ESTABLISHMENT OF — South Gate Area
LATITUDE, LONGITUDE & ELEVATION
AT LA. COUNTY DEPT. OF WEIGHTS
AND MEASURES LABORATORY

Please have a field engineer having access to an HP 3800 instrument and a transit party available for two or three days work in the South Gate area report to me concerning the establishment of a low order survey control station at or near the laboratory of the County Department of Weights and Measures.

To: STOCK

(A)

9-27-77

6920

3-24-77

ECSD1259 169

ER-5

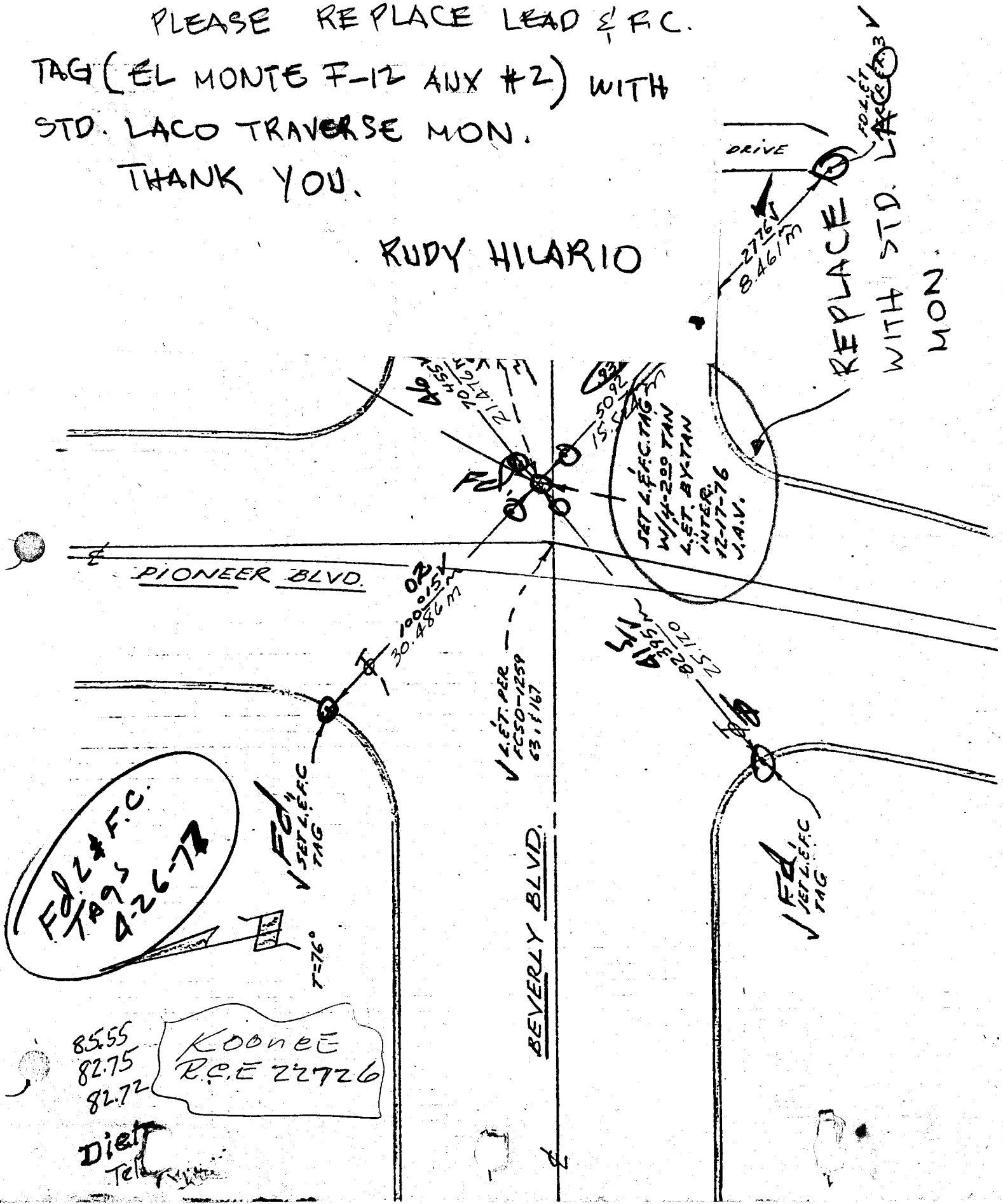
JNTY FLOOD CONTROL DISTRICT

TO: HAROLD STOCK,

PLEASE REPLACE LEAD & F.C. TAG (EL MONTE F-12 AUX #2) WITH STD. LACO TRAVERSE MON.

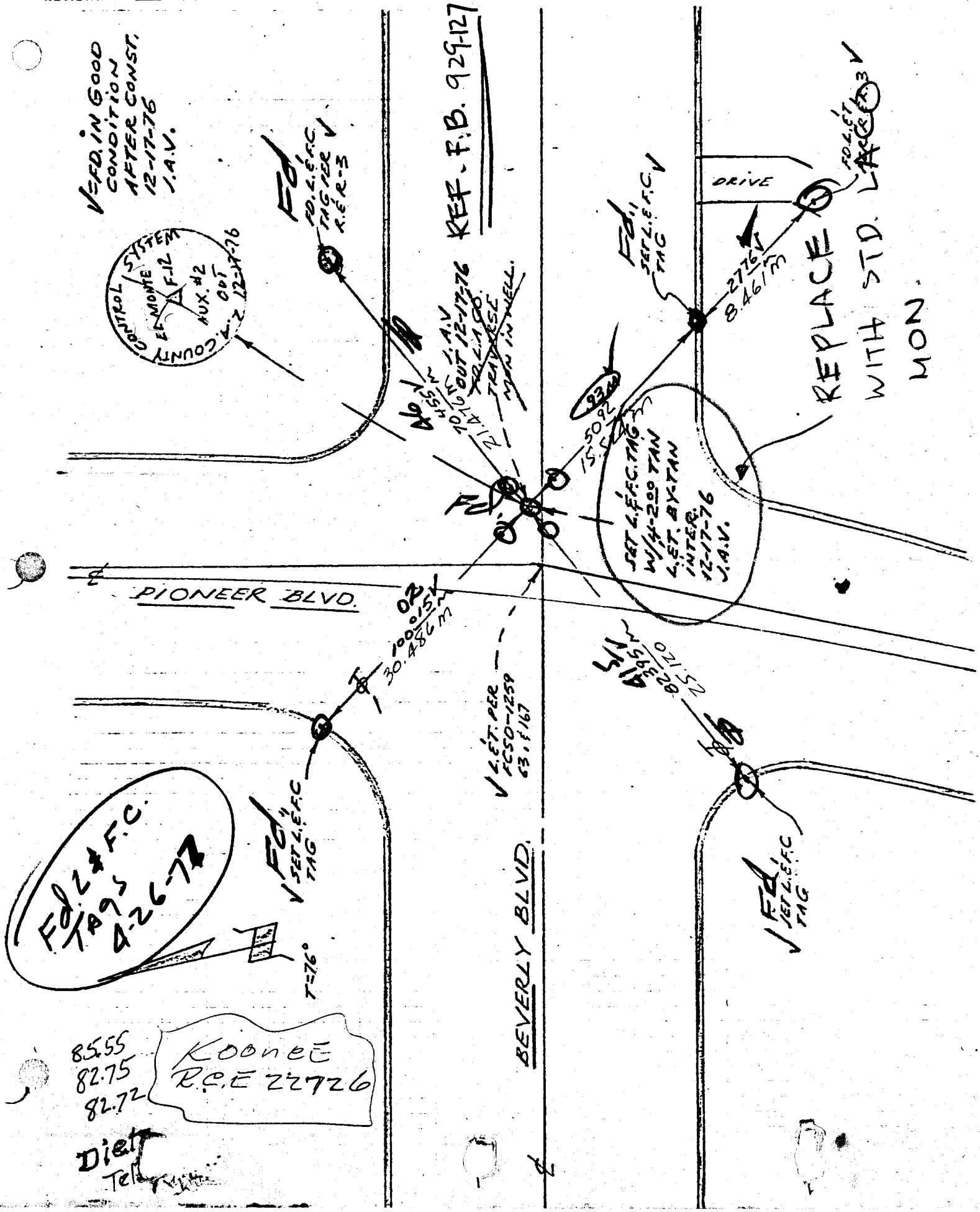
THANK YOU.

RUDY HILARIO



-74
SUBJECT 1259-2 LINE "B"
SURVEY BY I.A.V. DATE 10-4-76
REVIEWED BY R. K DATE 12-29-76

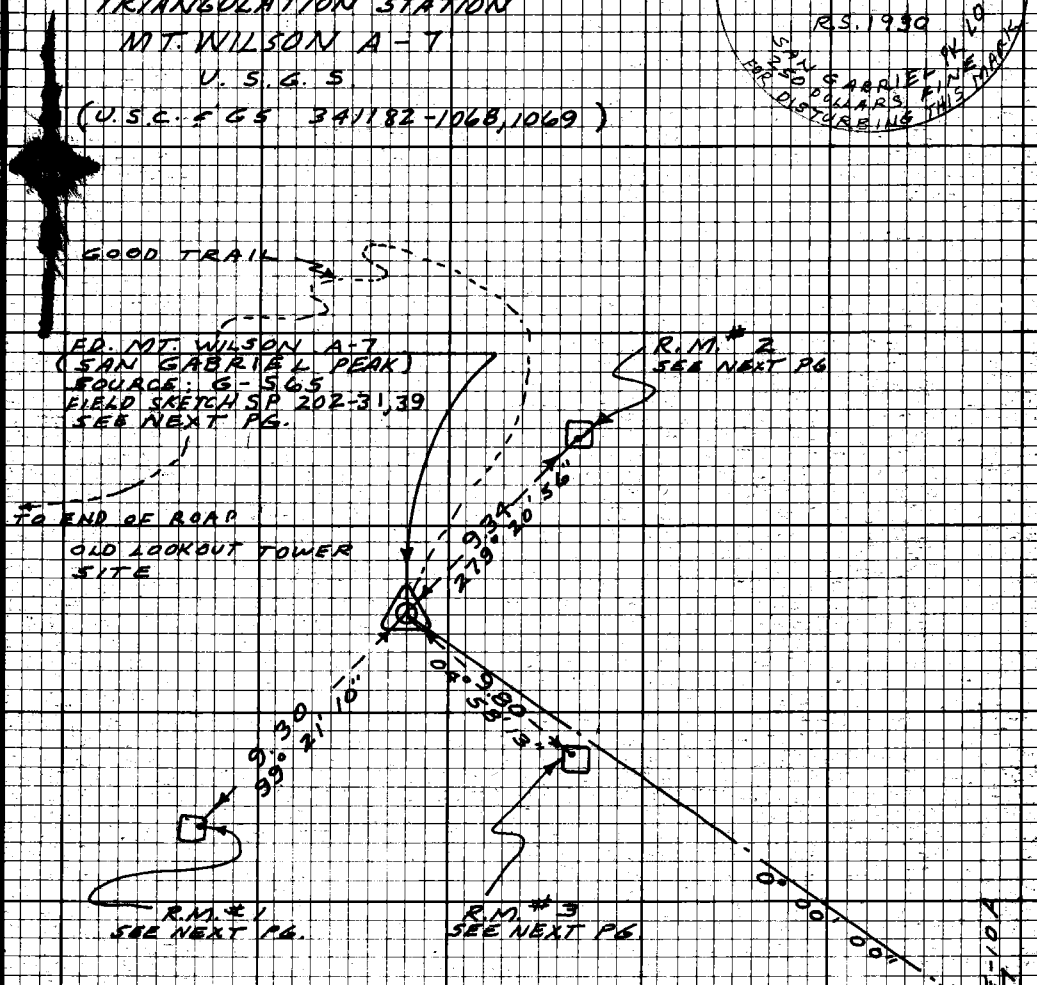
INDEX ECSD1259 169
R.E.R-5
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT



Notes Ck'd by	GEODETIC CONTROL
Map No.	Survey of
Office Work	JN 030100 Tape — Std — °F
Checked	Surveyed by W. A. RICHARDS
Date	Notes W. A. R. Date 1-77
	Indexed

FB 2463 PG 5

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
MT. WILSON A-7
U.S.G.S
(U.S.C.&G.S 341182-1068,1069)



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403 LOS ANGELES COUNTY ENGINEERING BLDG.

Microfilmed Nov. 85.

F.B. 2463 Pg. 6

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
MT. WILSON A-7
U.S.G.S.

MEASUREMENTS

100' TAPE @ 68° F.
T = 66°
9.30 @ LEVEL = 9.30'
9.34 " " = 9.34'
9.80 " " = 9.80'

50 MTR. TAPE M-1 @ 84° F.
2.834 M. T = 66° @ LEVEL = 9.30'
2.846 M. " " = 9.34'
2.986 M. " " = 9.80'

AREA: THIS TRIANGULATION STATION IS LOCATED IN LOS ANGELES COUNTY, ABOUT 2.5 MI. N.W. OF THE MT. WILSON OBSERVATORY, ON THE HIGHEST POINT IN THE SAN GABRIEL MOUNTAIN RANGE.

ROUTE: FROM THE JUNCTION OF ANGELES CREST HWY. & MT. WILSON - RED BOX RD., GO 0.3 MI. ALONG THE MT. WILSON - RED BOX RD. TO THE JUNCTION WITH A PAVED SIDE ROAD, TURN RT., GO THROUGH GATE, FOLLOW PAVED RD. 1.8 MI. TO LOCKED GATE, FOLLOW PAVED RD. 0.1 MI. TO AN ABANDONED MILITARY INSTALLATION. END OF STANDARD VEHICLE ACCESS. FOLLOW WELL MARKED TRAIL FROM THE PARKING AREA TO THE STATION SITE.

STATION MARK: A STANDARD CO-OP TABLET STAMPED "SAN GABRIEL PK. LO RS 1930", CEMENTED IN A LARGE BOULDER FLUSH WITH GROUND.

NOTE: THE FOREST SERVICE LOOKOUT TOWER HAS BEEN DISMANTLED.

REFERENCE MARKS: R.M. 1 A L.A. CO. ENGR. TAG IN LEAD IN 18" X 18" CONC. PILE, UP 10" FROM GROUND SURFACE

R.M. 2 & 3: SAME AS R.M. 1

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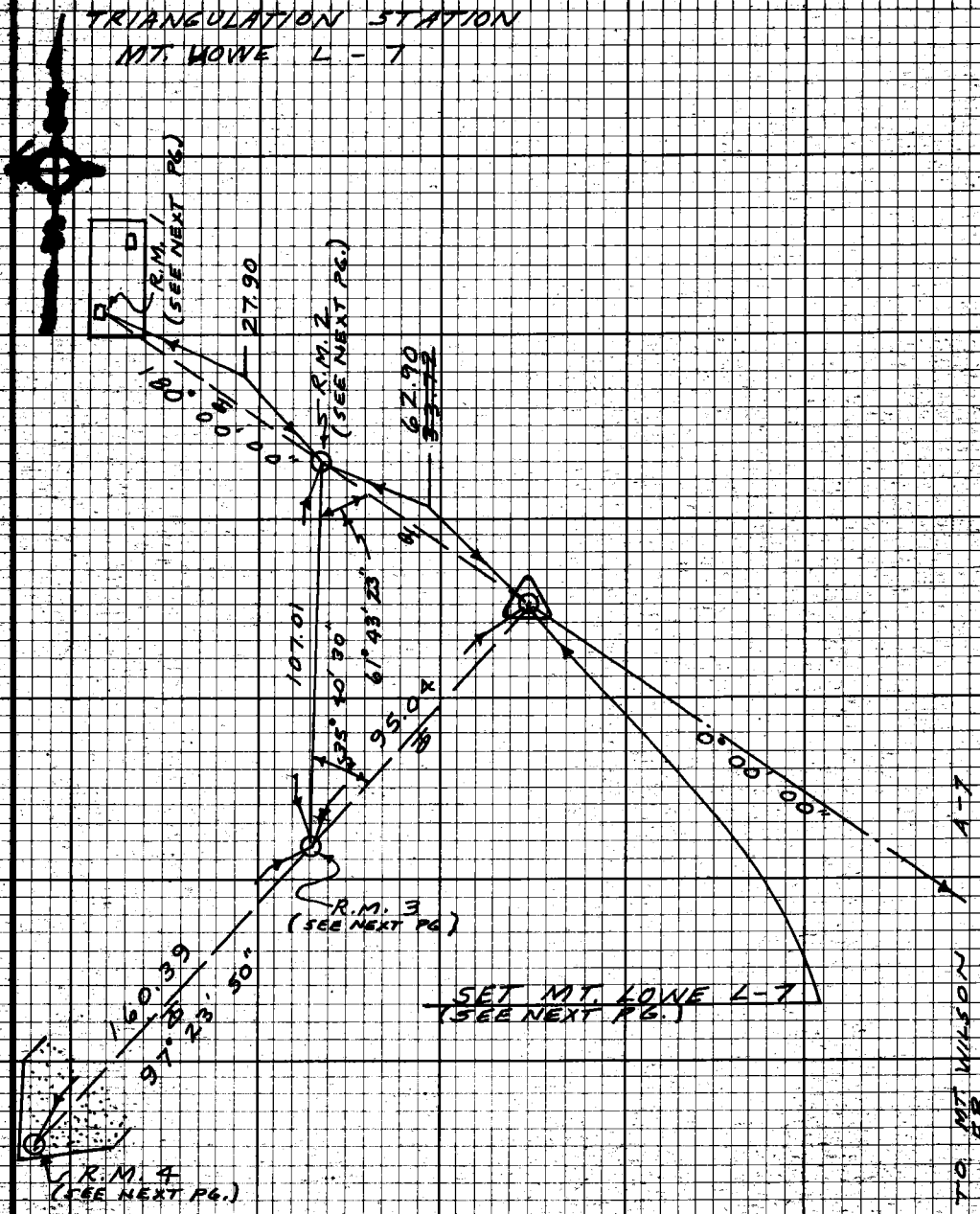
Map No.	JN 030100 Tape — Std — °F
Office Work	Surveyed by W. A. RICHARDS
Checked	Notes W. A. R. Date 4-77
Date	Indexed

F.B. 2463 PG. 7

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
MT. LOWE L-7



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75F3098 CE#310 9-67

FB2463 Pg. 8

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
MT. LOWE L-7

MEASUREMENTS

100' TAPE @ 68° F.
T = 66°
29.18 @ LEVEL = 29.18'
37.60 @ 26° 15' 54" = 33.72
TOTAL = 62.90'
95.04 @ LEVEL = 95.04'
107.01 @ LEVEL = 107.01'

50 MTR. TAPE M-1 @ 84° F.
T = 66°
8.893 m @ LEVEL = 8.892 = 29.17
10.685 m @ 15° 46' 19" = 10.282 m = 33.73
TOTAL LEVEL DIST. = 62.90
28.971 m @ LEVEL " = 95.04
32.622 m " " " = 107.01

AREA: THIS TRIANGULATION STATION IS LOCATED IN LOS ANGELES COUNTY, ABOUT 3.0 MI. N.W. OF THE MT. WILSON OBSERVATORY, ON MT. DISSAPPOINTMENT

ROUTE: FROM THE JUNCTION OF ANGELES CREST HWY. & MT. WILSON RED BOX RD., GO 0.3 MI. ALONG THE MT. WILSON RED BOX RD. TO THE JUNCTION WITH A PAVED SIDE RD. TURN RT., GO THROUGH GATE, FOLLOW PAVED RD. 1.8 MI. TO GATE, FOLLOW PAVED RD. 0.05 MI. TO THE JUNCTION WITH A PAVED SIDE RD., TURN HARD RT., FOLLOW PAVED SIDE RD. 0.25 MI. TO TOP OF MT. & PARKING AREA STATION IS LOCATED 2.5' ± S'LY OF S'LY EDGE OF THE MOST N'LY HELICOPTER PAD.

STATION MARK: A 6" BOAT SPIKE, WASHER & TIN FLUSH WITH MACADAM PAVEMENT
NOTE: THIS STATION WILL PROBABLY BE DESTROYED BY CONST.

REFERENCE MARKS:
R.M. 1 A P.M. & CHI. "+" IN STEEL RIM OF SEPTIC TANK ACCESS COVER
R.M. 2 A 6" BOAT SPIKE, WASHER & TIN FLUSH IN MAC. PVT.
R.M. 3 SAME AS R.M. 2
R.M. 4 A P.M. & CHI. "+" ON TOP OF 3/8" STEEL TIE DOWN RING @ THE MOST S'LY. POINT OF THE MOST S'LY. HELICOPTER PAD

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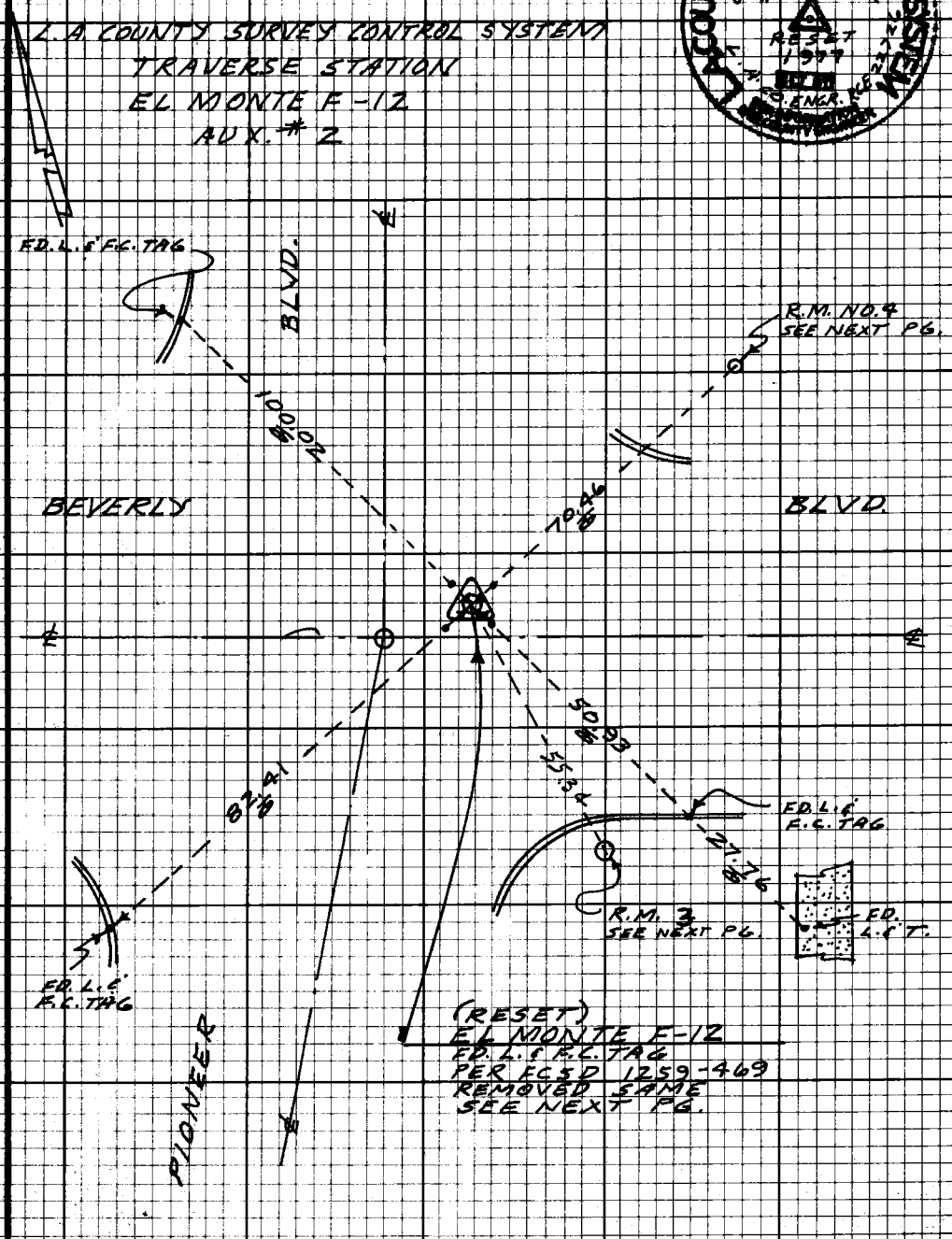
Office Work	Surveyed by W. A. RICHARDS
Checked	Notes W. A. R. Date 4-77
Date	Indexed

F.B. 2463 PG. 9

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
EL MONTE F-12
AUX. 2
RESET
1977
L.A. CO. ENGR. RCE 22726



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75F3098 CE # 310 9-67

FB 2463 PG. 10

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
EL MONTE F-12
AUX. #2

MEASUREMENTS

100' TAPE @ 68° F.
T = 68°

82.41' @ LEVEL	= 82.41'		
100.02 @ "	= 100.02'		
70.46 @ "	= 70.46'		
50.93 @ "	= 50.93'		
27.76 @ "	= 27.76'		
55.34	55.34		

50 METER TAPE M-1 @ 84° F.
T = 69°

25.121 @ LEVEL	= 25.118 M	= 82.41'	
30.486 M @ "	= 30.486 M	= 100.02'	
21.476 M @ "	= 21.476 M	= 70.46'	
15.523 M @ "	= 15.523 M	= 50.93'	
8.462 M @ "	= 8.461 M	= 27.76'	
16.870	8.868	55.34	

AREA: THIS TRAVERSE STATION IS LOCATED IN LOS ANGELES COUNTY, IN THE SOUTHEASTERLY PORTION, IN THE INTERSECTION OF BEVERLY BLVD. & PIONEER BLVD. REFER TO THOMAS BROS. MAP GUIDE, LOS ANGELES COUNTY, 1975 EDITION, PAGE 55, BLOCK C-2.

ROUTE: FROM THE INTERSECTION OF THE SANTA ANA FREEWAY & THE SAN GABRIEL RIVER FREEWAY (605), GO N.LY. ON THE 605 FREEWAY 2 MI. ± TO THE BEVERLY BLVD. OFFRAMP, TURN RT., FOLLOW OFFRAMP TO PIONEER BLVD. GO S.LY. ON PIONEER BLVD. 500' ± TO BEVERLY BLVD.

STATION MARK: A 4" L.A. CO. SUR. CONT. SYS. BRASS TRAV. DISC. STAMPED "EL MONTE F-12 AUX. 2 RESET 1977 L.A. CO. ENGR. RCE 22726" DN. 10" BELOW CONC. PVT., SET IN CONC., WITH L.A. CO. ENGR. CAST IRON COVER

REFERENCE MARKS: R.M. 3 A 4" L.A. CO. SUR. CONT. SYS. BRASS REF. MARK DISC. STAMPED "EL MONTE F-12 AUX 2 R.M. 3 1977 L.A. CO. ENGR. RCE 22726" DN. 10" IN H.H. IN CONC. WALK

R.M. 4 SAME AS R.M. 3 EXCEPT STAMPED R.M. 4

R.M. 1 & R.M. 2 SEARCHED FOR AND NOT FOUND-OUT BY CONST.

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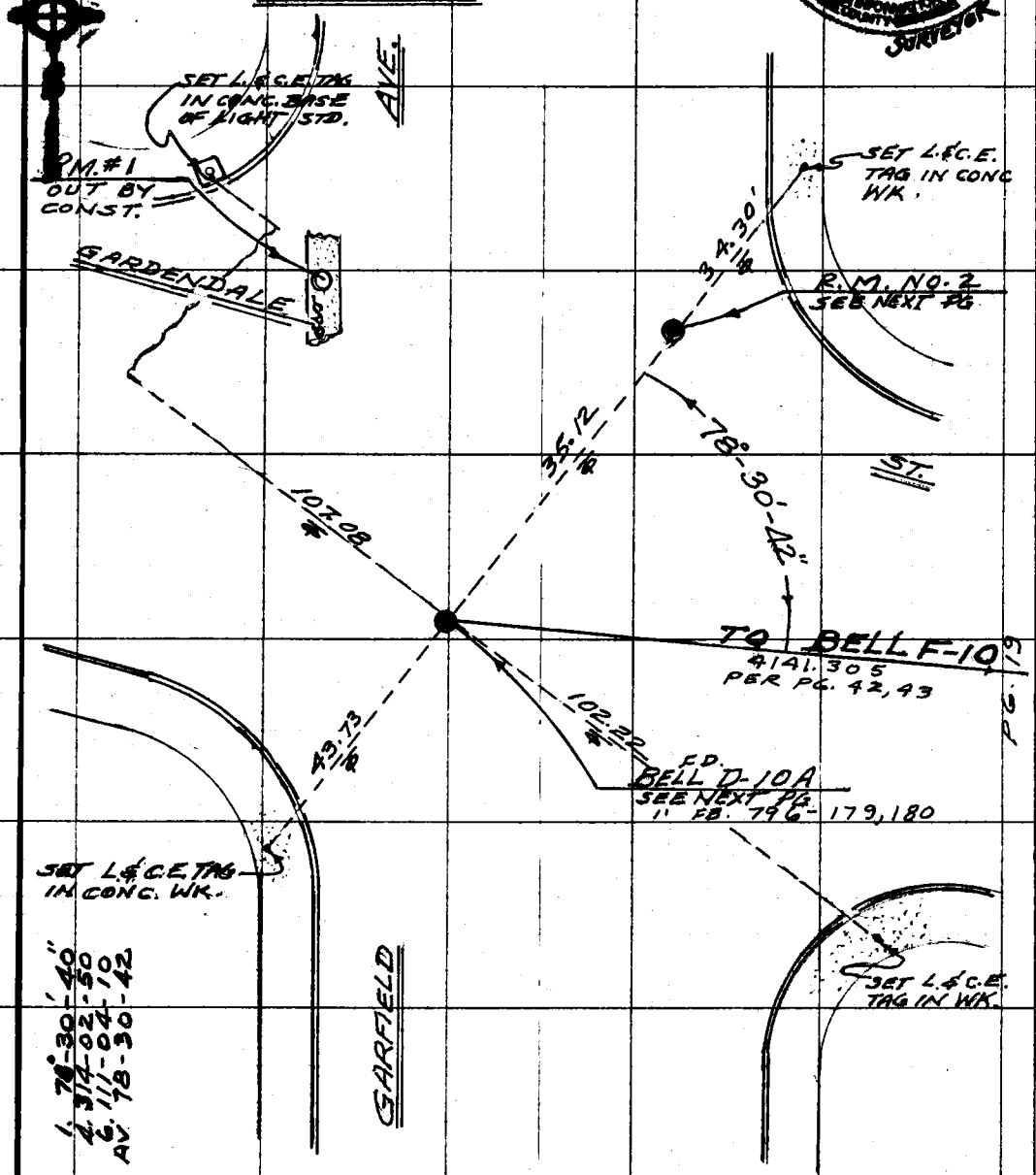
Office Work	Surveyed by W.A. RICHARDS
Checked	Notes W.A.R. Date 3-77
Date	Indexed

F. B. 2463 PG. 11

LA COUNTY SURVEY CONTROL SYSTEM
BELL D-10A
1998
SURVEYOR

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
BELL D-10A



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DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-69

F. B 2463 PG. 12

L.A. COUNTY SURVEY CONTROL SYSTEM

TRAVERSE STATION

BELL D-10A

MEASUREMENTS

100' TAPE @ 68° F. T = 68°		50 METER TAPE M-1 @ 84° F. T = 68°	
43.73 @ LEVEL	= 43.73	13.330 @ LEVEL	= 13.329 M.
107.08 "	107.08	32.641 " "	32.638 M.
35.12 "	35.12	10.706 " "	10.705 M
34.30 "	34.30	10.456 " "	10.455 M.
102.22 "	102.22	31.160 " "	31.157 M

AREA: THIS TRAVERSE STATION IS IN THE CITY OF SOUTH GATE (HOLLYDALE DISTRICT), IN THE INTERSECTION OF GARFIELD AVE AND GARDENDALE ST.

STATION MARK: 3-77 FD. STATION AS SHOWN IN F.B. 796-179,180, SET NEW TIES SHOWN ON PREVIOUS PG. 5-77 FD. STATION DISTURBED BY CONSTRUCTION, LEANING S'LY. RESET ORIGINAL STATION BY TIES DN. 8" IN H.H. - NO CHANGE IN STAMPINGS.

REFERENCE MARKS: R M 1 - NOT FOUND, PRESUMED OUT BY CONSTRUCTION

R M 2 - FD. 3/4" I.P., CONC. PLUG 6" T., IN CONC., 30" BELOW NEW PAVEMENT SURFACE. SET A 3/4" L.A. CO. SUR. CONT. SYS. BRASS REF MARK DISC STAMPED "BELL D-10A, R M 2, 1977, RCE 22726" 8" BELOW PVT. SUR., IN CONC., IN H.H. AND CAST IRON COVER OVER 3/4" I.P.

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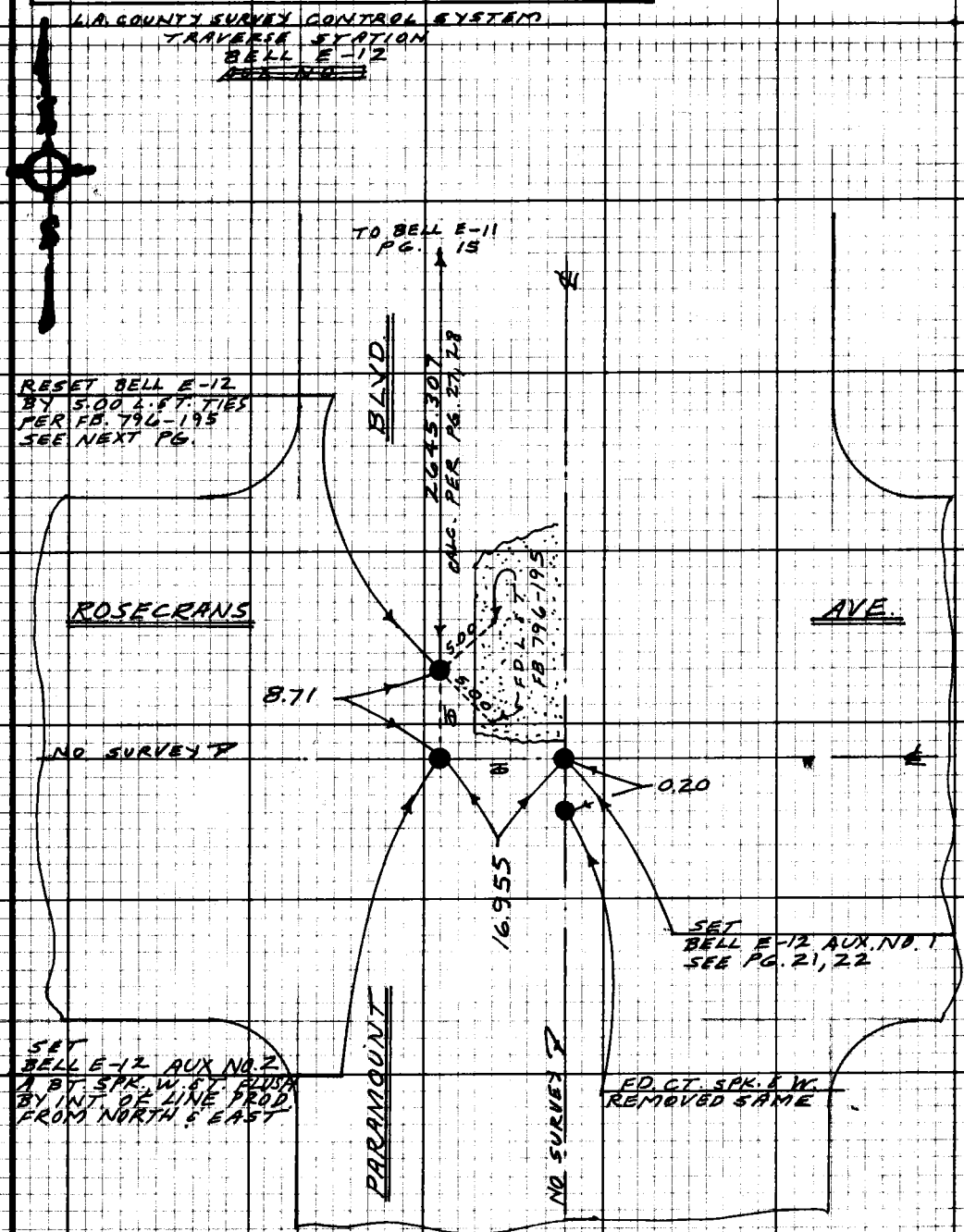
Office Work	Surveyed by W. A. RICHARDS
Checked	Notes W. A. R. Date 5-77
Date	Indexed

F.B 2463 PG. 13

SEE PG. 21 FOR CAD. TIE TO ST. ℄ ±



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403 LOS ANGELES COUNTY ENGINEERING BLDG.

75F3098 CE# 310 9-67

F.B. 2463 Pg. 14

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
BELL E-12

MEASUREMENTS
(SEE PG. 22)

AREA: THIS TRAVERSE STATION IS LOCATED IN LOS ANGELES COUNTY IN THE CITY OF PARAMOUNT IN THE INTERSECTION OF PARAMOUNT BLVD. AND ROSECRANS AVE.

ROUTE: FROM THE LONG BEACH FREEWAY (STATE HIGHWAY 7), GO EASTERLY ALONG ROSECRANS AVE. 1.8 MILES TO PARAMOUNT BLVD.

STATION MARK: A SQ. HD. SPK. AND TIN FLUSH IN MAC. PVT.

REFERENCE MARKS: R.M. NO. 1 AND R.M. NO. 2 SEARCHED FOR AND NOT FOUND

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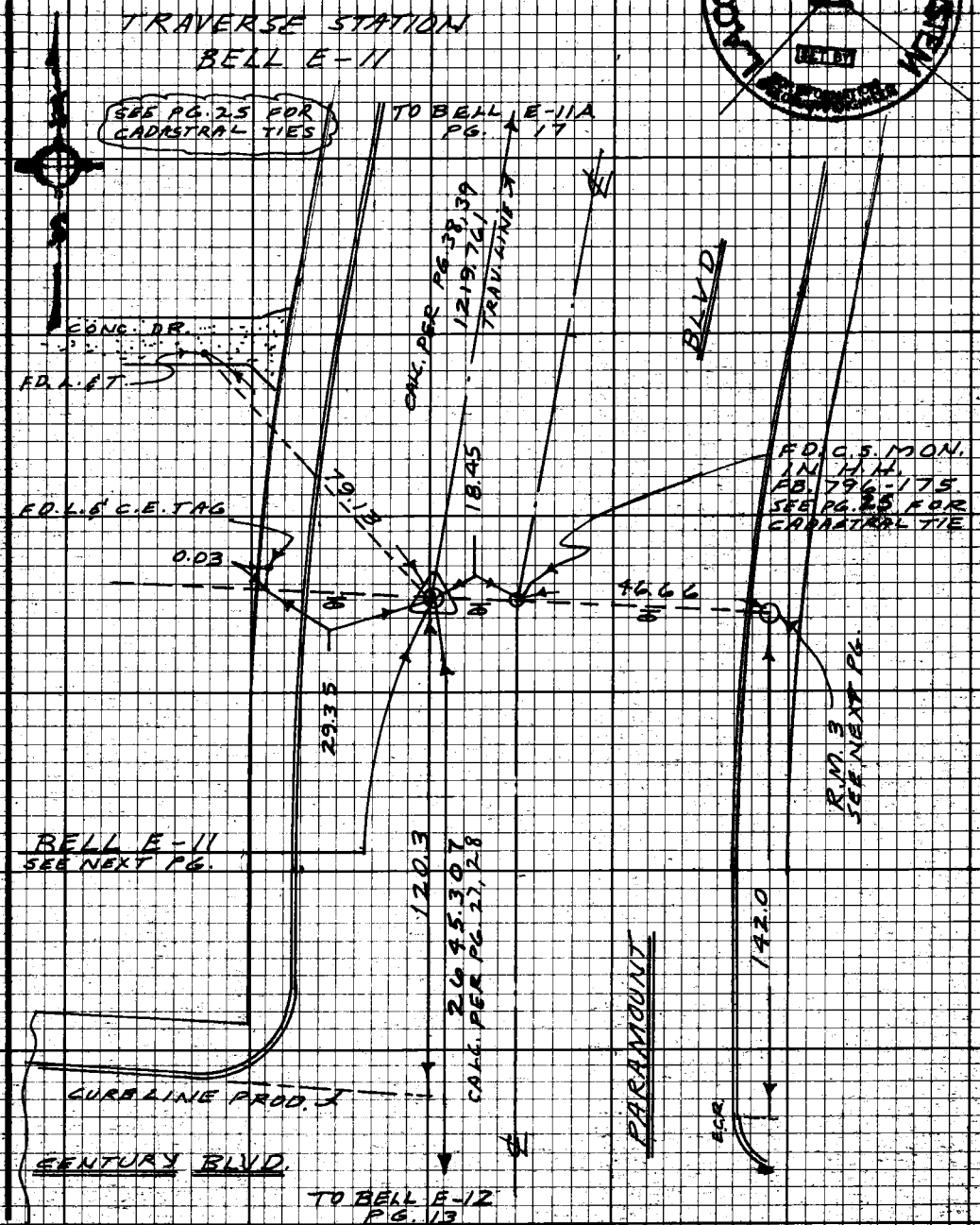
Map No.	JN 0301.00 Tape — Std — °F
Office Work	Surveyed by W.A. RICHARDS
Checked	Notes W. A. R. Date 6-77
Date	Indexed

FB 2463 PG 15

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
BELL E-11



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75FS008 CE#310 9.67

F.B. 2463 PG. 16

L.A. COUNTY SURVEY CONTROL SYSTEM

TRAVERSE STATION

BELL E-11

MEASUREMENTS
100' TAPE @ 68° F.
T = 68°
46.66 LEVEL = 46.66
18.45 " 18.45
23.35 " 23.35
79.13 " 79.13

AREA: THIS TRAVERSE STATION IS LOCATED IN LOS ANGELES COUNTY, IN THE CITY OF PARAMOUNT, NEAR THE INTERSECTION OF PARAMOUNT BLVD. AND CENTURY BLVD.

ROUTE: FROM THE LONG BEACH FREEWAY (STATE HIGHWAY 7) GO EASTERLY ALONG ROSECRANS AVE. 1.8 MILES TO PARAMOUNT BLVD, THEN GO NORTHERLY ALONG PARAMOUNT BLVD. 0.5 MILES TO CENTURY BLVD.

STATION MARK: RECORD MONUMENT OUT BY CONSTRUCTION.
SET SQ. HD. SPK. FLUSH IN MAC. PUT. BY RECORD TIES PER FB. 796-175

REFERENCE MARKS: R.M.s 1 & 2 OUT BY CONSTRUCTION
(F.D.) R.M. 3 A 4" L.A. CO. SUR. CONT. SYS. BRASS REF. MARK DISC. STAMPED "BELL E-11 R.M. 3 1960 L.A. CO. ENGR. RE 5869" 8" BELOW CURB GRADE

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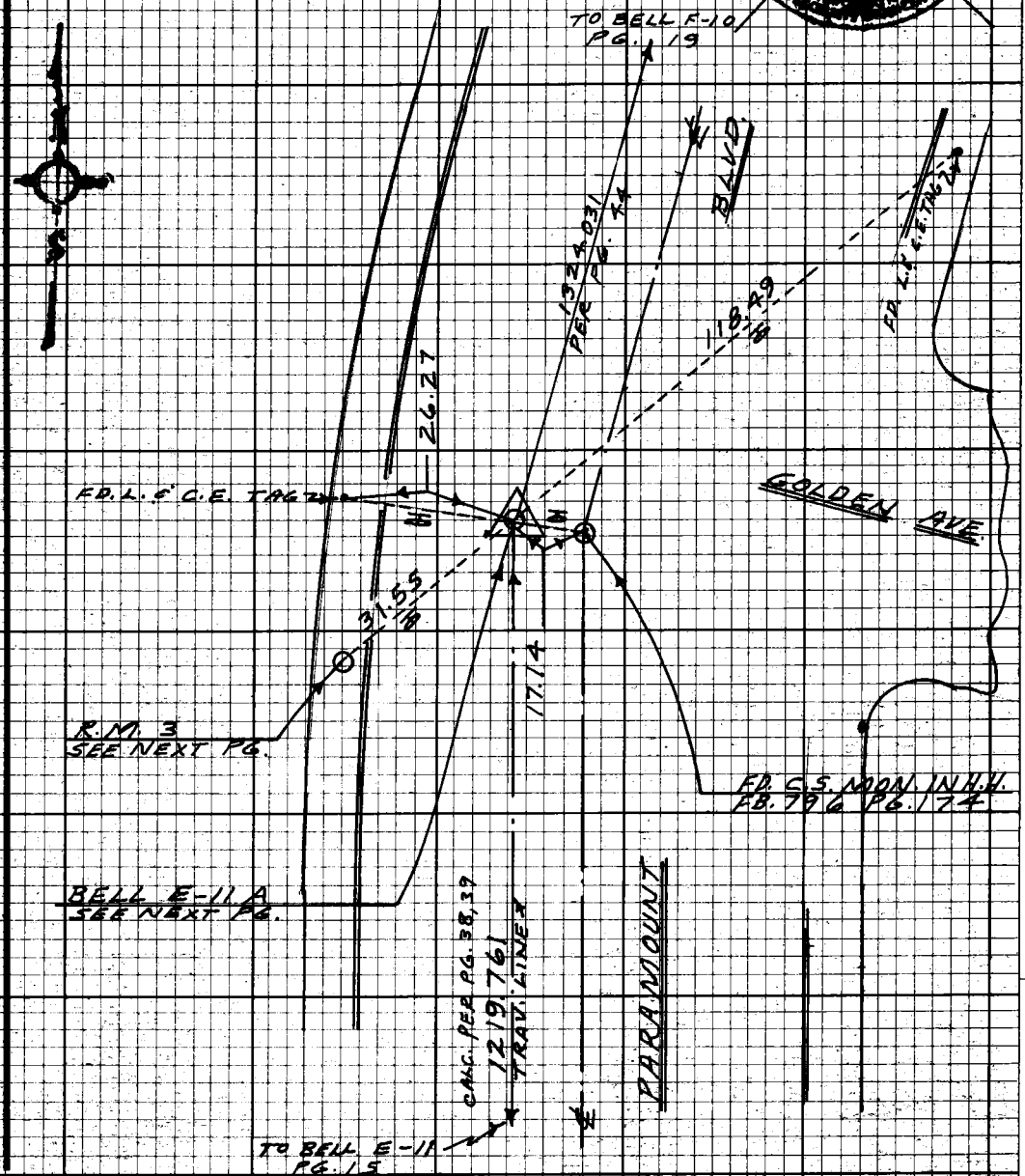
Map No.	JN 030100 Tape — Std — °F
Office Work	Surveyed by W.A. RICHARDS
Checked	Notes W.A.R. Date 6-77
Date	Indexed

F.B. 2463 PG. 17

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
BELL E-11A



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75F3098 CE# 310 9-67

F.B 2469 Pg 18 L.A. COUNTY SURVEY CONTROL SYSTEM

TRAVERSE STATION

BELL E-11 A

MEASUREMENTS

100' TAPE @ 68° F.
T = 68
118.49 LEVEL = 118.49
31.55 " 31.55
17.14 " 17.14
26.27 " 26.27

AREA: THIS TRAVERSE STATION IS LOCATED IN LOS ANGELES COUNTY, IN THE CITY OF SOUTH GATE, IN THE HOLLYDALE DISTRICT, IN THE INTERSECTION OF PARAMOUNT BLVD. & GOLDEN AVE.

ROUTE: FROM THE LONG BEACH FREEWAY (STATE HWY. 7) GO EASTERLY ALONG IMPERIAL HWY. 1.75 MILES TO PARAMOUNT BLVD., THEN GO S'LY ALONG PARAMOUNT BLVD. 0.8 MILES TO GOLDEN AVE.

STATION MARK: RECORD MONUMENT OUT BY CONSTRUCTION SET SQ. HD. SPK. & TIN FLUSH IN MAC. PVT. BY RECORD TIES PER F.B. 796-174

REFERENCE MARKS: RM 1 & RM 2 SEARCHED FOR AND NOT FOUND. OUT BY CONSTRUCTION

R.M. 3 A 4" L.A.CO. SUR. CONT. SYS. BRASS REF. MARK DISC. STAMPED "BELL E-11 A 1960 R.M. 3 L.A. CO. ENGR. RES 869" DN. 8" BELOW CONC. WALK IN H.H.

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Notes Ck'd by	PARAMOUNT AREA ℄ 3
Map No.	Survey of
Office Work	JN 030100 Tape — Std — °F
Checked	Surveyed by W. A. RICHARDS
Date	Notes W. A. R. Date 9-77
	Indexed

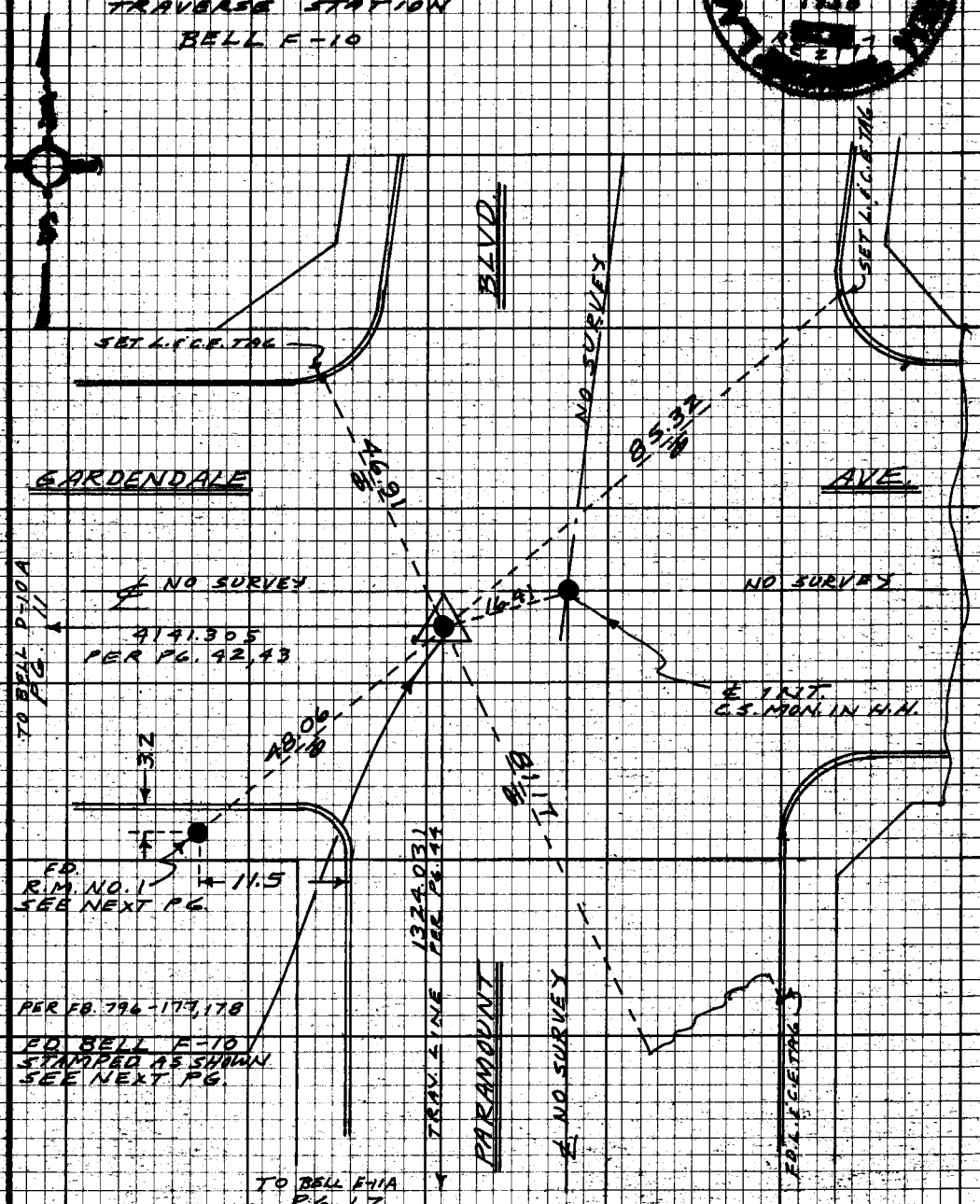
F.B. 2463 Pg. 19

BELL F-10

L.A. COUNTY SURVEY CONTROL SYSTEM

TRAVERSE STATION

BELL F-10



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75F3098 CE#310 9-67

F.B. 2463 PG 20 L.A. COUNTY SURVEY CONTROL SYSTEM

TRAVERSE STATION

BELL F-10

MEASUREMENTS
H.P. B.D.M. 3800 A
48.06 LEVEL = 48.06
46.91 " 46.91
81.17 " 81.17
85.32 " 85.32

AREA : THIS TRAVERSE STATION IS LOCATED IN LOS ANGELES COUNTY, IN THE CITY OF SOUTH GATE, IN THE INTERSECTION OF PARAMOUNT BLVD. AND GARDENDALE AVE.

ROUTE : FROM THE LONG BEACH FREEWAY (STATE HWY. 7) GO EASTERLY ALONG IMPERIAL HWY. 2.0 ± MILES TO PARAMOUNT BLVD. THEN GO S'LY ALONG PARAMOUNT BLVD. 0.5 ± MILES TO GARDENDALE AVE.

STATION MARK : A 4" LA CO SUR CONT SYS BRASS TRAV. DISC. STAMPED "BELL F-10 1938 RE 2177" AND SET IN CONC. 10" BELOW PVT. SURFACE IN A WELL SET IN 30" X 30" CONC. PAD

REFERENCE MARKS : R.M. 1 A 4" LA CO SUR CONT SYS BRASS REF MARK DISC STAMPED "BELL F-10 R.M. NO 1 RE 2177 1942" IN CONC BLOCK 18" BELOW CURB GRADE

R.M. 2 SEARCHED FOR AND NOT FOUND

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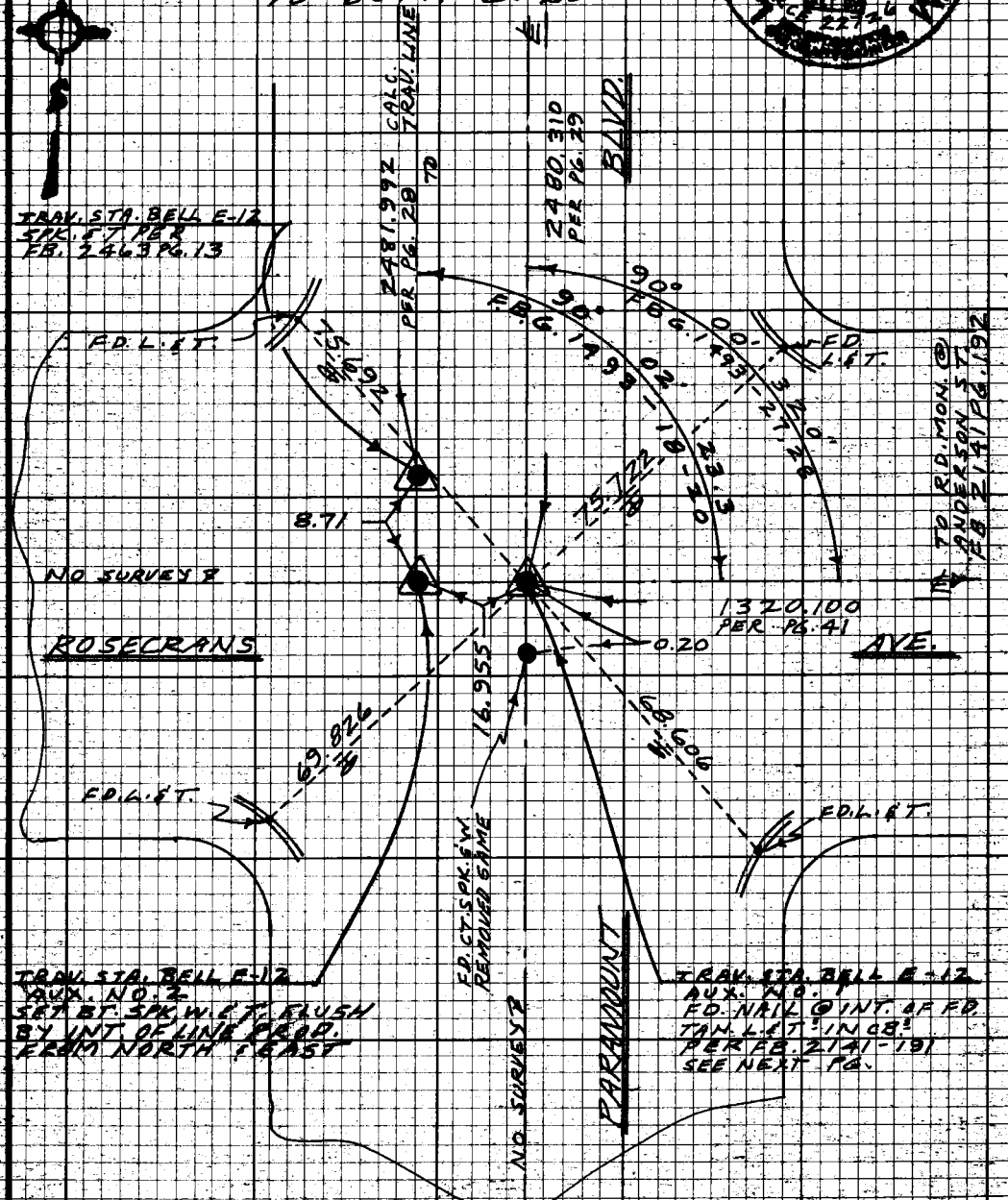
Notes Ck'd by	Survey of PARAMOUNT AREA ℄ ±
Map No.	JN Tape Std °F
Office Work	Surveyed by W. A. RICHARDS
Checked	Notes W. A. R. Date 9-77
Date	Indexed

F.B. 2463 PG. 21

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION BELL E-12, AUX. # 1
TO BOT. PG. 23



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403 LOS ANGELES COUNTY ENGINEERING BLDG.

75F3C98 CE#310 9-67

F.B 2463 Pg. 22 L.A. COUNTY SURVEY CONTROL SYSTEM

TRAVERSE STATION

BELL E-12

AUX. NO. 1

MEASUREMENTS

100' TAPE @ 68° F.
T = 84° F
8.710 LEVEL = 8.710
16.955 " 16.955

50 MTR. TAPE M-1 @ 84° F.
T = 89° F
2.655 LEVEL = 2.655 = 8.710
5.168 " 5.168 = 16.955

H.P. EDM 3800 A
75.722 LEVEL = 75.722
68.606 " 68.606
69.826 " 69.826
75.692 " 75.692

AREA: THIS TRAVERSE STATION IS LOCATED IN LOS ANGELES COUNTY, IN THE CITY OF PARAMOUNT, IN THE INTER-SECTION OF PARAMOUNT BLVD. AND ROSECRANS AVE.

ROUTE: FROM THE LONG BEACH FREEWAY (STATE HIGHWAY 7) GO EASTERLY ALONG ROSECRANS AVE. 1.8 MILES TO PARAMOUNT BLVD.

STATION MARK: A 4" LA CO SUR CONT SYS BRASS TRAV. DISC STAMPED "BELL E-12 AUX NO 1 1977 RCE 27726" 8" BELOW SURFACE AND SET IN A 6" CONC. POST, PROTECTED BY A CAST IRON COVER.

REFERENCE MARKS:

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403 Los Angeles County Engineering Bldg.

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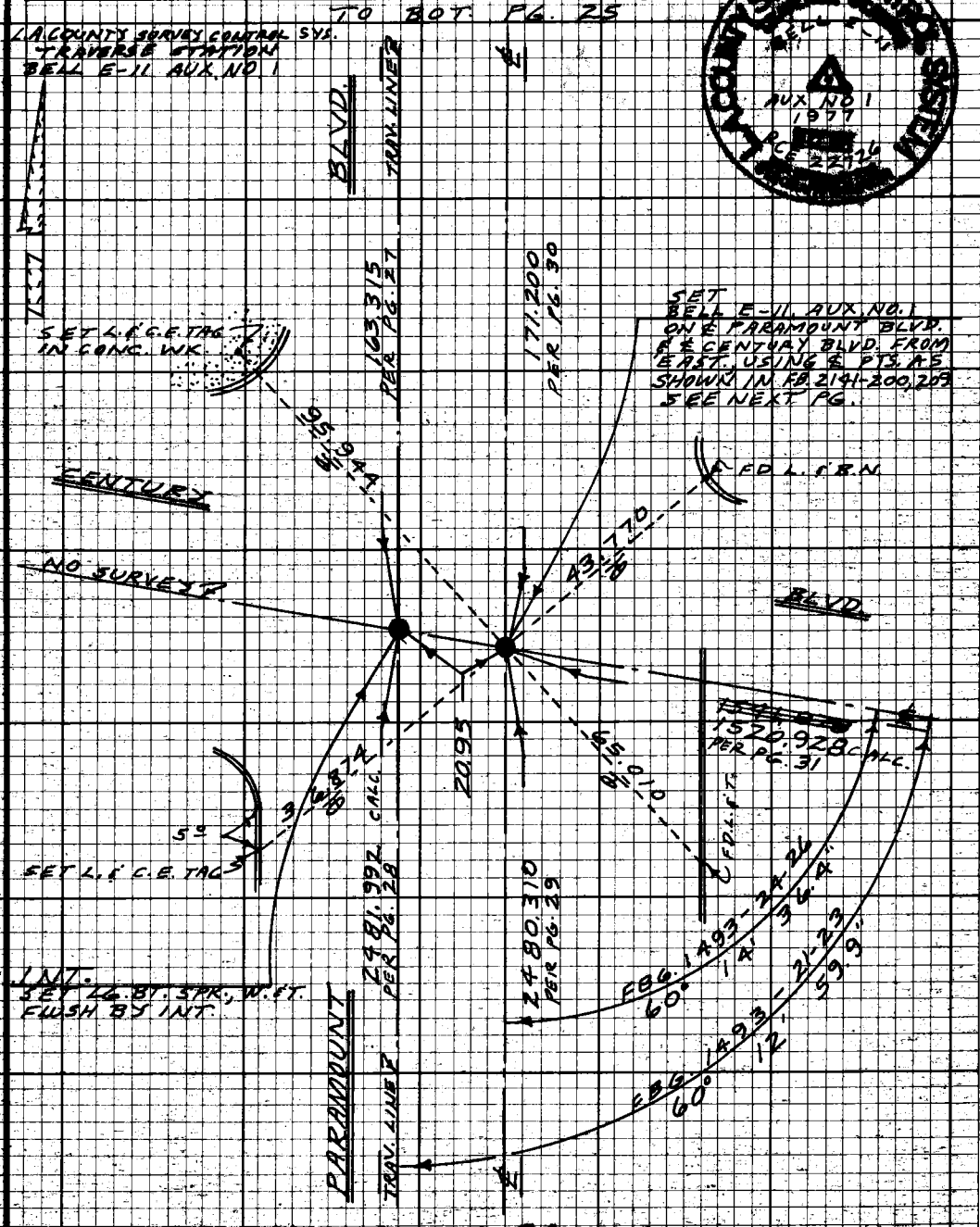
Notes Ck'd by	Survey of PARAMOUNT AREA ℄ 5
Map No.	JN 020200 Tape Std °F
Office Work	Surveyed by W. A. RICHARDS
Checked	Notes W. A. R. Date 9-77
Date	Indexed

F.B. 2463 PG. 23

TO BOT. PG. 25



TO TOP PG. 21

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

75F3098 CE#310 9-67

F.B. 2463 Pg. 24 L.A. COUNTY SURVEY CONTROL SYSTEM

TRAVERSE STATION

BELL E-11

AUX. NO. 1

MEASUREMENTS

H.P. E.D.M. 3800 A

43.770 LEVEL = 43.770
65.010 " 65.010
36.874 " 36.874
95.944 " 95.944

100' TAPE @ 68° F.
T = 76° F.
20.95 LEVEL = 20.95

50 M. TAPE M-1 @ 84° F.
T = 76° F.
6.385 LEVEL = 6.385 M. = 20.95

AREA : THIS TRAVERSE STATION IS LOCATED IN LOS ANGELES COUNTY, IN THE CITY OF PARAMOUNT, IN THE INTERSECTION OF PARAMOUNT BLVD. AND CENTURY BLVD.

ROUTE : FROM THE LONG BEACH FREEWAY (STATE HIGHWAY NO. 7), GO EASTERLY ALONG ROSECRANS AVE. 1.8 MILES TO PARAMOUNT BLVD, THEN GO NORTHERLY ALONG PARAMOUNT BLVD. 0.7 MILES TO CENTURY BLVD.

STATION MARK: A 4" LA CO SUR CONT SYS BRASS TRAV. DISC STAMPED "BELL E-11 AUX NO 1 1977 RCE 22726" 8" BELOW SURFACE AND SET IN A 6" CONC. POST, PROTECTED BY A CAST IRON COVER

REFERENCE MARKS:

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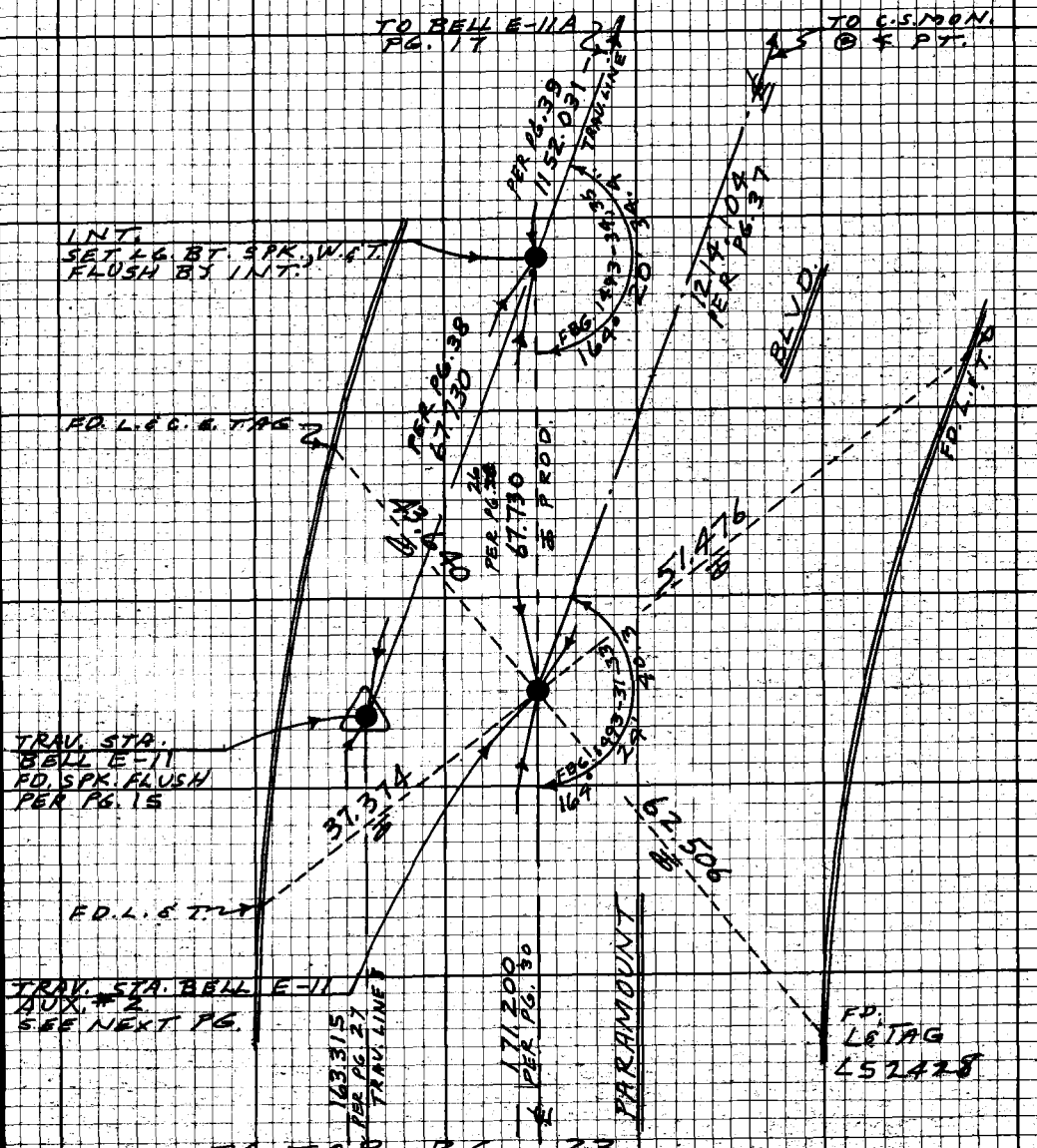
Notes Ck'd by	PARAMOUNT AREA ℄
Map No.	Survey of
Office Work	JN 020200 Tape — Std — °F
Checked	Surveyed by W. A. RICHARDS
Date	Notes W. A. R. Date 9-77
	Indexed

FB 2463 PG. 25

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
BELL E-11, AUX. # 2



TO TOP PG. 23

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

75F3098 CE# 310 9-67

F.B. 2463 Pg. 26

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
BELL E-11
AUX. NO. 2

MEASUREMENTS
H.P. EDM. 3900 A

51.476	LEVEL =	51.476
62.506	"	62.506
37.374	"	37.374
43.640	"	43.640
67.730	"	67.730

AREA: THIS TRAVERSE STATION IS LOCATED IN LOS ANGELES COUNTY, IN THE CITY OF SOUTH GATE, AT THE ℄ P.I. OF PARAMOUNT BLVD., 171' N/O ℄ CENTURY BLVD.

ROUTE: FROM THE LONG BEACH FREEWAY (STATE HIGHWAY 7) GO EASTERLY ALONG ROSECRANS AVE. 1.8 MILES TO PARAMOUNT BLVD., THEN GO NORTHERLY ALONG PARA-MOUNT BLVD. 0.5 MILES TO CENTURY BLVD.

STATION MARK: A 2½" LA CO ENGR BRASS DISC STAMPED "RE 63" 8" BELOW SURFACE IN HANDHOLE WITH COVER AND SET IN 6" CONC. POST

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76F3095 CE#310 3-68

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HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 9-16-77
TIME 11:50 A.M.
RECORDER RICHARDS

PROJECT PARAMOUNT AREA & CADASTRAL TIES
CLIENT L.A. CO. ENGR.

	STATION	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A	TRAV. LINE & CENTURY BLVD	322528	MOODY	5.15	0	
REFLECTOR	TRAV. STA. BELL E-11	—	—	—	0	

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	72°	30.1	
REFLECTOR	—	—	
MEAN	—	—	+05

SLOPE DISTANCE (FEET)

		1	6	3	3	1	5

VERTICAL ANGLE

D LEVEL	INST. H.I.
R	
S	TARG. H.I.
M	

VISIBILITY: ☐ GOOD ☒ FAIR ☐ BAD

RETURN SIGNAL READING: 75

STABILITY: 0 25 75 100 — +

TYPE OF REFLECTOR: 1-H.P.

REFLECTOR CONSTANT: 0

ATTENUATOR USED: ☒ YES ☐ NO

COMMENTS: HOR. DIST. = 163.315

PART NO. 9320-2060

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

Survey of PARAMOUNT AREA &
JN 301.00 Tape — Std — °F
Surveyed by W.A. RICHARDS
Notes W.A.R. Date 9-77
Indexed

F. B. 2463 PG. 27

76F309S CE#310 3-68

76 3 / 3 / 43

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Map No.
Office Work
Checked
Date

Survey of PARAMOUNT AREA ℄
JN 0301.00 Tape — Std — °F
Surveyed by W. A. RICHARDS
Notes W. A. R. Date 9-77
Indexed

HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 9-16-77
TIME 10:45 A.M.
RECORDER RICHARDS

PROJECT PARAMOUNT AREA ℄ S-
CAD. TIES
CLIENT L.A. CO. ENGR.

	STATION	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A ℄	INT. TRAV. LINE & CENTURY BLVD.	322528	MOODY	5.15	-0-	
REFLECTOR ℄	INT. TRAV. LINE & ROSECRANS AVE.	—	BUSTRUM	5.00	-0-	

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	72°	30.1	
REFLECTOR	—	—	
MEAN	—	—	+05

BROKEN OVERCAST.

VISIBILITY: ☐ GOOD ☒ FAIR ☐ BAD

RETURN SIGNAL READING: 70

STABILITY: 0 25 75 100 — +

TYPE OF REFLECTOR: 2-H.P.

REFLECTOR CONSTANT: -0-

ATTENUATOR USED: ☐ YES ☒ NO

COMMENTS: HOR. DIST. = 2490.702

SLOPE DISTANCE (FEET)

2490.702

VERTICAL ANGLE

D 90-01-16	INST. H.I. 5.15
R 269-59-50	
S 360-01-06	TARG. H.I. 5.00
M 90-00-43.0	

PART NO. 9320-2080

F. B. 2463 PG. 28

76F3095 CE#310 3-68

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HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 9-16-77
TIME 3:00 P.M.
RECORDER RICHARDS

PROJECT PARAMOUNT AREA C.S.
CADASTRAL TIES
CLIENT L.A.CO. ENGR.

	STATION	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A	BELL E-11 AUX. #1	322528	MOODY	5.30	—	
REFLECTOR	& INT. ROSECRANS AVE. & PARAMOUNT BLVD. =BELL E-12 AUX #1		BUSTRUM	5.25	—	

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	78°	30.1	
REFLECTOR	—	—	
MEAN	—	—	+08

CLEAR, WINDY

VISIBILITY: ☒ GOOD ☐ FAIR ☐ BAD

RETURN SIGNAL READING: 70

STABILITY: 0 25 75 100 — +

TYPE OF REFLECTOR: 2-H.P.

REFLECTOR CONSTANT: -0-

ATTENUATOR USED: ☐ YES ☒ NO

COMMENTS: 2480.310 = HOR. DIST.

SLOPE DISTANCE (FEET)

2 4 8 0 . 3 1 0

VERTICAL ANGLE

D 90-01-20	INST. H.I. 5.30
R 269-59-48	
S 360-01-08	TARG. H.I. 5.25
M 90-00-46	

PART NO. 9320-2060

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Map No.
Office Work
Checked
Date

Survey of PARAMOUNT AREA C.S.
JN 0301.00 Tape — Std — °F
Surveyed by RICHARDS
Notes W.A.R. Date 9-77
Indexed

F. B. 2463 PG. 29

76F3095 CE#310 3-68

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HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 9-16-77
TIME 3:00 P.M.
RECORDER RICHARDS

PROJECT CADASTRAL TIES
PARAMOUNT AREA 2
CLIENT L.A.CO. ENGR.

	STATION	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A	BELL E-11 AUX. #1	322528	MOODY	—	—	—
REFLECTOR	BELL E-11 AUX. #2		—	—	—	—

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	78°	30.1	
REFLECTOR	—	—	
MEAN	—	—	+08

SLOPE DISTANCE (FEET)

		1	7	1	2	0	0

VERTICAL ANGLE

D @ LEVEL	INST. H.I. —
R	
S	TARG. H.I. —
M	

VISIBILITY: ☒ GOOD ☐ FAIR ☐ BAD

RETURN SIGNAL READING: 75

STABILITY: 0 25 75 100 — +

TYPE OF REFLECTOR: 1-H.P.

REFLECTOR CONSTANT: 0

ATTENUATOR USED: ☒ YES ☐ NO

COMMENTS: HOR. DIST. = 171.200

PART NO. 9320-2060

Notes Ck'd by
Map No.
Office Work
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Date

Survey of PARAMOUNT AREA 2
JN 0301.00 Tape — Std. — °F
Surveyed by W.A. RICHARDS
Notes W.A.R. Date 9-77
Indexed

F. B. 2463 PG. 30

76F309S CE#310 3-68

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HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 9-16-77
TIME 10:30 A.M.
RECORDER RICHARDS

PROJECT PARAMOUNT AREA 2
CAD. TIES
CLIENT L.A. CO. ENGR.

	STATION	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A	INT. TRAV. LINE CENT. BLVD.	322528	MOODY	5.15	-0-	
REFLECTOR	CENT. BLVD. ANDERSON ST.	—	—	—	-0-	

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	72°	30.1	
REFLECTOR	—	—	
MEAN	—	—	+05

CLOUDY OVERCAST – BROKEN

VISIBILITY: ☐ GOOD ☒ FAIR ☐ BAD

RETURN SIGNAL READING: 70

STABILITY: 0 25 75 100 – +

TYPE OF REFLECTOR: 1-H.P.

REFLECTOR CONSTANT: -0-

ATTENUATOR USED: ☐ YES ☒ NO

COMMENTS: HOR. DIST = 1541.878

SLOPE DISTANCE (FEET)

	1	5	4	1	8	7	8

VERTICAL ANGLE

D 89-59-56	INST. H.I. —
R 270-01-09	
S 360-01-05	TARG. H.I. —
M 89-59-23.5	

PART NO. 9320-2060

Notes Ck'd by
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Date

PARAMOUNT AREA 2
Survey of
JN 030.02 Tape Std. °F
Surveyed by W.A. RICHARDS
Notes W.A.R. Date 9-77
Indexed

F. B 2463 Pg. 31

76F3095 CE#310 3-68

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HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 9-16-77
TIME 2:50 P.M.
RECORDER RICHARDS

PROJECT PARAMOUNT AREA & S
CADASTRAL TIES
CLIENT L.A.CO. ENGR.

	STATION	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A	BELL E-11 AUX. #1	322528	MOODY	5.30	—	
REFLECTOR	& INT. ANDERSON ST. & CENTURY BLVD.		BUSTRUM	5.15	—	

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	78°	30.1	
REFLECTOR	—	—	
MEAN	—	—	+08

CLEAR, WINDY

VISIBILITY: ☒ GOOD ☐ FAIR ☐ BAD

RETURN SIGNAL READING: 70

STABILITY: 0 25 75 100 — +

TYPE OF REFLECTOR: 1-H.P.

REFLECTOR CONSTANT: -0-

ATTENUATOR USED: ☐ YES ☒ NO

COMMENTS: HOR. DIST. = 1520.930

SLOPE DISTANCE (FEET)

	1	5	2	0	9	3	0

VERTICAL ANGLE

D 90-00-33	INST. H.I. 5.30
RZ 70.00-10	
S 360-00-43	TARG. H.I. 5.15
M 90-00-11.5	

PART NO. 9320-2060

Notes Ck'd by
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Office Work
Checked
Date

PARAMOUNT AREA & S.
Survey of
JN 301.00 Tape — Std — °F
Surveyed by W.A. RICHARDS
Notes W.A.R. Date 9-77
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F. B. 2463 PG. 32

COUNTY OF LOS ANGELES
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 9-21-77

TIME

RECORDER BUSTRUM

PROJECT PARAMOUNT AREA ℄s
CADASTRAL TIES

CLIENT L.A.CO.ENGR.

	STATION	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A	BELL F-10 GARdendALE & PARAMOUNT		Moody	5.95	—	—
REFLECTOR	CE Eng SECOR			5.95	—	—

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	88°	30.05	
REFLECTOR	—	—	
MEAN	—	—	+14

~~SLOPE~~ DISTANCE (FEET)

			8	1	1	7	

VERTICAL ANGLE

D LEV	INST. H.I. 5.95
R	
S	TARG. H.I. 5.95
M	

VISIBILITY: ☒ GOOD ☐ FAIR ☐ BAD

RETURN SIGNAL READING: 75

STABILITY: 0 25 75 100 — +

TYPE OF REFLECTOR: 1-H.P.

REFLECTOR CONSTANT: 0

ATTENUATOR USED: ☒ YES ☐ NO

COMMENTS: DIST. = 81.17

PART NO. 9320-2060

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

Survey of PARAMOUNT AREA ℄s
JN 0301.00 Tape — Std — °F
Surveyed by W. A. RICHARDS
Notes W.A.R. Date 9-77
Indexed

F. B 2463 PG. 33

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 9-21-77

TIME

RECORDER B

PROJECT

CLIENT

	STATION BELL F-10	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A	PARA. & Gardendale		J.M	5.95		
REFLECTOR	CETAG NE COR			5.95		

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	88°	30.05	
REFLECTOR			
MEAN			+14

~~SLOPE~~ DISTANCE (FEET)

			8	5	3	2	

VERTICAL ANGLE

D Lev.	INST. H.I. 5.95
R	
S	TARG. H.I. 5.95
M	

VISIBILITY: ☒ GOOD ☐ FAIR ☐ BAD

RETURN SIGNAL READING: 75

STABILITY: 0 25 75 100 – +

TYPE OF REFLECTOR: 1-H.P.

REFLECTOR CONSTANT: 0

ATTENUATOR USED: ☒ YES ☐ NO

COMMENTS: HOR. DIST. = 85.32

PART NO. 9320-2060

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

Survey of PARAMOUNT AREA ℄ S
JN 030100 Tape — Std — °F
Surveyed by W. A. RICHARDS
Notes W. A. R. Date 9-77
Indexed

F. B. 2463 PG. 34

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Survey of PARAMOUNT AREA
JN 030100 Tape ____ Std ____ °F
Surveyed by W.A. RICHARDS
Noted W.A.R. Date 9-77
Indexed ____

F.B. 2963 PG. 35

DATE 9-21-77
TIME 2:35 PM
RECORDER B

HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

PROJECT ____
CLIENT ____

	STATION	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A	~~BELL F-10~~ GARFIELD AVE & PARAMOUNT		Moody	5.95		
REFLECTOR	RM 1 S.W. COR.			5.95		

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	88°	30.05	
REFLECTOR			
MEAN			+14

~~SLOPE~~ DISTANCE (FEET)

			4	8	0	6	

VERTICAL ANGLE

D LEVEL	INST. H.I. 5.95
R	
S	TARG. H.I. 5.95
M	

VISIBILITY: ☑ GOOD ☐ FAIR ☐ BAD

RETURN SIGNAL READING: 85

STABILITY: 0 25 75 100 — – +

TYPE OF REFLECTOR: 1-H.P.

REFLECTOR CONSTANT: 0

ATTENUATOR USED: ☑ YES ☐ NO

COMMENTS: ____

PART NO. 9320-2060

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 9-31-77

TIME

RECORDER B

PROJECT

CLIENT

	STATION BELL F-10	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A	GARDENDALE		Moody	5.95		
REFLECTOR	CETA9-N.W. COR			5.95		

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	88°	30.05	
REFLECTOR			
MEAN			+14

~~SLOPE~~ DISTANCE (FEET)

			4	6	9	1	

VERTICAL ANGLE

D LEVEL	INST. H.I. 5.95
R	
S	TARG. H.I. 5.95
M	

VISIBILITY: ☒ GOOD ☐ FAIR ☐ BAD

RETURN SIGNAL READING: 80

STABILITY: 0 25 75 100 – +

TYPE OF REFLECTOR: 1 – H.P.

REFLECTOR CONSTANT: 0

ATTENUATOR USED: ☒ YES ☐ NO

COMMENTS:

PART NO. 9320-2060

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

Survey of PARAMOUNT AREA C.S.
JN030100 Tape — Std — °F
Surveyed by W.A. RICHARDS
Notes W.A.R. Date 9-77
Indexed

F.B. 2463 PG. 36

76F3095 CE#310 3-68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 9-22-77
TIME AM
RECORDER Moody

PROJECT
CLIENT

	STATION	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A	BELL E-11 AUX #2					
REFLECTOR	C.S. MONSOT @ GOLDEN					

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	78	30.0	
REFLECTOR			
MEAN			+08

SLOPE DISTANCE (FEET)

	1	2	1	4	1	0	8

VERTICAL ANGLE

D 89 51-33	INST. H.I. 5.50
R 270 09-51	
S 360 01-24	TARG. H.I. 6.00
M 89-50-51	

VISIBILITY: ☑ GOOD ☐ FAIR ☐ BAD

RETURN SIGNAL READING: 75

STABILITY: 0 25 75 100 — +

TYPE OF REFLECTOR: 1 H.P.

REFLECTOR CONSTANT:

ATTENUATOR USED: ☐ YES ☑ NO

COMMENTS: 1214.104 = CORR Hor DIST.

PART NO. 9320-2060

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

PARAMOUNT AREA ℄
Survey of
JN 0301.00 Tape — Std — °F
Surveyed by W.A. RICHARDS
Notes W.A.R. Date 9-77
Indexed

F. B. 2463 PG. 37

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

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HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 9-22-77
TIME PM
RECORDER B

PROJECT
CLIENT

	STATION	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A INT.	TRAV. LN & ℄ PROD	BELL E11 AUX 2.	JM	5.05		
REFLECTOR S.LY	TO BELL E-11					

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	82°	30.05	
REFLECTOR			
MEAN			+09

~~SLOPE~~ DISTANCE (FEET)

			6	7	7	3	0

VERTICAL ANGLE

D LEV.	INST. H.I.
R	
S	TARG. H.I.
M	

VISIBILITY: ☒ GOOD ☐ FAIR ☐ BAD

RETURN SIGNAL READING:

STABILITY: 0 25 75 100 — +

TYPE OF REFLECTOR: 1. H.P.

REFLECTOR CONSTANT:

ATTENUATOR USED: ☐ YES ☒ NO

COMMENTS:

PART NO. 9320-2060

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

Survey of PARAMOUNT AREA ℄ 9
JN 030100 Tape — Std — °F
Surveyed by W. A. RICHARDS
Notes W.A.R. Date 9-77
Indexed

F. B. 2463 PG. 38

76F309S CE#310 3-68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 9-22-77
TIME PM
RECORDER B

PROJECT
CLIENT

	STATION	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A INT.	TRAV & ℄ PRod	-BELL E 11	AUX 2 J.M.	5.05		
REFLECTOR	BELL-E 11A					

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	82°	30.05	
REFLECTOR			
MEAN			+09

SLOPE DISTANCE (FEET)

	1	1	5	2	0	3	4

VERTICAL ANGLE

D 89-52-23	INST. H.I. 5.05
R 270 08-40	
S 360-01-03	TARG. H.I.
M 89-51.51.5	

VISIBILITY: ☒ GOOD ☐ FAIR ☐ BAD

RETURN SIGNAL READING: 75

STABILITY: 0 25 75 100 — +

TYPE OF REFLECTOR: 1-HP

REFLECTOR CONSTANT:

ATTENUATOR USED: ☐ YES ☒ NO

COMMENTS: 1152.031 = CORR. HOR. DIST.

PART NO. 9320-2080

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

PARAMOUNT AREA ℄ S
Survey of
JN 030100 Tape — Std — °F
Surveyed by W.A. RICHARDS
Notes W.A.R. Date 9-77
Indexed

F. B. 2463 PG. 39

PLEASE RETURN TO
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HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 9-22-77
TIME P.M.
RECORDER BUSTRUM

PROJECT
CLIENT

	STATION	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A	BELL E 22		MOODY	5.10	—	—
REFLECTOR	BELL E 11-A			5.00	—	

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	78°	30.05	
REFLECTOR	—	—	
MEAN	—	—	+0.8

SLOPE DISTANCE (FEET)

	1	2	1	9	7	6	6

VERTICAL ANGLE

D 89-52-22	INST. H.I. 5.10
R 270-08-19	
S 360-00-41	TARG. H.I. 5.00
M 89-52-015	

VISIBILITY: ☒ GOOD ☐ FAIR ☐ BAD

RETURN SIGNAL READING: 75

STABILITY: 0 25 75 100 — – +

TYPE OF REFLECTOR: 1 H.P.

REFLECTOR CONSTANT:

ATTENUATOR USED: ☐ YES ☐ NO

COMMENTS: HOR. DIST. = 1219.763

PART NO. 9320-2060

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

Survey of PARAMOUNT AREA 2-5
JN0301D Trace — Std — °F
Surveyed by W.A. RICHARDS
Notes W.A.R. Date 9-77
Indexed

F. B 2463 Pg. 40

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HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 9-23-77
TIME 10:15 A.M.
RECORDER RICHARDS

PROJECT CADASTRAL TIES
PARAMOUNT AREA
CLIENT L.A.CO. ENGR

	STATION	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A	BELL E-12 AUX. #1		MOODY	5.10	-0-	—
REFLECTOR ℄ INT.	ROSECRANS AVE. ANDERSON ST.			5.70	-0-	—

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	80	30.1	
REFLECTOR	—	—	
MEAN	—	—	+08

SLOPE DISTANCE (FEET)

	1	3	2	0	1	0	2

VERTICAL ANGLE

D 90-06-50	INST. H.I. 5.10
R 269-54-45	
S 360-01-35	TARG. H.I. 5.70
M 90-06-02.5	

VISIBILITY: ☒ GOOD ☐ FAIR ☐ BAD

RETURN SIGNAL READING: 75

STABILITY: 0 25 75 100 — +

TYPE OF REFLECTOR: 1-H.P.

REFLECTOR CONSTANT: -0-

ATTENUATOR USED: ☐ YES ☒ NO

COMMENTS: 1320.100

PART NO. 9320-2060

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

PARAMOUNT AREA ℄ S
Survey of
JN 030100 Tape — Std — °F
Surveyed by W.A. RICHARDS
Notes W.A.R. Date 9-77
Indexed

F. B. 2463 Pg. 41

76F3095 CE#310 3-68

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HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 9-26-77
TIME 3:00 PM
RECORDER BUSTRUM

PROJECT Geodetic Control - Recovery
CLIENT

	STATION	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A	F.O.T. GARDENDALE & R.R. TRACKS,		MOODY	5.05	—	—
REFLECTOR	Gardendale & Garfield	BELL D-10A	—	6.53	—	—

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	74	30.0	
REFLECTOR	—	—	
MEAN	—	—	+06

SLOPE DISTANCE (FEET)

	1	0	9	6	.3	4	6

VERTICAL ANGLE

D 90°-05'-52"	INST. H.I. 5.05
R 269-55-08	
S 360-01-00	TARG. H.I. 6.53
M 90° 05' 22.0"	

VISIBILITY: ☑ GOOD ☐ FAIR ☐ BAD

RETURN SIGNAL READING: 80

STABILITY: 0 25 75 100 — +

TYPE OF REFLECTOR: 1-H.P.

REFLECTOR CONSTANT: 0

ATTENUATOR USED: ☐ YES ☑ NO

COMMENTS: HOR. DIST. = 1096.344
SEE PG. 45

4141.305

PART NO. 9320-2060

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

Survey of PARAMOUNT AREA ℄ S
JN 030100 Tape — Std — °F
Surveyed by W.A. RICHARDS
Notes W.A.R. Date 9-77
Indexed

F. B 2463 PG. 42

PLEASE RETURN TO
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Notes Ck'd by
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Office Work
Checked
Date

PARAMOUNT AREA 4 S
Survey of
JN 0301.00 Tape — Std — °F
Surveyed by W.A. RICHARDS
Notes W.A.R. Date 9-77
Indexed

F. B. 2463 PG. 43

HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 9-26-77
TIME 3:30 P.M.
RECORDER BUSTRUM

PROJECT
CLIENT

	STATION	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A	PAT Garden Park @ R.R. Track		MOODY	5.05	0	—
REFLECTOR	BELL F-10 Paramount		—	6.82	0	

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	74	300	X
REFLECTOR	—	—	X
MEAN	—	—	+06

VISIBILITY: ☑ GOOD ☐ FAIR ☐ BAD

RETURN SIGNAL READING: 70

STABILITY: 0 25 75 100 — +

TYPE OF REFLECTOR: 2-H.P.

REFLECTOR CONSTANT: 0

ATTENUATOR USED: ☐ YES ☑ NO

COMMENTS: HOR. DIST. = 3044.961

SLOPE DISTANCE (FEET)

	3	0	4	4	9	6	8

VERTICAL ANGLE

D 90 - 07 53	INST. H.I. 5.05
R 269 - 53 20	
S 369 - 01 - 13	TARG. H.I. 6.82
M 90° 07' 16.5"	

53.0
36.5
16.5

PART NO. 9320-2060

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HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 9-23-77
TIME 3:30 P.M.
RECORDER BUSTRUM

PROJECT PARAMOUNT AREA ℄'s
CADASTRAL TIES
CLIENT L.A.CO. ENGR.

	STATION	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A	BELL E-11 A	3800A	MOODY	4.95	—	—
REFLECTOR	BELL F-10	—	—	—	—	—

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	76	30.0	
REFLECTOR	—	—	
MEAN	—	—	+07

SLOPE DISTANCE (FEET)

	1	3	2	4	0	3	4

VERTICAL ANGLE

D 89-54-07	INST. H.I. 4.95
R 270-07-43	—
S 360-01-50	TARG. H.I.
M 89-53-11.5	

VISIBILITY: ☐ GOOD ☑ FAIR ☐ BAD

RETURN SIGNAL READING: 75

STABILITY: 0 25 75 100 — +

TYPE OF REFLECTOR: 1-H.P.

REFLECTOR CONSTANT: -0-

ATTENUATOR USED: ☐ YES ☒ NO

COMMENTS: HOR. DIST. = 1324.031

PART NO. 9320-2060

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

PARAMOUNT AREA ℄'s
Survey of
JN 030100 Tape — Std — °F
Surveyed by W. A. RICHARDS
Notes W. A. R. Date 9-77
Indexed

F.B. 2463 PG. 44

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HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 9-29-77
TIME PM
RECORDER BUSTRUM

PROJECT PARAMOUNT ARE GEODETIC CONTROL
CLIENT WTS. & M.S

	STATION	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A	Bell D-10A	3800 A	J.M	5.54	—	—
REFLECTOR P.O.T. TO	Bell F-10	—	—	5.70	—	—

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	78	30.0	
REFLECTOR	—	—	
MEAN	—	—	+08

SLOPE DISTANCE (FEET)

	1	0	9	6	3	3	0

VERTICAL ANGLE

D 89-50-42	INST. H.I. 5.54
R 270 10 28	
S 360-01-10	TARG. H.I. 5.70
M 89-50-07.0	

VISIBILITY: ☒ GOOD OVERCAST ☐ FAIR ☐ BAD

RETURN SIGNAL READING: 80

STABILITY: 0 25 75 100 — +

TYPE OF REFLECTOR: 1 HP.

REFLECTOR CONSTANT: -0-

ATTENUATOR USED: ☐ YES ☒ NO

COMMENTS: HOR. DIST. = 1096.325
SEE PG. 42

PART NO. 9320-2060

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

PARAMOUNT AREA A
Survey of
JN 0301.00 Tape — Std — °F
Surveyed by W.A. RICHARDS
Notes W.A.R. Date 9-77
Indexed

F. B. 2463 PG. 45

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Date

Survey of PARAMOUNT AREA ℄ S
JN 03W.00 Tape — Std — °F
Surveyed by W. A. RICHARDS
Notes W.A.R. Date 9-77
Indexed

F. B. PG. 4

HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 9-29-77
TIME PM
RECORDER B

PROJECT GEODETIC CONTROL
PARAMOUNT AREA ℄ S
CLIENT L.A.CO. ENGR.

	STATION	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A	Bell D-10A	3800A	J.M	5.54	—	—
REFLECTOR	Bell D-9A	—	—	5.67	—	—

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	78°	30.0	
REFLECTOR	—	—	
MEAN	—	—	+08

SLOPE DISTANCE (FEET)

	1	5	9	8	5	0	8

VERTICAL ANGLE

D 89-51-52	INST. H.I. 5.54
R 270 09 25	
S 360-01-17	TARG. H.I. 5.67
M 89-51-13.5	

VISIBILITY: ☑ GOOD (overcast) ☐ FAIR ☐ BAD

RETURN SIGNAL READING: 75

STABILITY: 0 25 75 100 — +

TYPE OF REFLECTOR: 1 H.P.

REFLECTOR CONSTANT:

ATTENUATOR USED: ☐ YES ☑ NO

COMMENTS: HOR. DIST. = 1598.503
VERT " = + 4.08

PART NO. 9320-2060

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HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 9-29-77
TIME PM
RECORDER B

PROJECT GEODETIC CONTROL
PARAMOUNT AREA 2 S
CLIENT L.A. CO. ENGR.

	STATION	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A	Bell D-10A	3800A	J.M.	5.54	—	—
REFLECTOR	Bell D-10	—	—	5.37	—	—

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	78°	30.0	
REFLECTOR	—	—	
MEAN	—	—	+08

SLOPE DISTANCE (FEET)

	1	9	0	8	1	6	0

VERTICAL ANGLE

D 90 10 - 25	INST. H.I. 5.54
R 269 - 50 - 45	
S 360 - 01 - 10	TARG. H.I. 5.37
M 90 - 09 - 50.0	

VISIBILITY: ☑ GOOD ☐ FAIR ☐ BAD overcast

RETURN SIGNAL READING: 75

STABILITY: 0 25 75 100 — +

TYPE OF REFLECTOR: 2-H.P.

REFLECTOR CONSTANT:

ATTENUATOR USED: ☐ YES ☑ NO

COMMENTS: HOR. DIST. = 1908.152

PART NO. 9320-2060

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

Survey of PARAMOUNT AREA 2
JN 030100 Tape — Std —
Surveyed by W.A. RICHARDS
Notes W.A.R. Date 9-77
Indexed

F. B. 2648 PG. 47

76F309S CE#310 3-68

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HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 10-6-77
TIME AM
RECORDER M

PROJECT GEODETIC CONTROL DEPT. WTS. & MEAS.
CLIENT

	STATION	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A	D-9A		Moody	5.40	—	—
REFLECTOR	D-10A			5.75	—	—

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	84	30.15	
REFLECTOR	—	—	
MEAN	—	—	+9

SLOPE DISTANCE (FEET)

	1	5	9	8	4	9	8

VERTICAL ANGLE

D 90-08-16	INST. H.I. 5.25
R 269-53-33	
S 360-01-49	TARG. H.I. 5.75
M 90-07-21.5	

VISIBILITY: ☑ GOOD ☐ FAIR ☐ BAD

RETURN SIGNAL READING:

STABILITY: 0 25 75 100 — +

TYPE OF REFLECTOR: I.H.P

REFLECTOR CONSTANT: ~~0~~

ATTENUATOR USED: ☐ YES ☑ NO

COMMENTS: HOR. DIST. = 1598.494
VERT. " = -3.42

PART NO. 9320-2060

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

Survey of GEODETIC CONTROL
JN 030100 Tape — Std — °F
Surveyed by W.A. RICHARDS
Notes W.A.R. Date 10-77
Indexed

F. B. 2463 PG. 48

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 10-6-77
TIME AM
RECORDER M

PROJECT GEODETIC CONTROL
DEPT. WTS. & MEAS.
CLIENT

	STATION	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A	Bell D-9 A		Moody	—	—	—
REFLECTOR	Bell D-9 Aux #1			5.27	—	

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	84	30.15	
REFLECTOR	—	—	
MEAN	—	—	+9

SLOPE DISTANCE (FEET)

		9	9	2	9	4	8

VERTICAL ANGLE

D 89 48-56	INST. H.I. 5.25
R 270 · 12-40	
S 360 · 01-36	TARG. H.I. 5.27
M 89-48-08	

VISIBILITY: ☑ GOOD ☐ FAIR ☐ BAD

RETURN SIGNAL READING: 80

STABILITY: 0 25 75 100 — +

TYPE OF REFLECTOR: 1 H.P.

REFLECTOR CONSTANT: 0

ATTENUATOR USED: ☐ YES ☑ NO

COMMENTS: HOR. DIST. = 992.942

PART NO. 9320-2060

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

Survey of GEODETIC CONTROL
JN 030,00 Tape — Std — °F
Surveyed by W.A. RICHARDS
Notes W.A.R. Date 10-77
Indexed

F. B. 2463 PG. 49

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Notes Ck'd by
Map No
Office Work
Checked
Date

Survey of GEODETIC CONTROL
JN 030100 Tape — Std — °F
Surveyed by W. RICHARDS
Notes W.A.R. Date 10-77
Indexed

F. B. 2063 PG. 50

HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 10-14-77
TIME P.M
RECORDER B

PROJECT CADASTRAL TIES
DEPT. WTS. & MEAS.
CLIENT

	STATION	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A	BELL D-9 AUX. #1		C. YASUI	—	—	—
REFLECTOR	BELL D-9A			—	—	—

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	82	30.1	
REFLECTOR	—	—	
MEAN	—	—	+10

SLOPE DISTANCE (FEET)

		9	9	2	9	4	6

VERTICAL ANGLE

D 90-11-20	INST. H.I. —
R 269-49-55	
S 360-01-15	TARG. H.I —
M 90-10-42.5	

VISIBILITY: ☐ GOOD ☒ FAIR ☐ BAD

RETURN SIGNAL READING:

STABILITY: 0 25 75 100 — +

TYPE OF REFLECTOR: 1 HP.

REFLECTOR CONSTANT: 0

ATTENUATOR USED: ☐ YES ☒ NO

COMMENTS: HOR. DIST. = 992.941

PART NO. 9320-2060

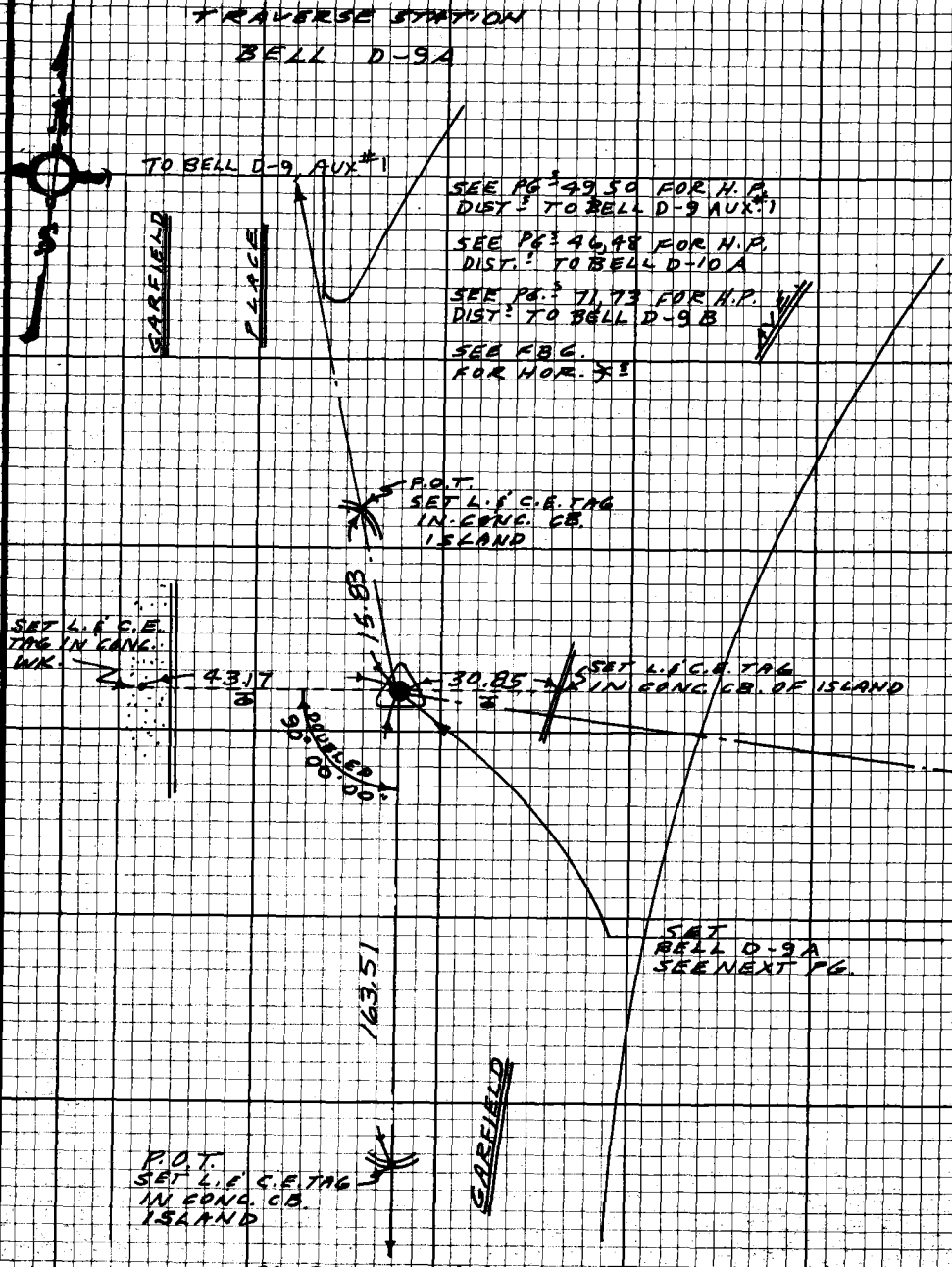
Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN030100 Tape — Std — °F
Office Work	Surveyed by W. A. RICHARDS
Checked	Notes W. A. R. Date 10-77
Date	Indexed

FB 2463 Pg 51

L.A. COUNTY SURVEY CONTROL SYSTEM

TRAVERSE STATION

BELL D-9A



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

75F3098 CE#810 9-67

F.B. 2463 Pg. 52 L.A. COUNTY SURVEY CONTROL SYSTEM

TRAVERSE STATION

BELL D-9A

MEASUREMENTS

100' TAPE @ 68° F
T=84° F.
163.49 @ LEVEL = 163.51
43.17 " 43.17
15.89 " 15.83
30.85 " 30.85

50 MTR. TAPE M-1 @ 84° F
T=89° F
49.838 @ LEVEL = 163.51
13.158 " = 43.17
9.403 " 30.85
4.825 " 15.83

AREA: THIS TRAVERSE STATION IS LOCATED IN LOS ANGELES COUNTY, IN THE CITY OF SOUTH GATE, IN THE INTERSECTION OF GARFIELD AVE. AND GARFIELD PLACE.

ROUTE: FROM THE LONG BEACH FREEWAY (STATE HIGHWAY # 7) GO EASTERLY 0.3 MI. TO GARFIELD PLACE (ALONG IMPERIAL HWY), THEN GO S'LY ALONG GARFIELD PLACE 0.2 MI. TO GARFIELD AVE.

STATION MARK: A SQUARE HEAD SPIKE AND TIN FLUSH IN MAC. TRAFFIC ISLAND

REFERENCE MARKS:

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

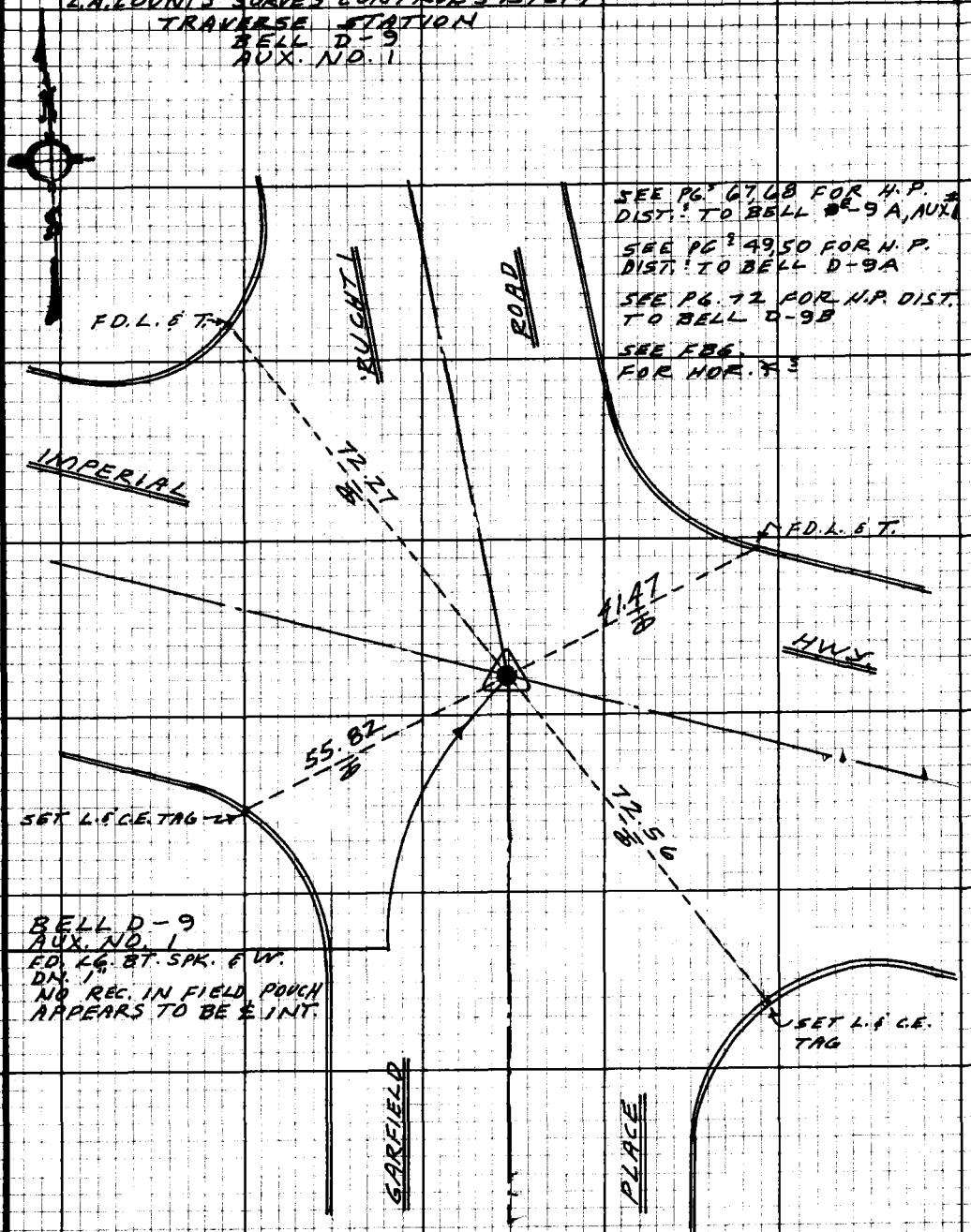
Do not extend this side of this line.

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

Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JNO 301.09 Tape — Std — °F
Office Work	Surveyed by W. A. RICHARDS
Checked	Notes W. A. R. Date 10-77
Date	Indexed

F.B 2463 PG 53

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
BELL D-9
AUX. NO. 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.

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

76F3098 CE#310 9-67

F.B. 2463 Pg. 54

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
BELL D-9
AUX. NO. 1

MEASUREMENTS

100' TAPE @ 68°F T = 70° F		50 MTR. TAPE M-1 @ 84°F. T = 70° F	
41.47 @ LEVEL =	41.47	12.643 @ LEVEL	41.47
72.56 "	72.56	22.121 "	72.56
55.82 "	55.82	17.018 "	55.82
72.27 "	72.27	22.039 "	72.27

AREA — THIS TRAVERSE STATION IS LOCATED IN LOS ANGELES COUNTY, IN THE CITY OF SOUTH GATE, IN THE INTERSECTION OF IMPERIAL HWY. AND GARFIELD PLACE.

ROUTE — FROM THE LONG BEACH FREEWAY (STATE HIGHWAY) GO EASTERLY ALONG IMPERIAL HWY. 0.3 MI. TO GARFIELD PLACE.

STATION MARK: A LARGE BOAT SPIKE AND WASHER IN MAC. PVT.

REFERENCE MARKS

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

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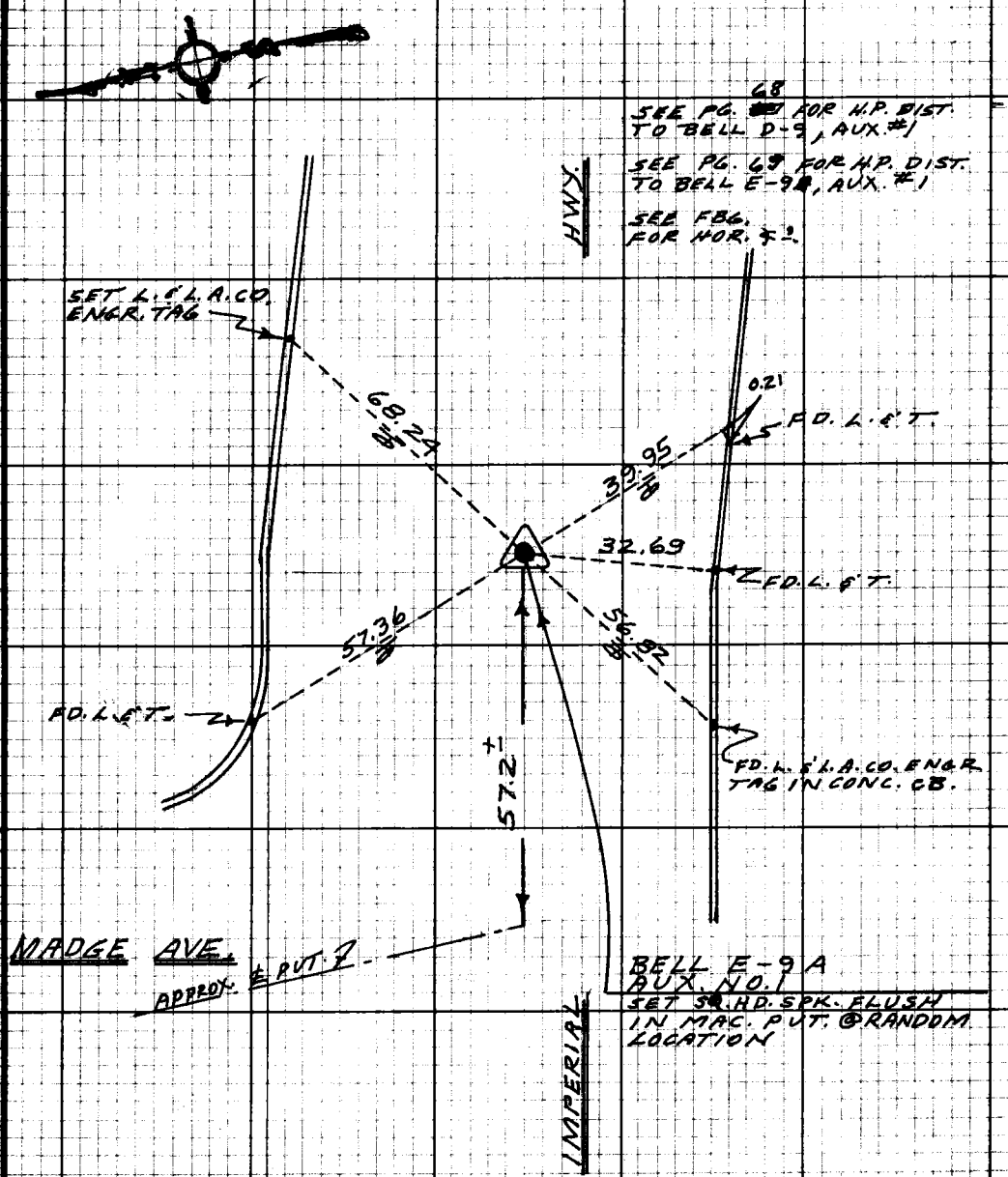
Note: Any Additions or Changes on this Sheet Must be Made or Checked in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 030100 Tape — Std — °F
Office Work	Surveyed by W. A. RICHARDS
Checked	Notes W. A. R. Date 10-77
Date	Indexed

F.B. 2463 PG. 55

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
BELL E-9A
AUX. NO. 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.

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

7SE3098 CE#310 9-67

FB2463 PG 56 — L.A. COUNTY SURVEY CONTROL SYSTEM

TRAVERSE STATION
BELL E-9A
AUX. NO. 1

MEASUREMENTS

100' TAPE @ 68°F. T = 82°		50 MTR. TAPE M-1 @ 84°F. T = 82°	
39.95 @ LEVEL =	39.95	20.798 @ LEVEL =	68.23
56.81 "	56.82	17.482 "	57.36
57.35 "	57.36	17.320 "	56.82
68.23 "	68.24	9.963 "	32.69
32.69 "	32.69	12.178 "	39.95

AREA : THIS TRAVERSE STATION IS LOCATED IN LOS ANGELES COUNTY, IN THE CITY OF SOUTH GATE, IN IMPERIAL HWY., E/O APPROX. ℄ INT. OF MADGE AVE.

ROUTE : FROM THE LONG BEACH FREEWAY (STATE HIGHWAY 7) GO EASTERLY ALONG IMPERIAL HWY. 0.4 MI. TO STATION.

STATION MARK : A SQUARE HEAD SPK. IN MAC. PVT.

REFERENCE MARKS:

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

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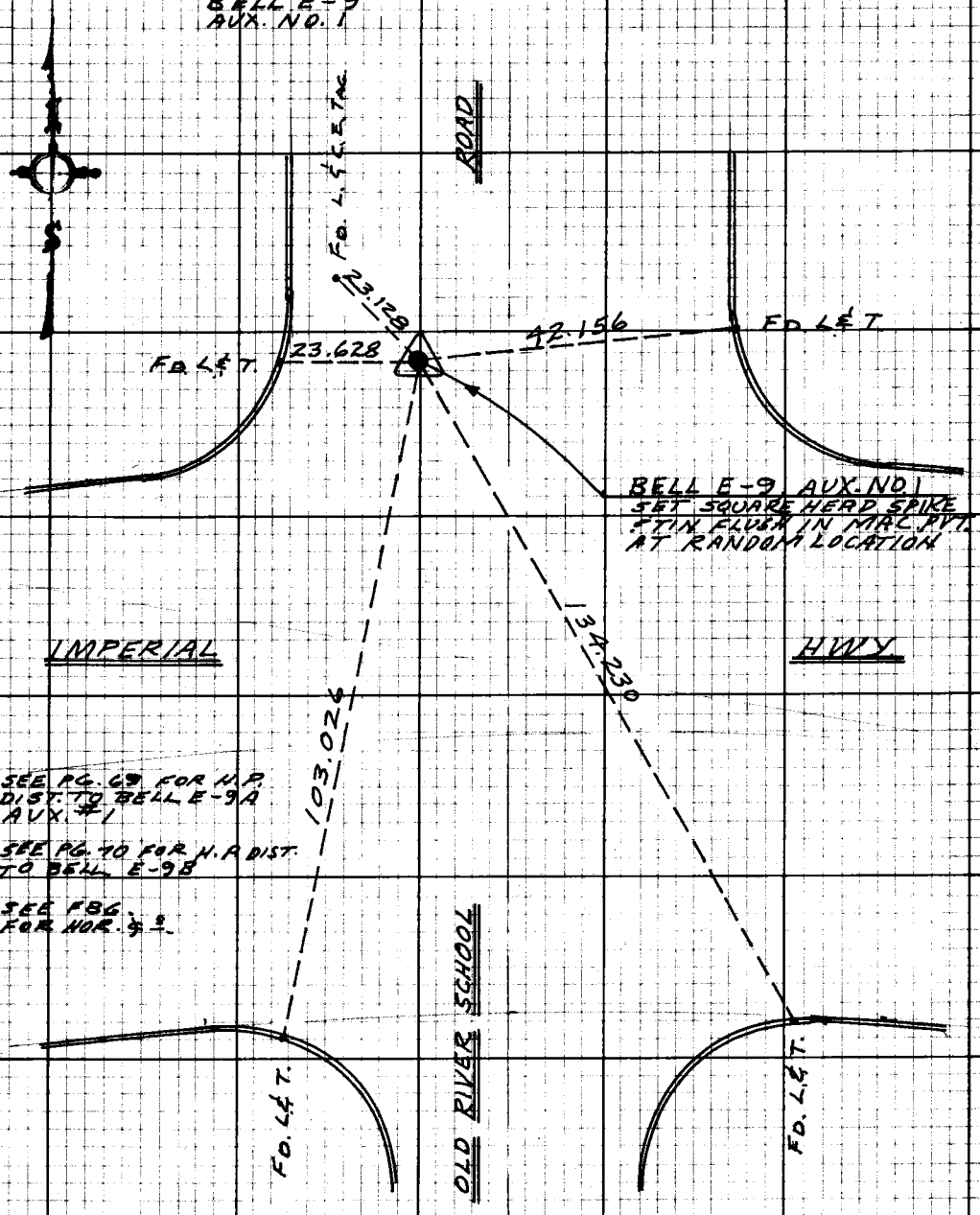
Note: Any Additions or Changes on this Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 030106 Tape — Std — °F
Office Work	Surveyed by W. A. RICHARDS
Checked	Notes W. A. R. Date 10-77
Date	Indexed

F.B 2463 PG 57

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
BELL E-9
AUX. NO. 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
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3098 CE#310 9-67

FB 2963 Pg 58 L.A. COUNTY SURVEY CONTROL SYSTEM

TRAVERSE STATION

BELL E-9

AUX. NO. 1

MEASUREMENTS

H.P. 38.00 @ EDM

42.156	@ LEVEL =	42.156
134.230	"	134.230
103.026	"	103.026
23.628	"	23.628
23.128	"	23.128

AREA THIS TRAVERSE STATION IS LOCATED IN LOS ANGELES COUNTY, IN THE INTERSECTION OF IMPERIAL HWY. AND OLD RIVER SCHOOL RD. (IN THE CITY OF DOWNEY)

ROUTE FROM THE LONG BEACH FREEWAY (STATE HWY. 7) GO EASTERLY ALONG IMPERIAL HWY 0.8± MI. TO OLD RIVER SCHOOL ROAD

STATION MARK: A SQUARE HEAD SPIKE AND TIN FLUSH IN MAC.

REFERENCE MARKS

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

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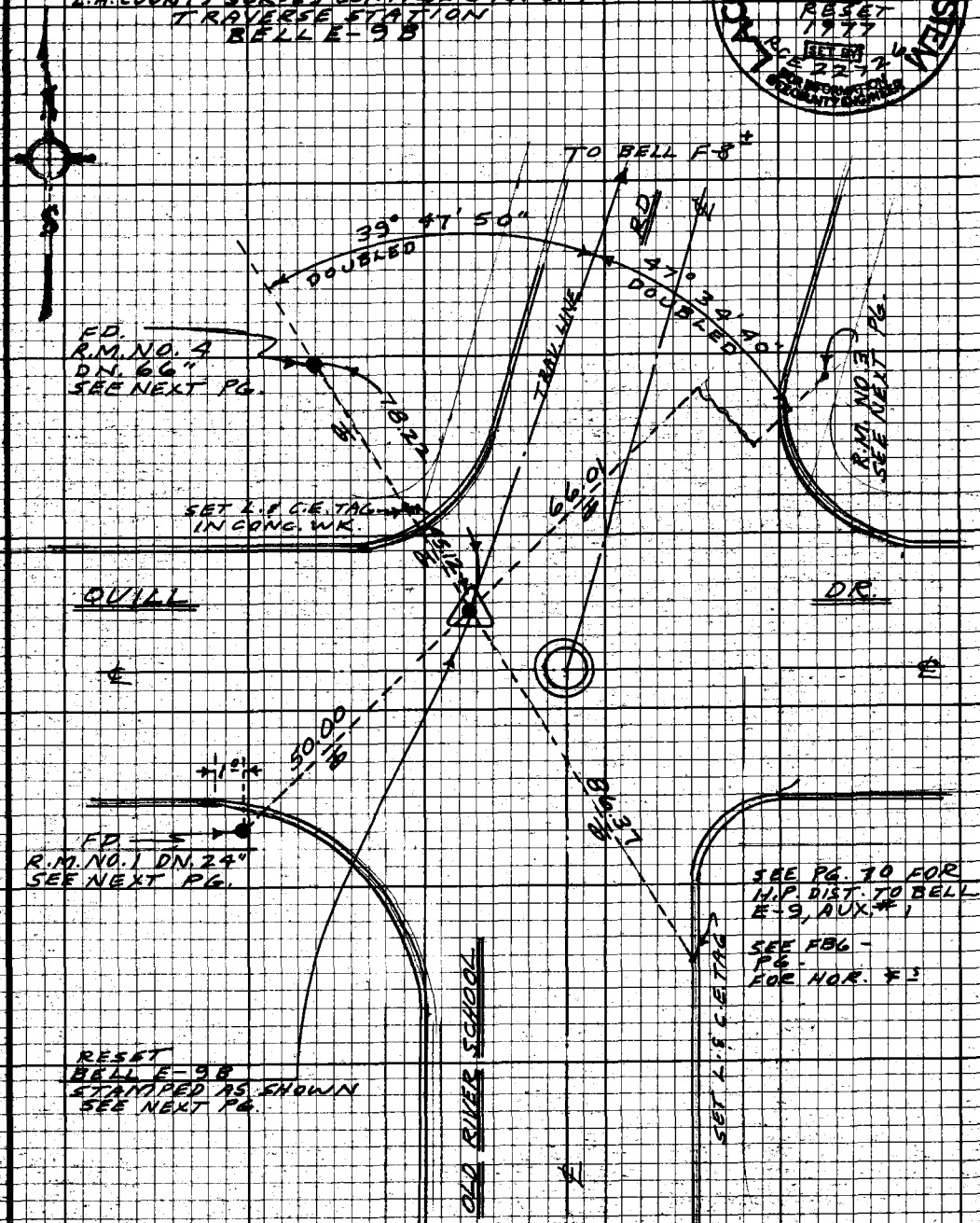
Note: Any Additions or Changes on this Sheet Must be Made on Checked in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 0301.00 Tape — Std — °F
Office Work	Surveyed by W. A. RICHARDS
Checked	Notes W.A.R. Date 10-77
Date	Indexed

FB 2463 Pg. 59

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
BELL E-9B
RESET 1977
SET BY RCE 22726
FOR INFORMATION
GEOCOUNTY ENGINEER



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

Do not extend this side of this line.

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

75F3098 CE# 310 9-67

F.B. 2563 PG. 60

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
BELL E-9B

MEASUREMENTS

100' TAPE @ 68° F		
T = 86°		
86.36 LEVEL =	86.37	
49.99 "	50.00	
45.11 "	45.12	
78.21 "	78.22	
66.00 "	66.01	

50 M. TAPE M-1 @ 84° F

26.325 M. T = 86°	@ LEVEL =	86.37	
15.240 "	"	50.00	
13.752 "	"	45.12	
23.842 "	"	78.22	
20.120 "	"	66.01	

TRAVERSE

AREA : THIS STATION IS IN LOS ANGELES COUNTY, IN THE CITY OF DOWNEY, IN THE INTERSECTION OF OLD RIVER SCHOOL ROAD AND QUILL DRIVE

ROUTE : FROM THE LONG BEACH FREEWAY (STATE HWY. #7) GO EASTERLY ALONG IMPERIAL HWY. 0.8 MI. TO OLD RIVER SCHOOL RD., THEN GO NORTHERLY ALONG OLD RIVER SCHOOL RD. 0.2 MI. TO QUILL DR.

STATION MARK: NO EVIDENCE OF RECORD MONUMENT DOWN 48" BELOW SURFACE. PER F.B. 796-187, 188, 245, 247 A 4" LA CO SUR CONT SYS BRASS TRAV. DISC STAMPED "BELL E-9B RESET 1977 RCE 22726" 8" BELOW PVT. SUR. IN A 6" CONC. POST, IN A N.H. WITH COVER

REFERENCE MARKS: RM NO. 1: A 4" LA CO SUR CONT SYS BRASS REF MARK DISC STAMPED "BELL E-9B R M NO 1 1955 RE 5869" IN CONC. 24" BELOW SUR.

RM NO 2: NO SEARCH MADE - NOW FALLS UNDER CONC. WK.

R.M NO 3: NO SEARCH MADE - NOW FALLS UNDER CONC. WK. SET A L. AND LA CO ENGR TAG FLUSH IN CONC WK IN REC POSITION OF RM #3

R.M NO 4: A 4" BRASS DISC STAMPED "HONDO BASE SOUTH END RM NO 1 1956 RE 5869" 66" BELOW GROUND SURFACE, IN CONC.

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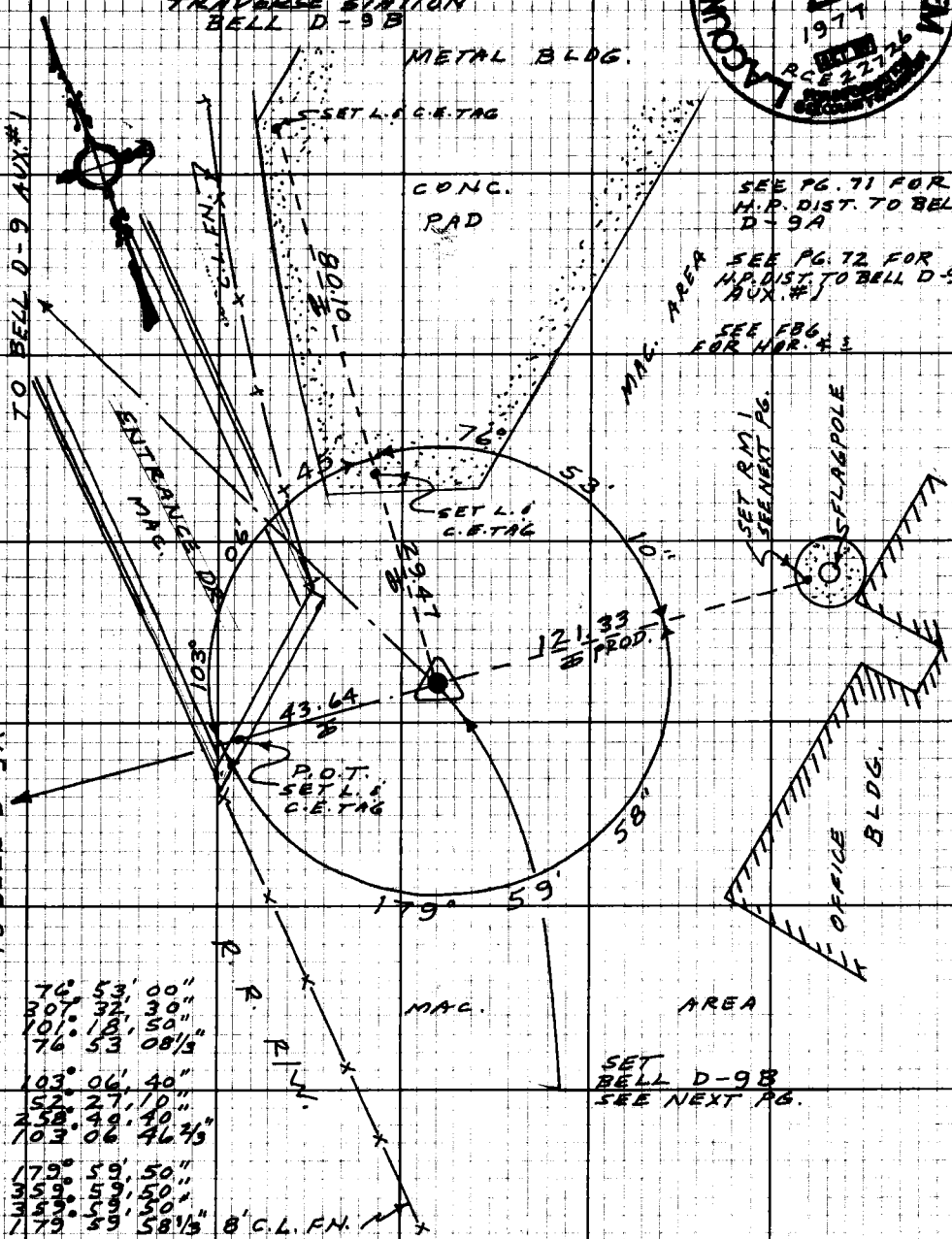
Note: Any Additions or Changes on this Sheet Must be Made on Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 030100 Tape — Std — °F
Office Work	Surveyed by W.A. RICHARDS
Checked	Notes W.A.R. Date 10-77
Date	Indexed

F.B 2463 PG. 61

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
BELL D-9B
1977
RCE 22726

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
BELL D-9B



1. 76° 53' 00"
4. 307° 32' 30"
6. 101° 18' 50"
= 76° 53' 08 1/3"

1. 103° 06' 40"
4. 52° 27' 10"
6. 258° 40' 40"
= 103° 06' 46 2/3"

1. 179° 59' 50"
4. 359° 59' 50"
6. 359° 59' 50"
= 179° 59' 58 1/3"

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
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3098 CE#310 9-67

FB2463 Pg 62

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
BELL D-9B (NEW STA)

MEASUREMENTS

100' TAPE @ 68°F.
T = 82°

43.64 @ LEVEL =	43.64	
29.47 "	29.47	
80.09 "	80.10	
121.32 "	121.33	

50 MTR. TAPE @ 84°F.
T = 82°

13.303 @ LEVEL =	13.303	= 43.64
8.984 "	8.984	= 29.47
24.414 "	24.414	= 80.10
36.980 "	36.980	= 121.33

AREA: THIS TRAVERSE STATION IS LOCATED IN LOS ANGELES COUNTY, IN THE CITY OF DOWNEY, IN THE MACADAM PAVED AREA OF THE SEALER OF WEIGHTS AND MEASURES FACILITY.

ROUTE: FROM THE LONG BEACH FREEWAY (STATE HIGHWAY 7) GO EASTERLY ALONG IMPERIAL HWY. 0.4 MI. TO VULCAN ST. THEN GO SOUTHERLY ALONG VULCAN ST. 0.1± MI. TO PARKING FACILITY AND STATION

STATION MARK: A 4" L.A. CO. SUR CONT SYS BRASS TRAV DISC. STAMPED "BELL D-9B 1977 RCE 22726" IN 18" X 18" CONC. PAD FLUSH WITH PVT. SURFACE

REFERENCE MARKS: RM NO1: A 4" L.A. CO. SUR CONT. SYSTEM BRASS REF. DISC STAMPED "R M-1 BELL D-9B 1977 RCE 22726" SET IN EPOXY CEMENT IN CONC. BASE OF FLAGPOLE

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
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.

F.B. 2463 PG. 63

NOTES RED _____ JOB NO. 0301.02 SURVEY OF DEPT. WTS. & MEAS.

DATE _____ SURVEY BY W. A. RICHARDS

NOTES CHKD. _____ NOTES BY W. A. R. DATE 10-25-77

DATE _____ INDEXED _____ DATE _____

DESCRIPTION	J. N. 0301.02 BENCH LEVELS FOR DEPT. OF WEIGHTS AND MEASURES TO ESTABLISH ELEVATIONS ON TRAVERSE STA. BELL D-9B & R.M. #1 TO BELL D-9B - LOC. PER FB. 2463 PG. 61
ADJ. ELEV.	DATUM: L.A. CO. ROAD DEPT. PRECISE LEVELS, SOUTHGATE QUAD., 1975 ADJ.
3RD RUN	
2ND RUN	
DIFF.	
1ST RUN	RICHARDS YASUI BUSTRUM
B.M.	

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

Do not extend notes this side of this line

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

765420 S & E-353 4-54

768420 S & E-353 4-54

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

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

Do not extend notes this side of this line

JOB NO. 0301.02 SURVEY OF DEPT. WTS. & MEAS. NOTES RED
SURVEY BY W. A. RICHARDS DATE
NOTES BY DATE 10-25-77 NOTES CHKD.
INDEXED DATE DATE

F.B. 2463 PG. 64

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
(FD) B.M. CY 7188	93.899				93.899	BM CY 7188 ELEV. = 93.899 SO. GATE QUAD, 1975
+	4.037		4061			IMPERIAL HWY. & GARFIELD AVE., S.W. COR.
Σ	97.936	+0.212	0.214	+0.2130		RDBM TAG IN CB., 1' E. OF B.C.R.
(FD.) B.M. CY 7187 −	3.825		3.847			
	94.111					BMCY 7187 ELEV. = 94.108 SO. GATE QUAD, 1975
+	4.009		3.967			IMPERIAL HWY. & GARFIELD AVE., S.E. COR.
Σ	98.120	−1.352	1.350	−1.3510		PK IN CB., 5' E. OF B.C.R.
−	5.361		5.317			
T.P.	92.759					
+	4.421		4397			
Σ	97.180	−1.157	1.160	−1.1585		
−	5.578		5.557			
T.P.	91.602					
+	5.545		5.528			
Σ	97.147	+3.155	3.158	+3.1565		
−	2.390		2.370			
T.P.	94.757					
+	5.398		5.487			
Σ	100.155	+0.117	0.117	+0.1170		
−	5.281		5.370			
T.P.	94.874					
+	3.610		3.625			
Σ	98.484	−0.583	0.585	−0.5840		BELL D-9B ELEV. = FB. 2463-64
(SET) −	4.193		4.210			A 4" L.A.CO. SUR. CONT. SYS. BRASS
BELL D-9B	94.291				94.292	DISC. IN 18" X 18" CONC. PAD IN
+	5.343		5.335			MAC. AREA OF DEPT. OF WTS. & MEAS.
Σ	99.634	+1.156	1.158	+1.1570		SEE FB. 2463 PG. 61 FOR TIES
(SET.) −	4.187		4.177			
R.M. #1	95.447					R.M. #1 ELEV. = FB. 2463-64

76S420 S & E-353 4-54

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

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

Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
R.M. #1	95.447				95.449	R.M. #1, CONT.
+	3.583		3.621			A 4" LA CO SUR CONT SYS BRASS
⊼	99.030	-0.946	0.946	-0.9460		R.M. DISC. IN CONC. BASE OF FLAG-
−	4.529		4.567			POLE @ DEPT. OF WTS. & MEAS. SITE
T.P.	94.501					SEE FB. 2463 PG. 61 FOR LOC.
+	5.623		5.607			
⊼	100.124	+1.655	1.656	+1.6555		
−	3.968		3.951			
T.P.	96.156					
+	3.321		3.341			
⊼	99.477	-2.048	2.048	-2.0480		
−	5.369		5.389			
T.P.	94.108					
+	3.530		3.550			
⊼	97.638	-0.819	0.817	-0.8180		
−	4.349		4.367			
T.P.	93.289					
+	4.803		4.830			
⊼	98.092	+0.605	0.608	+0.6065		
(FD) −	4.198		4.222			
BMCY 7188	93.894				93.899	BM CY 7188 ELEV.= 93.899 - SEE PG. 64 FOR DESCRIPTION.

NOTES RED ____ JOB NO. 030102 SURVEY OF DEPT. WTS. & MEAS.
DATE ____ SURVEY BY W. A. RICHARDS
NOTES CHKD. ____ NOTES BY ____ DATE 10-25-77
DATE ____ INDEXED ____ DATE ____

2463 F.B. PG. 65

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Notes Ck'd by
Map No
Office Work
Checked
Date

Survey of GEODETIC CONTROL
JN 030100 Tape — Std — °F
Surveyed by W. RICHARDS
Notes W.A.R. Date 10-77
Indexed

F. B. [redacted] 2463 Pg. 67

HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 10-14-77
TIME P.M
RECORDER BUSTRUM

PROJECT GEODETIC CONTROL
DEPT. WTS. & MEAS.
CLIENT

	STATION	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A	BELL D-9 AUX. #1	—	C YASUI	—	—	—
REFLECTOR	BELL E-9A AUX. NO. 1	—	—	—	—	—

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	82	30.1	
REFLECTOR	—	—	
MEAN	—	—	+10

VISIBILITY: ☐ GOOD ☒ FAIR ☐ BAD

RETURN SIGNAL READING: 80

STABILITY: 0 25 75 100 — +

TYPE OF REFLECTOR: 1 HP.

REFLECTOR CONSTANT: 0

ATTENUATOR USED: ☐ YES ☒ NO

COMMENTS: HOR. DIST. = 1106.900

SLOPE DISTANCE (FEET)

	1	1	0	6	9	0	1

VERTICAL ANGLE

D 90-04-40	INST. H.I. —
R 269-56-30	
S 360-01-10	TARG. H.I —
M 90-04-05.0	

PART NO. 9320-2060

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 10-12-77
TIME AM
RECORDER B

PROJECT PARAMOUNT AREA TRAV. LN.
CLIENT

	STATION	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A	BELL E9 Aux1		YASUI	4.97		
REFLECTOR	BELL D9 Aux1			5.25		

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	76°	30.15	
REFLECTOR	—	—	
MEAN	—	—	407

SLOPE DISTANCE (FEET)

	1	1	0	6	9	1	5

VERTICAL ANGLE

D 89- 55- 05	INST. H.I. 4.97
R 270- 05- 01	
S 360 - 00 - 06	TARG. H.I 5.25
M 89- 55 -02	

VISIBILITY: ☐ GOOD ☒ FAIR ☐ BAD

RETURN SIGNAL READING: 75

STABILITY: 0 25 75 100 — +

TYPE OF REFLECTOR: 1 HP.

REFLECTOR CONSTANT: —0—

ATTENUATOR USED: ☐ YES ☒ NO

COMMENTS: HOR. DIST. = 1106.914

PART NO. 9320-2060

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

Survey of LOS ANGELES COUNTY
JN 03490 Tape — Std —
Surveyed by W. A. R. RICHARDS
Notes W. A. R. Date 11-77
Indexed

F. B. [illegible] PG. 68

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 10-12-77
TIME AM
RECORDER B

PROJECT PARAMOUNT AREA TRAV. LN.
CLIENT

	STATION	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A	BELL E94 Mark 1		YASUI	4.97		
REFLECTOR	BELL E9 Mark 1			4.74		

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	76°	30.15	
REFLECTOR	—	—	
MEAN	—	—	+07

SLOPE DISTANCE (FEET)

	1	4	4	5	2	7	9

VERTICAL ANGLE

D 90 04 19	INST. H.I. 4.97
R 269-57-02	
S 360-01-21	TARG. H.I. 4.74
M 90-03-38.5	

VISIBILITY: ☐ GOOD ☒ FAIR ☐ BAD

RETURN SIGNAL READING: 75

STABILITY: 0 25 75 100 — –

TYPE OF REFLECTOR: 1 HP

REFLECTOR CONSTANT: —

ATTENUATOR USED: ☐ YES ☒ NO

COMMENTS: HOR. DIST. = 1445.278

PART NO. 9320-2060

Notes Ck'd by
Map No
Office Work
Checked
Date

Survey of GEODETIC CONTROL
JN 030100 Tape Sub
Surveyed by W.A. RICHARDS
Notes W.A.R. Date 10-77
Indexed

F. B. 24 23 PG. 67

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend this side of this line.

HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 10-13-77
TIME 3:30 P.M.
RECORDER BUSTRUM

PROJECT PARAMOUNT AREA CADASTRAL TIES
CLIENT

	STATION	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A	BELL E-9 AUX. #1	3800A	YASUI	4.95	—	—
REFLECTOR	BELL E-9B	—	—	6.23	—	—

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	82	30.0	
REFLECTOR	—	—	
MEAN	—	—	+12

SLOPE DISTANCE (FEET)

	1	1	9	2	5	8	2

VERTICAL ANGLE

D 89-51-26	INST. H.I. 4.95
R 270-11-30	
S 360-02-56	TARG. H.I 6.23
M 89-49-58.0	

VISIBILITY: ☐ GOOD ☑ FAIR ☐ BAD

RETURN SIGNAL READING: 75

STABILITY: 0 25 75 100 — +

TYPE OF REFLECTOR: 1-H.P.

REFLECTOR CONSTANT: —

ATTENUATOR USED: ☐ YES ☒ NO

COMMENTS: HOR. DIST. = 1192.577

PART NO. 9320-2060

Notes Ck'd by
Map No
Office Work
Checked
Date

Survey of [redacted]
JN 030101 Tape — Std — °F
Surveyed by W.A. RICHARDS
Notes W.A.R. Date 10-77
Indexed

F. B. [redacted] PG. 70

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 10-19-77
TIME 2:35 P.M.
RECORDER BUSTRUM

PROJECT CADASTRAL TIES
DEPT. OF WTS. & MEAS.
CLIENT

	STATION	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A	BELL D-9B	3800A	YASUI	14.60	—	—
REFLECTOR	BELL D-9A	—	—		—	—

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	68°	30.1	
REFLECTOR	—	—	
MEAN	—	—	+4

SLOPE DISTANCE (FEET)

		4	1	0	1	1	2

VERTICAL ANGLE

D 90-59-15	INST. H.I. 14.60
R 269-01-56	
S 360-01-11	TARG. H.I 10.20
M 90-58-39.5	

35.5
2)71
75.0
35.5
39.5

VISIBILITY: ☑ GOOD ☐ FAIR ☐ BAD

RETURN SIGNAL READING: 70

STABILITY: 0 25 75 100 — – +

TYPE OF REFLECTOR: 1-H.P.

REFLECTOR CONSTANT: 0

ATTENUATOR USED: ☑ YES ☐ NO

COMMENTS: HOR. DIST. = 410.050

PART NO. 9320-2060

Notes Ck'd by
Map No
Office Work
Checked
Date

GEODETIC CONTROL
Survey of
JN 030100 Tape Std
Surveyed by W.A. RICHARDS
Notes W.A.R. Date 10-77
Indexed

F.B. 2463 PG.

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend this side of this line.

Notes Ck'd by
Map No
Office Work
Checked
Date

Survey of GEODETIC CONTROL
JN 0301.00 Tape — Sht — F
Surveyed by W. RICHARDS
Notes W.A.R. Date 10-77
Indexed

F. B 2463 PG. 72

HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 10-19-77
TIME P.M.
RECORDER BUSTRUM

PROJECT CADASTRAL TIES
DEPT. WTS. & MEAS.
CLIENT

	STATION	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A	BELL D-9B	3800A	YASUI	14.60	—	—
REFLECTOR	BELL D-9 AUX. #1	—		5.48	—	—

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	68°	30.1	
REFLECTOR	—	—	
MEAN	—	—	+4

VISIBILITY: ☒ GOOD ☐ FAIR ☐ BAD

RETURN SIGNAL READING: 80

STABILITY: 0 25 75 100 — +

TYPE OF REFLECTOR: 1 H.P.

REFLECTOR CONSTANT:

ATTENUATOR USED: ☐ YES ☒ NO

COMMENTS: HOR-DIST = 1138.949

SLOPE DISTANCE (FEET)

	1	1	3	8	9	8	3

VERTICAL ANGLE

D 90-26-03	INST. H.I. 14.60
R 269-35-00	
S 360-01-03	TARG. H.I 5.48
M 90-25-31.5	

31.5
2)63

630
31.5
31.5

PART NO. 9320-2060

COUNTY OF LOS ANGELES
PARTMENT OF COUNTY ENGINEER
ANGELES COUNTY ENGINEERING BLL

Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend ... of this line.

Notes Ck'd by
Map No
Office Work
Checked
Date

Survey of [redacted]
JN 03400 Tape — Std — °F
Surveyed by [redacted]
Notes W.A.R. Date 10-77
Indexed

F. B. [redacted] Pg. [redacted]

HEWLETT hp PACKARD

MODEL 3800A
DISTANCE METER

DATE 10-20-77
TIME
RECORDER BUSTRUM

PROJECT CADASTRAL TIES
DEPT. WTS. & MEAS.
CLIENT

	STATION	INST. NO.	OBSERVER	H.I.	ECCENTRICITY +AHD., – BACK	ELEV.
3800A	BELL D-9A	3800 A	C. YASUI		—	—
REFLECTOR	BELL D-9B				—	

METEOROLOGICAL DATA	TEMP °F	PRESS. IN. HG	PPM CORR.
3800A	68	30.2	
REFLECTOR	—	—	
MEAN	—	—	+2

SLOPE DISTANCE (FEET)

		4	1	0	1	4	7

VERTICAL ANGLE

D 88-56-02	INST. H.I.
R 271-04 51	
S 360-00-53	TARG. H.I.
M 88-55-35.5	

VISIBILITY: ☒ GOOD ☐ FAIR ☐ BAD

RETURN SIGNAL READING: 75

STABILITY: 0 25 75 100 — +

TYPE OF REFLECTOR: 1-H.P.

REFLECTOR CONSTANT:

ATTENUATOR USED: ☒ YES ☐ NO

COMMENTS: HOR. DIST. = 410.073

PART NO. 9320-2060

26.5
2)53

620
26.5
35.5