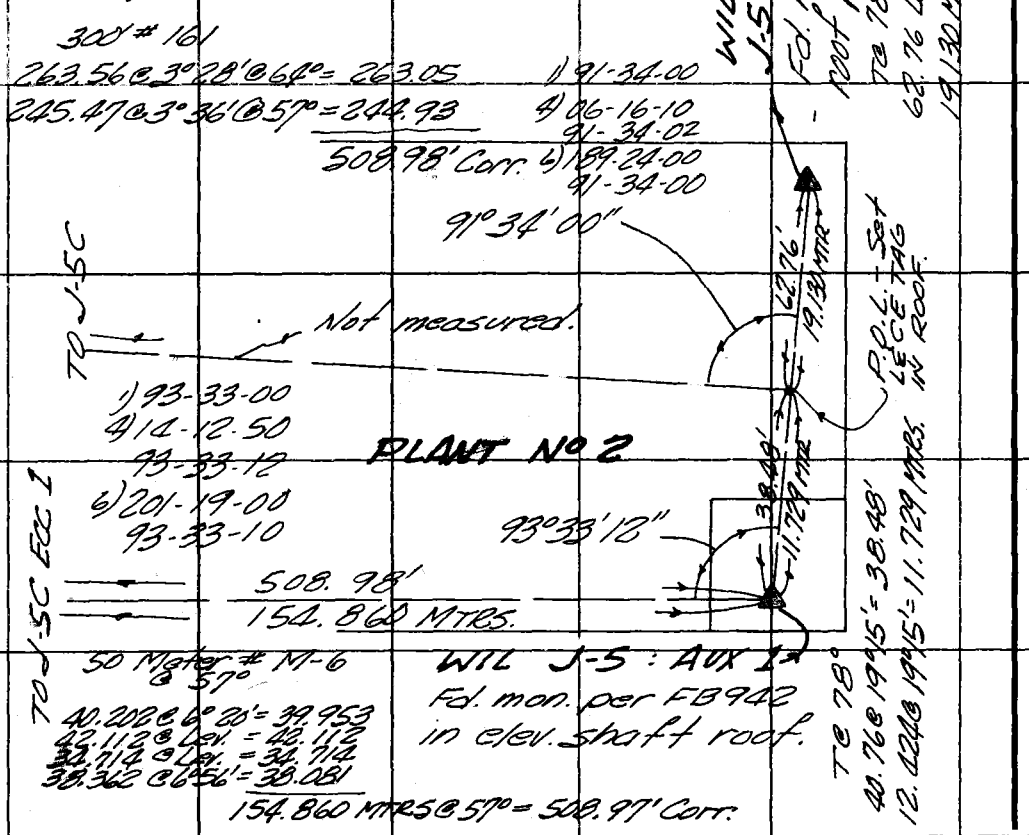
THIS STATION IS LOCATED in L.A. County on top of elev. shaft roof of Plant #3 of the Edison Co. Pwr. Plant on Terminal Island.

STATION MARK: A 4" brass USC&GS Δ mark set flush in roof stamped: "EDISON - 1933"

TAN. TIES SET AS SHOWN.



CONNECTION TO WIL J-5 & J-5 AUX 1 SHOWN BELOW.



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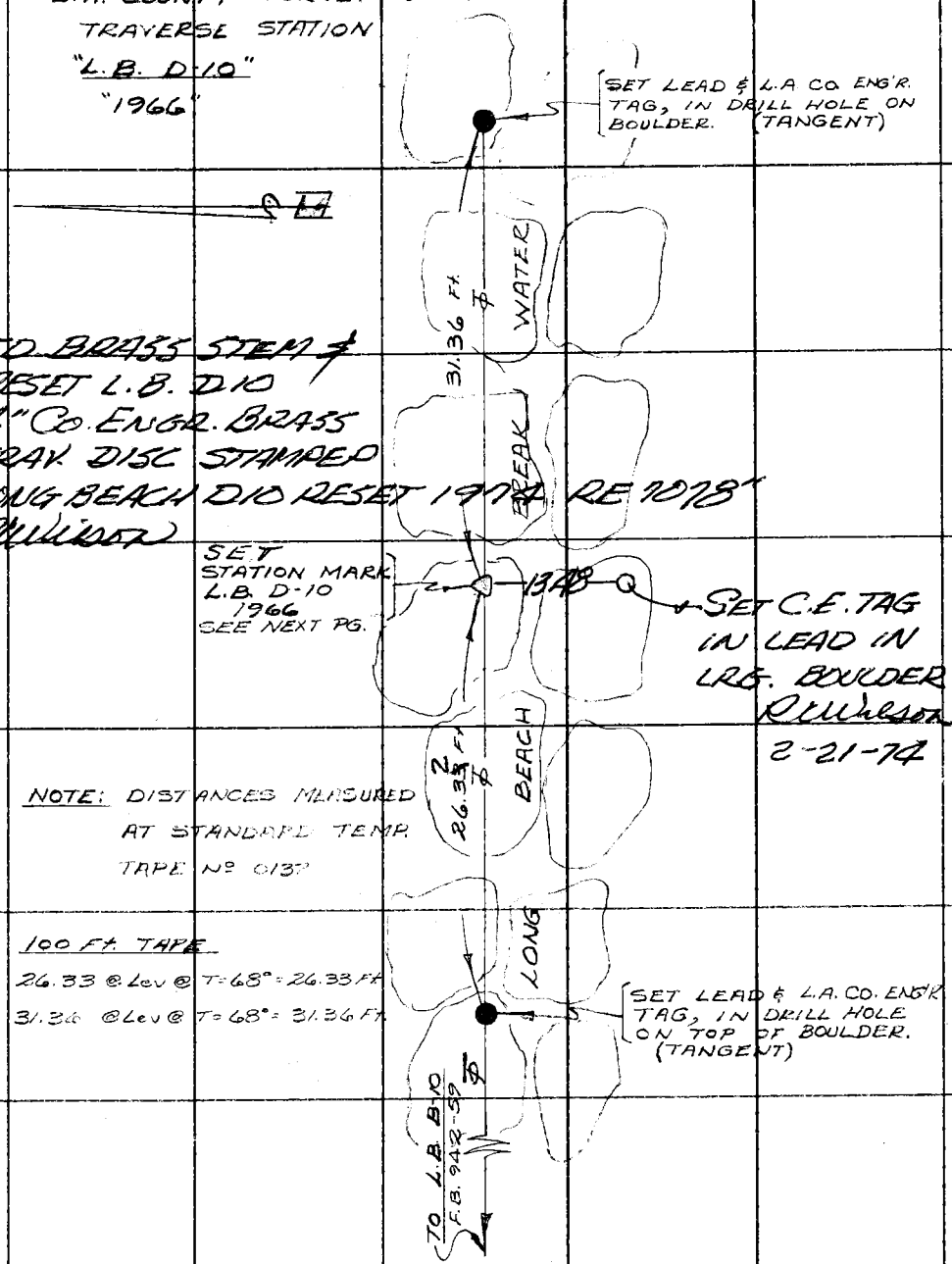
Notes Ck'd by	Survey of L.B. SUB.
Map No.	JN0301.01 Tape 0137 Std 68 °F
Office Work	Surveyed by WILSON
Checked	Notes Randall Date Jun. 66
Date	Indexed

F. B. 942 PG. 113

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
"L.B. D-10"
"1966"



FD. BRASS STEM &
RESET L.B. D10
4" CO. ENGR. BRASS
TRAV. DISC STAMPED
"LONG BEACH D10 RESET 1974 RE 7078"
R.C. Wilson

NOTE: DISTANCES MEASURED AT STANDARD TEMP. TAPE No 0137

100 Ft. TAPE
26.33 @ Lev @ T=68° = 26.33 Ft.
31.36 @ Lev @ T=68° = 31.36 Ft.

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

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Noted on Bus. Index Card
Placed on U.S. Coast Shts.
Placed on Cor. Div. W.S. No.
Sketch on Geo. Desc. Card

76F309S CE#310 1-65

F. B. 742 PG 114

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
~ DESCRIPTION ~

LONG BEACH D-10

LOCATED EAST'LY OF EAST GATE LIGHT HOUSE, APPROX. ONE THIRD OF THE WAY BETWEEN EAST GATE AND THE EAST END OF THE LONG BEACH BREAK WATER, AND ON THE BREAK WATER.

STATION MARK:

SET A 4" BRASS DISK, IN A DRILL HOLE IN A LARGE BOULDER. AND MARKED AS FOLLOWS: " LOS ANGELES COUNTY SURVEY CONTROL SYSTEM, TRAVERSE STATION, LONG BEACH D-10, 1966, L.A. CO. ENG'R. R.E. 5860." SET FLUSH.

REFERENCE MARKS:

SET LEAD & L.A. CO. ENG'R TAGS, TANGENT. AS SHOWN, AND ON LINE TO L.B. B-10.

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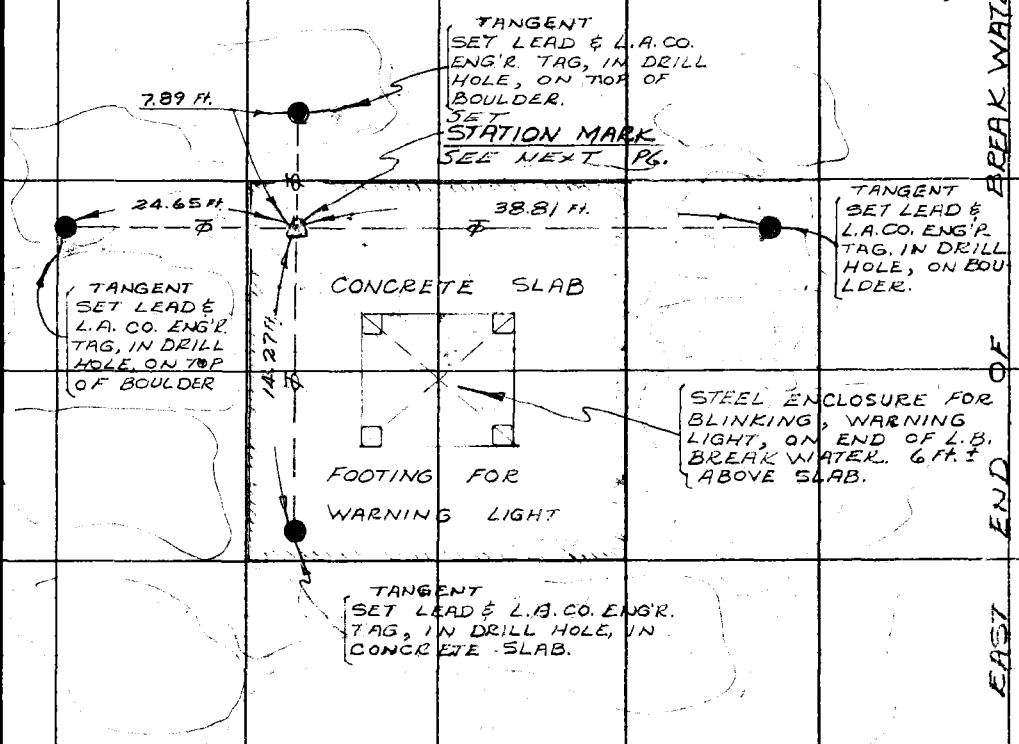
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of L. B. SUB.
Map No.	JN 0301.01 Tape 0137 Std 68 °F
Office Work	Surveyed by Wilson
Checked	Notes Randall Date Jun '66
Date	Indexed

F. B. 942 PG. 115

Noted on Geo. Index Card
Placed on U.S.G.S. Quad. Shts.
Placed on Ser. Div. W.S. No.
Sketch on Geo. Desc. Card

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION ~ TRAVERSE
STATION LONG BEACH H-10
1966



NOTE: DISTANCES SHOWN WERE MEASURED AT STANDARD TEMP., TAPE Nº 0137 NO CORRECTIONS.

100 Ft. TAPE
7.89 @ Lev. @ T = 68° = 7.89 Ft.
14.27 @ Lev. @ T = 68° = 14.27 Ft.

38.81 @ Lev @ T = 68° = 38.81 Ft.
24.65 @ Lev @ T = 68° = 24.65 Ft.

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

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76F309S CE#310 1-65

F. B. 942 PG 116

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
~ DESCRIPTION ~

LONG BEACH H-10

IS LOCATED ON THE LONG BEACH BREAK-WATER, AT THE MOST EASTERLY END OF SAME, AND IS IN THE N.W. CORNER OF A CONCRETE SLAB, (APPROX. 20'x20') FOOTING FOR THE BLINKING WARNING LIGHT, AT THE EAST END OF THE BREAKWATER

STATION MARK:

SET A 4" BRASS DISK, IN A DRILL HOLE IN A CONCRETE SLAB. MARKED AS FOLLOWS:

"LOS ANGELES COUNTY SURVEY CONTROL SYSTEM, TRAVERSE STATION, LONG BEACH H-10, 1966, L.A. CO. ENG'R, R.E. 5869." SET FLUSH.

REFERENCE MARKS:

SET LEAD & L.A. CO. ENG'R. TAGS, TANGENT AS SHOWN.

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

Notes Ck'd by	Survey of Long Beach Sub
Map No.	JN 0301.01 Tape Std °F
Office Work	Surveyed by Wilson
Checked	Notes Randall Date Jun '66
Date	Indexed

F. B. 942 PG. 117 ✓

Noted on Geo. Index Card
Placed on G.S. Quad. Shts.
Placed on Geo. Div. W. S. No.
Sketch on Geo. Desc. Card

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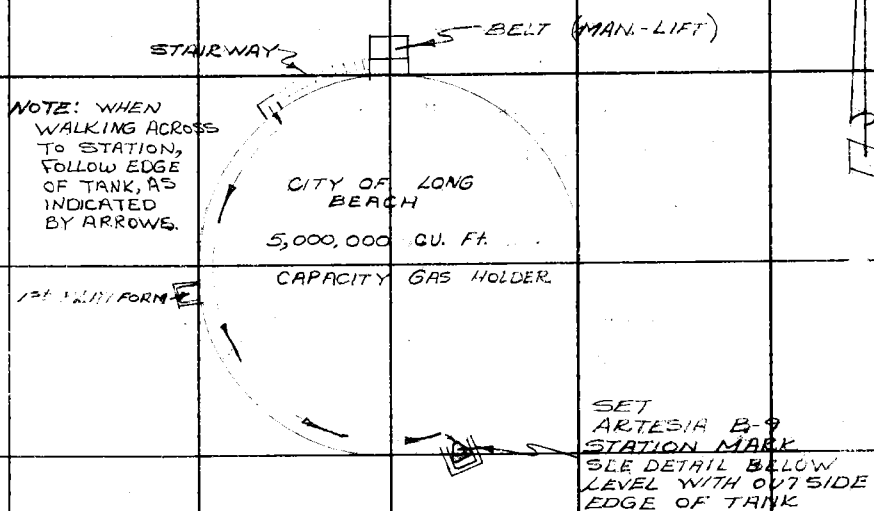
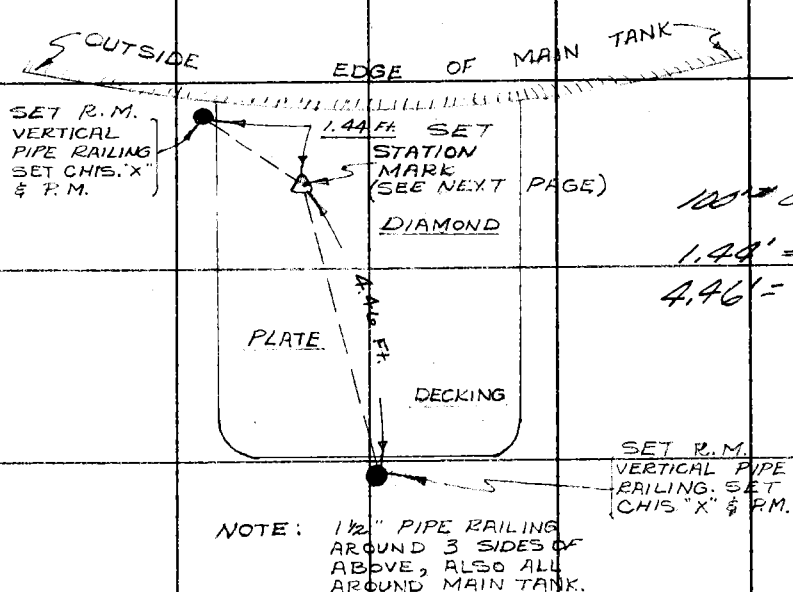
LOS ANGELES COUNTY SURVEY CONTROL SYSTEM TRIANGULATION STATION

ARTESIA B-9



DETAIL OF STATION MARK



100' = 0137 @ 68°

1.44' = 1.44'

4.46' = 4.46'

76F309S CE#310 1-65

F. B. 942 PG. 118

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
ARTESIA B-9

AREA:

THIS STATION IS LOCATED IN THE CITY OF LONG BEACH, ON TOP OF AND ON THE SOUTH EDGE OF THE CITY OF LONG BEACH GAS HOLDER. NEAR THE NORTH BDRY. OF EL DORADO PARK GOLF COURSE.

ROUTE:

FROM THE INTERSECTION OF LOS COYOTES DIAGONAL AND CARSON ST, PROCEED EASTERLY ON CARSON 2000' ±, ACROSS THE SAN GABRIEL RIVER, TO A PAVED STREET ON THE RIGHT (SOUTH), TURN RIGHT (SOUTH) ON PAVED STREET, PROCEED 500' ± TO LONG BEACH CITY GAS COMPANY PLANT & 5 MILLION CU. FT. GAS HOLDER, ON THE LEFT (EAST). SEE NOTE BELOW FOR SPECIFIC INSTRUCTIONS FROM POINT.

STATION MARK:

SET A 1/8" DRILL HOLE IN DIAMOND PLATE DECKING.

REFERENCE MARKS:

SET CHIS. "X" & R.M. IN 1½" PIPE RAILING, UP 12" ABOVE DECKING. BOTH R.M.'S ARE IDENTICAL.

NOTE:

SPECIAL INSTRUCTIONS.

PERMISSION MUST BE GAINED TO ENTER FENCED AREA & GAS HOLDER. CONTACT MR. WRIGHT AT MAIN OFFICE. PERMISSION COULD TAKE A FEW DAYS TO CLEAR. THERE ALSO MUST BE NO LESS THAN TWO MEN ON STATION.

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403 Los Angeles County Engineering Bldg.
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Notes Ck'd by	Survey of GEODETIC CONTROL	F.B. 942 Pg. 119
Map No.	JN 0301.00 Tape Std °F	
Office Work	Surveyed by R. C. Wilson	
Checked	Notes R. C. Wilson Date	
Date	Indexed C. J. GALLI AUG 0 2 '67	

Noted on Map Index Card
Placed G.S.D. Bind. Shts.
Placed on Div. W.S. No.
Sketch on Bus. Desc. Card

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GEODETIC CONTROL

PRESERVATION OF L.A. CO.
TRIANG. STA LONG BEACH K-7
AND
LONG BEACH K-7, AUX 1
6-23-67
(FL# 4835)

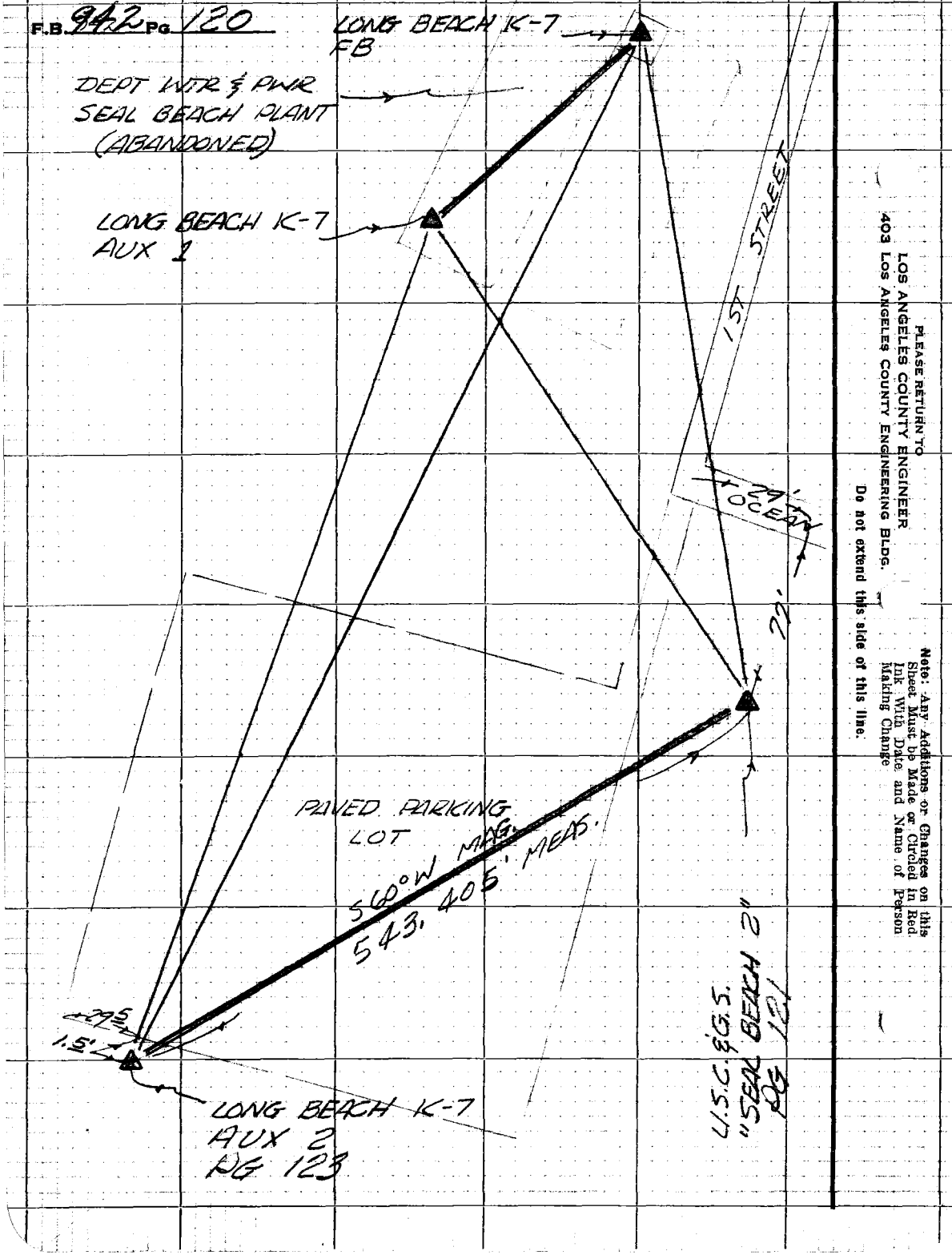
JN 0301.00

REF: FB 942 - 65, 103

WILSON
ADAMS
MANLEY
TOLLIER

76P3098 CE #310 5-66

F.B. 942 PG. 120



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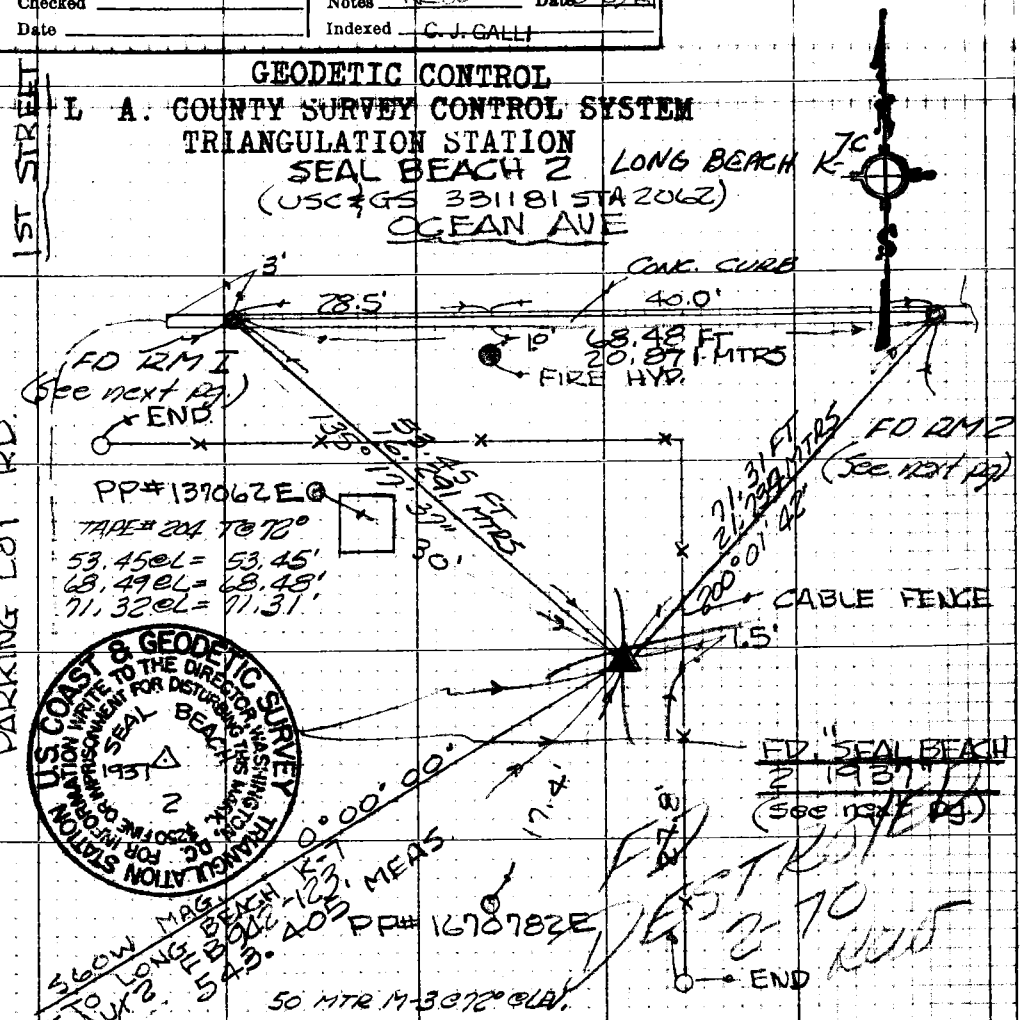
Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN0301 OC Tape Std °F
Office Work	Surveyed by RCWILSON
Checked	Notes RCW Date 6-23-67
Date	Indexed C. J. GALLI

F.B. 942 Pg. 121

GEODETIC CONTROL
L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
SEAL BEACH 2
(USC&GS 331181 STA 2062)



16.291 = 16.291 MTRS
20.874 = 20.871 MTRS
21.737 = 21.734 MTRS

DIR TO RM'S
PER FBG 1223-2
T2# 110469
(SKETCH OUT OF PORP. NOT TO SCALE LINE TO RM 2 SHOULD BE TO RT OF LINE PROD FROM K-7 AUX 2.)

TAPE # 204 T@70°

200.50@L =	200.48'
275.02@2°54' =	274.65'
68.28@L =	68.28'
	543.41'

TAPE # 221 T@70°

275.19@3°28' =	274.66'
200.50@L =	200.48'
68.27@L =	68.26'
	543.40'

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76P3098 CE #310 5-66

F.B. 942 Pg 122

GEODETIC CONTROL

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

SEAL BEACH 2 LONG BEACH K-7 C

AREA: THIS STATION IS LOCATED IN ORANGE COUNTY 500'± FROM THE ORANGE - LA COUNTY LINE IN THE CITY OF SEAL BEACH.

ROUTE: FOLLOW SAN DIEGO FREEWAY TO BELLFLOWER BLVD. OFF RAMP, THENCE SLY TO PACIFIC COAST HWY, THENCE S'ELY TO 2ND ST (IN LONG BEACH), THENCE PAST LONG BEACH MARINA CROSSING SAN GABRIEL RIVER CHANNEL TO 1ST ST (CITY OF SEAL BEACH) THENCE SWLY TO OCEAN. STA 15 LOCATED 29' ELY & 20' SLY FROM THE INTER. OF 1ST ST & OCEAN.

STATION MARK: A U.S.C.&G.S. 4" BRASS TRIANG. DISC STAMPED "SEAL BEACH 2 1937" SET IN CONC. RD FLUSH. NO RECORD OF SUB-SURFACE MARK.

REFERENCE MARKS:

RM 1: A USC&GS 4" BRASS REF MARK DISC STAMPED "SEAL BEACH 2 NO 1" SET IN CONC CURB.

RM 2: SAME AS 1 STAMPED "NO 2"

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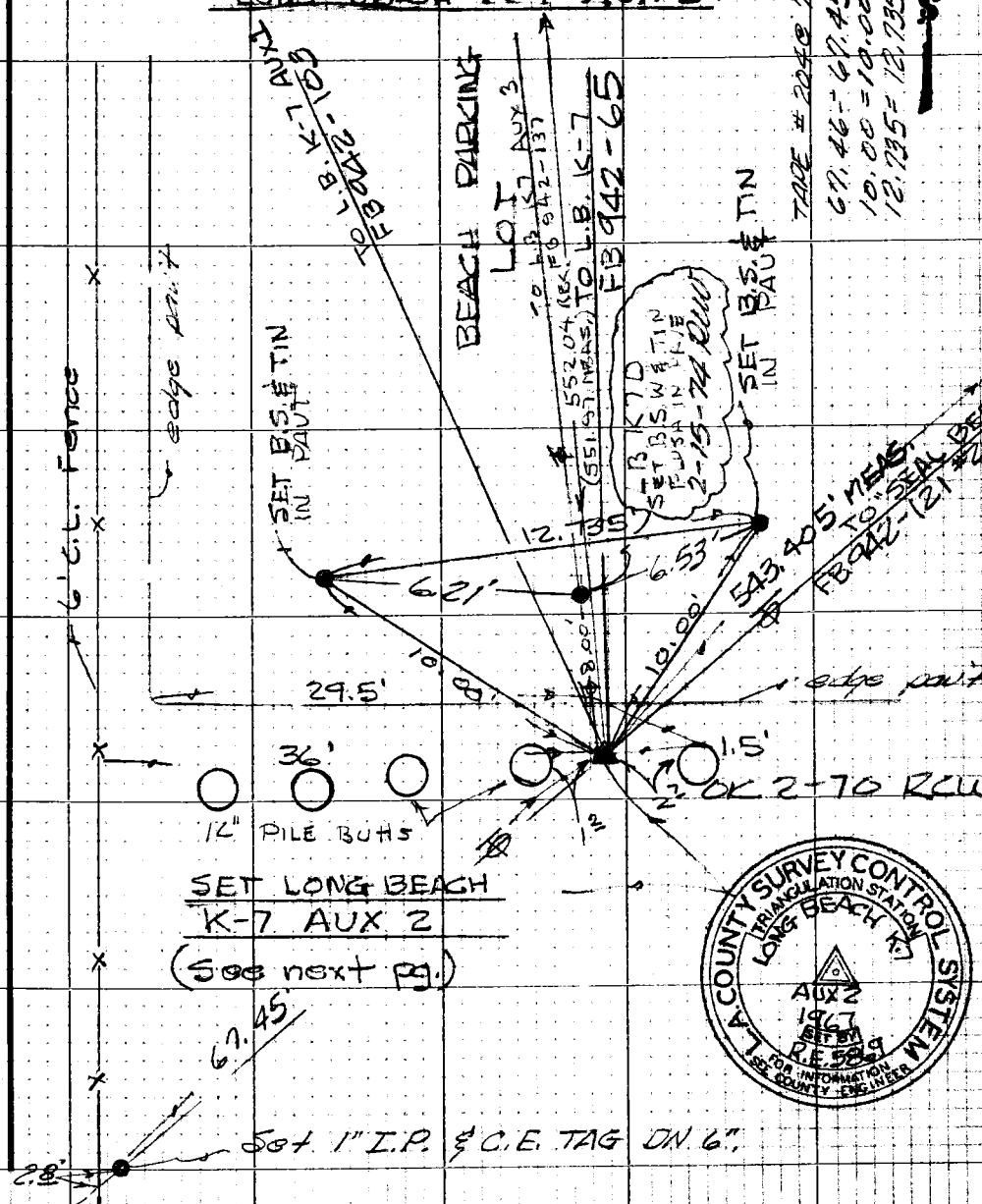
Notes Ck'd by	Surveyed by GEODETIC CONTROL	F.B. 942 Pg. 123
Map No.	JN 0301.00 Tape Std °F	
Office Work	Surveyed by RCWilson	
Checked	Notes RCW Date 6-23-67	
Date	Indexed C. J. GALLI	

GEODETIC CONTROL

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LONG BEACH K-7 AUX 2



Noted by Rev. Index Card
Placed on G.S. Sheet Sheet
Placed on Div. W.S. No.
Sketch on Geo. Desc. Card

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403 Los Angeles County Engineering Bldg.

76P3098 CE #310 5-66

F.B. 942 Pg 124

GEODETIC CONTROL

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LONG BEACH K-7 AUX 2

AREA: THIS STATION IS LOCATED IN ORANGE COUNTY 250'± FROM THE LA/ORANGE COUNTY LINE AT THE SLY. END OF CITY OF SEAL BEACH PAVED PARKING LOT IN THE CITY OF SEAL BEACH, 500' SO. & 200' W. OF THE INTER. OF 1ST ST & OCEAN.

ROUTE: FOLLOW COAST HWY TO 2ND STREET (IN LONG BEACH) THENCE PAST LONG BEACH MARINA CROSSING SAN GABRIEL RIVER CHANNEL TO 1ST ST IN THE CITY OF SEAL BEACH THENCE SLY TO OCEAN. THE STATION IS AT THE SWLY CORNER OF PAVED PARKING AREA.

STATION MARK: A 4" L.A. CO. SUR. CONT. SYS. BRASS TRIANG. DISC STAMPED "LONG BEACH K-7 AUX 2 1967 RE 5869" SET IN 6" CONC. POST 1.5' SLY FROM EDGE OF PAVT. (FLUSH)

REFERENCE MARKS:

SET 6.5.3 TIN SURFACE TIES & 1" I.D. ON LINE PROD FROM "SEAL BEACH 2" AS SHOWN.

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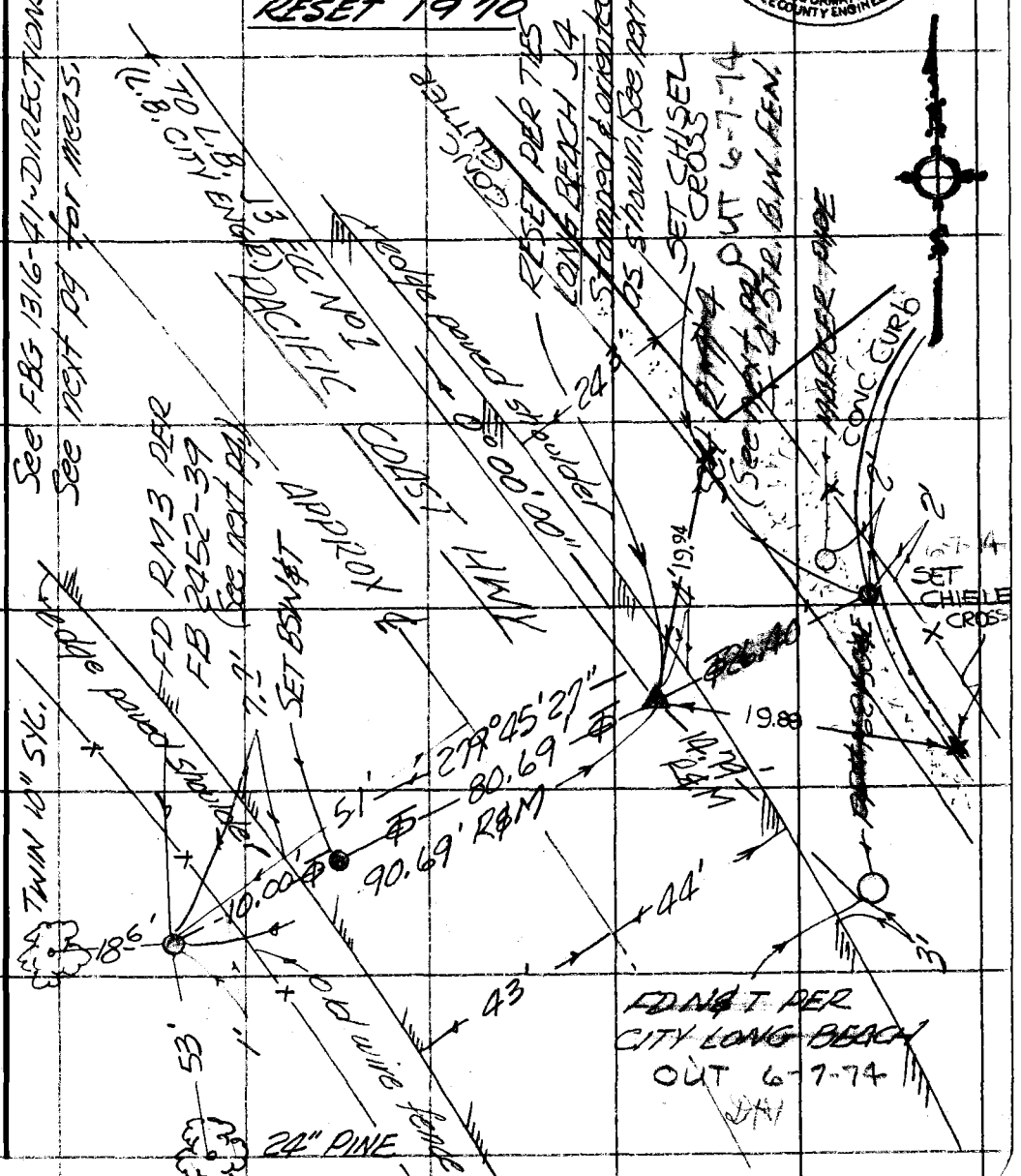
GEODETIC CONTROL

Notes Ck'd by	Survey of LONG BEACH SUB
Map No.	JN 0301-01 Tape 0135 Std 68 °F
Office Work	Surveyed by W. Isom
Checked	Notes RCW Date 1-13-70
Date	Indexed C. J. GALLI

F. B. 948 PG. 125

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
LONG BEACH J-4
RESET
SET BY RE 5869
FOR INFORMATION SEE COUNTY ENGINEER

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
LONG BEACH J-4A
RESET 1970



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

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DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-68

F. B. 942 PG. 126

LONG BEACH J-4 A

GEODETIC CONTROL
L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION

MEASUREMENTS

100' # 0135 @ LC 68°

10.00' = 10.00' 26.40' = 26.40'

80.69' = 80.69' 14.79' = 14.79'

AREA: This trav. sta. is located in L.A. Co. in the city of Long Beach on Pacific Coast Hwy 700'± So. of the intersection of Bellflower Blvd. & Pacific Coast Hwy, on the n'ly side of Coast Hwy.

STATION MARK: A 4" L.A. Co. Sur. Cont. S/S. brass traverse disc stamped "LONG BEACH J4 RESET 1970 RE 5869" set in conc. patch, flush with conc. pavement.

REFERENCE MARKS:

RM's No 1 & No 2 are destroyed.

RM No 3: A 2" Iron pipe set in conc. with C.E. Tag in ctr, dn 12"

~~RM No 4: A 2½" L.A. Co. Engr. brass disc stamped "LONG BEACH J4 RM4 1970 RE 5869" 2' above grd, and set in a 6" conc. post.~~

RM4 Fd. destroyed 6-7-74 RCulhane

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Notes Ck'd by	Survey of L.B. Sub. Sur.
Map No.	JN 0301.01 Tape 204 Std 84 °F
Office Work	Surveyed by Wilson
Checked	Notes RLW Date 1-23-70
Date	Indexed C. J. GALLI

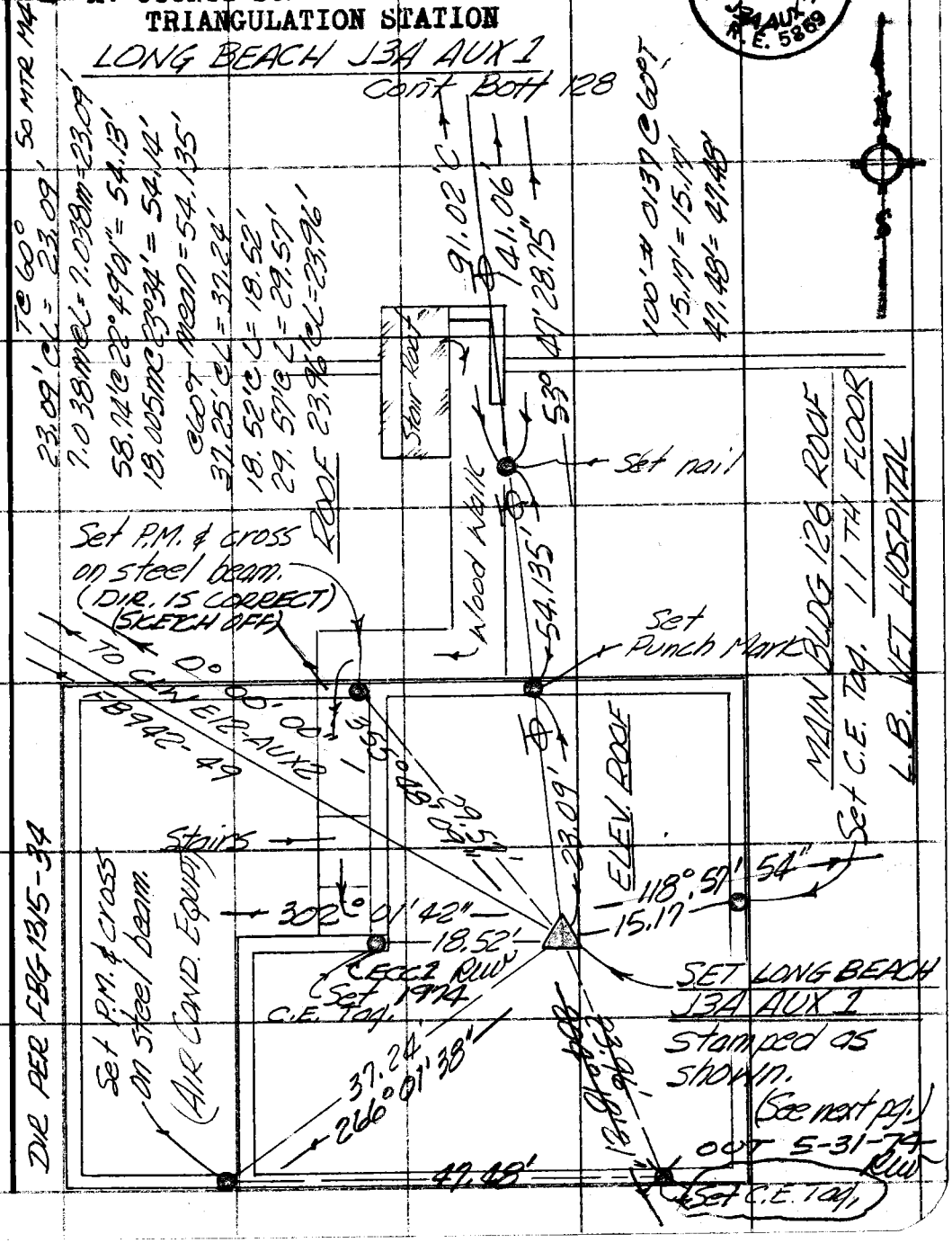
F. B. 942 PG. 1271

COUNTY ENGINEER LONG BEACH 1970 J3A AUX 1 R.E. 5869

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LONG BEACH J3A AUX 1

Cont Bott 128



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DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

16F309S CE#310 3-68

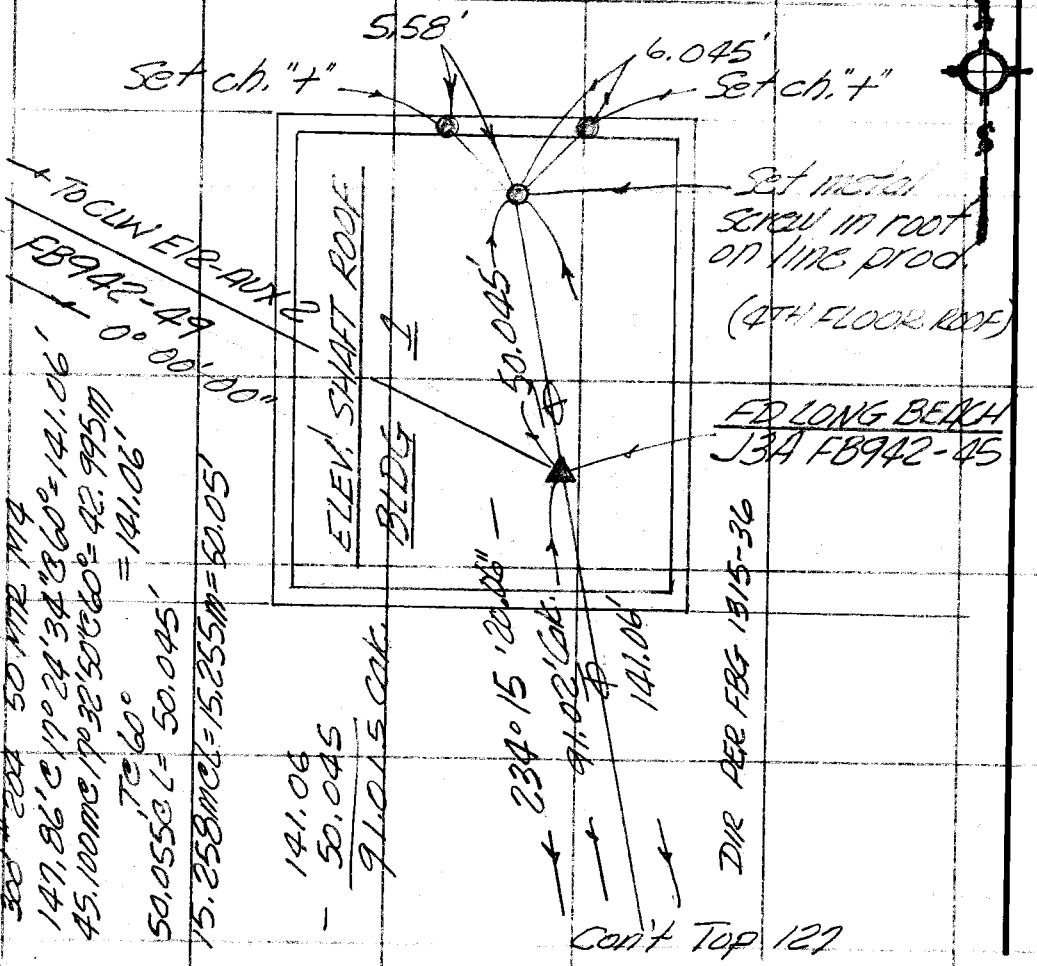
F. B. 942 PG 128

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LONG BEACH J3A AUX 1

THIS stg. is located in L.A.Co., in the city of Long Beach, on the roof of the elev. shaft of Bldg 126, (11 story) Long Beach Veterans Hospital at 7th Street & Bellflower Blvd. ("E" Key to roof obtained from Security Guards)

STATION MARK: A 2½" L.A.Co. Engr. brass disc stamped "LONG BEACH J3A AUX 1 1970 RE 5869" cemented to the roof. Set ties as shown.



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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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GEODETIC CONTROL

Notes Ck'd by	Survey of L. B. SUB.
Map No.	JN 0301.01 Tape 204 Std 84 °F
Office Work	Surveyed by Wilson
Checked	Notes RCW Date 1-20-70
Date	Indexed C. J. GALLI

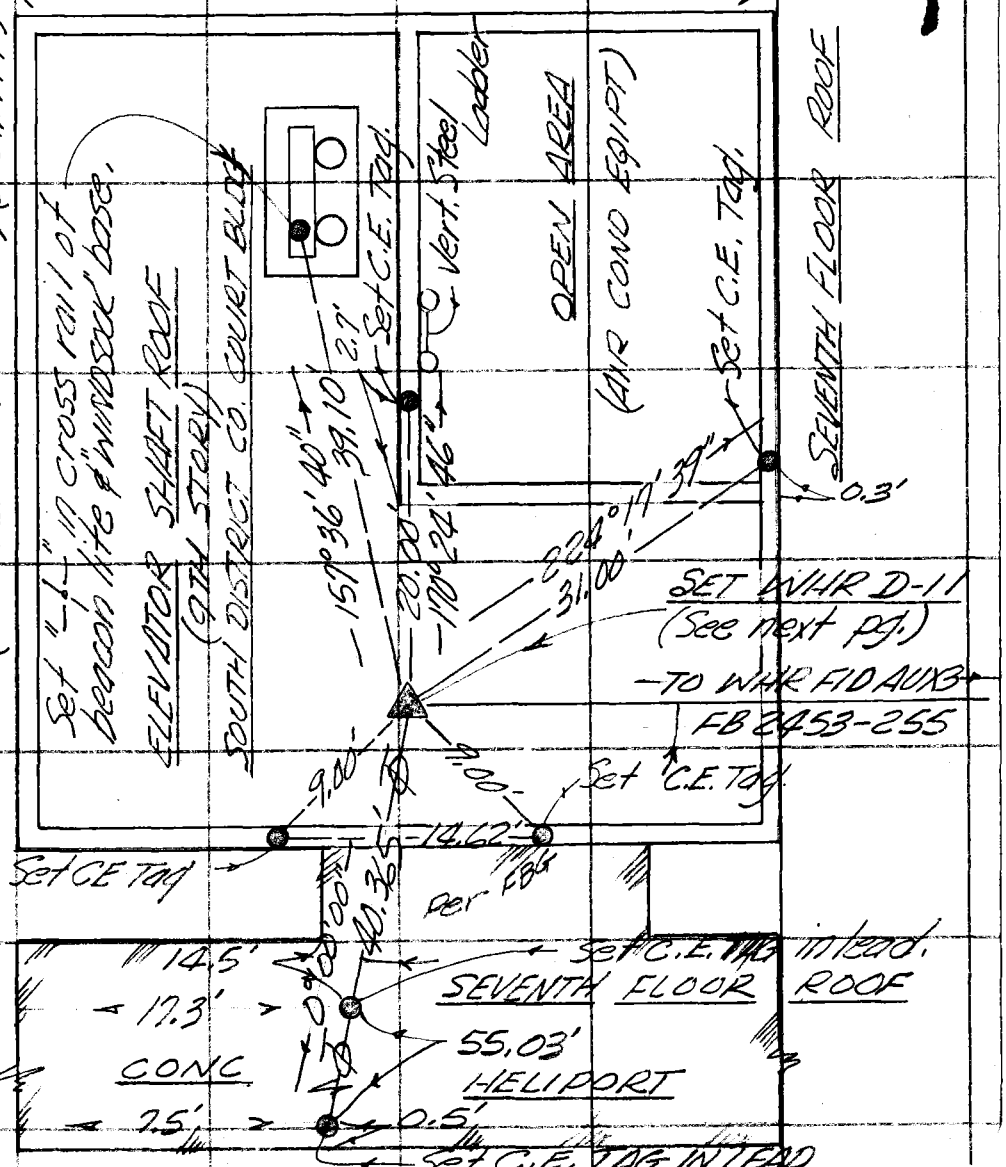
F. B. 948 PG. 129

~~GEODETIC CONTROL~~

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

WHITTIER D-11

See pg. 167 For WHR D-11A
RCW 1-27-74



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

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76F309S CE#310 3-68

F. B. 942 PG 130

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
WHITTIER D-11

MEASUREMENTS

300' TAPE #204 STD @ 84°

39.11'@ L@56° = 39.10' 20.00'@L@56°=20.00'
31.01'@ " @ " = 31.00' 55.04'@ @ " = 55.03'
9.00'@ " @ " = 9.00'
44.52'@ 24°53'59"@56° = 40.37'
44.01'@ 23°28'39"@56° = 40.36' =40.365'

AREA: This sta. is located in L.A.Co. in the City of Norwalk @ the intersection of Norwalk Blvd & Leffingwell Rd. on the roof of the SOUTH DISTRICT COURT BLDG. Take elev. to 7TH floor & stairs to roof. (Key from bldg mgtm. Supervisors office)

STATION MARK: A L.A.CO. ENGR tag & brass nail set in elev. shaft roof. Ties set as shown. Elevation 236.93' per pg. 142.

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GEODETIC CONTROL

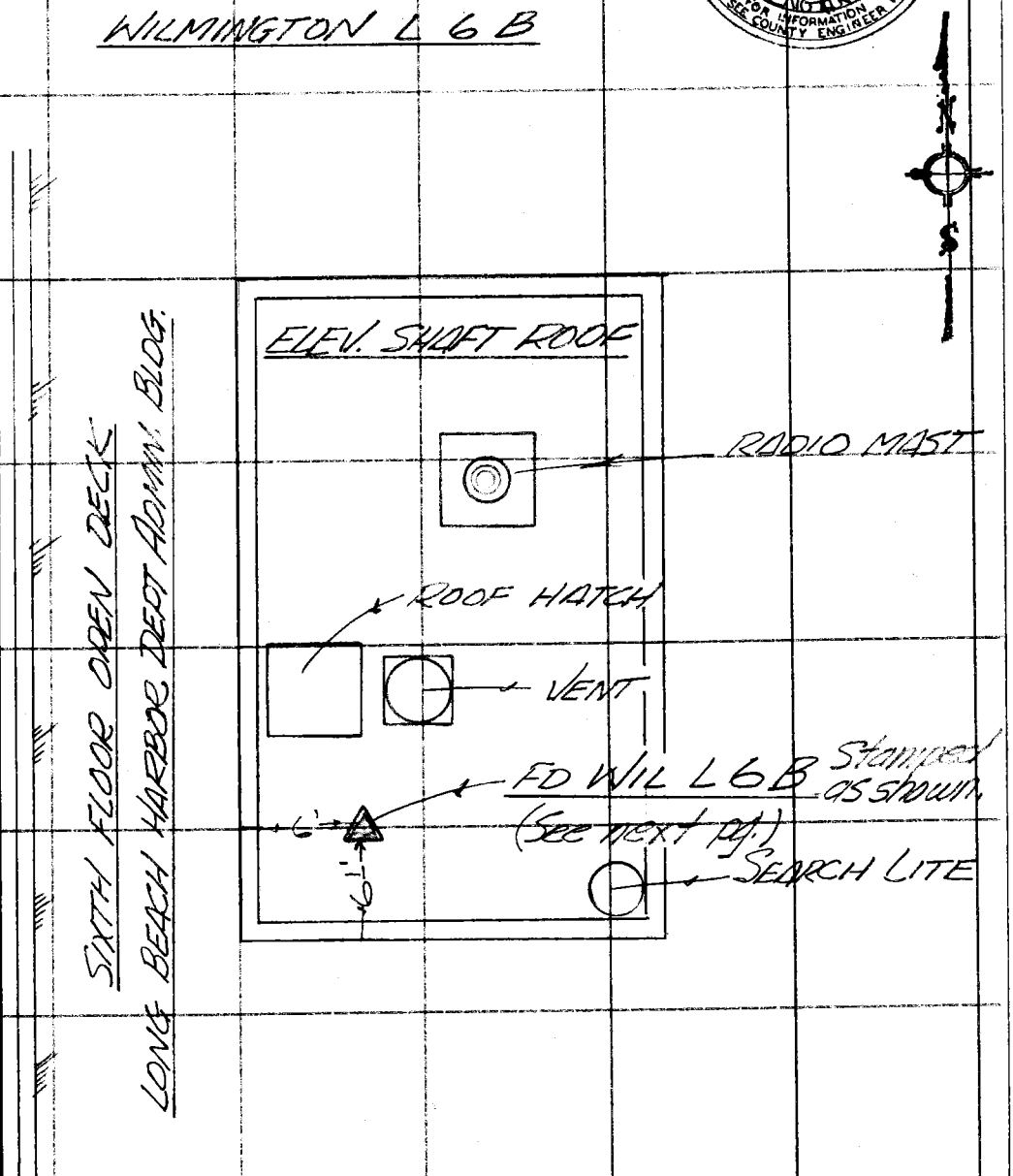
Notes Ck'd by	Survey of L.B. SUB
Map No.	JN 0301.01 Tape Std °F
Office Work	Surveyed by R. C. Wilson
Checked	Notes R. C. Wilson Date 1-13-70
Date	Indexed C. J. GALLI

F. B. 942 PG. 131

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
WILMINGTON L 6 B
FEB 1959
SET BY
BHD ENGINEERS
FOR INFORMATION SEE COUNTY ENGINEER

GEODETIC CONTROL
L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

WILMINGTON L 6 B



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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76F309S CE#310 3-68

F. B. 942 PG. 132

GEODETIC CONTROL
L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
WILMINGTON L6B

AREA: This triang. sta. is located in L.A. Co. in the City of Long Beach on the elev. shaft roof of the Long Beach Harbor Dept. Admin. Bldg. which is located on Harbor Plaza 500' ± N of DUKE RD. (NORTH OF PIER "H")

STATION MARK: A 4" L.A. CO. SUR. CONT. SYS. brass disc stamped "WILMINGTON L6B FEB 1959 LBHD ENG ✱ RE5931" bolted to a 10" metal plate which is mounted on a 6" steel pipe perm. attached to the roof. The mark is 4.60' above the roof level.

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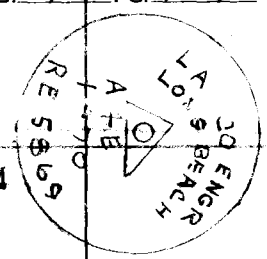
Notes Ck'd by	Survey of L.B. SUB.
Map No.	JN0301.01 Tape 243 Std 68 °F
Office Work	Surveyed by R. C. Wilson
Checked	Notes C. DYLE Date 1-70
Date	Indexed C. J. GALLI

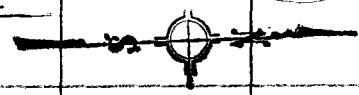
F. B. 942 Pg. 5

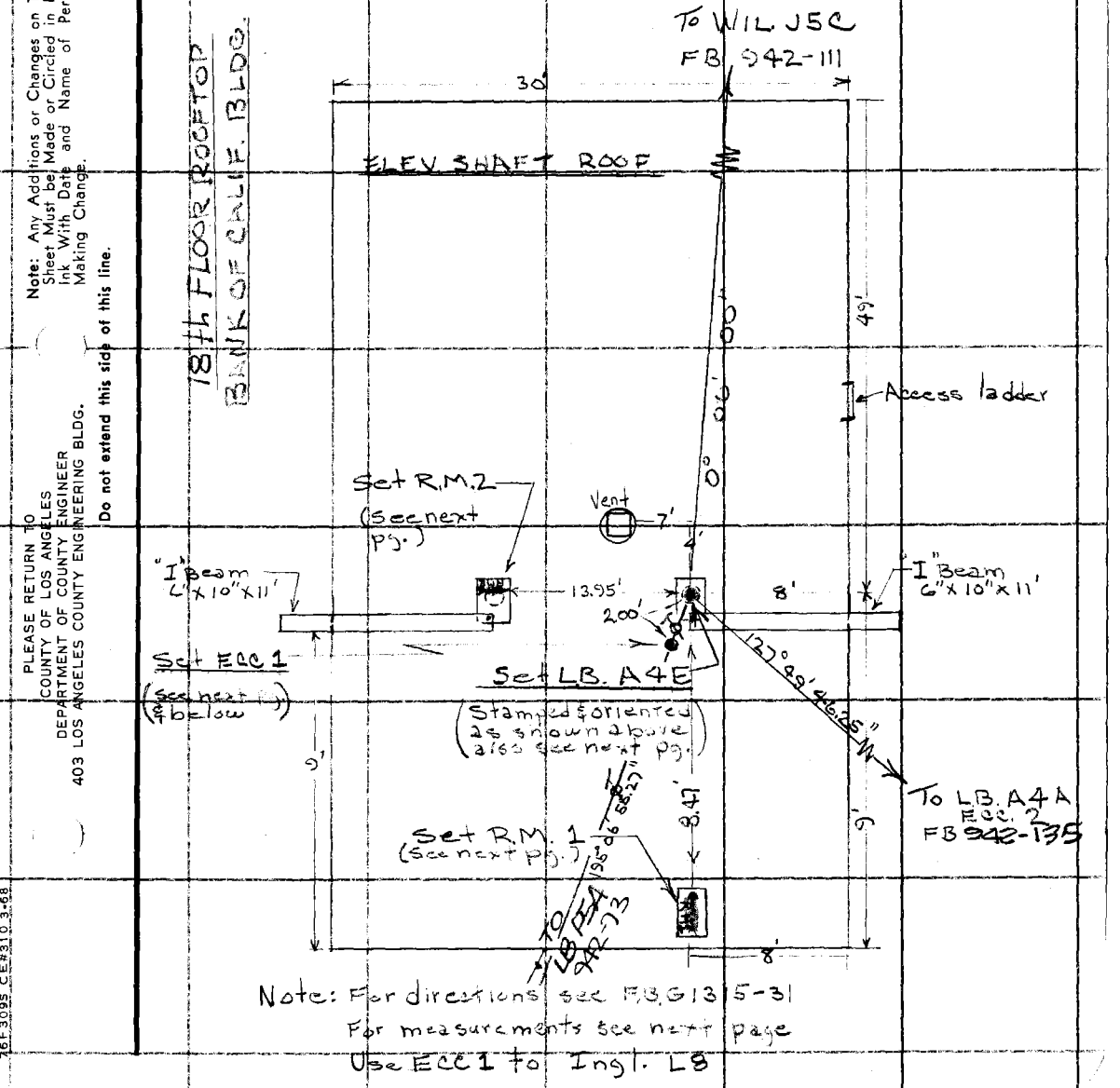
GEODETIC CONTROL

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LONG BEACH A4E







Note: For directions see FB G13 5-31
For measurements see next page
Use ECC 1 to Ingl. L8

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

16F3095 CE#310.3-68

GEODETIC CONTROL

F. B. 942 PG. 134 **L. A. COUNTY SURVEY CONTROL SYSTEM**
TRIANGULATION STATION
LONG BEACH R4E

AREA: This tri. sta. is located in L.A. Co. in the City of LONG BEACH on the elev. shaft roof of the BANK of CALIF. Bldg. Which is located at the inter. of OCEAN BLVD & MAGNOLIA AVE. Take the elev. to the 18th floor, stairs to the roof, (Key from the bldg. supt on 6th floor) and ladder to top of elev. shaft.

STATION MARK: A chiseled tri., punch mark, in a 6"X10" steel plate set on a 3" pipe 3" above roof elev. stamped "L A CO ENGR LONG BEACH R4E 1970 RE 5869"

REFERENCE MARK: NO 1 A chiseled punch mark and arrow in an 8"X8" channel iron set 3" above roof elev., stamped "RM 1"

RM. 2 Identical to RM 1 except stamped "2" and set in an 6"X10" steel plate set on a 3' pipe 3" above roof elev.

MEASUREMENTS

100' tape #243

13.95' @ Lev. @ 60° = 13.95'
8.47' @ Lev @ 60° = 8.47'

n.3. R4E ECC #1 Set a LA.CO. ENGR. tag & brass Nail flush in tar rooftop. To be used when observing Incl. L8 due to an obstruction caused by an antenna mast, on line to LB FEA.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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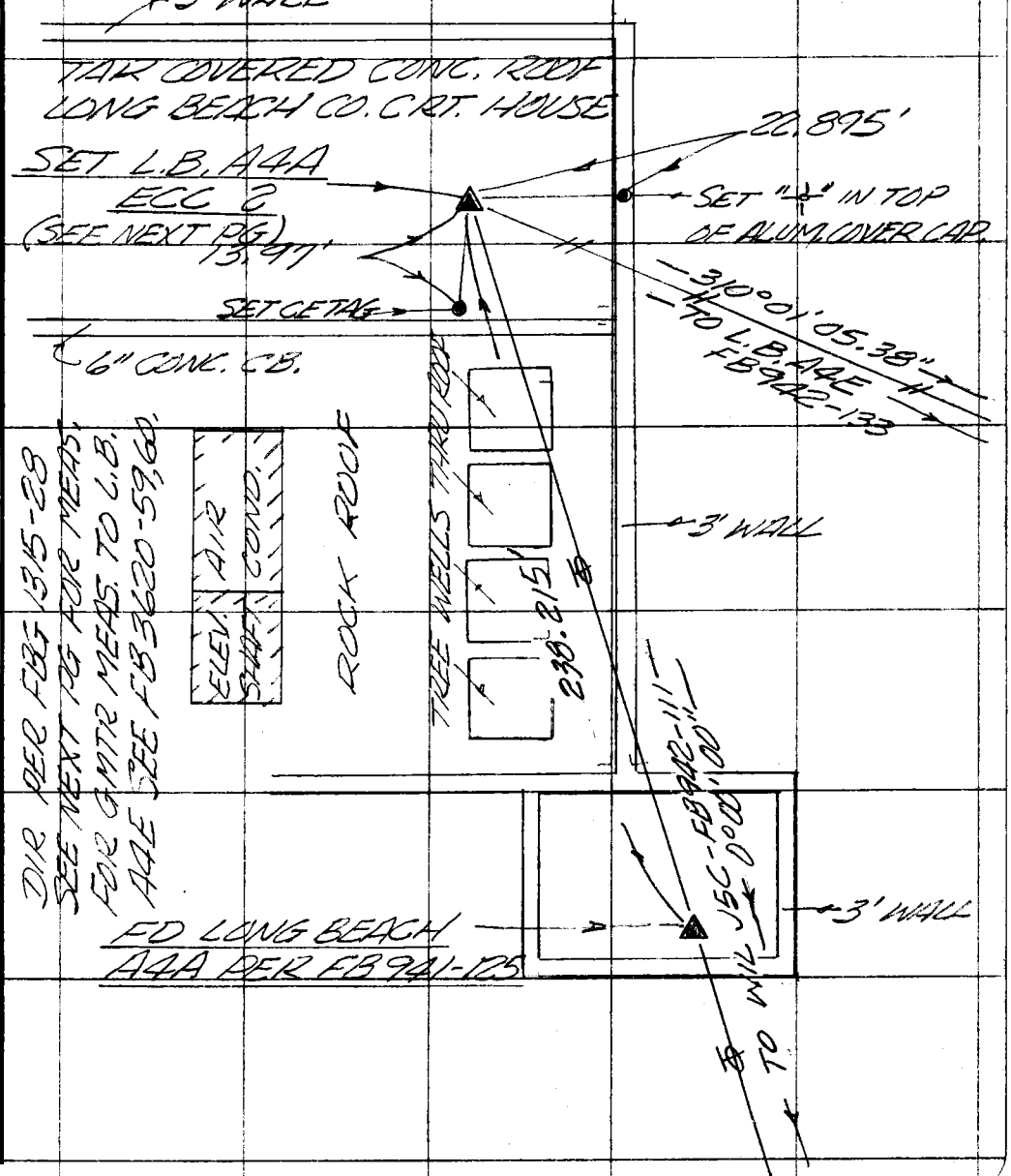
Notes Ck'd by	Survey of LB SUB
Map No.	JN 0301.01 Tape Std °F
Office Work	Surveyed by RW
Checked	Notes RW Date 2-70
Date	Indexed C. J. GALLI

F. B. 942 PG. 135

GEODETIC CONTROL
L A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LONG BEACH A4A ECC 2



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DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-69

F. B. 942 PG. 136

GEODETIC CONTROL
L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LONG BEACH A4A ECC 2

300' #221 MEASUREMENTS 50 MTR M4

TEMP 64°

142.93' = 142.91' 43.568m = 43.562m = 142.92'
95.31' = 95.30' 29.051m = 29.048m = 95.30'
238.21' → 238.215' → 238.22'

22.895' = 22.895' 13.97' = 13.97'

AREA: THIS TRIANG. STATION IS LOCATED IN L.A. CO. IN THE CITY OF LONG BEACH ON THE EAST SIDE OF THE ROOF OF THE COUNTY COURT HOUSE LOCATED ON THE N.E. CORNER OF THE INTERSECTION OF OCEAN BLVD. AND MAGNOLIA AVE.

STATION MARK: A 3/4" COUNTY ENG'R BRASS TAG STAMPED "L.A. CO. ENG'R" WITH BRASS NAIL, SET FLUSH IN TAR ROOF: TIES SET AS SHOWN.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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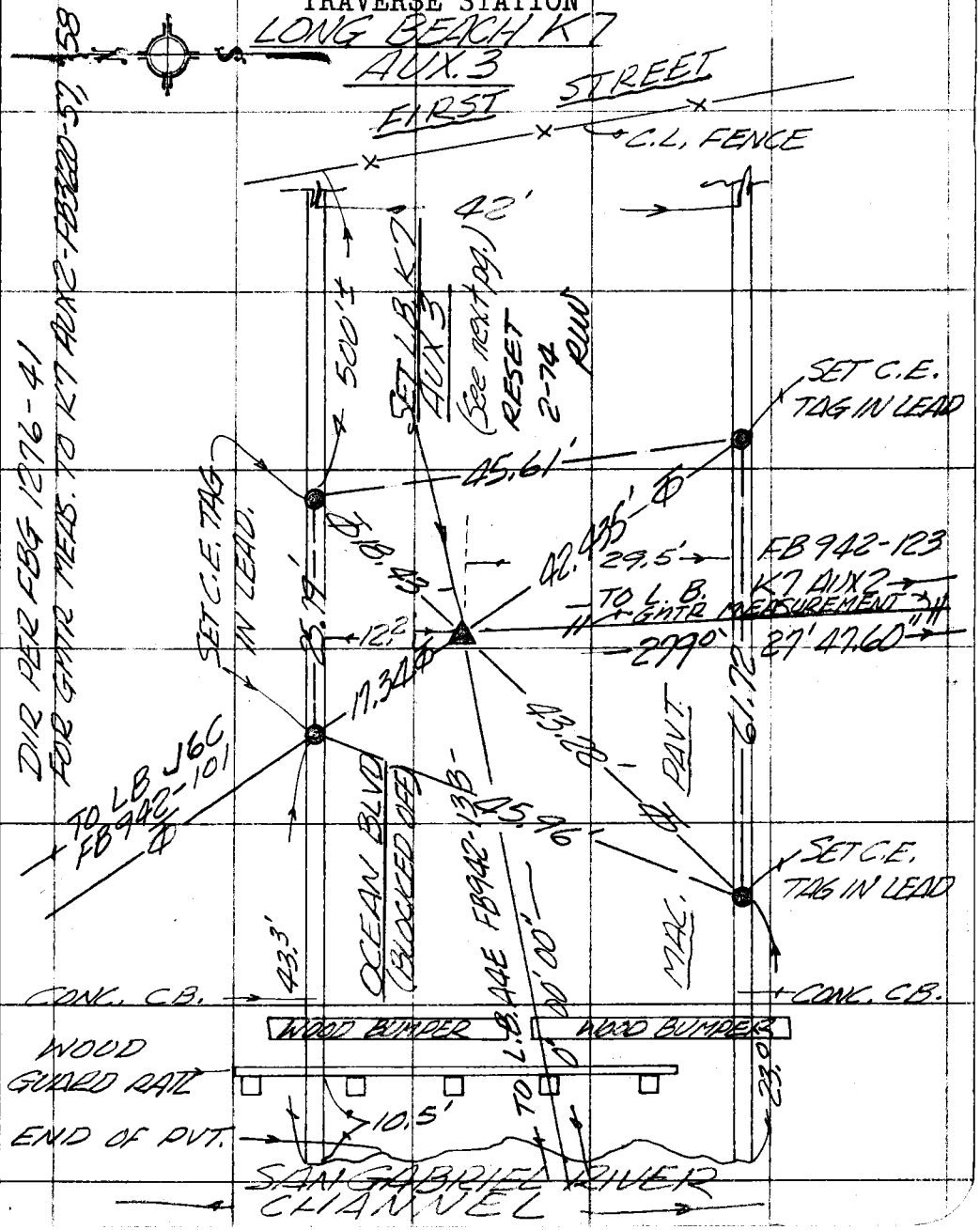
Notes Ck'd by	Survey of L.B. SUB
Map No.	JN 8210 Tape Std °F
Office Work	Surveyed by RW
Checked	Notes Date 2-70
Date	Indexed L. J. GALLI

F. B. 942 PG. 137

GEODETIC CONTROL
L. A COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION



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DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-69

F. B. 942 PG. 138

GEODETIC CONTROL
L A COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION

LONG BEACH K7 AUX3

LEVEL MEASUREMENTS 100' 0137 @ 65°T

45.96' = 45.96'	45.61' = 45.61'
42.435' = 42.435'	43.22' = 43.22'
61.72' = 61.72'	25.79' = 25.79'
18.43' = 18.43'	17.34' = 17.34'

AREA: THIS TRAV. STA. IS LOCATED IN THE CITY OF SEAL BEACH, ORANGE CO., 250' ± EAST OF THE COUNTY LINE, 50' EAST OF THE BARRACADE END OF OCEAN BLVD, AND 500' ± WEST OF THE INTERSECTION OF FIRST STREET AND OCEAN BLVD.

STATION MARK: SET B.S. & TIN IN PAVED ROAD WITH C.E. TAG TIES SET IN LEAD IN CONC. CURBING. AS SHOWN. NO OTHER MARK WAS SET, DUE TO PROBABLE SITE CHANGES IN NEAR FUTURE.

RESET L.B.S.W. & TIN PER ⊕ TIES 2-74 [signature]

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Profile No. _____ X-Sec. No. _____

Notes Red _____ Date _____ Notes Chkd. _____ Date _____

Plotted _____ Date _____ Checked _____ Date _____

Job No. 0301.01 Division No. 11

Survey of L.B. SUB.

Survey by RW Notes RW Date 6-12-70

C. J. GALLI Date _____

Map No. _____ Indexed _____

F. B. 942 PG. 139

LONG BEACH SUB
0301.01

ELEV. ON WHR F-10 AUX 3
6-12-70

STATION	B. S.	H. I.	F. S.	ELEV.
		WILSON		
	KYLE			
	BARNETT			
	~~MARTINEZ~~			
	FLOREK			

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Do not extend notes this side of this line.

PLEASE RETURN TO
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403 Los Angeles County Engineering Bldg.

76-L-298 CE 307 2-63

76-L-298 CE 307 2-63

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION	B. S.	H. I.	F. S.	ELEV.		
BM				122 53	LACO RD DEPT BM BY1125	
	2 18	124 71			NORWALK 1965 - LET WEST CRB. SHOEMAKER 1' ± N. OF BCR @ N.W. COR. IMPERIAL & SHOEMAKER.	
W/HR F10 (AUX 3)			8 20	116 51	L.A. Co. Sur. Cont. Sys. Mon. per FB 2453-257 "WHR F10 AUX 3"	
	8 11	124 62				
BM			2 10	122 52	+ BM BY1125 el = 122.53'	

F. B. 942 PG. 140 Job No. 03014 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of L.B. SUB Date ____ Date ____ No. ____
Survey by RW Notes RW Notes Chkd. ____ Checked ____ X-Sec. ____
Indexed ____ Date ____ Date ____ Date ____ No. ____

F. B. 942 PG. 141

Profile No. _____ Notes Red _____ Plotted _____ Job No. 0301.01 Division No. 11

Date _____ Date _____ Survey of L.B. SUB

X-Sec. No. _____ Notes Chkd. _____ Checked _____ Survey by RW Notes RW Date 6-12-70

Date _____ Date _____ Map No. _____ Indexed C. J. GALLI Date _____

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

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403 Los Angeles County Engineering Bldg.

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LONG BEACH SUB
0301.01

ELEV. ON WHR D-11

6-12-70

STATION	B.S.	H.I.	F.S.	ELEV.
		FLOREK MARTINEZ	PYLE BARNETT	WILSON

76-L-298 CE 307 2-63

76-L-298 CE 307 2-63

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.		
BM				105 28	L.A. CO. RD. DEPT. BM BY 7266	
	5 47	110 75			NORWALK 1965 - L & Brass nail	
TP			5 82	104 93	0.5' E. OF BCR IN N. CB. IMPER-	
	6 64	111 57			IAL @ N.E. COR. IMPERIAL &	
Floor el.			4 47	107.10	NORWALK BLVD.	
	98 72	205 82			(Vert. taped B.S.)	
TP			0 01	205 81		
	12 50	218 31				
TP			0 44	217 87		
	6 57	224 44				
TP			0 01	224 43		
	19 67	244 10			(Vert. taped B.S.)	
WHR D11			7 17	236 93	L.&T. in roof of CO. COURT	
					BLDG. @ Norwalk Blvd. &	
					Lettingwell Rd PER FB 942-129	

F.B. 942 Pg. 142 Job No. 0801.01 Division No. 11 Notes Red Plotted Profile
Survey of L.B. SUB Date Date No. X-Sec.
Survey by RW Notes RW Notes Chkd. Checked
Indexed Date Date Date No.

Notes Ck'd by	Survey of Geo. Cont.
Map No.	JN 03100 Tape Std °F
Office Work	Surveyed by RW
Checked	Notes RW Date 6-23-70
Date	Indexed H. E. OTT

F. B. 908 PG. 143

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WEYMOUTH BASE LINE MONUMENTS

M.W.D. PLANT C LA VERNE

0331.00

6-23-70

700 N. Moreno Ave
La Verne, Calif. 91750

All marks: 4" L.A. Co. Sur. Cont. Sys. brass traverse discs stamped as shown and set in 16" dia. conc. posts, up 1" or flush.

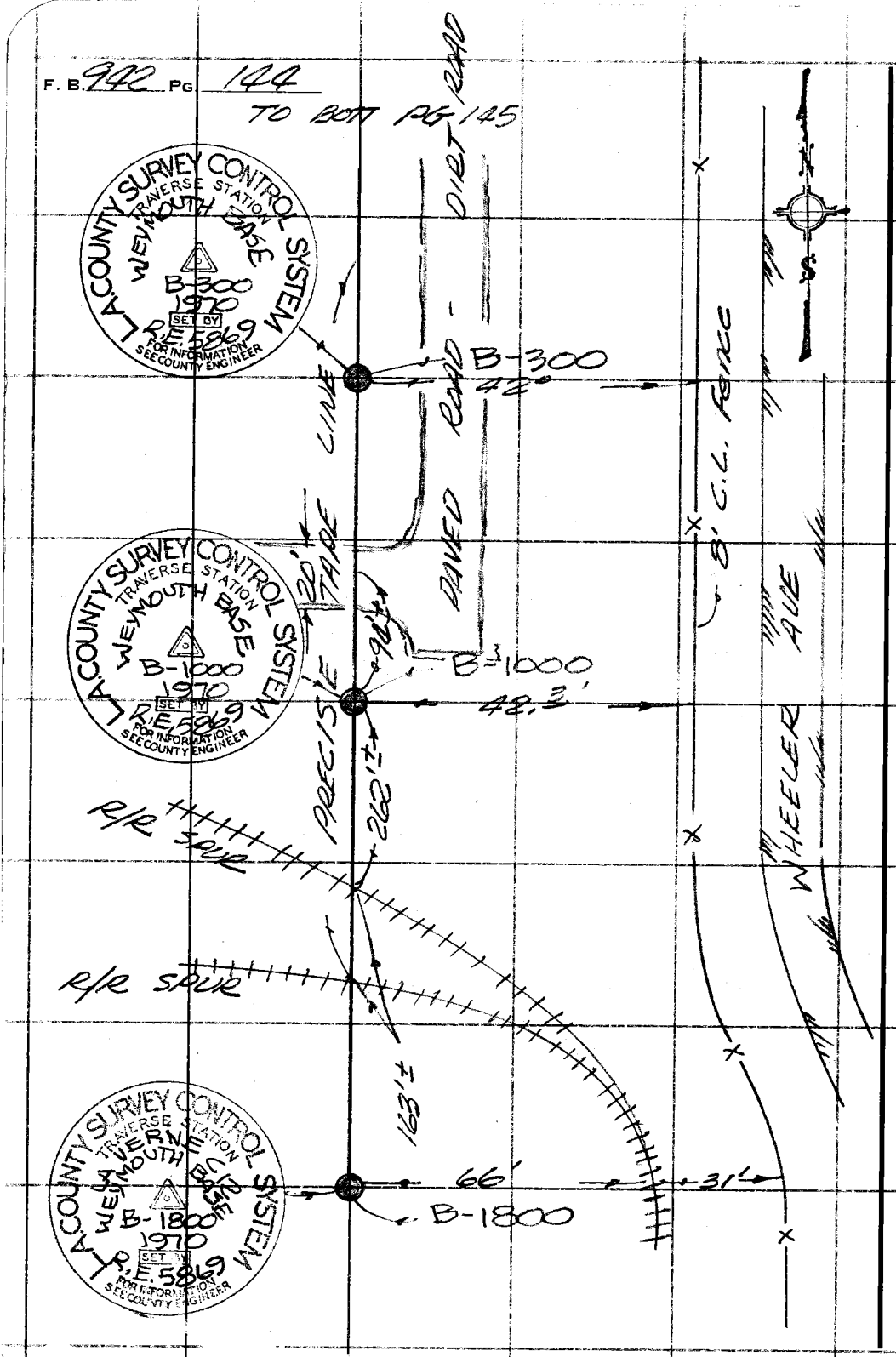
At B-164, a 1½" dia. brass disc is set in conc. post, 0.4' toward 0.0 (north) from traverse disc.

Wilson
Pyle
Martinez
Barnett
Fisher
Florek

76F309S C.E.#310 3-68

F. B. 942 PG. 144

TO BOTT PG 145



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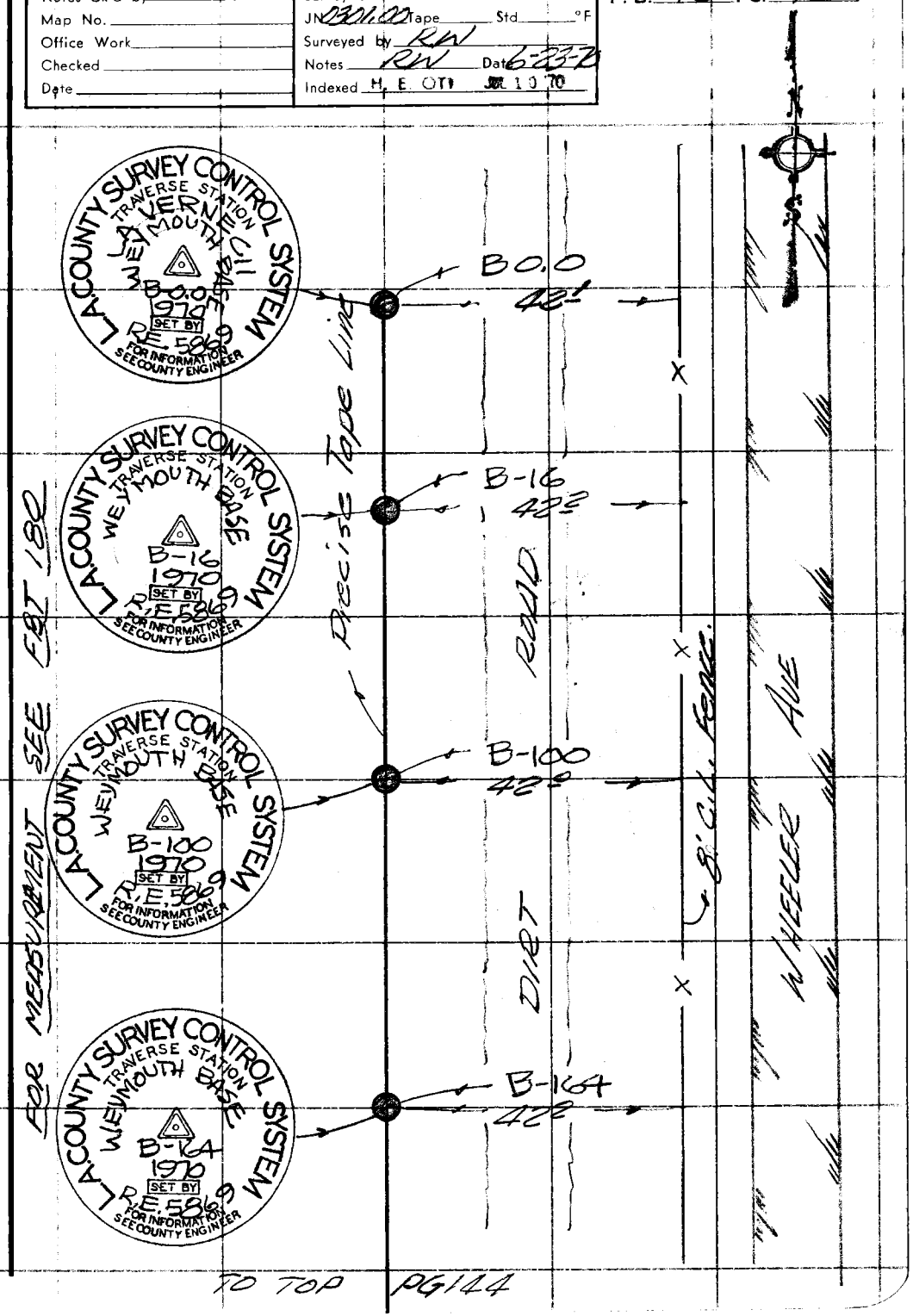
Notes Ck'd by	Survey of Geo. Cont.
Map No.	JN 0301.00 Tape Std °F
Office Work	Surveyed by RW
Checked	Notes RW Date 6-23-70
Date	Indexed H. E. OTT JUL 10 '70

F. B. 942 PG. 145



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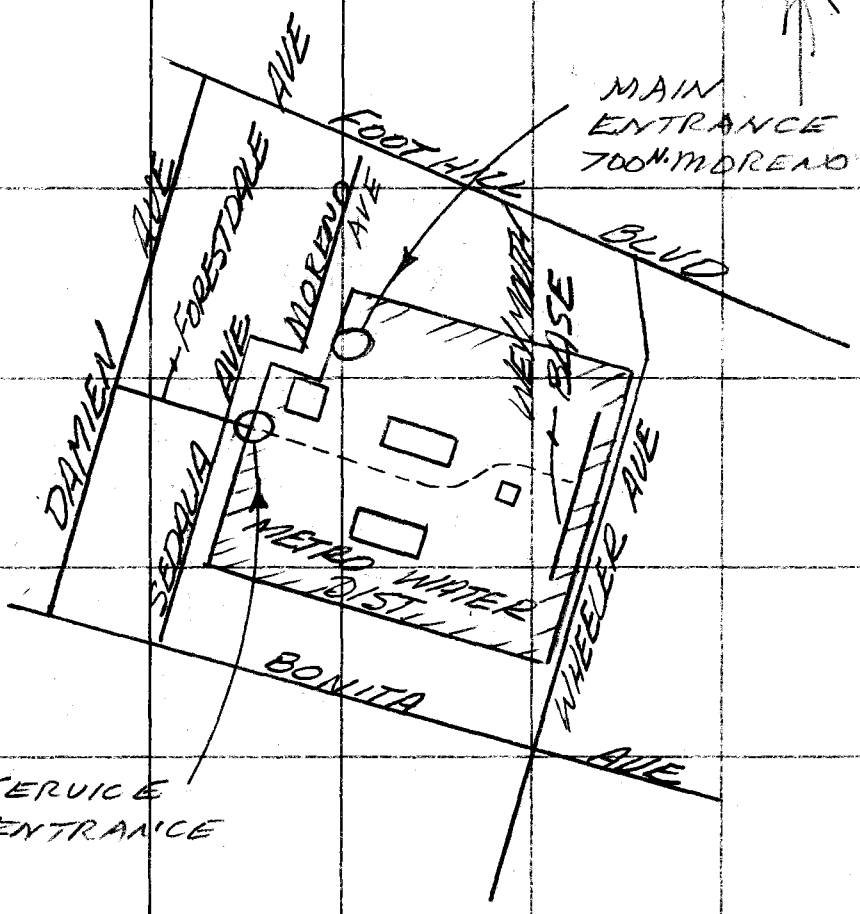
76F3095 CE#310 3-68

F. B. 942 PG 146

VICINITY MAP



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Notes Ck'd by	Survey of LB SUB
Map No.	JN 0301.01 Tape Std °F
Office Work	Surveyed by WILSON
Checked	Notes RH Date 8-70
Date	Indexed G. J. GALLI SEP 2 [illegible] 70

F. B 942 PG. 147

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TERMINAL ISLAND
BATES POINTS TRAVERSE
8-5-70 TO 8-17-70
JN 0301.01

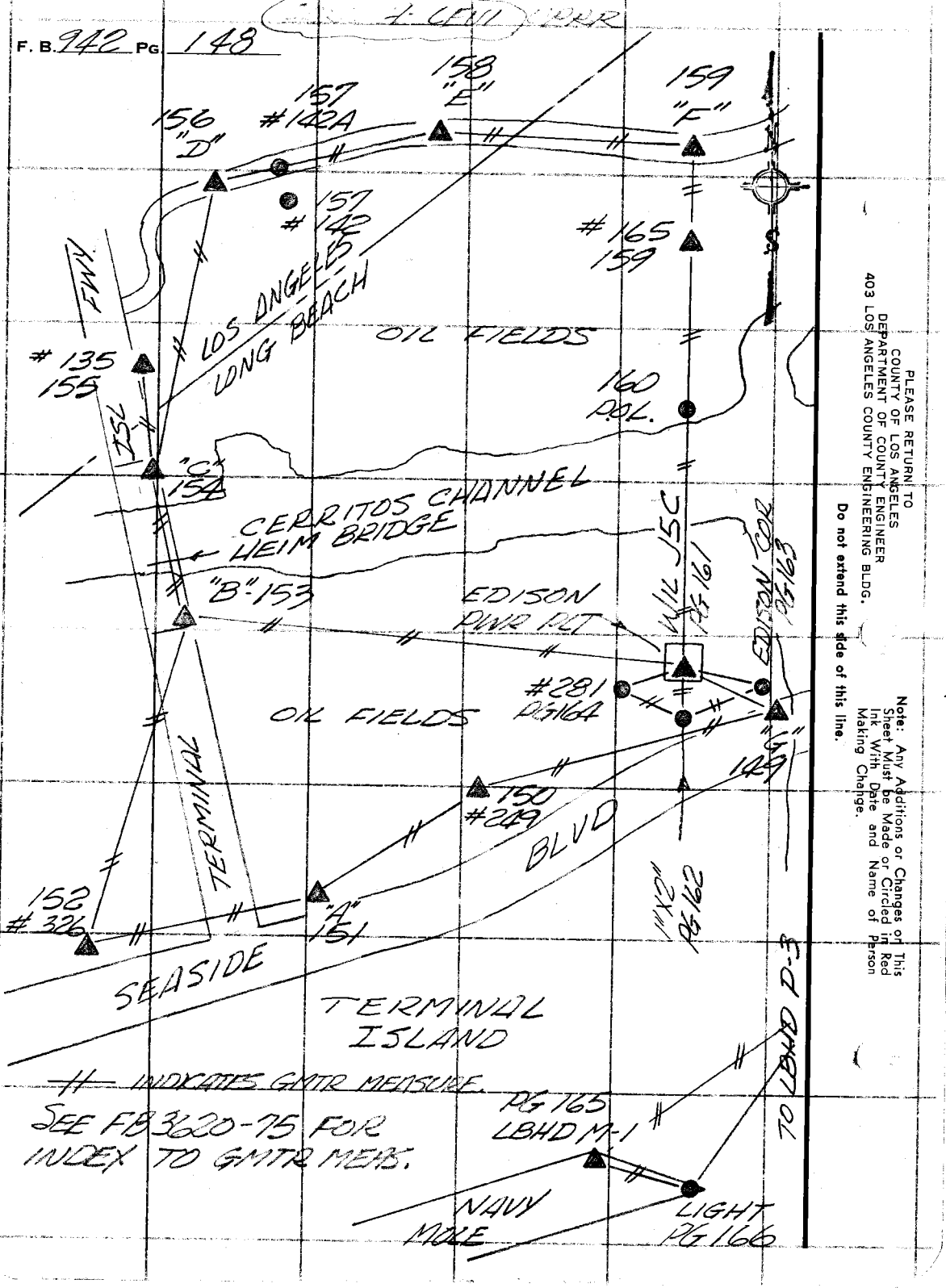
* See FB 3688-126 TO 117 FOR 1972 MEASUREMENTS

RWilson
1-8-74

WILSON
BARNETT "
FISHER "
MARTINEZ
FORRER

16F3095 CE#310 3-68

F. B. 942 PG 148



# INDICATES GMTR MEASURE

SEE FB 3620-75 FOR INDEX TO GMTR MEAS.

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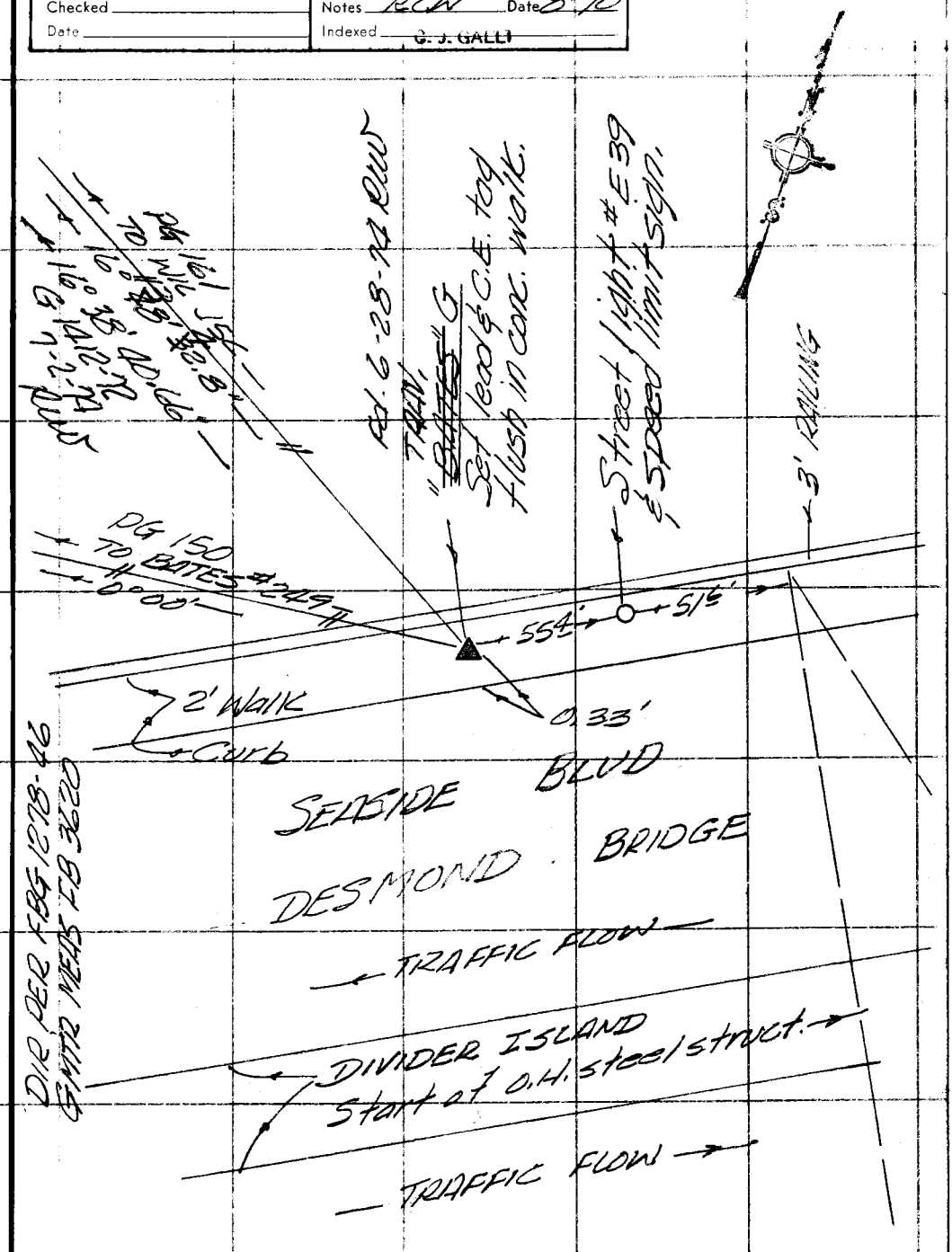
Notes Ck'd by	Survey of LF SUB
Map No.	Jb 03010 Tape Std °F
Office Work	Surveyed by RCW
Checked	Notes RCW Date 8-70
Date	Indexed G. J. GALLI

F. B. 942 PG. 149



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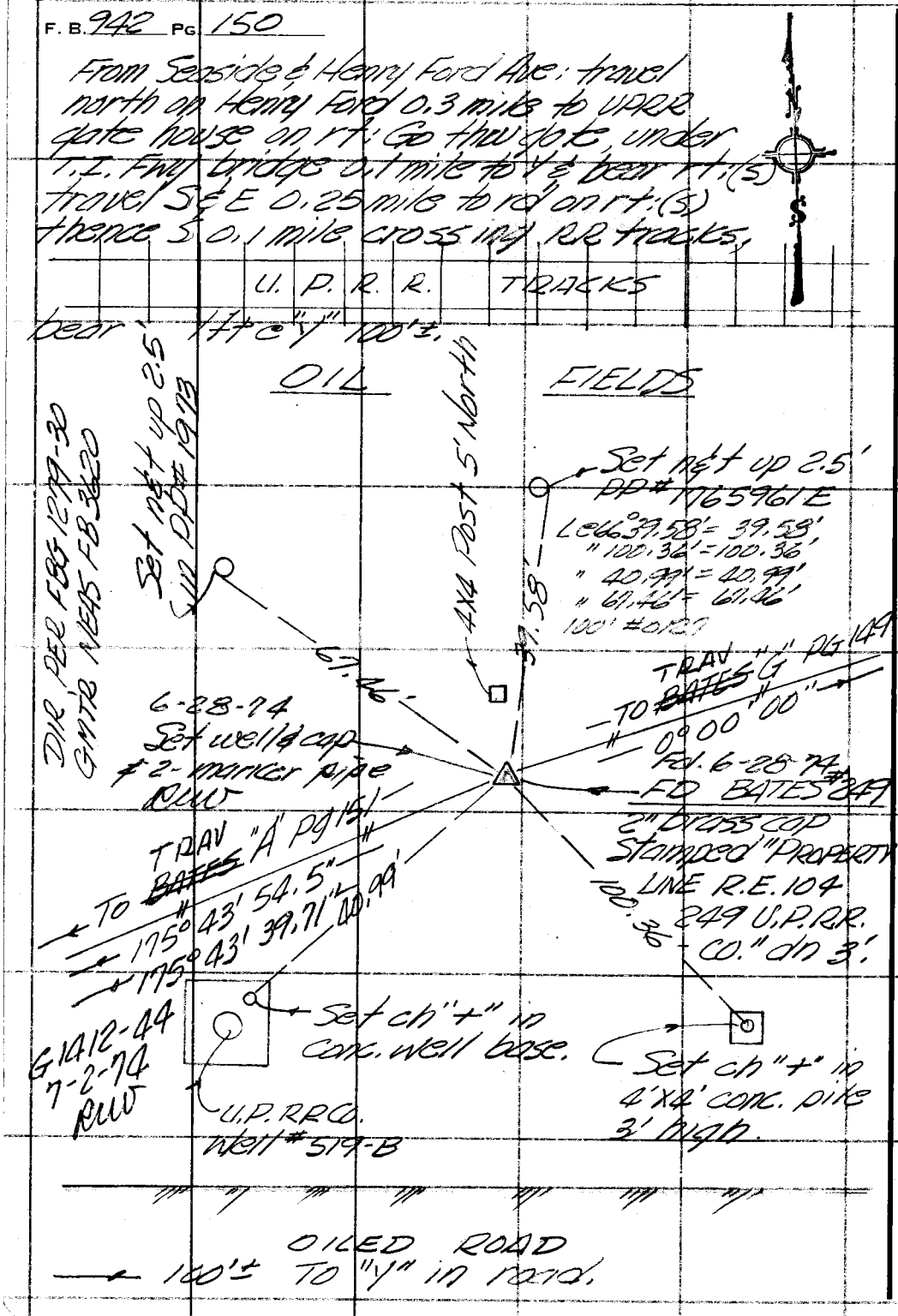
76F3095 CE#31.0 3-68

F. B. 942 Pg. 150

From Seaside & Henry Ford Ave: travel north on Henry Ford 0.3 mile to UPRR gate house on rt: Go thru gate, under T.I. Fwy bridge 0.1 mile to Y & bear rt:(S) travel S & E 0.25 mile to rd on rt:(S) thence S 0.1 mile crossing RR tracks,



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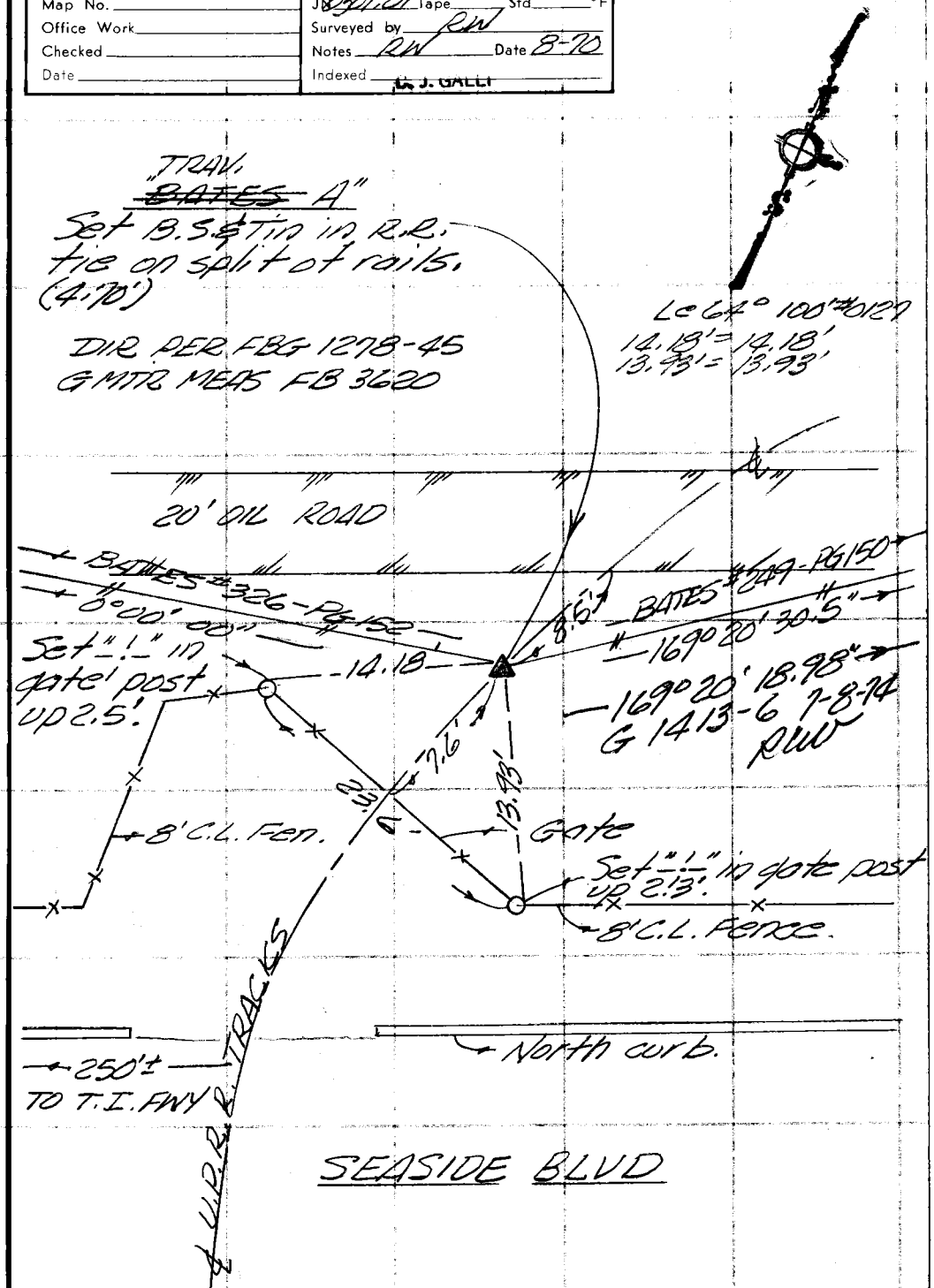
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of LB SUB
Map No.	JN 0301.01 Tape Std °F
Office Work	Surveyed by RW
Checked	Notes RW Date 8-70
Date	Indexed C. J. GALLI

F. B. 942 PG. 151



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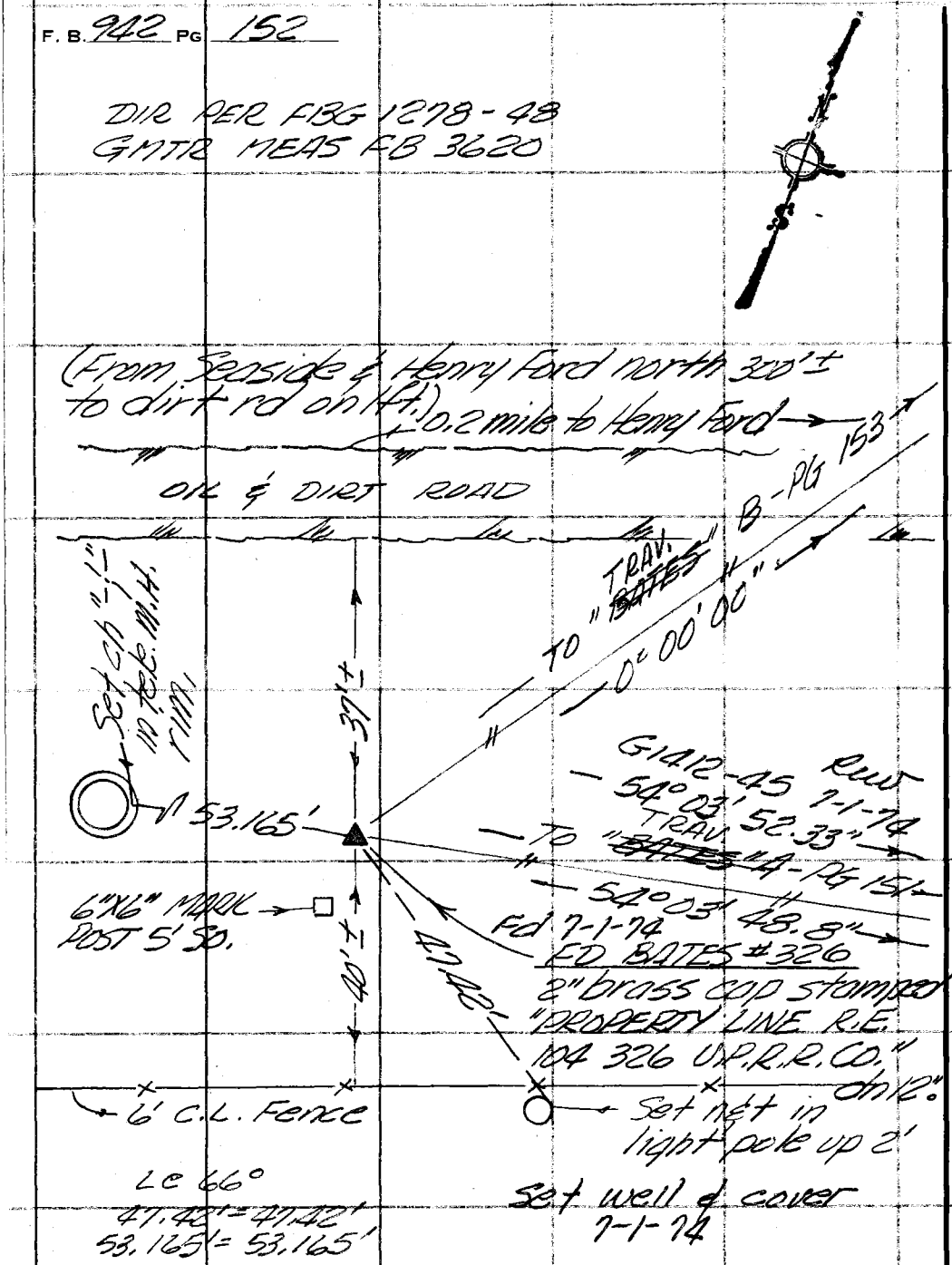
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3095 CE#310 3-68

F. B. 942 PG 152

DIR PER FBG 1278-48
GMTR MEAS FB 3620



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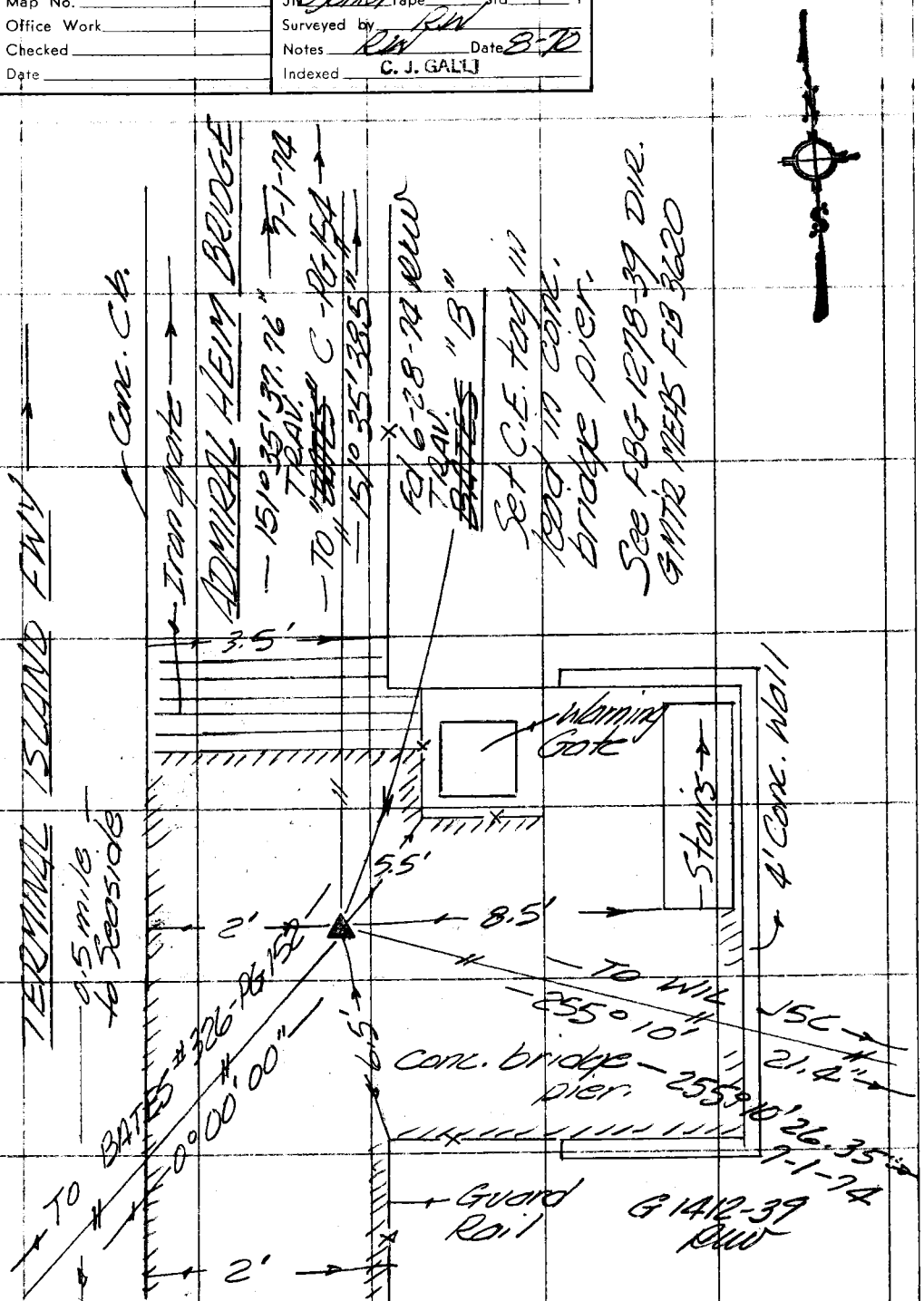
Notes Ck'd by	Survey of LB SUB
Map No.	JN 0301.01 Tape Std °F
Office Work	Surveyed by RW
Checked	Notes RW Date 8-70
Date	Indexed C. J. GALLI

F. B. 942 PG. 153



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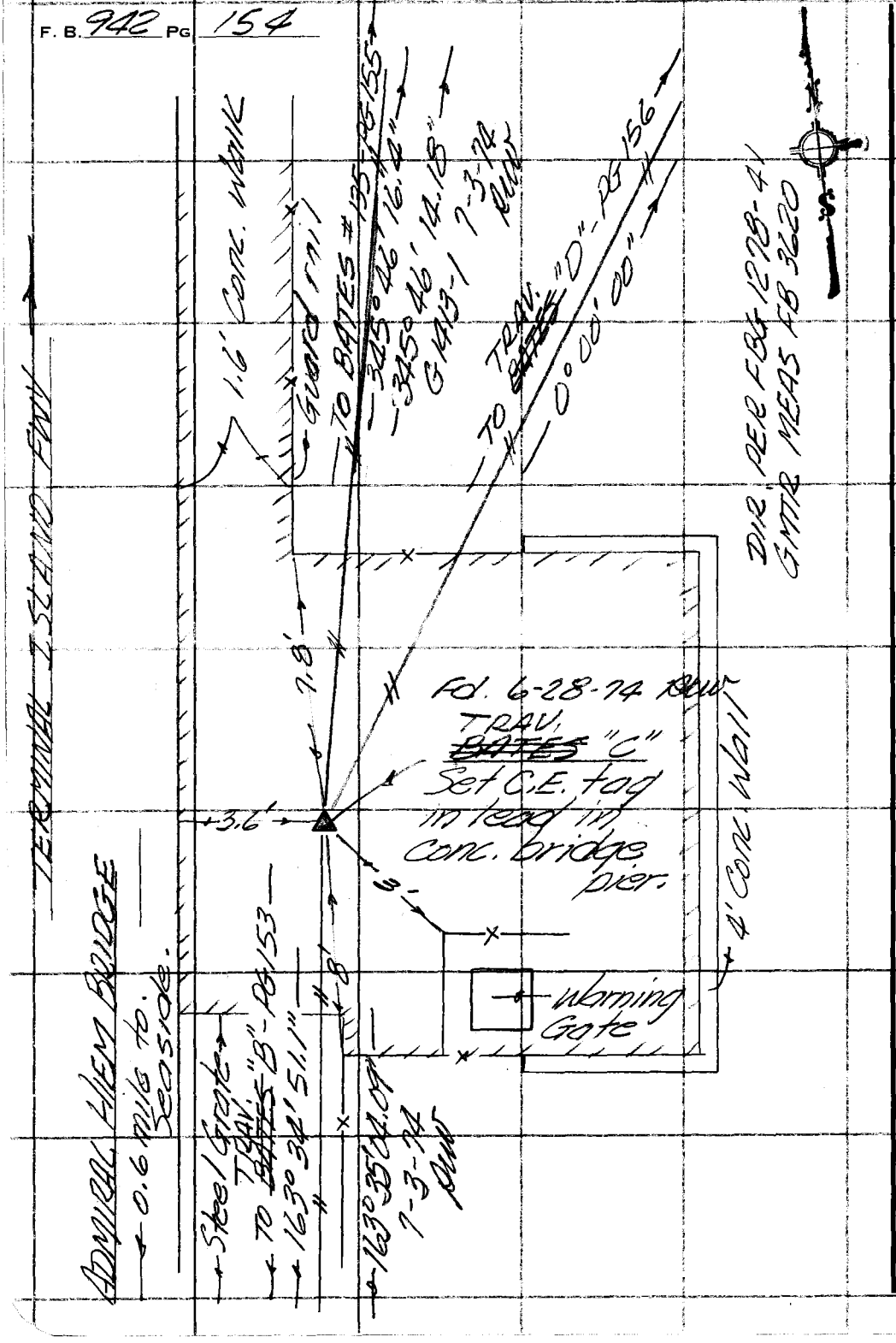
76F309S CE#310 3-68

F. B. 942 PG 154



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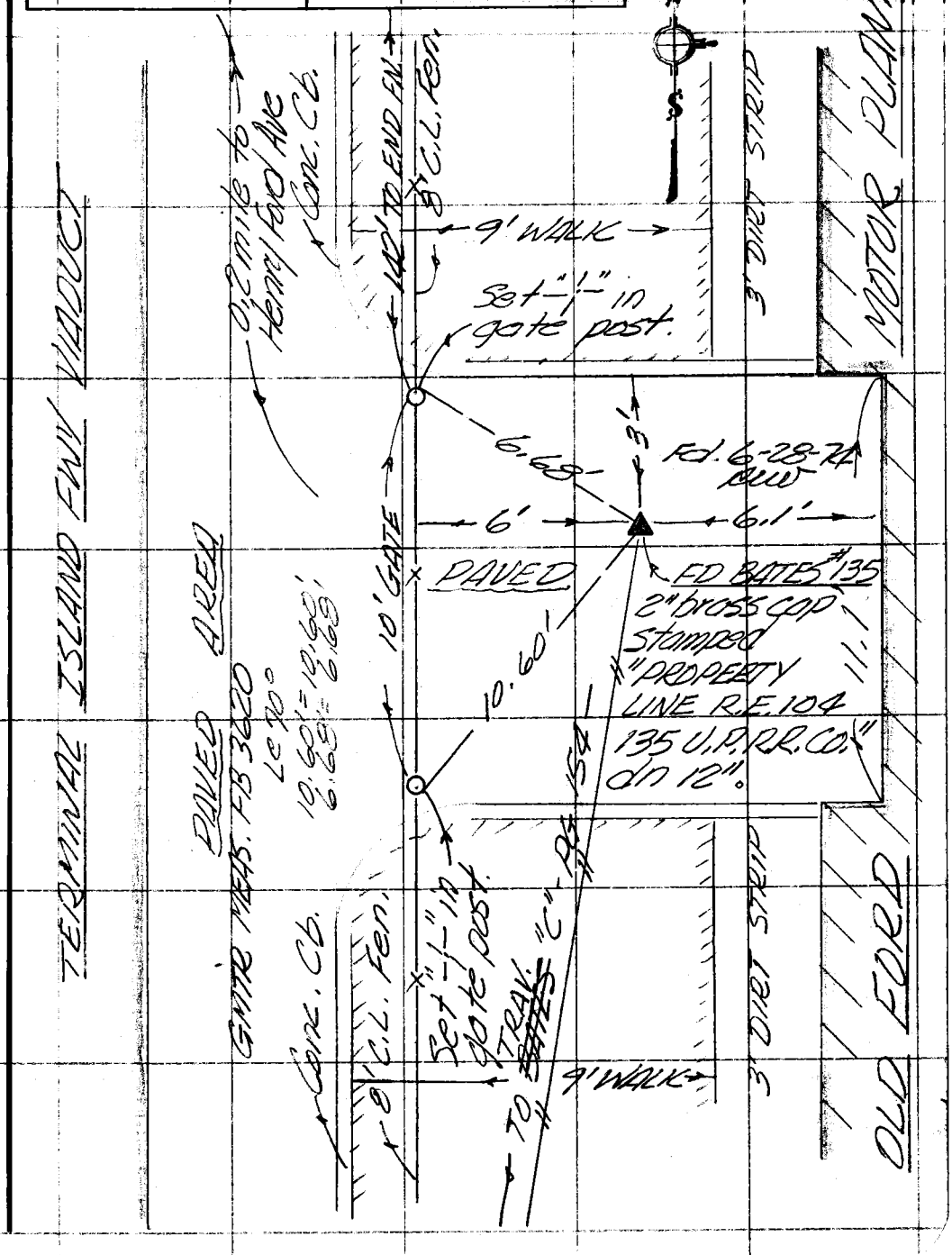
Notes Ck'd by	Survey of LB SUB
Map No.	JN 0301.01 Tape .0125 Std 68 °F
Office Work	Surveyed by RW
Checked	Notes RW Date 8-70
Date	Indexed C. J. GALLI

F. B. 948 PG. 155



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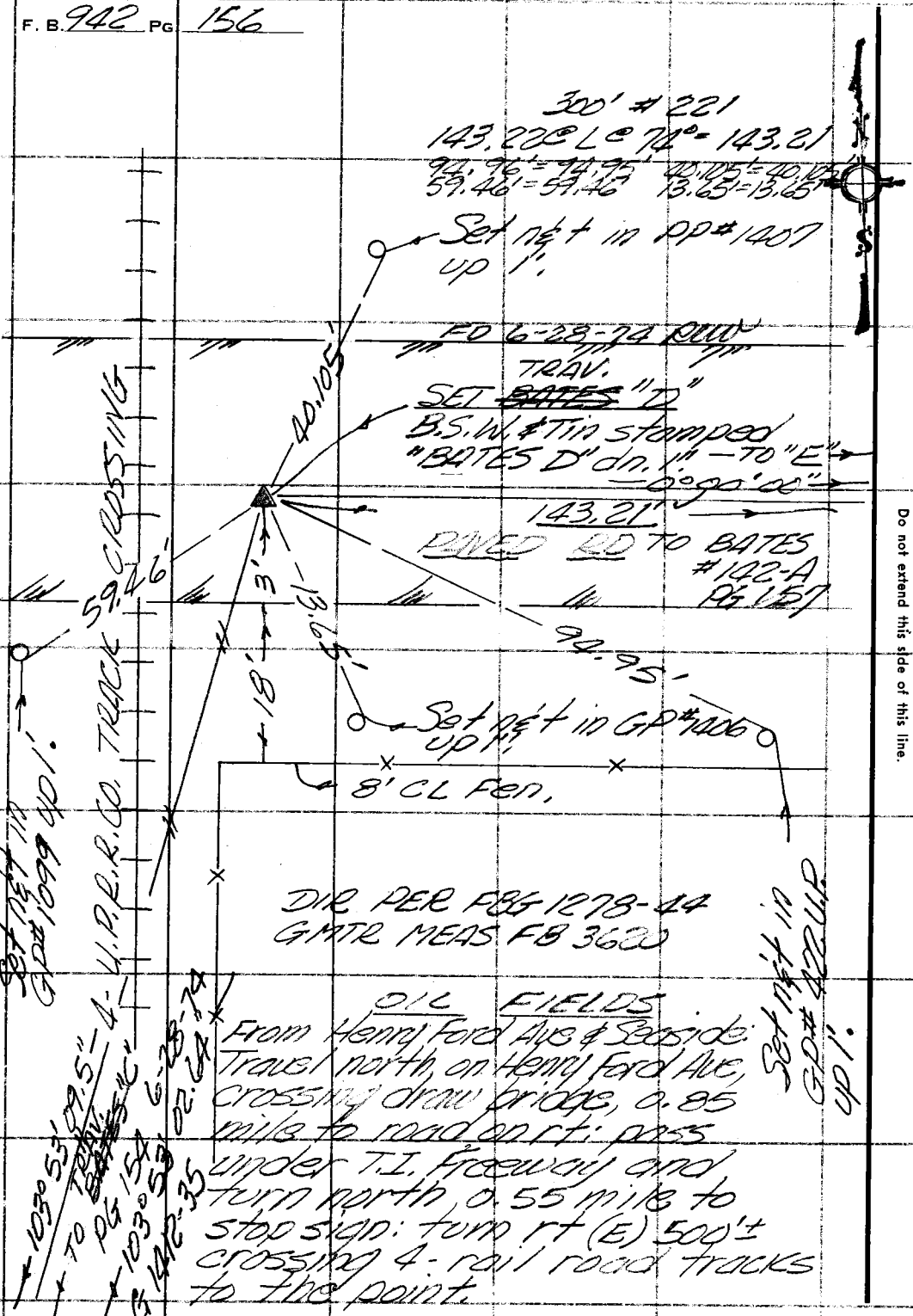
76F309S CE#310 3-68

F. B. 942 PG. 156



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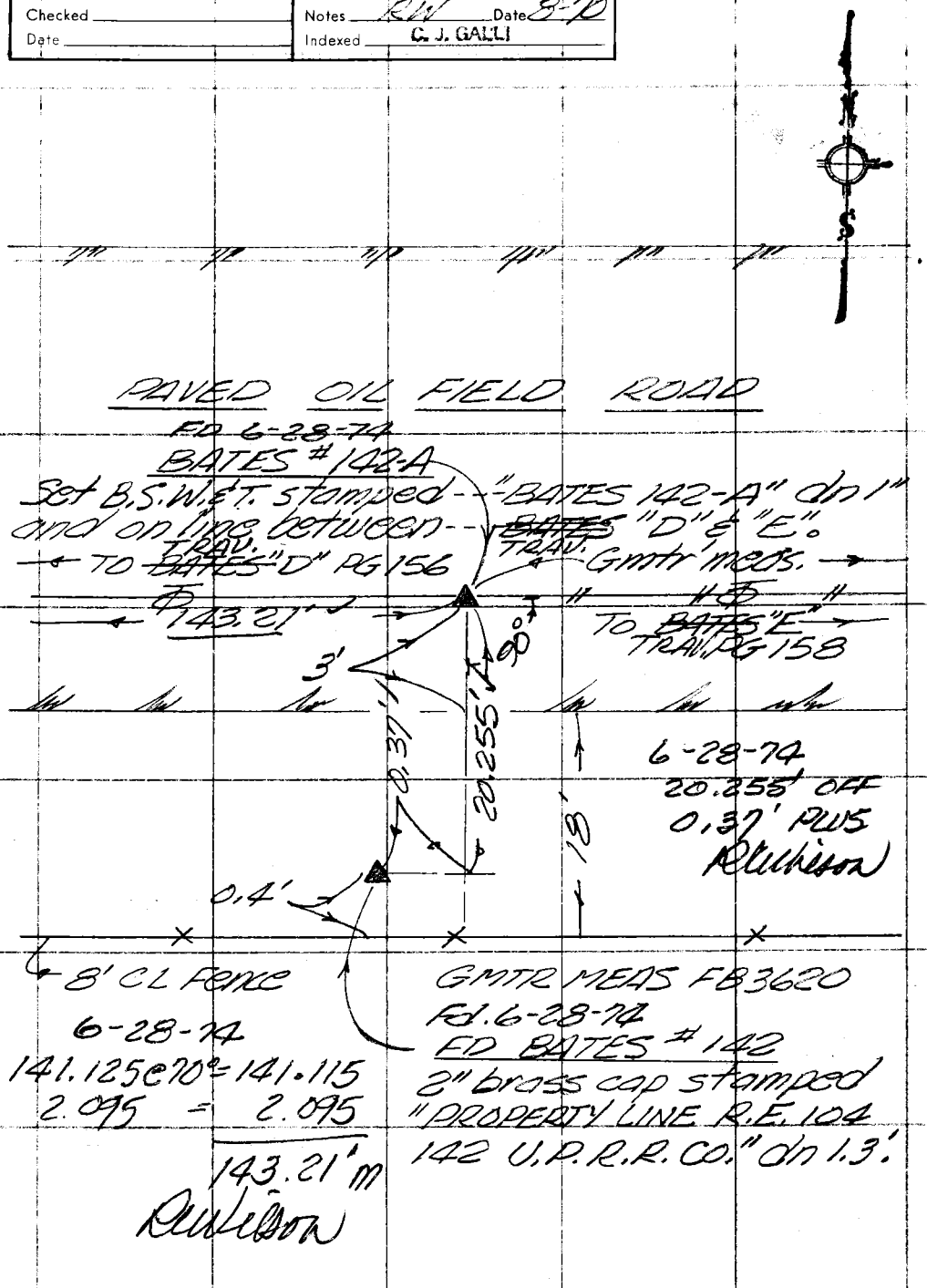
Notes Ck'd by	Survey of LB SUB
Map No.	JN 0301-01 Tape #221 Std 84 °F
Office Work	Surveyed by RW
Checked	Notes RW Date 8-70
Date	Indexed C. J. GALLI

F. B. 948 PG. 157



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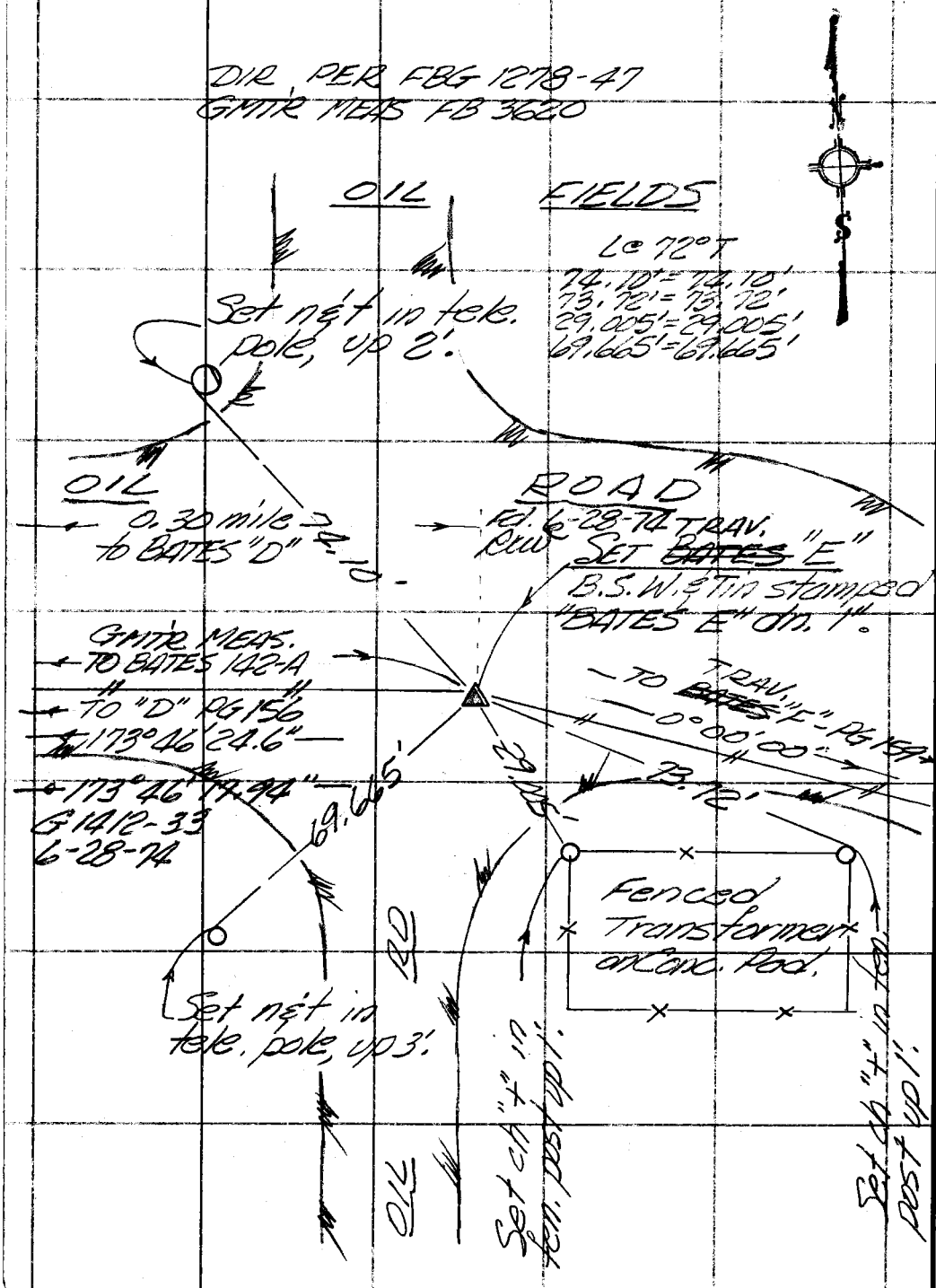
76F309S CE#310 3-68

F. B 942 Pg 158



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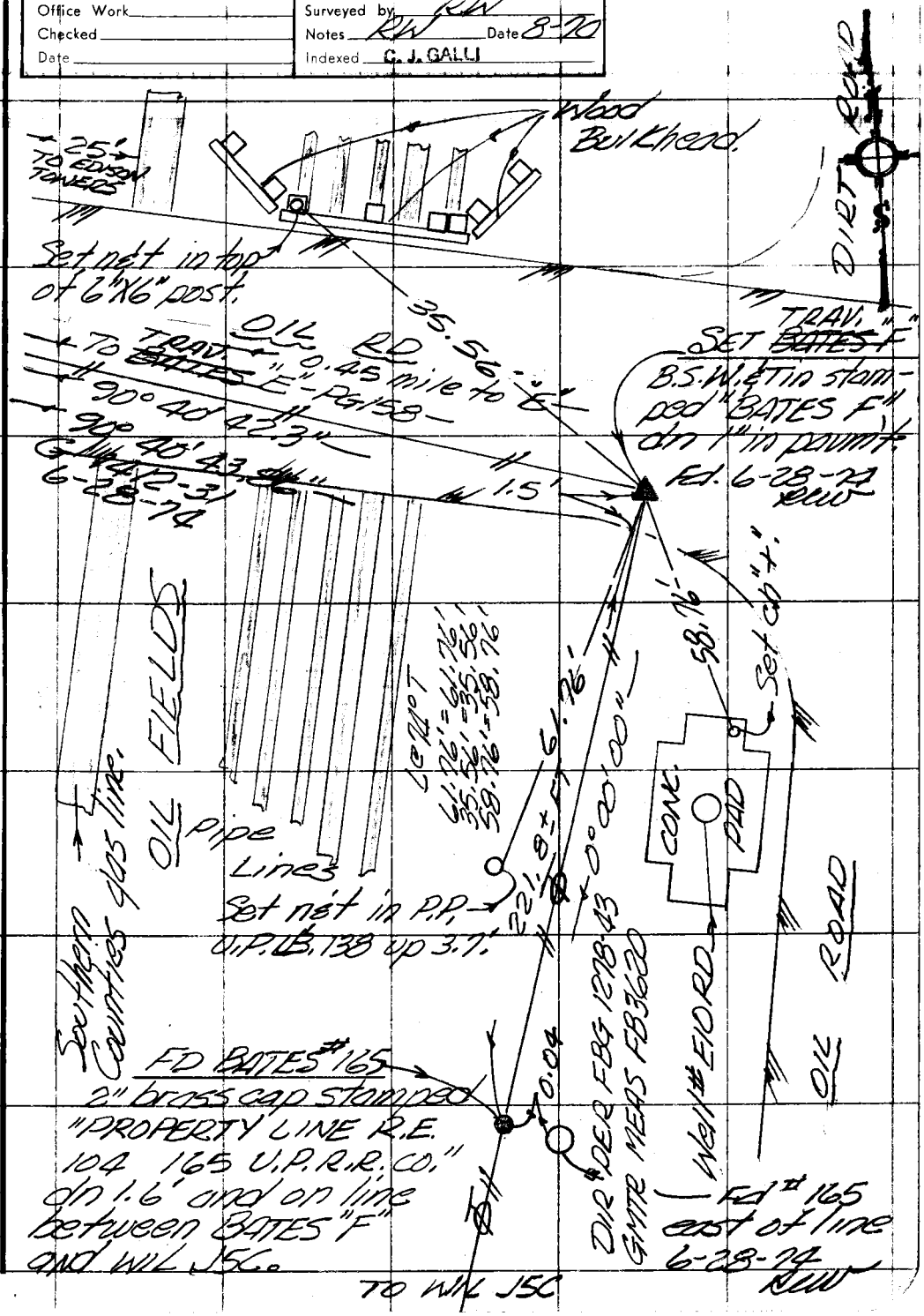
Notes Ck'd by	Survey of LB SUB
Map No.	JN 0321.01 Tape 22 Std 84 °F
Office Work	Surveyed by RW
Checked	Notes RW Date 8-20
Date	Indexed C. J. GALLI

F. B. 942 PG. 159



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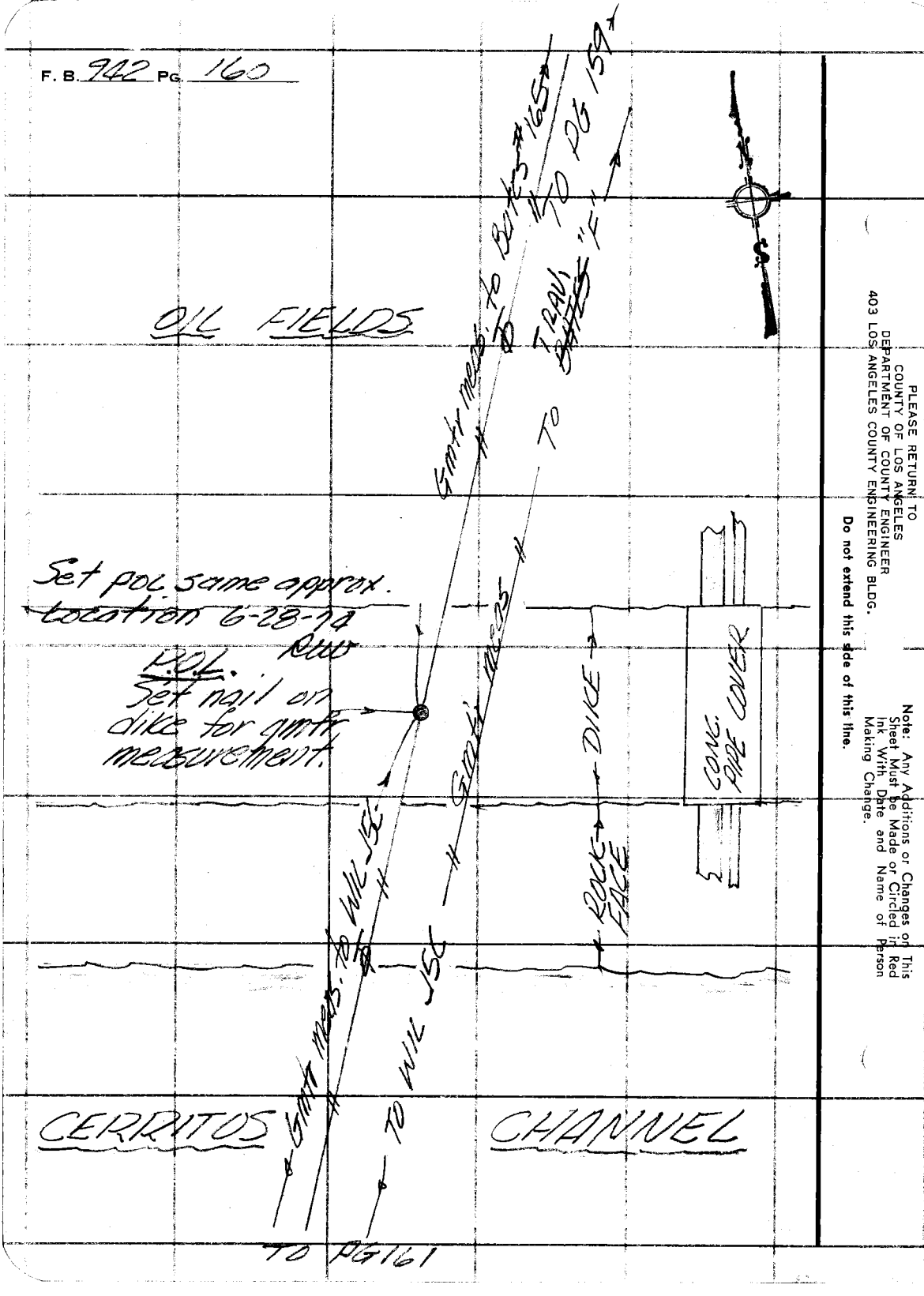
76F309S CE#310 3-69

F. B. 942 PG. 160



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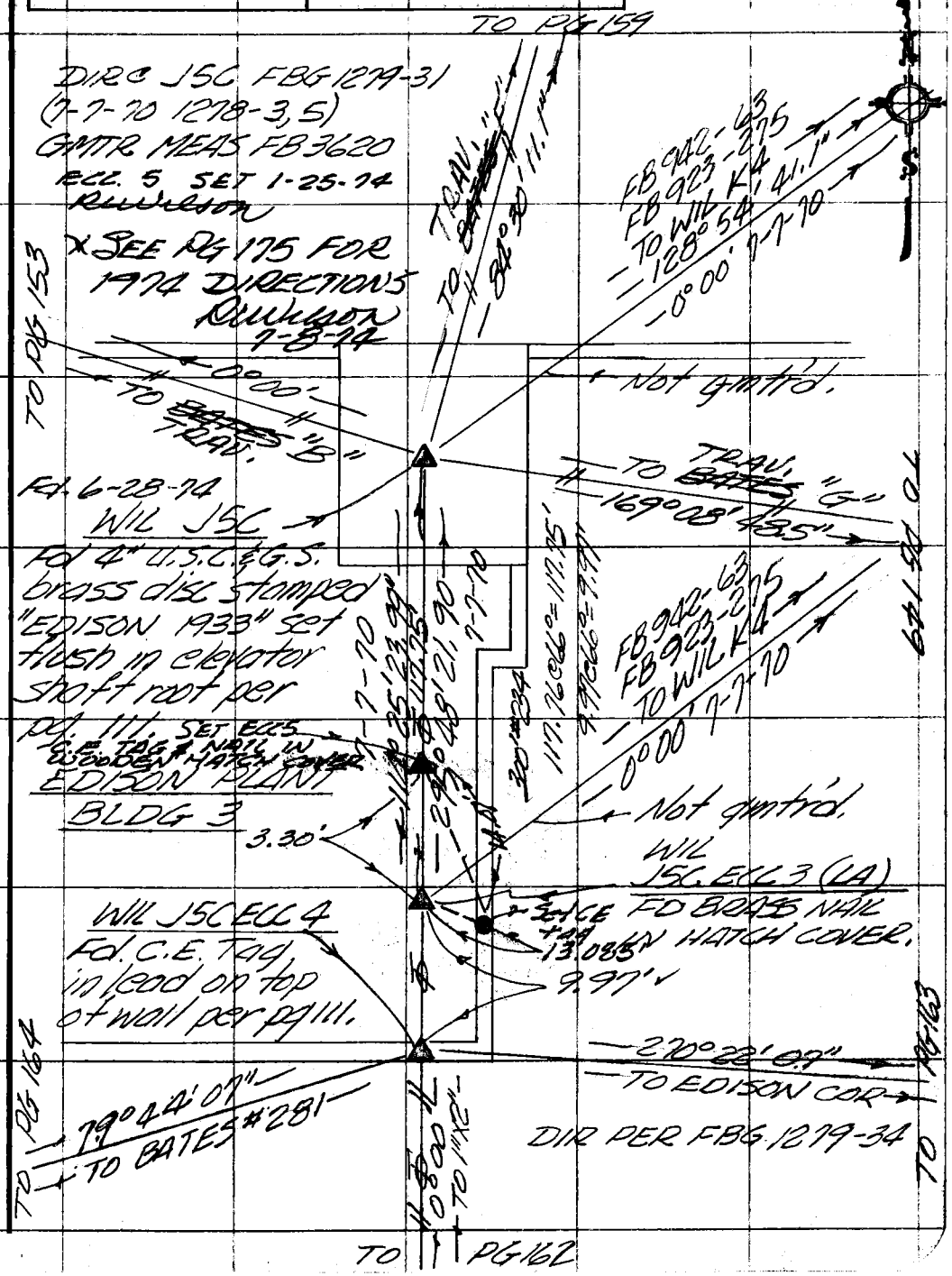
Notes Ck'd by	Survey of LB SUB
Map No.	JN 0301.01 Tape 234 Std 84 °F
Office Work	Surveyed by RW
Checked	Notes RW Date 8-14-70
Date	Indexed G. J. GALLI

F. B. 942 PG. 161



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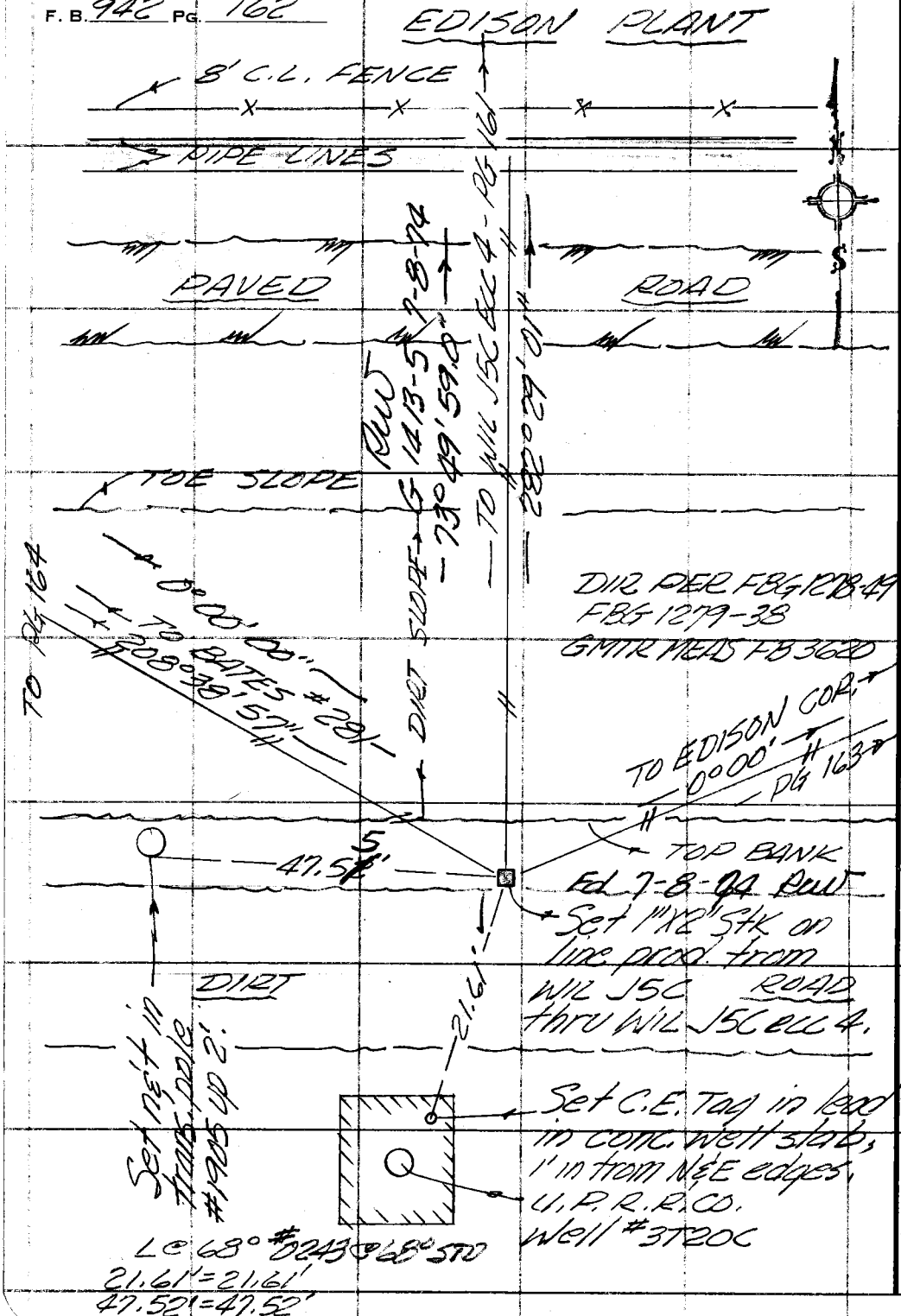
76F309S CE#310 3-69

F. B. 942 PG. 162



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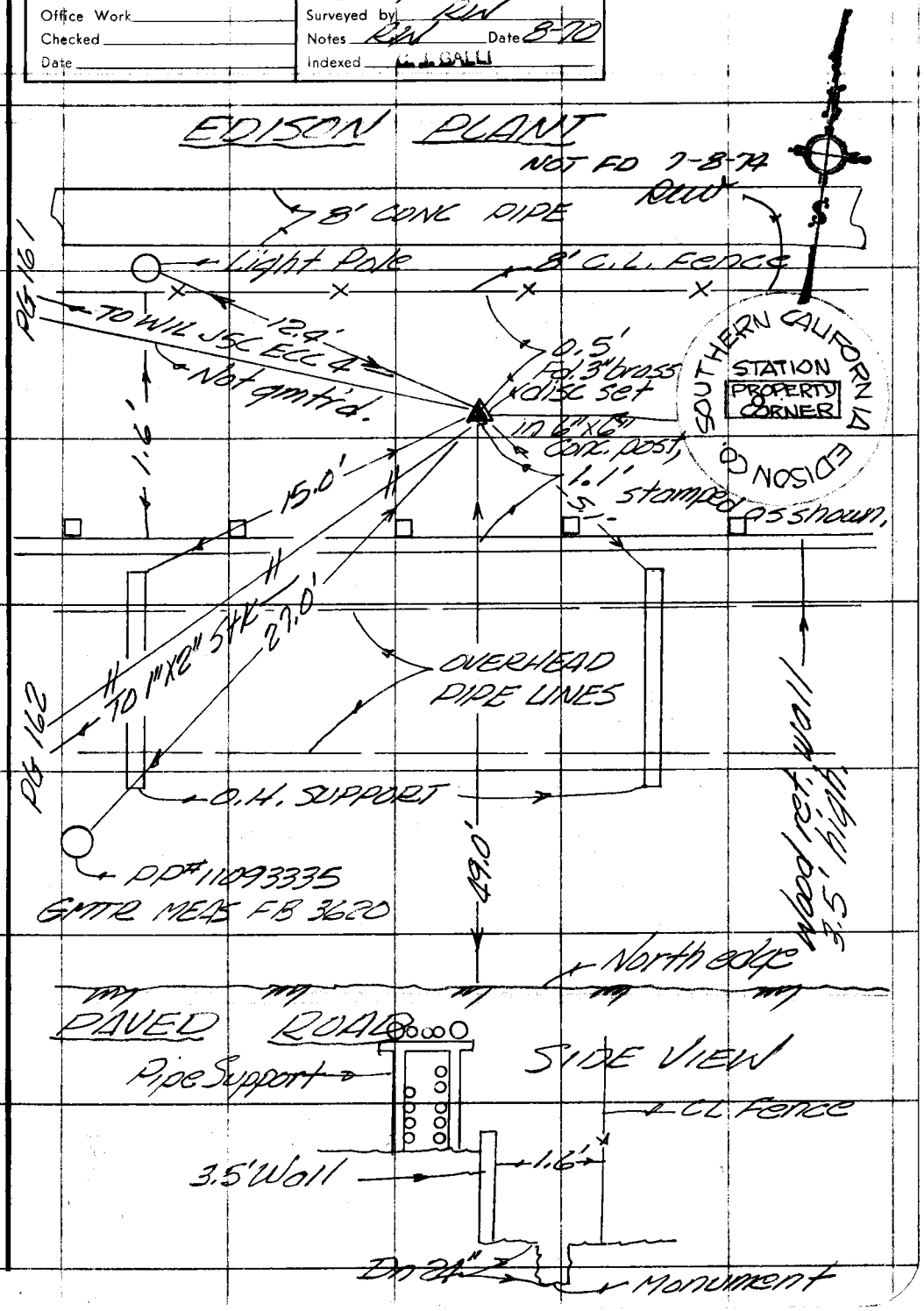
Notes Ck'd by	Survey of LB SUB
Map No.	JN 0301.01 Tape Std °F
Office Work	Surveyed by RW
Checked	Notes RW Date 8-70
Date	Indexed C. J. GALLI

F. B. 942 PG. 163



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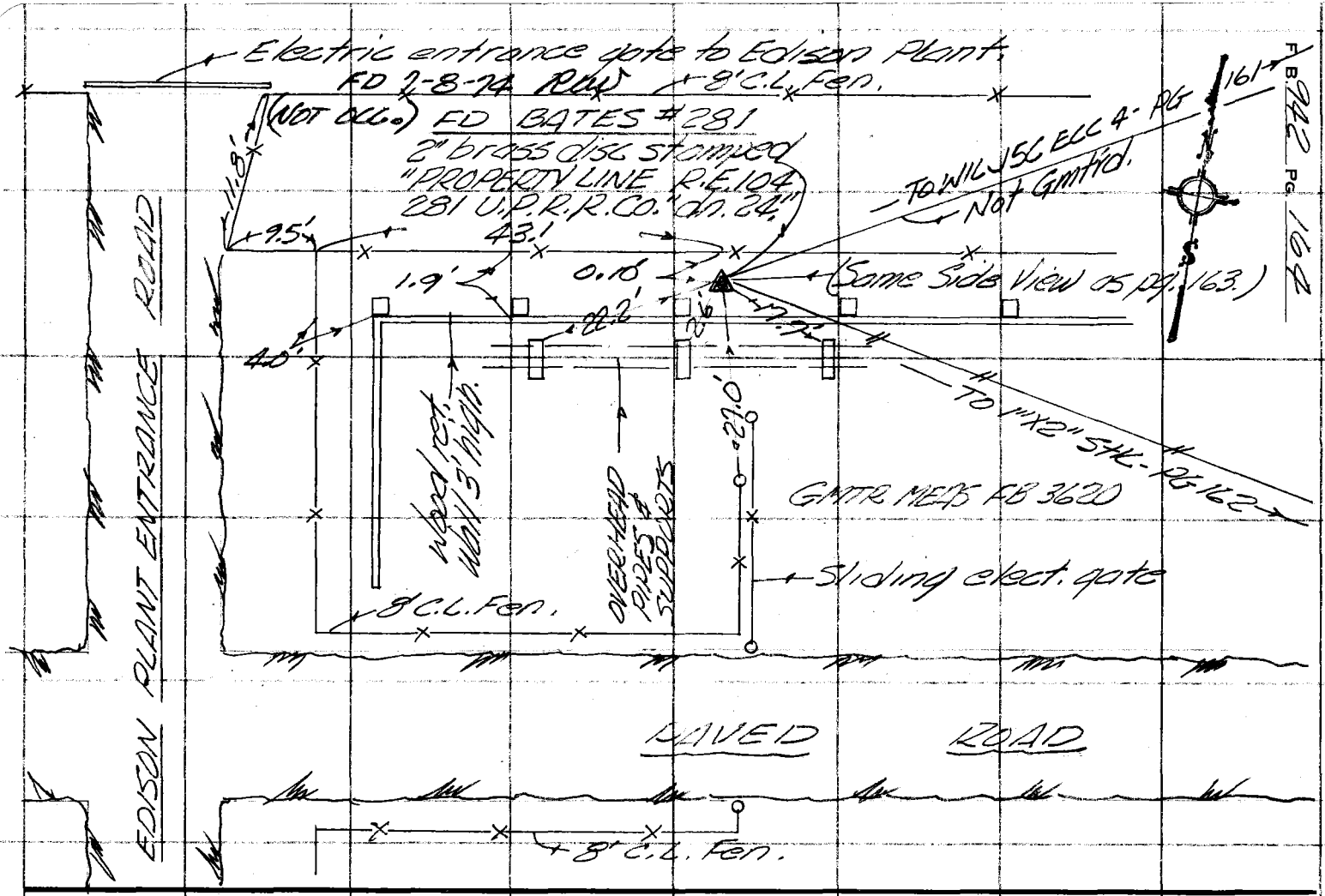
76F309S CE#310 3-69



FB 942 PG 164

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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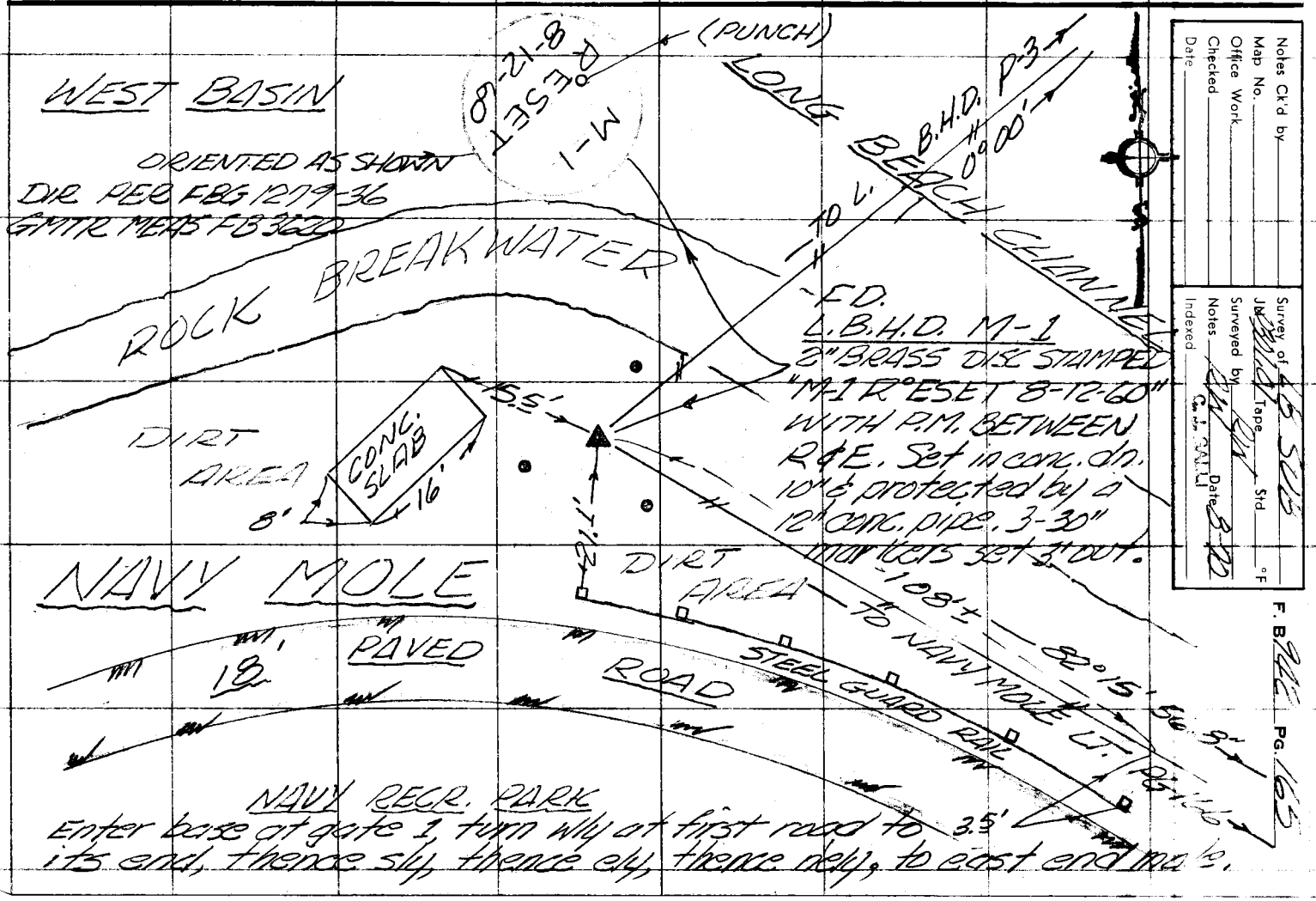
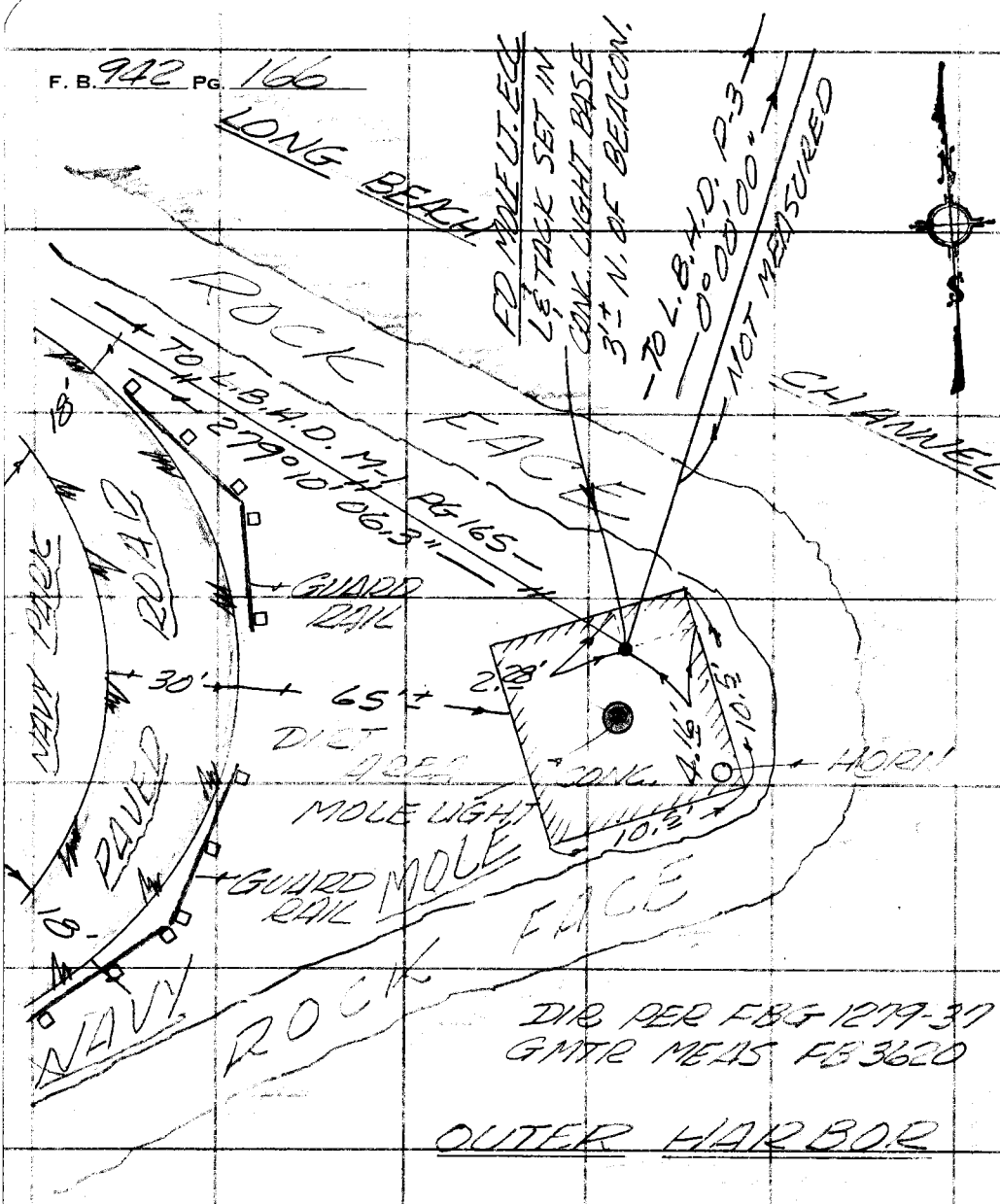


Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LB SUB
Jn. [illegible] Tape Std °F
Surveyed by [illegible]
Notes [illegible] Date 8-20
Indexed

F. B. 942 PG. 165

F. B. 942 PG. 166



Enter base at gate 1, turn w/y at first road to its end, thence s'ly, thence e'ly, thence ne'ly, thence se'ly to the extreme south east point of the NAVY MOLE and the beacon light.

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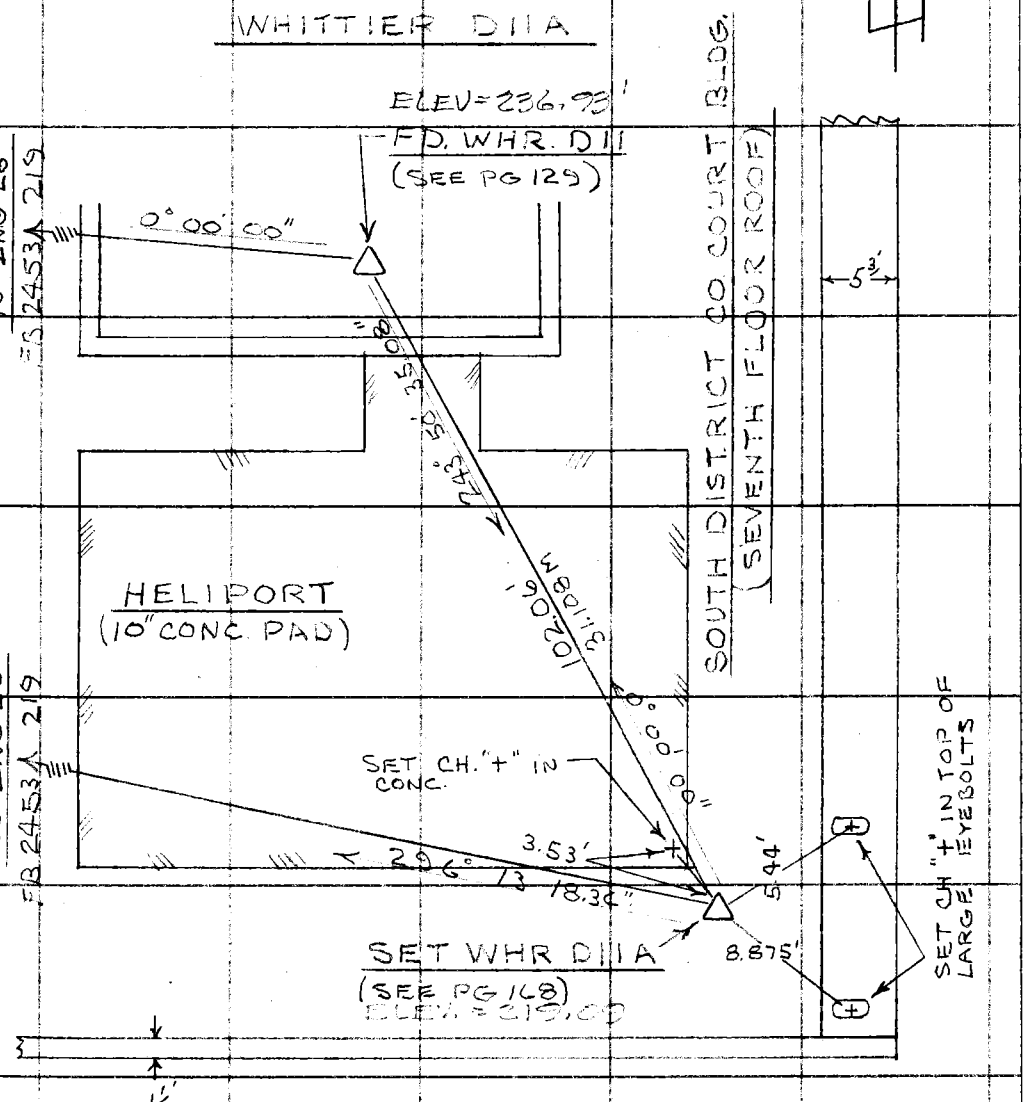
Notes Ck'd by	Survey of GEODETIC CONT
Map No.	JN030100 Tape Std °F
Office Work	Surveyed by R.C. WILSON
Checked	Notes C.A. PYLE Date 12/19/73
Date	Indexed JUN 2 1974

F. B. 942 PG. 167

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
WHITTIER D11A



DIRECTIONS — F.B.G 1389 - 29, 31
MEASUREMENTS — SEE NEXT PG.

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76F309S CE#310 3-69

F. B. 942 PG 168 L. A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

WHR, D11A

50 MTR MC MEASUREMENTS 300' TAPE # 221

T-55°

31.688M = 31.682M @ 10°55' = 31.108M = 102.06'

103.96' = 103.94' @ 10°55' = 102.06'

31.651M = 31.645M @ 10°34' = 31.108M = 102.06'

103.855' = 103.835' @ 10°34' = 102.07'

AREA & ROUTE

THIS STA. IS LOCATED IN L.A. CO. IN THE CITY OF NORWALK AT THE INTER. OF NORWALK BLVD & LEFFINGWELL RD. ON THE ROOF OF THE SO. DISTRICT CO. COURT BLDG. OBTAIN KEY TO ROOF FROM THE BLDG. MAINT. SUPTDT'S OFFICE. TAKE ELEVATOR TO 7TH FLR. & STAIRS TO ROOF. STA. IS LOCATED ADJ. TO S.E. COR OF HELIPORT PAD.

STA. MARK

A 3 1/4" BRASS C.E. TAG STAMPED: "L.A. CO. ENG'R" & BRASS NAIL BONDED FLUSH IN ROOF TOP.

236.81
- 17.84
219.09

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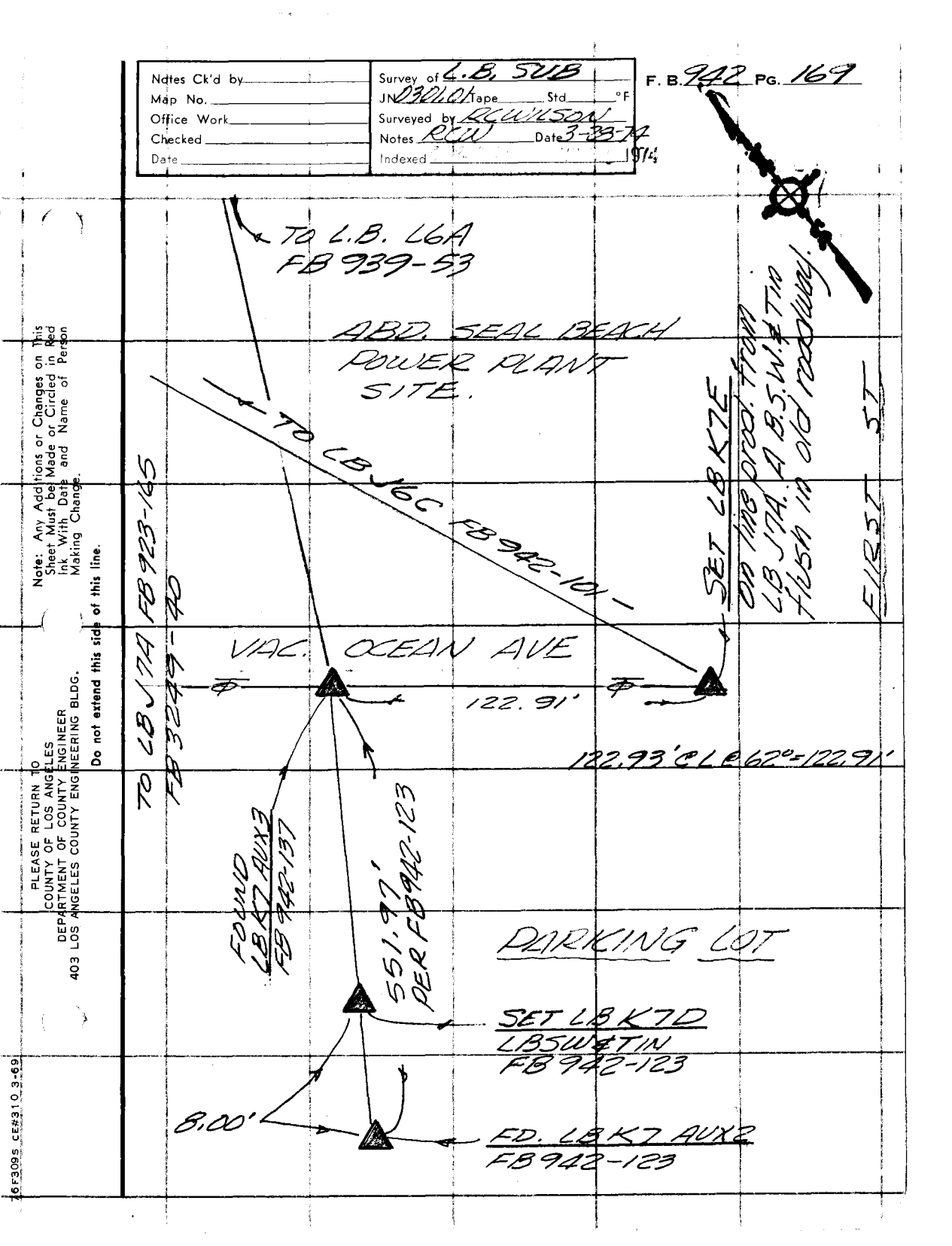
Notes Ck'd by	Survey of L.B. SUB
Map No.	JN 03210 Tape Std °F
Office Work	Surveyed by RCWILSON
Checked	Notes RCW Date 3-29-74
Date	Indexed 1974

F. B. 942 PG. 169



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16F3095 CE#310.3-69

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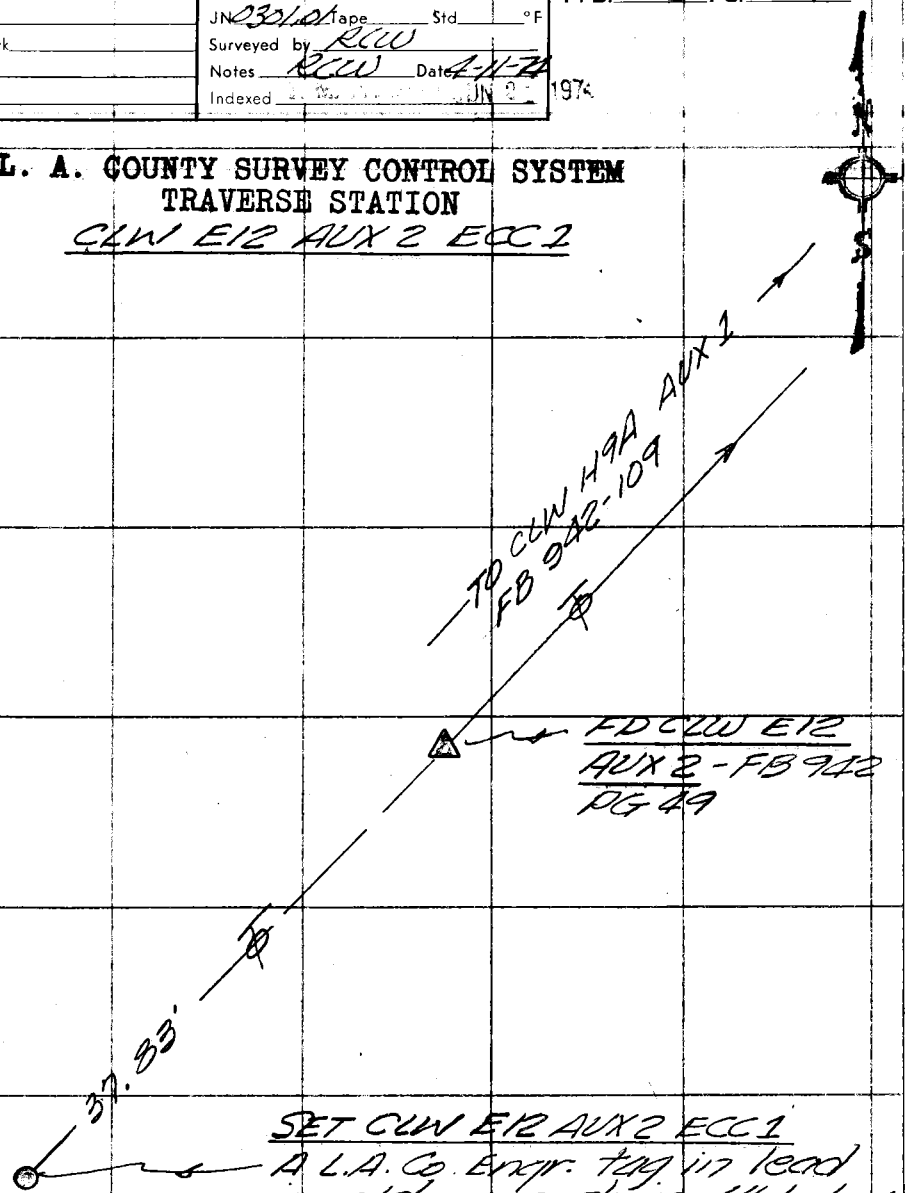
F. B. 942 PG 170

Notes Ck'd by	Survey of L.B. SUB
Map No.	JN 0301.01 Tape Std °F
Office Work	Surveyed by RCW
Checked	Notes RCW Date 4-11-74
Date	Indexed JUN 2 1974

F. B. 942 PG. 171

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
CLW E12 AUX 2 ECC 1



100' ≠ 0176
37.83' @ 62° = 37.83'

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76E309S CE#310 3-69

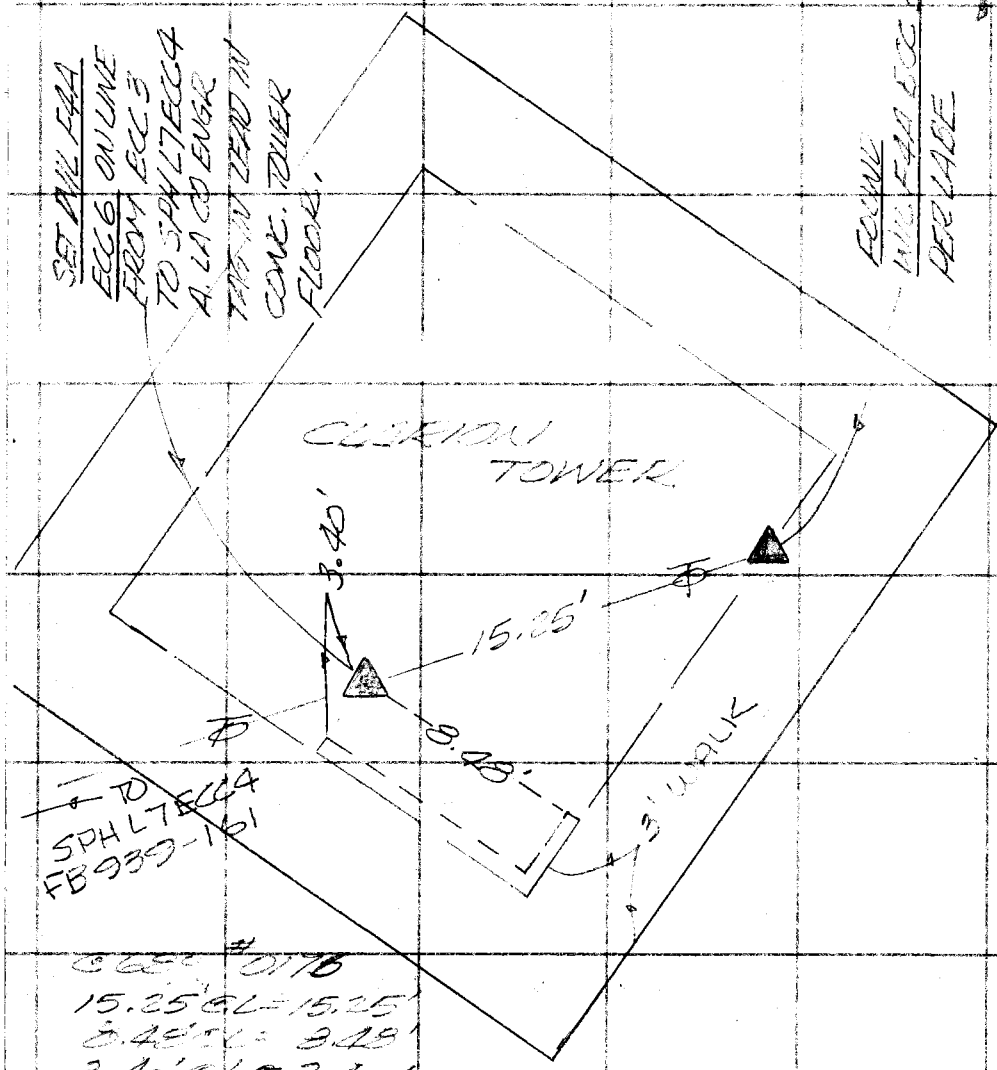
F. B. 942 PG. 172

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

GEODETIC CONTROL

WIL F5A ECC3 & ECC6

CLARION TOWER @ MATSON LINES
PIER 195 - LOS ANGELES HARBOR



@ 68 # 0176
15.25' @ L = 15.25'
8.48' @ L = 8.48'
3.40' @ L = 3.40'

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Notes Ck'd by	Survey of GEODETIC CONT.
Map No.	JN 30101 Tape Std °F
Office Work	Surveyed by RC WILSON
Checked	Notes C.S. PAGE Date 1/4/74
Date	Indexed

F. B. 942 PG. 173

CITY LINE MONUMENTS ON L.A. BREAKWATER

TO WIL. L10

FB 939-154

FD L&T PER L.B.H.D. FB 1627-12

0.10'

APPROX qpm LONG BEACH CORP. BDRY.

LOS ANGELES CORP. BDRY.

APPROX qpm

61.47'

N19° 18' 24.39" W

0.03'

FD L&T ON L.A./L.B. CORP. BDRY LINE PER L.B.H.D. FB 1627-12

See File in Geodetic Section on location of City(s) Bdry Line qpm

15.03'

FD L&T PER L.B.H.D. FB 1627-12

35.00'

0.007'

0.00'

0.27'

0.00'

15.025'

0.05'

S70° 40' 59" E 214.63'

FD A 2½" BRASS CITY OF LOS ANGELES DPSSG SURVEY DIVISION DISC STAMPED "2" S 8 W 1970 L.A. CITY BDRY 1970" BONDED ON EAST SIDE OF LARG BLDR

SEE PG 174

FD L&T No Ref. qpm

15.03' LEV. @ L2° = 15.03'

15.025' LEV. @ L2° = 15.025'

61.47' LEV. @ 60° = 61.465'

35.01' LEV @ L2° = 35.00'

214.6? LEV. @ L4° = 214.63'

272° 05' 52.8"

3.23'

91 39 05.0"

FD L.A.CO. WIL III A4" DSCRGS BRASS TRI STA. DISC PER FB 942-55

1.72'

3.22'

FD L&T & TAG (POSS. L.A.CO. ENGR) STAMPED "A" REST OBLITERATED.

FD L.B.H.D. WIL III ECC 1 PER FB 1627-12, AL&T

DIRS. FBG 1397-19,20 MEAS. SEE ABOVE

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
WIL III & WIL III ECC 1

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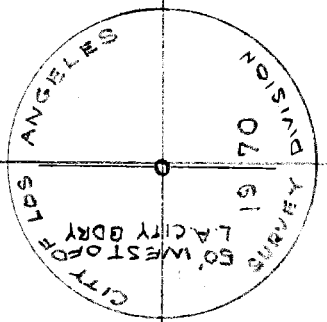
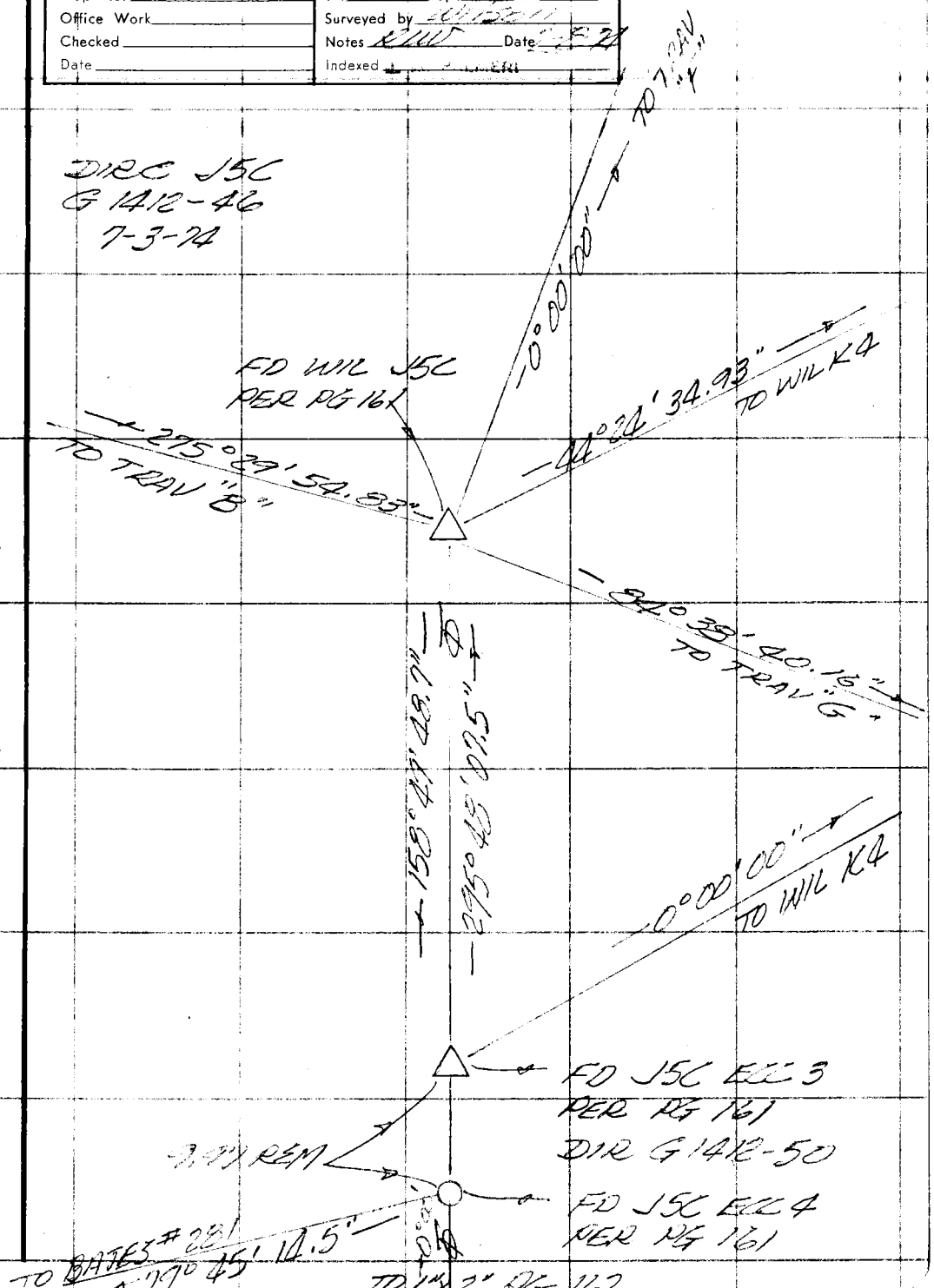
4H



F. B. 942 Pg. 174

Notes Ck'd by	Survey of L.B. 5[illegible]
Map No.	JN 0301.01 Tape Std °F
Office Work	Surveyed by [illegible]
Checked	Notes RLW Date [illegible]
Date	Indexed [illegible]

F. B. 942 PG. 175



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Office Work	Surveyed by W.A. RICHAROS
Checked	Notes W. A. R. Date 9-76
Date	Indexed

F. B. 942 PG. 177

J.N. 0301.00

GEODETIC CONTROL

RE-LOCATION OF PUENTE H-10, WHICH IS TO BE DESTROYED BY CONSTRUCTION

SET NEW STATION - PUENTE H-10 A

FOR TIE-IN ANGLES SEE FB-G-1482 PG. 1-16, INC.

RICHAROS
MOODY
TURRILL
BUSTRUM

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76F309 CE#310.3-69

F. B. 942 PG 178

TRIANGULATION STATION

PUENTE H-10 A

THIS STATION IS IN THE CITY OF INDUSTRY, ON THE MOST W'LY. HILLTOP OF THE SAN JOSE HILLS, AREA A-6, PG. 92, OF THOMAS BROS. L.A. COUNTY STREET MAPS, 1975 EDITION.

ACCESS TO STATION : FROM THE INTERSECTION OF SAN JOSE AVE. & DELL VALLE AVE., IN THE CITY OF LA PUENTE, GO E'LY ALONG SAN JOSE AVE. 200'± TO IRON GATE ("K" KEY), THENCE E'LY. ALONG SAID AVE. 250'± TO 6' C.L. GATE ("L" KEY), THENCE E'LY. & N'LY. ALONG DIRT RD. 0.20 MI. TO 6' C.L. GATE ("L" KEY) THENCE E'LY. ALONG DIRT RD. 0.25 MI., THEN TURN SHARP RIGHT 200'± TO TOP OF HILL & MONUMENT.

SUB-SURFACE MARK - NONE

STATION MARK : PUENTE H-10 A

SET A STANDARD 4" BRASS TABLET TRIANGULATION MARK IN CONC. 4" ABOVE SURFACE AND LETTERED "PUENTE H-10 A 1976, SET BY L.A.CO. ENGR. R.E. 7078

REFERENCE MARK NO. 1 : SET A STANDARD 4" BRASS TABLET IN CONC. FLUSH WITH SURFACE STAMPED "PUENTE H-10 A, R.M. 1, 1976, R.E. 7078

REFERENCE MARK NO. 2 : SET A STANDARD 4" BRASS TABLET IN CONC. FLUSH WITH SURFACE STAMPED "PUENTE H-10 A, R.M. 2, 1976. R.E. 7078

SEE PG. 179, 180 FOR SKETCH AND TIES

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Checked	Notes W. A. R. Date 10-76
Date	Indexed

F. B. 942 PG. 179

PUENTE H-10
TRIANGULATION STATION
(TO BE REMOVED BY CONSTRUCTION)

MEAS. DIST. PUENTE H-10 TO PUENTE H-10 A BY H.P. 3800 A
SLOPE DIST. = 1062.385
VERT. ANGLE = 90° 44' 17" (FROM ZENITH)
TEMP. = 68°, PRESS. = 29.3" HG. P.P.M. COR. = 10
HOR. DIST. = 1062.297
SEE FBG. 1482-1

R.M. #2
LEANING NLY, NO BRASS TABLET, USED CTR. OF PIPE.

R.M. #1
FD. BRASS TABLET DAMAGED, P.M.O.K.

31.3 N

13.96

26.38

TO PUENTE H-10 A

TO RT. PG. 180

TO WORKMAN HILL

PUENTE H-10
FD. STA. MARK IN GOOD CONDITION
PER FB 696-141, 142
" " " 267, 268
TO BE REMOVED BY GOLF COURSE CONST. HILLTOP TO BE LOWERED 115'±

SEE FBG. 1482 PGS. 1-16 FOR HOR. ANGLES

TO LA HABRA G-4

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76F309S CE#310 3-69

F. B. 942 PG 180

PUENTE H-10 A
(NEW STATION)

R.M. # 2
SET A STD. 4" BRASS TABLET IN CONC. FLUSH WITH SURFACE STAMPED "PUENTE H-10A R.M. #2, 1976, R.E. 7078"

R.M. # 1
SET A STD. 4" BRASS TABLET IN CONC. FLUSH STAMPED "PUENTE H-10A R.M. #1, 1976 R.E. 7078"

79.52

31.11

98° 17' 03"

73.03

TO PUENTE H-10 P6.179

TO WHITTIER (-) "WORKMAN HILL"

PUENTE H-10 A
SET A STD. 4" BRASS TABLET TRIANGULATION MARK IN CONC. 4" ABOVE SURFACE LETTERED "PUENTE H-10A 1976, SET BY L.A. CO. ENGR. R.E. 7078"

MEAS. DIST. PUENTE H-10 A TO PUENTE H-10 BY HP 3800A
SLOPE DIST. =
VERT ∠ =
TEMP. = , PRESS. = H.G
P.P.M. COR. =
HOR. DIST. =
SEE FB-G-1482-1

TO LABRA G-4

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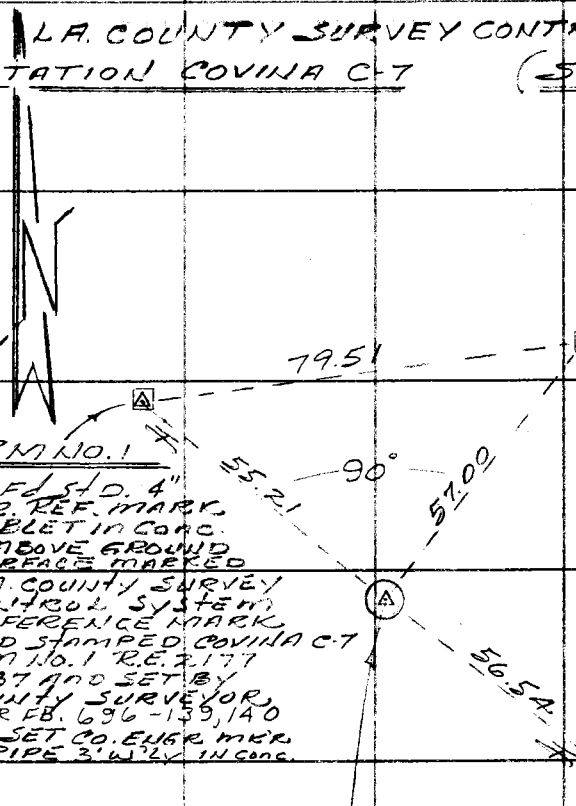
Checked	Notes MAP Date 11-76
Date	Indexed DEC 1976

F. B. 942 PG. 181

POMONA VALLEY

L.A. COUNTY SURVEY CONTROL TRIANGULATION STATION COVINA C-7 (SAN TUZE)



RM NO.1

FD STD 4" BR REF MARK TABLET IN CONC 6" ABOVE GROUND SURFACE MARKED L.A. COUNTY SURVEY CONTROL SYSTEM REFERENCE MARK AND STAMPED COVINA C-7 R.M. NO.1 RE 2177 1937 AND SET BY COUNTY SURVEYOR, PER FB. 696-139, 140 SET CO. ENGR. MK'R PIPE 3' W'LY IN CONC.

RM. NO. 2

FD STD 4" BR. REF. MARK TABLET IN CONC 6" ABOVE GROUND SURFACE MARKED SAME AS RM NO.1 AND STAMPED COVINA C-7 R.M. NO. 2 RE 2177 1937 AND SET BY COUNTY SURVEYOR PER FB. 696-139, 140 SET CO. ENGR. MK'R PIPE 3' W'LY IN CONC. REPORTED DEFACED BUT CTR PUNCH STILL GOOD BY R.C. WILSON DEC. 76, R.M.C. 6-3-77

GEODETIC STATION

FD STD. 4" BR. TABLET SET IN 30" DIA. CONC. CIR-CULAR PAD, FLUSH WITH GROUND SURFACE AND MARKED L.A. COUNTY SURVEY CONTROL SYSTEM TRIANGULATION STATION AND STAMPED "COVINA C-7" SAN TUZE 1957 RESET AND SET BY CO. ENG RE 5869

SET CO. ENGR. MK'R PIPE 3' E'LY IN CONC.

SEE FB. 696-139, 140
FB. 943-57, 58

R.M. NO. 3

SET STD. 4" BR. REF. MARK, TABLET IN CONC. 2" ABOVE GROUND SURFACE MARKED SAME AS RM NO 1 & 2 AND STAMPED COVINA C-7 R.M. NO. 3 RE 7078 1976 AND SET BY L.A. CO. ENGR. ON LN PROD FROM R.M. NO. 1

SET CO. MK'R PIPE 3' E'LY IN CONC.

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76F309 CE#310 3-69

F. B. 942 PG. 182

GEODETIC CONTROL
L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
COVINA C-7 SAN TUZE

AREA: THIS STATION IS LOCATED IN LA. CO. CITY OF WALNUT, TO REACH THIS STATION FROM SAN BERNARDINO FREEWAY I-10 & GRAND AVE GO S.E'LY ON GRAND AVE TO SHADOW MOUNTAIN DR, TURN RT GO S.W'LY ALONG SHADOW MOUNTAIN DR, 0.4 MI. TO END OF ROAD, TURN RT. & N'LY GO 200± TO GATE (L-KEY) FOLLOW DIRT ROAD 0.7 MI. TO GATE (L-KEY) FOLLOW DIRT ROAD 1.0 MI. TO HIGHEST POINT, MON IS 100± E/O DIRT ROAD. SEE THOMAS BROS MAP BOOK (1975 EDITION) PG 93 3-B

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Notes Date
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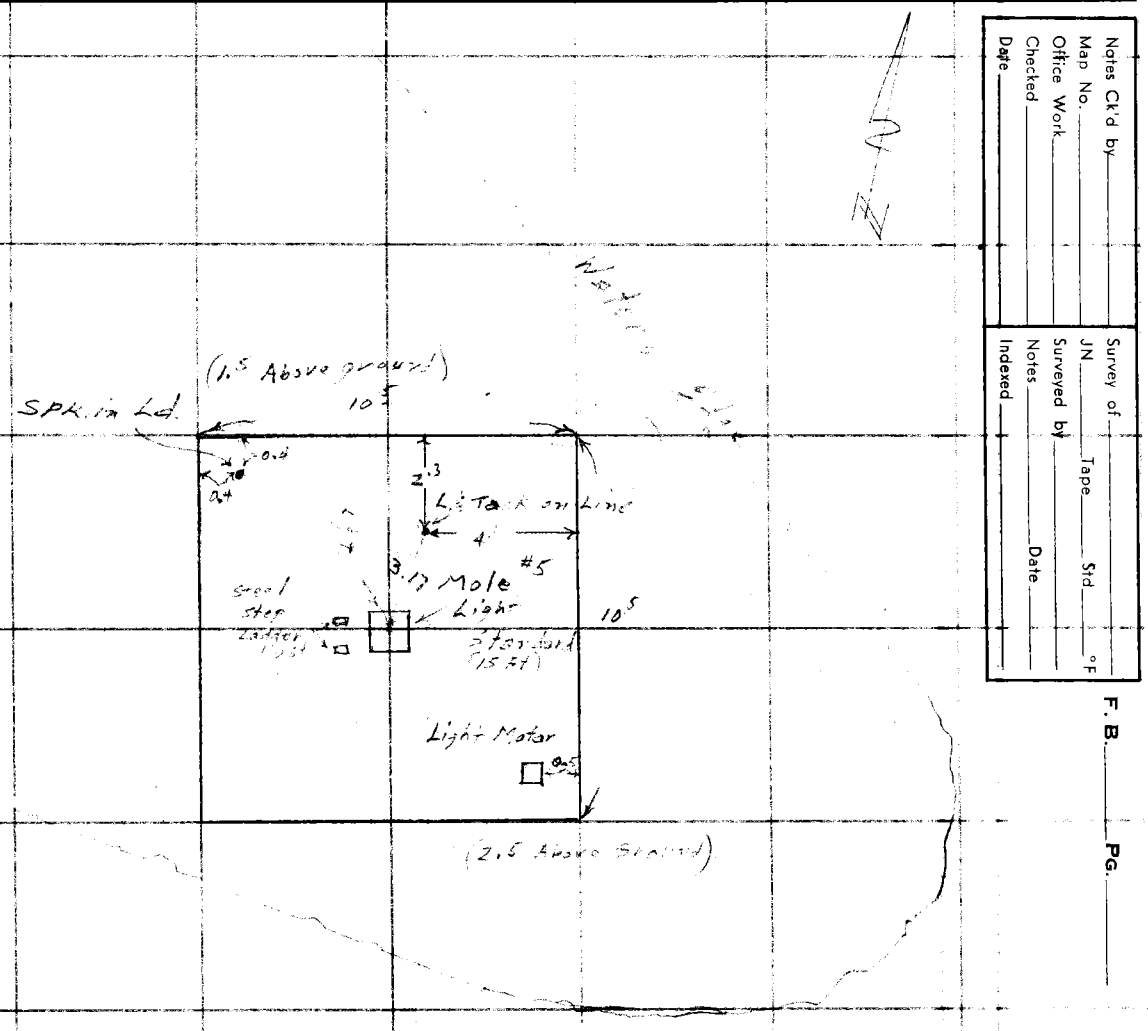

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Date and Name of Person
Change.

F. B. _____ PG _____