Notes Ck'd by	Survey of	F. B. 3425 PG.
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Date	Indexed	

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P. W. file o.k. June '87

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Date	Indexed C. J. GALLI	

LLANO BASE

LOCATION OF

REFERENCE MONUMENTS

TO

CHAIN POINTS Nº 2 THRU Nº 10

AND

LLANO L-9

AND

ESTABLISHING

CHAIN POINT Nº 1 - AUX Nº 1

INDEX ON PAGE 6

J.N. 0301.00

JUNE & JULY ~ 1967

REFERENCES

FB 943 ~ 5-20 & 71-76

FILE MAP Nº 16-96

PARTY

J.G. Randall	CHIEF
R. DOVER	"
E. MARTINEZ	R.&C.
C.A. PYLE	R.&C.

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F.B. 3425 Pg. 6

INDEX

NO SCALE

SOUTHERN CALIFORNIA EDISON COMPANY HAS RECENTLY CONSTRUCTED TWO ADDITIONAL POWER LINES OF TOWERS NORTHERLY. POWER TRANSMISSION LINE

L.A. WATER & POWER TRANSMISSION LINE

TOWER Nº 1, NEAREST EACH POINT IS INDICATED WITH DESCRIPTION (BELOW.)

TAPED AND MONUMENTED LINE

ESTABLISHED:
CHAIN POINT Nº 1-AUX Nº 1
TOWER Nº 215 III 1
PAGE 7 & 8 (ASSUMED ELEV.)

TO:
1 LAND WEST BASE RM. 1
(LITTLE ROCK H-14)
F.B. 943-5 & 6

1 LAND EAST BASE NEW
LOVEJOY BUTTE H-12 TOWER Nº 5
BLACK BUTTE E-9
TOWER Nº 209 III 5 187-6
F.B. 943-9 & 10

CHAIN POINT Nº 10
TOWER Nº 210 III 2 188-3
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CHAIN POINT Nº 9
TOWER Nº 211 III 2 189-3
PAGE 27 & 28

1 LAND 6-9
ANGLE POINT IN TAPED LINE
TOWER Nº 212 III 1 190-2
F.B. 943-7 & 8
" 3425-25 & 26

CHAIN POINT Nº 8
TOWER Nº 212 III 4 190-5
PAGE 23 & 24

SOUTHERN PACIFIC R.R.
PALMDALE TO COLTON LINE
PAGE 31 & 32 (ASSUMED ELEV.)

CHAIN POINT Nº 7
TOWER Nº 213 III 4 191-5
PAGE 21 & 22

(PAVED) EAST

CHAIN POINT Nº 6
TOWER Nº 214 III 3
PAGE 19 & 20 192-4

CHAIN POINT Nº 5
TOWER Nº 215 III 3 193-4
PAGE 17 & 18

P.O.T. Nº 3 193-6
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CHAIN POINT Nº 4
TOWER Nº 216 III 2
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CHAIN POINT Nº 3 195-3
TOWER Nº 217 III 1
PAGE 11 & 12

126th ST. (DIRT) EAST

CHAIN POINT Nº 2
TOWER Nº 218 III 1
PAGE 9 & 10 196-2

CHAIN POINT Nº 1
F.B. 943-16 & 22
" 3425-7

(PAVED) EAST
REALIGNED)

TO:
2 LAND WEST BASE
LITTLE ROCK H-14
F.B. 943-5 & 6
CENTER/STATION

(CALCULATED ANGLE)

(CAL 138 AVE V-8)

U.S. POST OFFICE
PEARBLOSSOM, CALIF.

PEARBLOSSOM

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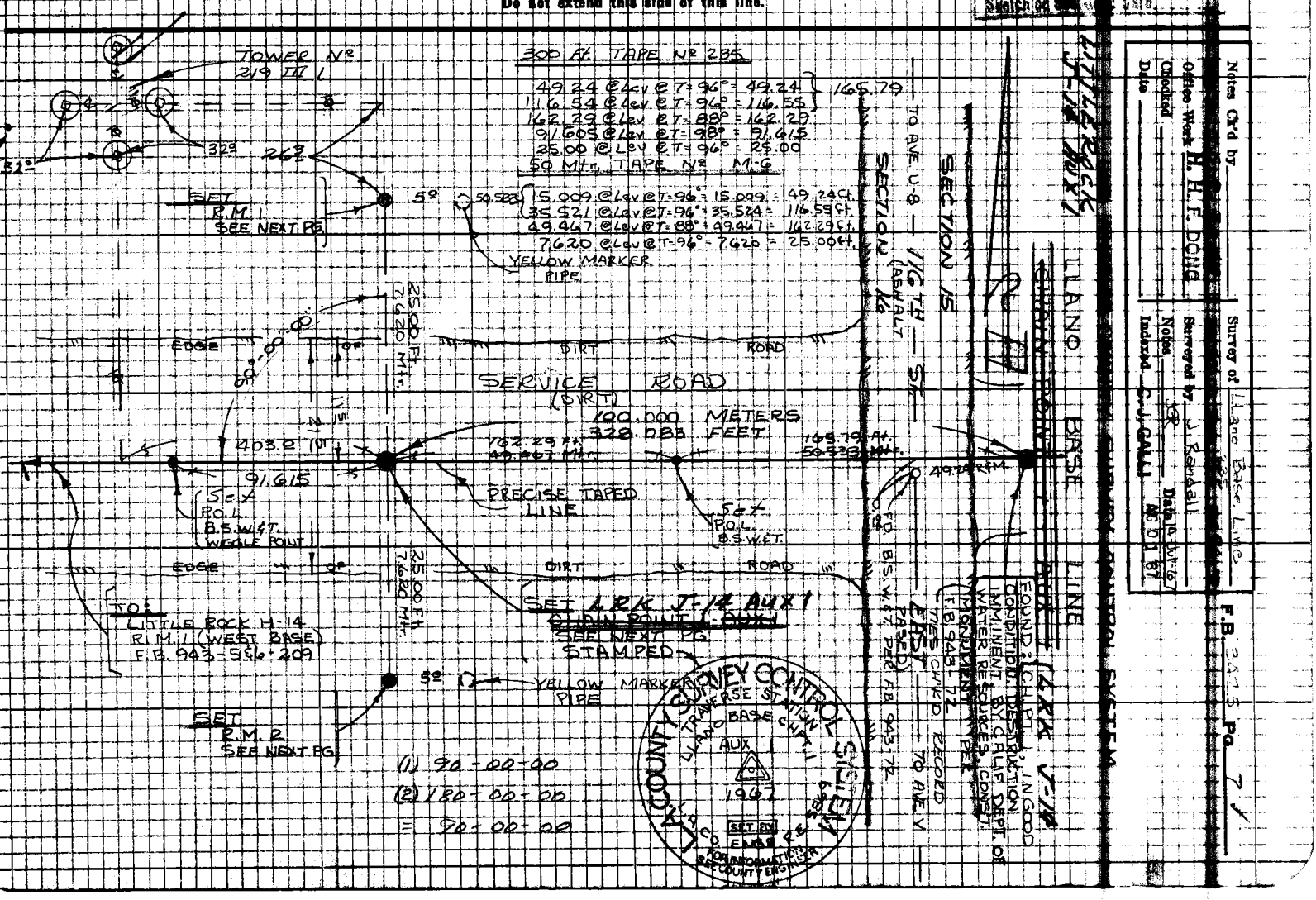
Surveyed by J. Randall
Notes
Indexed C. J. CALLI
Date 10-7-67
MO 01 87

F.B. 3373 Pg. 71



F.B. 3425 Pg. B

LOS ANGELES COUNTY SURVEY CONTROL SYSTEM

LLANO BASE LINE

~~CHAIN~~ LITTLEROCK J-14 ~~POINT 1~~ ~ AUX 1

ROUTE:

100 METERS WEST OF ORIGINAL CHAIN POINT 1.
AT 116 TH ST. E.
ON DEPT. W.A.P. SERVICE RD.

STATION MARK:

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS TRAVERSE DISC, STAMPED "LLANO BASE CH. PT. 1, AUX 1, 1967, L.A. CO. ENGR. R.E. 5869", DN. 14", AND IN APPROX. 6" DIA. CONC., POURED IN PLACE ON LINE BETWEEN LITTLE ROCK H-14, R.M. 1 & CH. PT. 1.

SUB SURFACE MARK:

NONE

REFERENCE MARK Nº 1:

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS REFERENCE MARK DISC, STAMPED, "LLANO BASE CH. PT. 1, AUX 1, R.M. 1, 1967, L.A. CO. ENGR. R.E. 5869", UP 9", AND IN A 12" x 12" CONC. PAD.

REFERENCE MARK Nº 2:

IDENTICAL TO R.M. 1 EXCEPT STAMPED "R.M. 2".

DIFFERENCE IN ELEVATION BETWEEN CH. PT. 1, CH. PT. 1 - AUX 1, R.M. 1, & R.M. 2

STATION	B.S.	H.I.	F.S.	ELEV.	REMARKS
CH. PT. 1				100.000	ASSUMED B.M.
↑	7.695	107.695			
T.B.M.			2.650	105.045	T.B.M. = CH. PT. 1 - AUX - 1
↑	2.930	107.975			
T.B.M.			4.190	103.785	T.B.M. = R.M. 1
↑	4.315	108.100			
T.B.M.			0.265	107.835	T.B.M. = R.M. 2
↑	0.310	108.145			
CH. PT. 1			8.155	99.990	B.M. CH. PT. 1 (ABOVE)
	(15.250	TOTAL	15.260)		

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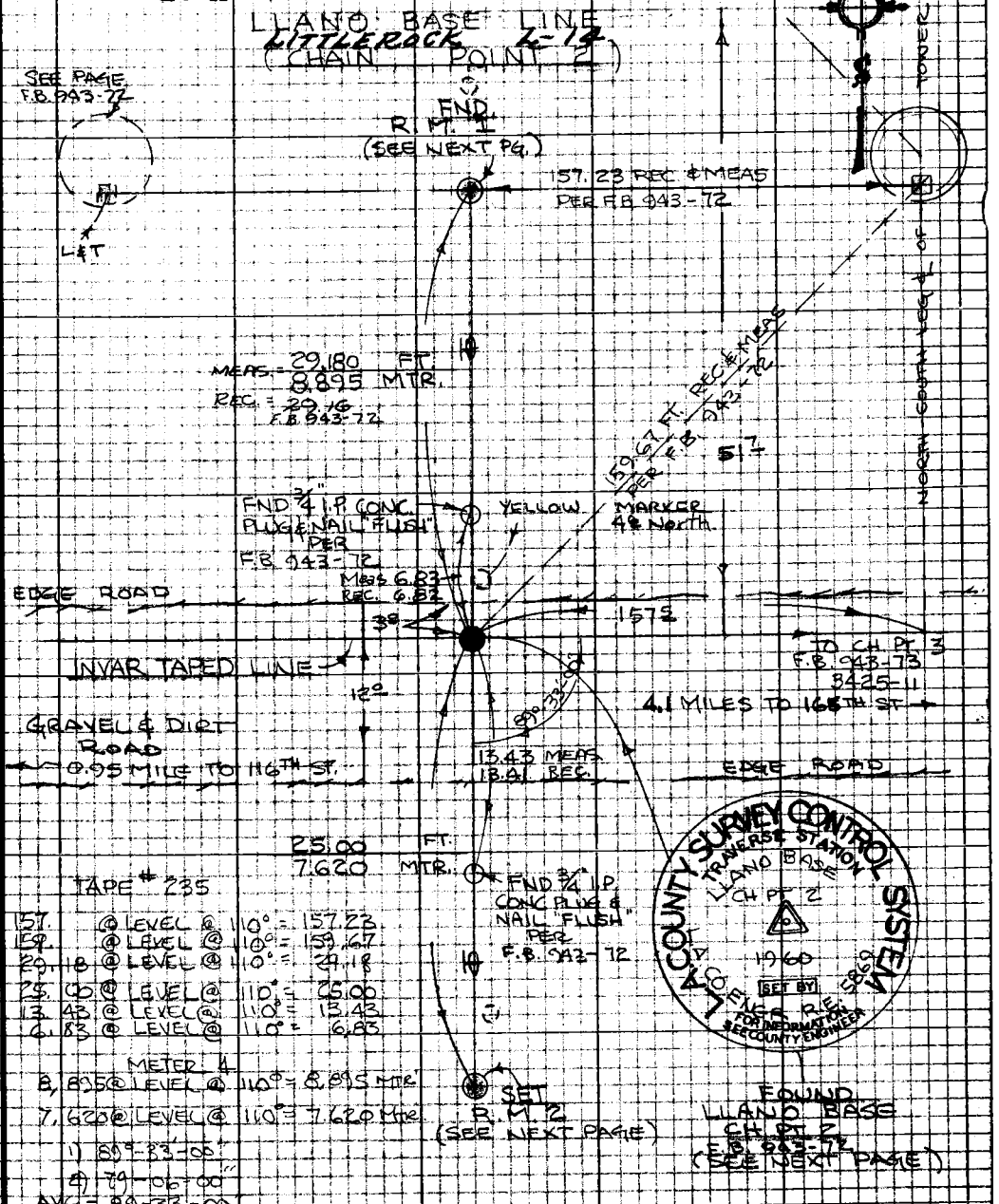
Date	Indexed C. J. GALL

F.B. 3425 Pg. 9

L. A. COUNTY SURVEY CONTROL SYSTEM

LLANO BASE LINE
LITTLEROCK L-72
(CHAIN POINT 2)



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F.B. 3425 Pg. 10

L. A. COUNTY SURVEY CONTROL SYSTEM

LITTLE ROCK L-18

LLANO BASE ~ CHAIN POINT Nº. 2

4.11 MILE WEST OF 165TH ST. EAST ON DEPT. W&D SERVICE RD.

STATION MARK

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS TRAVERSE STATION DISC. STAMPED "LLANO BASE CH. PT. 2, 1960, L.A. CO. ENGR. RE. 5869" DOWN 12" IN A 12"X12" CONC. PAD. F.B. 943-72

SUB SURFACE MARK

"NONE SET" OR FOUND.

REFERENCE MARK Nº 1

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS REFERENCE MARK DISC. STAMPED "LLANO BASE CH. PT. 2 R.M. 1, 1960, L.A. CO. ENGR. RE 5869" UP 8" IN A 12"X12" CONC. PAD. F.B. 943-72

REFERENCE MARK Nº 2

SAME AS R.M. 1 EXCEPT STAMPED "R.M. 2, 1967"

DIFFERENCE IN ELEVATION BETWEEN CH. P.T. 2, R.M. 1 & R.M. 2

STATION	ROD	DIFFERENCE
CH. PT 2	6.590	
R.M. 1	4.210	+ 2.380
R.M. 2	3.560	+ 3.030
CH. PT 2	6.590	CHECK

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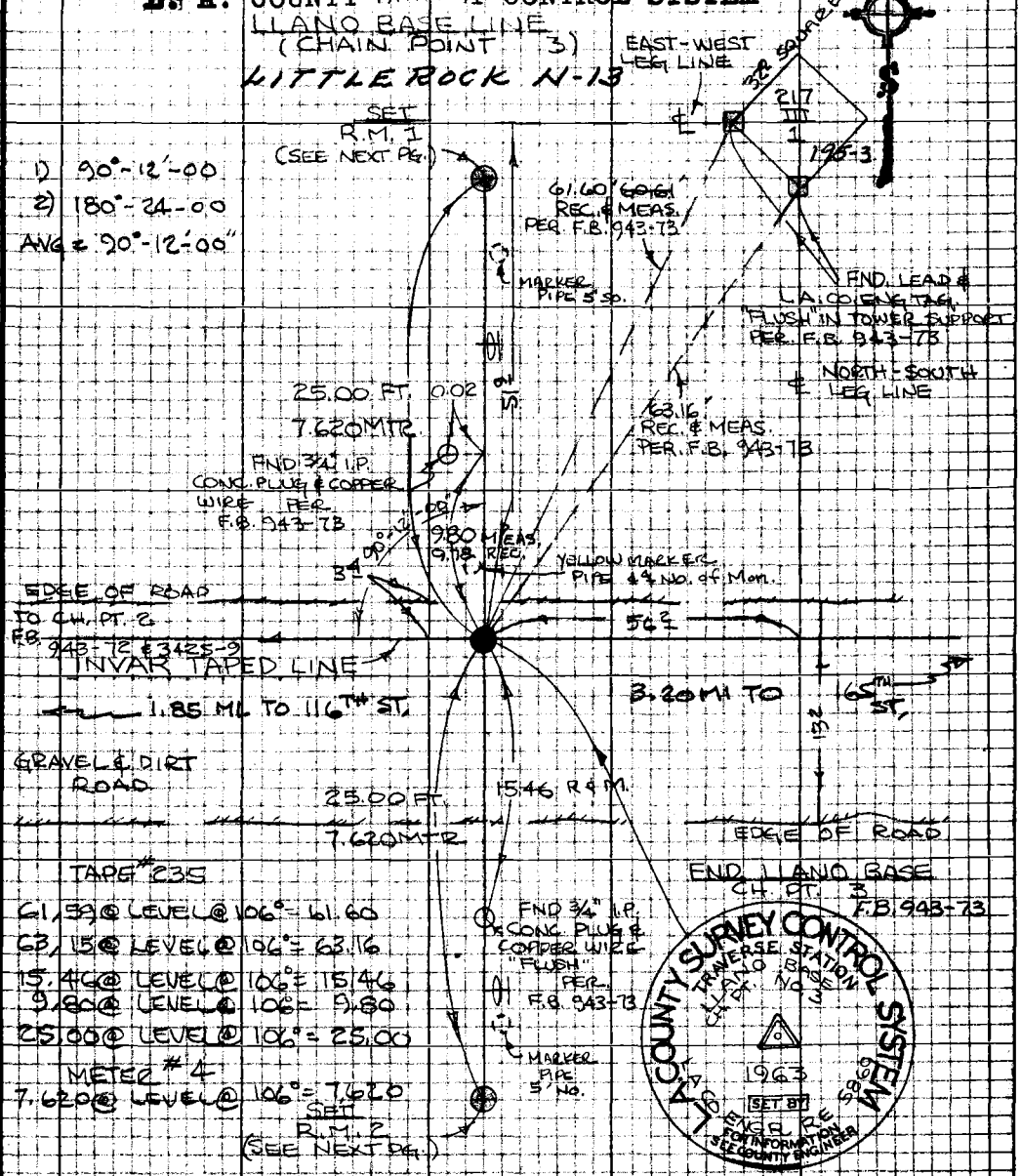
Date	Indexed C. J. GALLI

F.B. 3425 Pg. 11 ✓

L. A. COUNTY SURVEY CONTROL SYSTEM

LLANO BASE LINE
(CHAIN POINT 3)
LITTLE ROCK N-13



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Placed on Map
Placed on Sketch
Sketch on Desc. Card

7623088 CK #310 8-68

F.B. 3425 Pg. 12

L. A. COUNTY SURVEY CONTROL SYSTEM

LITTLEROCK N-13

LLANO BASE ~ CHAIN POINT Nº 3

3.2 MILES WEST OF 165TH ST. EAST ON DEPT. W.C. & D. SERVICE RD.

STATION MARK

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS TRAVERSE STATION DISC. STAMPED "LLANO BASE, CH. PT. Nº 3, 1963, L.A. CO. ENGR. R.E. 5869", DOWN 12" IN A 12"X12" CONC. PAD

F.B. 943-73

SUB SURFACE MARK

"NONE SET" OR FOUND

REFERENCE MARK Nº 1

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS REFERENCE MARK DISC. STAMPED "LLANO BASE CH. PT. 3, R.M. 1, 1967, L.A. CO. ENGR. R.E. 5869", UP 8" IN A 12" X 12" CONC. PAD.

REFERENCE MARK Nº 2

SAME AS R.M. 1 EXCEPT STAMPED "R.M. 2

DIFFERENCE IN ELEVATION

STATION	ROD	DIFFERENCE
CH. PT. 3	6.025	
R.M. 1	4.780	+ 1.245
R.M. 2	3.140	+ 2.885
CH. PT. 3	6.025	CHECK

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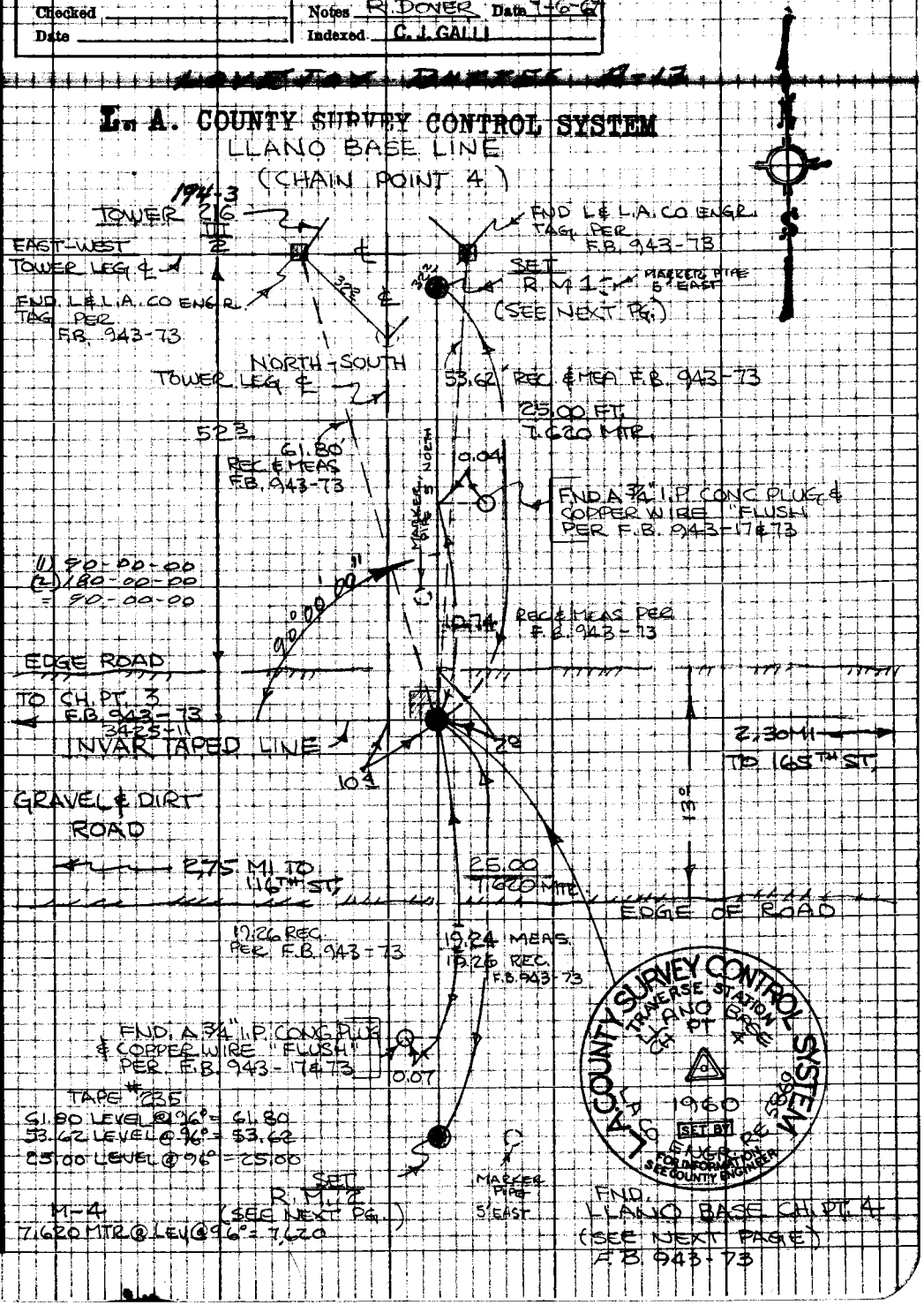
L. A. COUNTY SURVEY CONTROL SYSTEM

LLANO BASE LINE

(CHAIN POINT 4)



762008 CK #310 8-65

F.B. 3425 Pg. 19

L. A. COUNTY SURVEY CONTROL SYSTEM

LOVE TOY BUTTES A-13

LLANO BASE - CHAIN POINT Nº 4

2.30 MILES WEST OF 165TH ST. EAST ON DEPT. W. & R. SERVICE RD.

STATION MARK

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS TRAVERSE STATION DISC. STAMPED "LLANO BASE, CH. PT. 4, 1960, L.A. CO. ENGR. R.E. 5869" DOWN 12" IN A 12"X12" CONC. PAD.

F.B. 993-73

SUB SURFACE MARK

"NONE SET"

REFERENCE MARK Nº 1

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS REFERENCE MARK DISC. STAMPED "LLANO BASE, CH. PT. 4, R.M. 1, 1967, L.A. CO. ENGR. R.E. 5860" UP 8" IN A 12"X12" CONC PAD

REFERENCE MARK Nº 2

SAME AS R.M. 1 EXCEPT STAMPED "R.M. 2"

DIFFERENCE IN ELEVATION

STATION	ROD	DIFFERENCE
CH. PT. 4	6.100	
R.M. 1	4.545	+1.655
R.M. 2	3.400	+2.700
CH. PT. 4	6.100	CHECK

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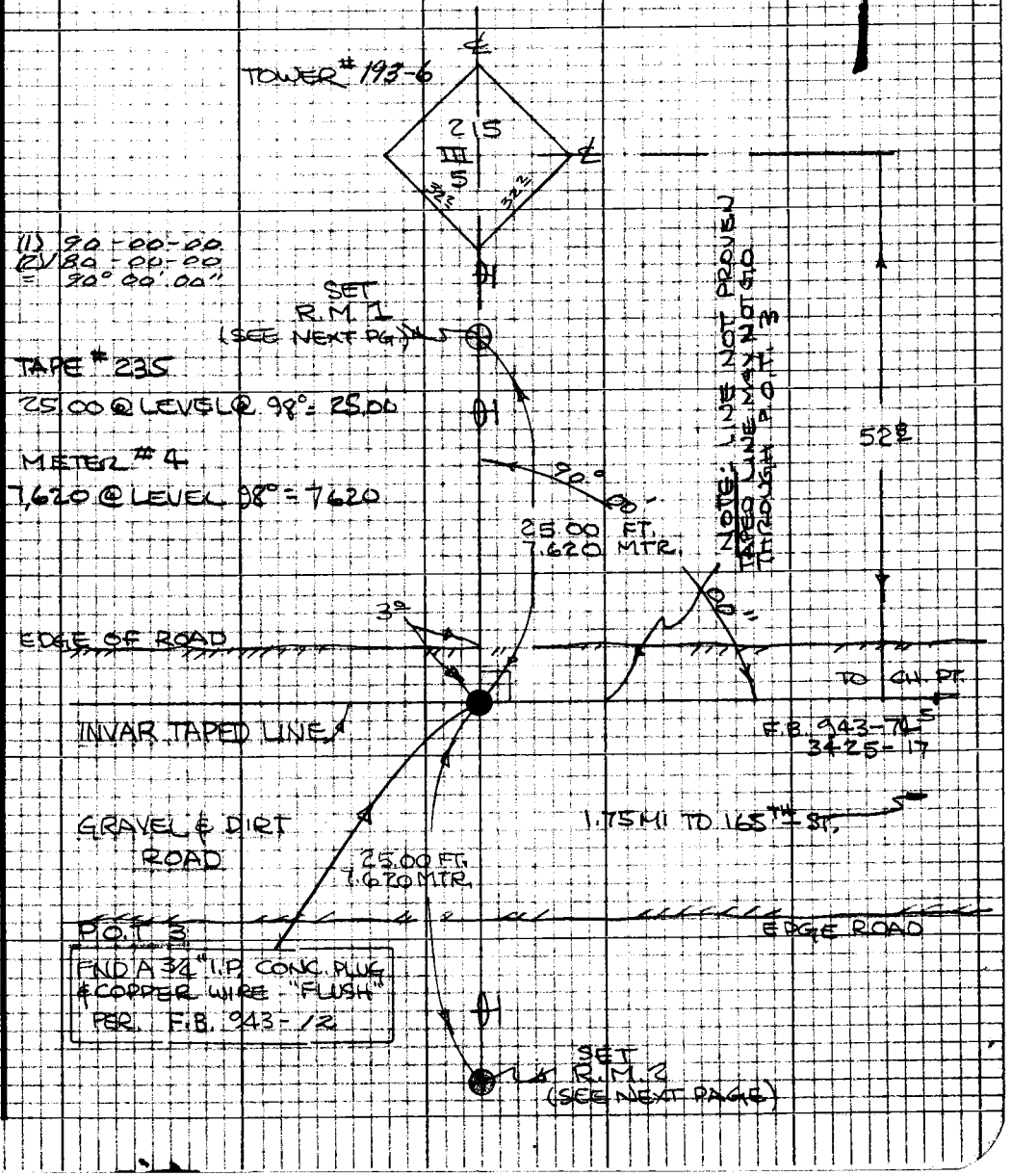
L. A. COUNTY SURVEY CONTROL SYSTEM

LLANO BASE LINE

(P.O.T. 3)



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F.B. 3425 Pg. 16

L. A. COUNTY SURVEY CONTROL SYSTEM

LLANO BASE P.O.T. 3

1.75 MILE WEST OF 165TH ST. EAST ON DEPT. W.W.P. SERVICE RD.

STATION MARK

A 3/4" I.P. CONC, CTR. & COPPER WIRE "FLUSH"

SUB SURFACE MARK

"NONE SET"

REFERENCE MARK No 1

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS REFERENCE MARK DISC. STAMPED "LLANO BASE, P.O.T. 3 RM 1 1967, L.A. CO. ENGR. R.E. 5869" UP 8" IN A 12"x12" CONC. PAD

REFERENCE MARK No 2

SAME AS R.M. 1 EXCEPT STAMPED "R.M. 2"

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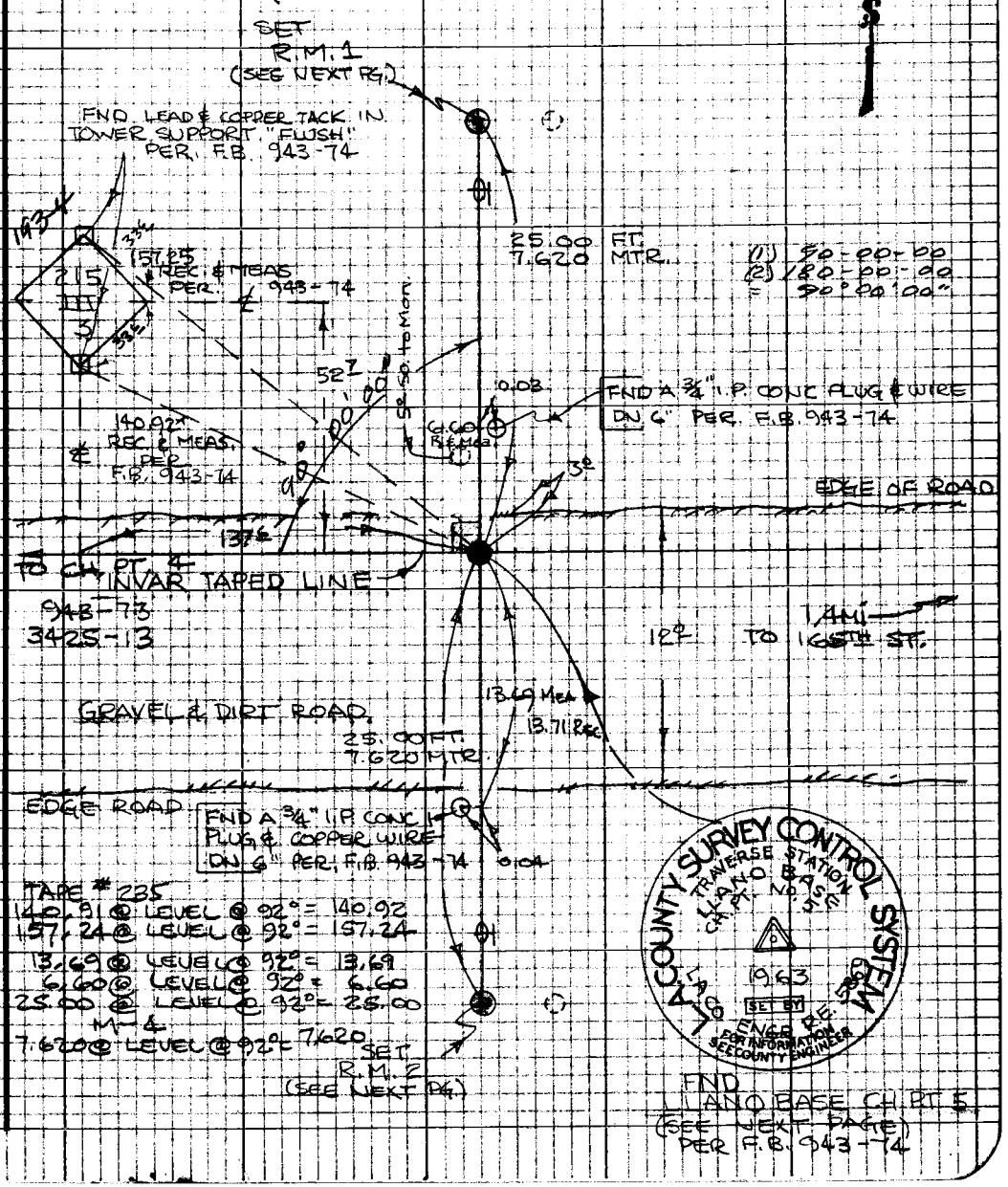
F.B. 3425 Pg. 17

L. A. COUNTY SURVEY CONTROL SYSTEM

LLANO BASE LINE

LOVEJOY BUTTES B-13

(CHAIN POINT 5)



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7B2058 CK #310 8-68

F.B. 3425 Pg. 18

LOVEJOY BUTTES B-13

L. A. COUNTY SURVEY CONTROL SYSTEM

LLANO BASE CHAIN POINT 5
1.4 MILE WEST OF 165TH ST. EAST
ON DEPT. W.W.P. SERVICE RD.

STATION MARK

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS TRAVERSE STATION DISC STAMPED "LLANO BASE, CH. PT. NO. 5, 1963, L.A. CO. ENGR."
RE 5869" DOWN 12" IN A 12"X12" CONC PAD
(1.4± W'ly of 165TH STREET EAST)

SUB SURFACE MARK

"NONE SET" OR FOUND

REFERENCE MARK Nº 1

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS REFERENCE MARK DISC STAMPED "LLANO BASE, CH. PT. 5, RM 1, 1967, L.A. CO. ENGR."
RE 5869" UP 8" IN A 12"X12" CONC. PAD.

REFERENCE MARK Nº 2

SAME AS R.M. 1 EXCEPT STAMPED "R.M. 2"

DIFFERENCE IN ELEVATION

STATION	ROD	DIFFERENCE
CH. PT. 5	5,620	
R.M. 1	4,240	+ 1,380
R.M. 2	3,470	+ 0.770
CH. PT. 5	5.620	CHECK

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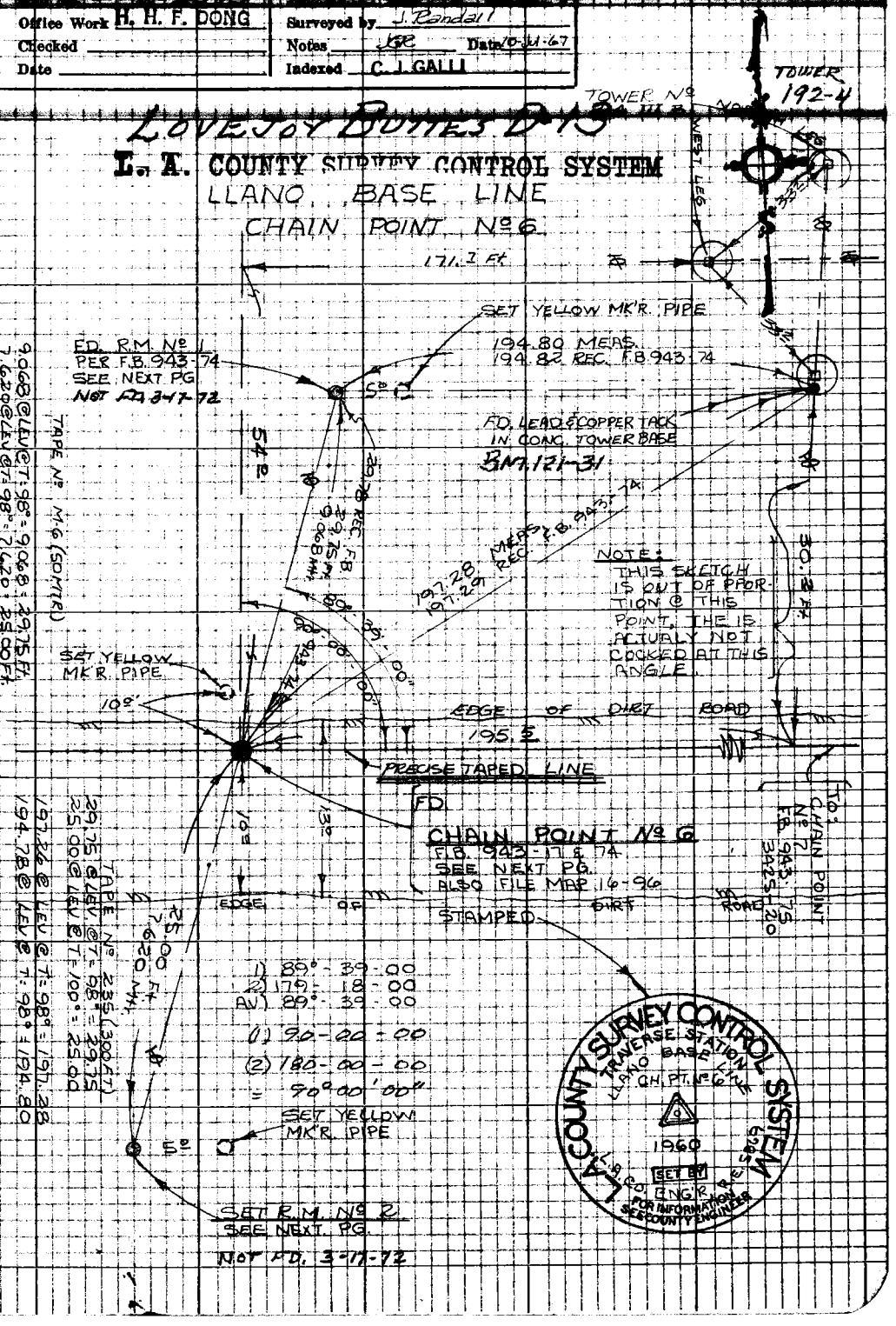
Sketch

LOVEJOY BUTTES D-15

L. A. COUNTY SURVEY CONTROL SYSTEM

LLANO BASE LINE

CHAIN POINT Nº 6



7B3008 CE #110 8-68

F.B. 3425 Pg. 20

L. A. COUNTY SURVEY CONTROL SYSTEM

LOVEJOY BUTTES D-13

LLANO BASE-CHAIN POINT Nº 6

0.5 MILE WEST OF 165th ST. E.
ON DEPT. W. & P. SERVICE RD.

STATION MARK:

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS TRAVERSE DISC., STAMPED, "LLANO BASE LINE, CH. PT. Nº 6, 1960, L.A. CO. ENG'R. R.E. 5869", DN. 12", AND IN APPROX. 12" DIA. CONC. POURED IN PLACE. F.B. 943-17 & 74

SUB-SURFACE MARK:

NONE

REFERENCE MARK Nº 1:

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS REFERENCE MARK DISC, STAMPED, "LLANO BASE LINE CH. PT. 6, R.M. Nº 1, 1960, R.E. 5869", DN. 4", AND IN A 12"x12" CONC. PAD.

REFERENCE MARK Nº 2:

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS REFERENCE MARK DISC, STAMPED, "LLANO BASE, CH. PT. 6, R.M. 2, 1967, L.A. CO. ENG'R. R.E. 5869", UP 9" AND IN A 12"x12" CONC. PAD.

DIFFERENCE IN ELEVATION

STATION	ROD	DIFFERENCE
CH. PT. 6	5.730	
R.M. 1	4.660	+ 1.070
R.M. 2	3.830	+ 1.900
CH. PT. 6	5.730	CHECK

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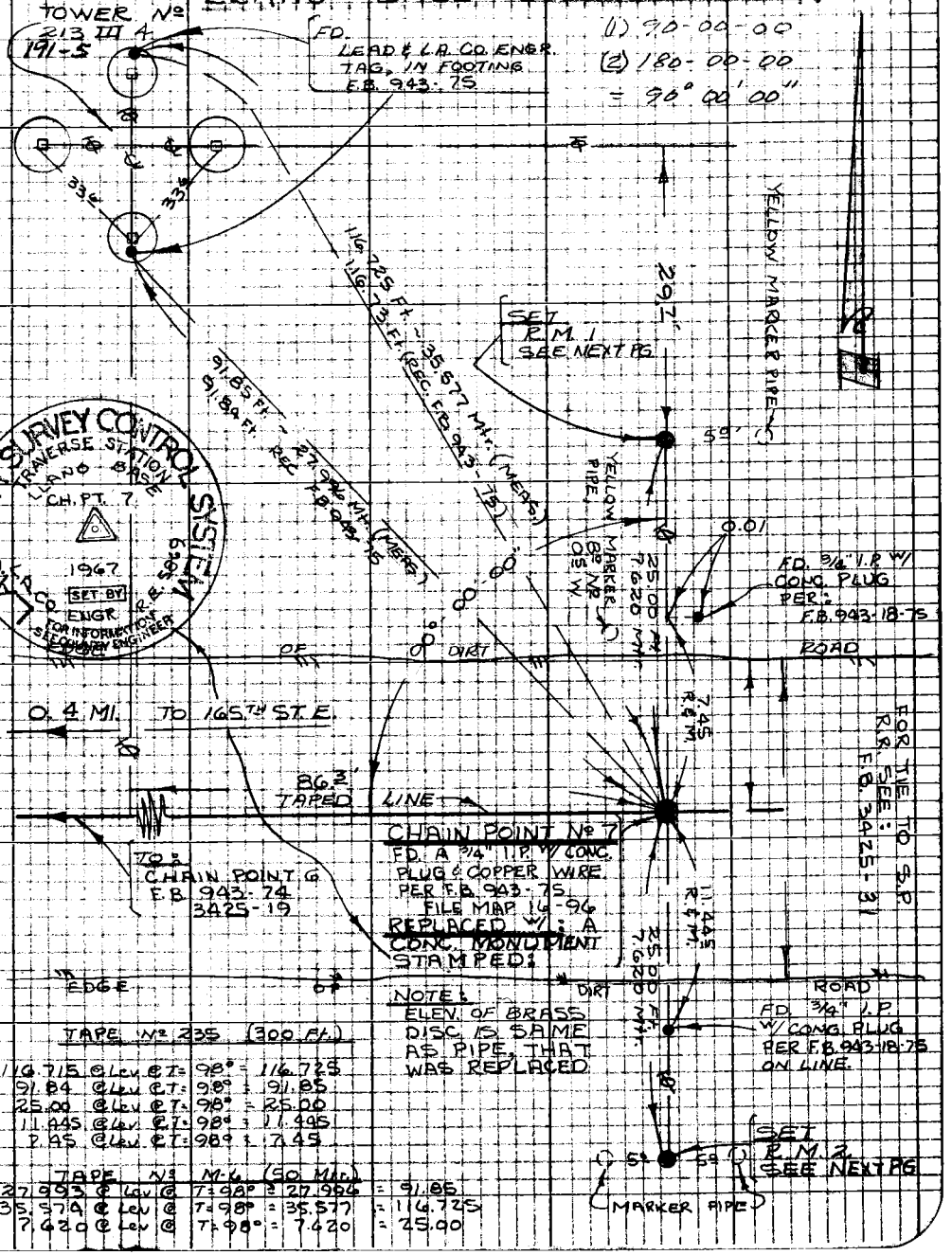
Date	Indexed C. J. GALLI

F.B. 3425 Pg. 21

L.A. COUNTY SURVEY CONTROL SYSTEM
LOVELAND BUTTES F-73
LLANO BASE ~ CHAIN POINT Nº 7



TAPE Nº 235 (300 Ft.)

116.715	@ Lev @ T: 98°	=	116.725
91.84	@ Lev @ T: 98°	=	91.85
25.00	@ Lev @ T: 98°	=	25.00
11.445	@ Lev @ T: 98°	=	11.445
7.45	@ Lev @ T: 98°	=	7.45

TAPE Nº Mt. (90 Mt.)

27.993	@ Lev @ T: 98°	=	27.994	= 91.85
35.579	@ Lev @ T: 98°	=	35.577	= 116.725
7.620	@ Lev @ T: 98°	=	7.620	= 25.00

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Placed
Sketch on Back

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

7B2055 CR #310 8-68

F.B. 3425 Pg. 22 LOVEJOY BUTTES F-13

L.A. CO. SURVEY CONTROL SYSTEM

LLANO BASE - CHAIN POINT Nº 7

0.4 MI. EAST OF 165TH ST. EAST.
ON DEPT. W. & P. SERVICE RD.

STATION MARK:

A 4" L.A. CO. SURVEY CONT. SYSTEM BRASS TRAVERSE DISC, STAMPED "LLANO BASE, CH. PT. 7, 1967, L.A. CO. ENGR., R.E. 5869", DN. 18", AND IN APPROX. 12" DIA. CONC., POURED IN PLACE. ELEV. IS IDENTICAL TO PIPE THAT WAS REPLACED. F.B. 943-18 & 75

SUB-SURFACE MARK:

NONE:

REFERENCE MARK Nº 1:

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS REFERENCE MARK DISC, STAMPED "LLANO BASE, CH. PT. 7, R.M. 1, 1967, L.A. CO. ENGR. R.E. 5869", UP 9" & IN A 12" x 12" CONC. PAD.

REFERENCE MARK Nº 2:

IDENTICAL TO R.M. 1, EXCEPT STAMPED "R.M. 2".

DIFFERENCE IN ELEVATION

STATION	ROD	DIFFERENCE
CH. PT. 7	6.380	
R.M. 1	4.445	+ 1.935
R.M. 2	3.590	+ 2.790
CH. PT. 7	6.380	CHECK

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403 LOS ANGELES COUNTY ENGINEERING BLDG.
Do not extend this side of this line.
Note: Any Additions or Changes on this Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

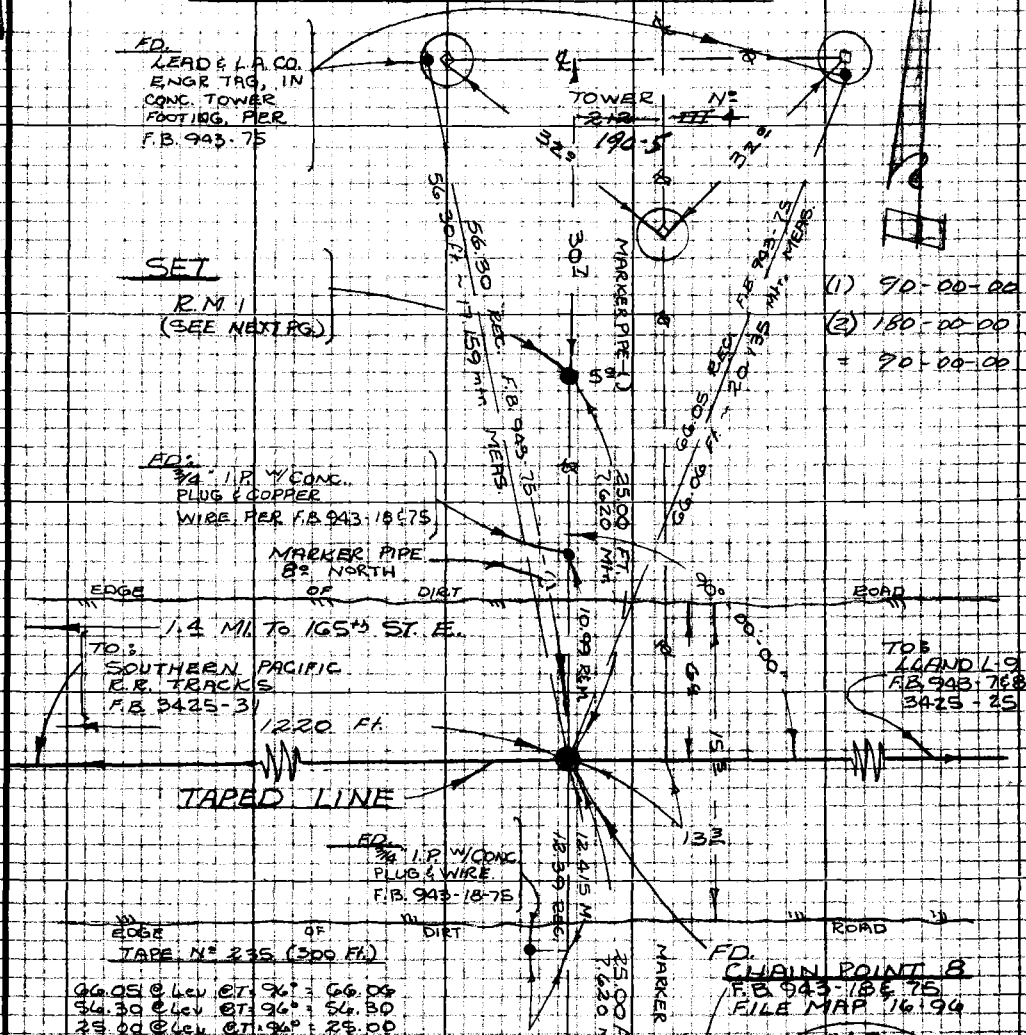
Notes Ck'd by	Survey of Llano Base Line
Office Work H. H. F. DONG	Surveyed by J. G. RANDALL
Checked	Notes J.G.R. Date 11-Jul-67
Date	Indexed C. J. GALLI

F.B. 3425 Pg. 23

Longitude Bearing 14-13

L.A. CO. SURVEY CONTROL SYSTEM

LLANO BASE ~ CHAIN POINT Nº 8



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405 LOS ANGELES COUNTY ENGINEERING BLDG.

Notice: Any Information Found on this Place Plotted on G.S. Land S.P. Sketch on Back Card.

7P2328 CK #310 8-68

F.B. 342S Pg. 24

L.A. CO. SURVEY CONTROL SYSTEM

LLANO BASE ~ CHAIN POINT Nº 8

LOVEJOY BUTTES H-13

1.4 MILES EAST OF 165th ST. EAST

ON DEPT. W.&P. SERVICE RD.

STATION MARK:

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS TRAVERSE DISC, STAMPED, "LLANO BASE LINE, CH. PT. Nº 8, 1960, L.A. CO. ENGR. RE 5869", DN 18", AND APPROX. 12" DIA. CONC., POURED IN PLACE. F.B. 943-18&75

SUB-SURFACE MARK:

NONE

REFERENCE MARK Nº 1:

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS REFERENCE MARK DISC, STAMPED, "LLANO BASE, CH. PT. 8, RM 1, 1967, L.A. CO. ENGR. RE 5869, UP 9" AND IN A 12"x12" CONC. PAD.

REFERENCE MARK Nº 2:

IDENTICAL TO R.M. 1 EXCEPT STAMPED, "RM 2".

DIFFERENCE IN ELEVATION

STATION	ROD	DIFFERENCE
CH. PT. 8	6.335	
R.M. 1	3.930	+ 2.405
R.M. 2	3.450	+ 2.885
CH. PT. 8	6.335	CHECK

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78P3098 CE #310 8-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Filed on Reg... Record
Placed ... Field Bks.
Placed ... W.S. No.
Sketch on Re... Card

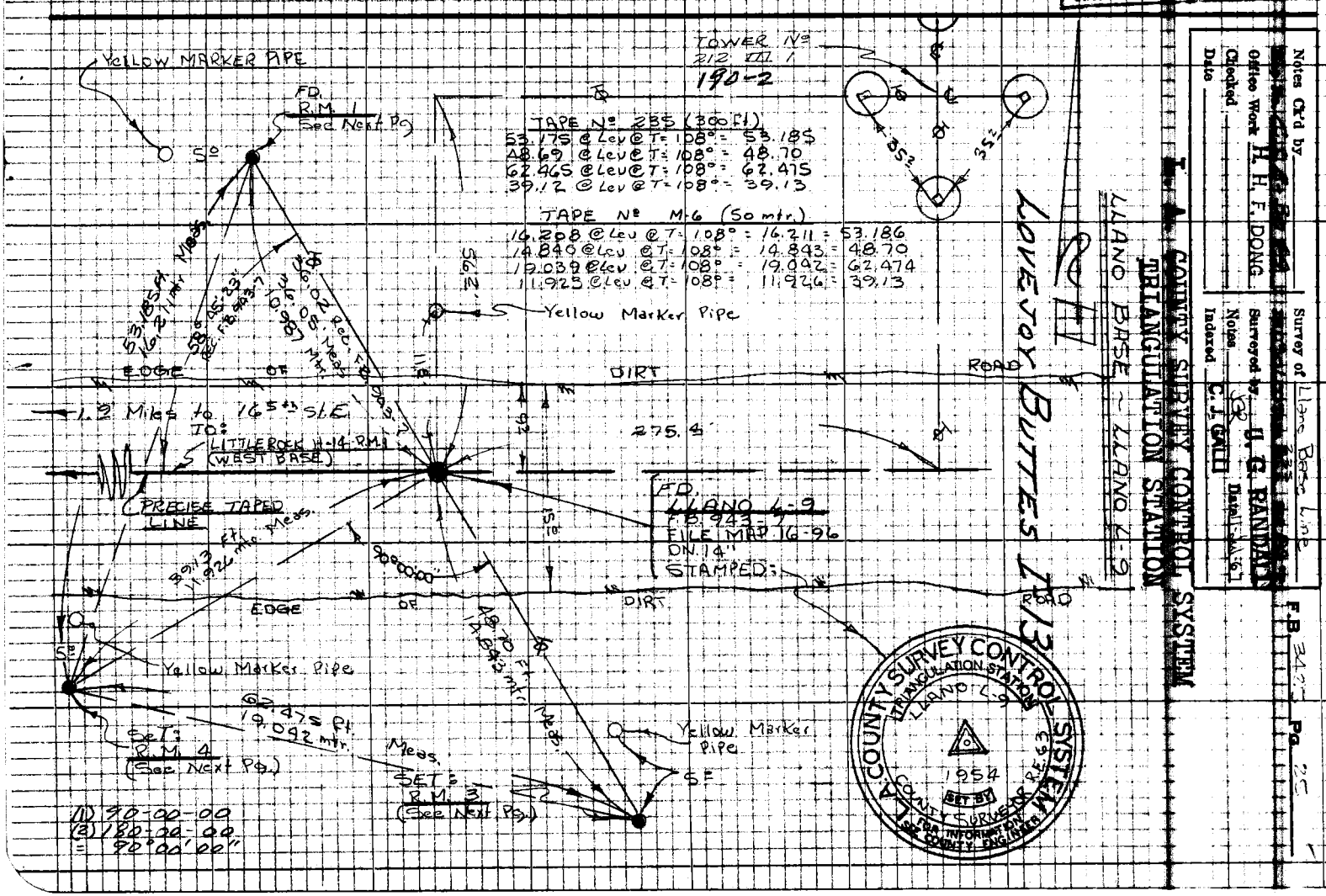
Notes Ck'd by
Office Work H. H. F. DONG
Checked
Date

Survey of Llano Base Line
Surveyed by U. G. RANDALL
Notes
Indexed C. J. GILL Date 1-14-67

F.B. 3422 Pg. 25

COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LLANO BASE ~ LLANO 4-9

LOVE TOY BUTTES 1/13



F.B. 3425 Pg. 26

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LLANO L-9
LOVEJOY BUTTES I-13
L.9 MILES ~~WEST~~ EAST OF 165TH ST. E.
ON DEPT. W.W.P. SERVICE R.D.

STATION MARK:

A 4" L.A. COUNTY SURVEY CONTROL SYSTEM BRASS TRIANGULATION DISC, STAMPED, "LLANO L-9, 1954, COUNTY SURVEYOR R.E. 63", DN 14", AND IN APPROX 12" DIA. CONC., POURED IN PLACE. F.B. 943-7&8

SUB-SURFACE MARK:

NONE.

REFERENCE MARK Nº 1:

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS REFERENCE MARK DISC, STAMPED "LLANO L-9, R.M. Nº 1, 1954 COUNTY SURVEYOR R.E. 63", UP 5" & IN A 12"x12" CONC. PAD.

REFERENCE MARK Nº 3:

A 4" L.A. CO SUR. CONT. SYSTEM BRASS REFERENCE MARK DISC, STAMPED "LLANO L-9, R.M. 3, 1967, L.A. CO ENGR. R.E. 5869", UP 9" AND IN A 12"x12" CONC. PAD.

REFERENCE MARK Nº 4:

IDENTICAL TO R.M. 3 EXCEPT STAMPED, "R.M. 4".

DIFFERENCE IN ELEVATION

STATION	ROD	DIFFERENCE
LLANO L-9	5.625	
R.M. 1	3.920	+ 1.705
R.M. 3	2.740	+ 2.885
R.M. 4	2.960	+ 2.665
LLANO L-9	5.625	CHECK

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403 LOS ANGELES COUNTY ENGINEERING BLDG.
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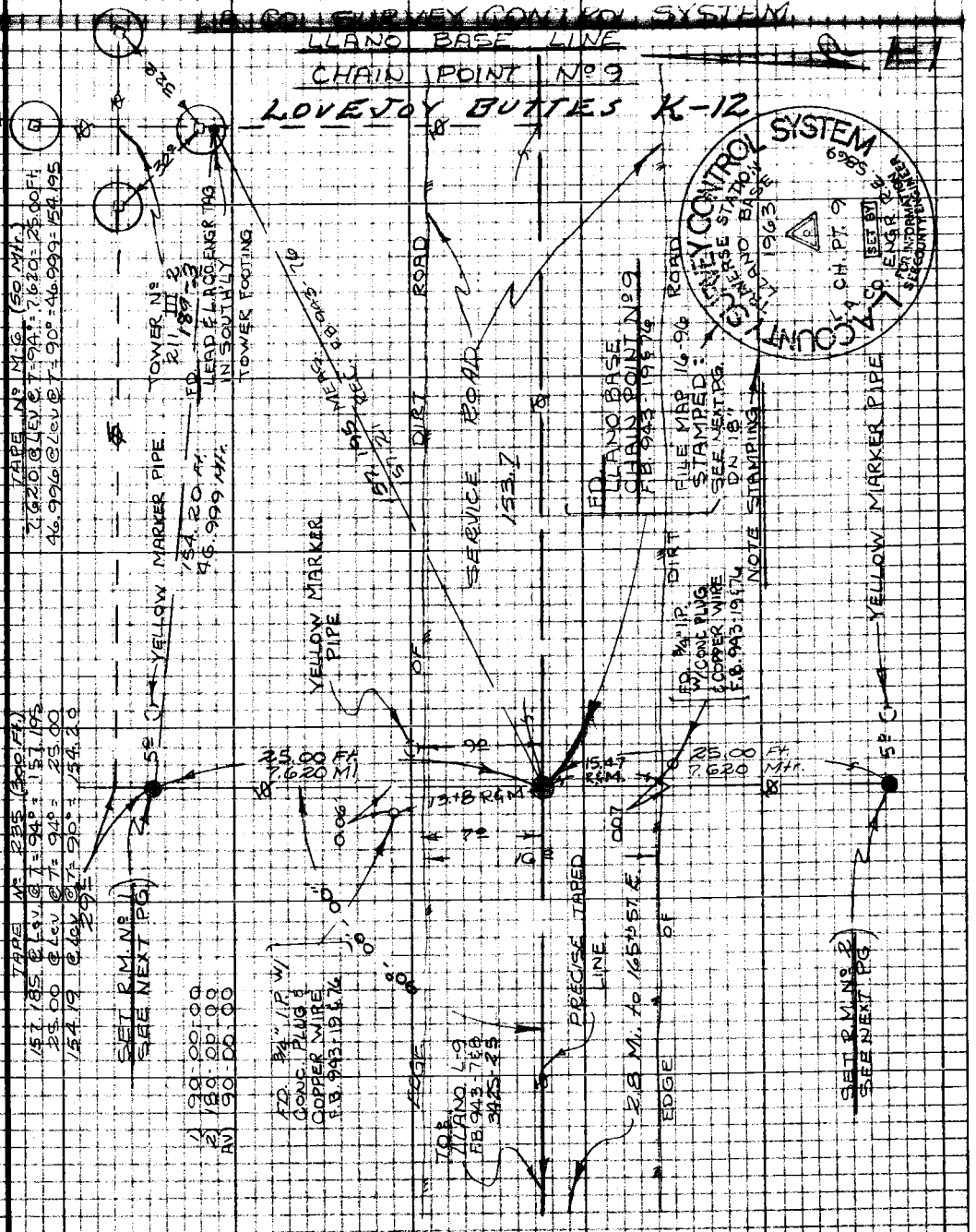
Notes Ck'd by		Survey of LLANO BASE LINE	F.B. 3425 Pg. 27 ✓
Office Work H. H. F. DONG		Surveyed by J. Randall	
Checked		Notes JER Date 12-Jul-67	
Date		Indexed C. J. GALLI	

LA CO. SURVEY CONTROL SYSTEM

LLANO BASE LINE

CHAIN POINT No 9

LOVEJOY BUTTES K-12



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

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

Plan
Placed on Sky Div. W.S.M.
Sketch on Sky Desc. Card

76P3095 CK #310 5-66

F.B. 3425 Pg. 28 LOVEJOY BUTTES K-12

L.A. CO. SURVEY CONTROL SYSTEM

LLANO BASE CHAIN POINT Nº 9

2.8 MILES EAST OF 165th ST. E.

ON DEPT. W.&P. SERVICE RD.

STATION MARK:

A 4" L.A. CO. SUR. CONT. SYSTEM. BRASS TRAVERSE DISC, STAMPED, "LLANO BASE, 1963, CH. PT. 9, L.A. CO. ENG'R. R.E. 5869", DN. 18", AND IN APPROX. 12" DIA. CONC., POURED IN PLACE. F.B 943: 76

SUB-SURFACE MARK:

NONE

REFERENCE MARK Nº 1:

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS REFERENCE MARK DISC, STAMPED, "LLANO BASE, CH. PT. 9, R.M. 1, 1967, L.A. CO. ENG'R. R.E. 5869", UP 9", AND IN A 12" x 12" CONC. PAD.

REFERENCE MARK Nº 2:

IDENTICAL TO R.M. 1, EXCEPT STAMPED, "R.M. 2".

DIFFERENCE IN ELEVATION

STATION	ROD	DIFFERENCE
CH. PT. 9	6.265	
R.M. 1	3.990	+ 2.275
R.M. 2	2.920	+ 3.345
CH. PT. 9	6.265	CHECK

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403 LOS ANGELES COUNTY ENGINEERING BLDG.
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Notes Ck'd by		Survey of LLANO BASE LINE	F.B. 3425 Pg. 29
Map No. [illegible]		[illegible]	
Office Work H. H. F. DONG		Surveyed by J. Randall	
Checked		Notes JGR Date 14 Jul 67	
Date		Indexed C. J. GALLI	

8522
8478

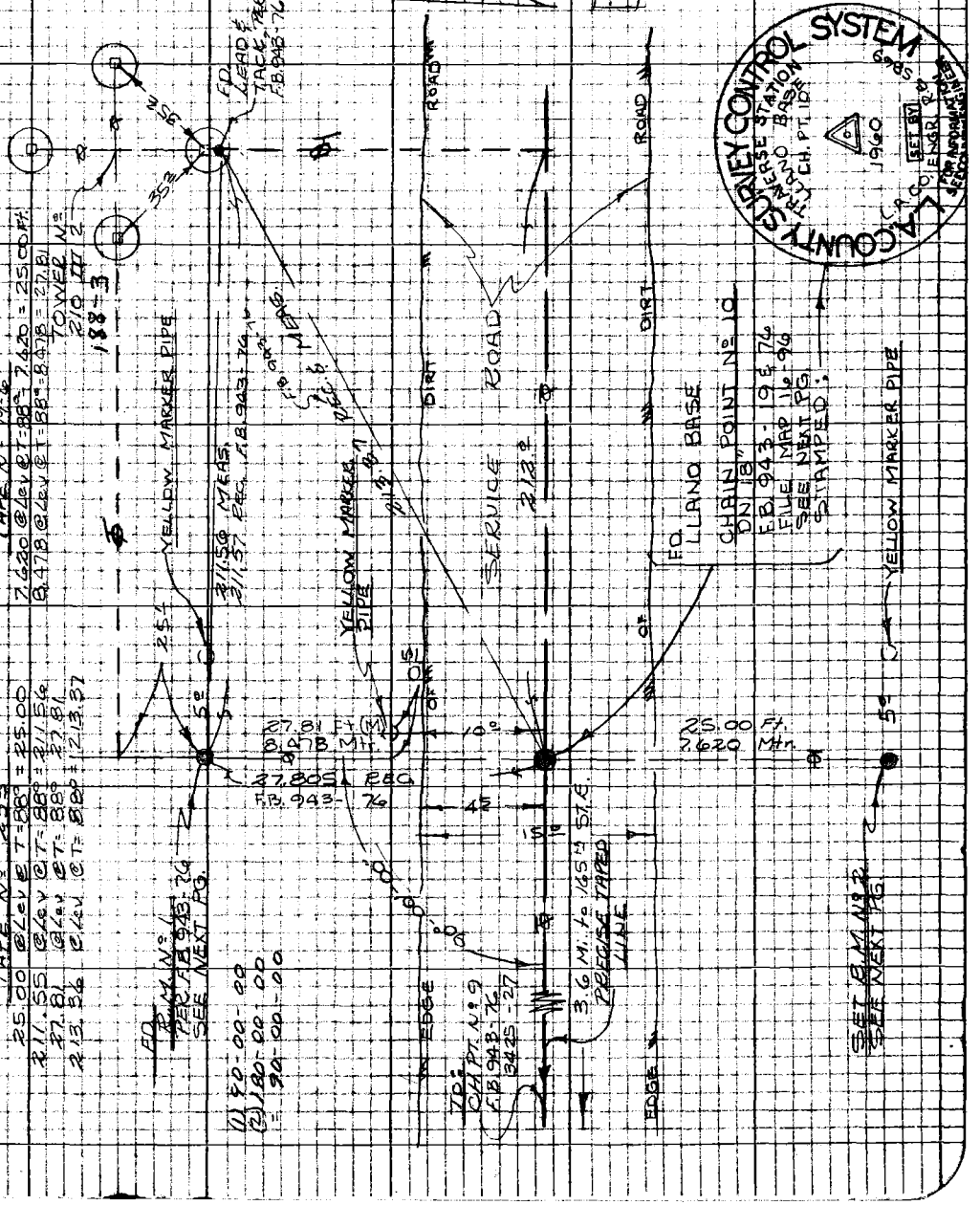
Noted on Geo. Index Card
Plan [illegible] U.S. Quad. Sht.
Plan [illegible] Div. W. S. No.
Sketch on Geo. Desc. Card

LA COUNTY SURVEY CONTROL SYSTEM

LOVEJOY BUTTES M-12

LLANO BASE LINE

CHAIN POINT No 10



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

Do not extend this side of this line.

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403 Los Angeles County Engineering Bldg.

76P3098 CE #310 5-66

F.B. 3425 Pg. 30

L.A. COUNTY SURVEY CONTROL SYSTEM

LLANO BASE-CHAIN POINT Nº 10

LOVEJOY BUTTES M-12

3.6 MILES EAST OF 165TH ST. E.

ON DEPT. OF WATER & POWER SERVICE ROAD

STATION MARK:

A 4" L.A. CO. SURVEY CONT. SYSTEM BRASS TRAVERSE DISC, STAMPED "LLANO BASE, CH. PT. 10, 1960, L.A.CO. ENGR. R.E. 5869", ON 18", AND IN APPROX. 12" dia. Conc., POURED IN PLACE. SEE F.B. 943-76

SUB-SURFACE MARK:

NONE

REFERENCE MARK Nº 1:

A 4" L.A.CO. SUR. CONT. SYSTEM BRASS REFERENCE MARK DISC, STAMPED "LLANO BASE, CH. PT. 10, R.M. Nº 1 1960, R.E. 5869", UP 9" IN A 12" x 12" CONC. PAD.

REFERENCE MARK Nº 2:

IDENTICAL TO R.M. 1, EXCEPT STAMPED, "LLANO BASE, CH. PT. 10, R.M. 2, 1967, L.A.CO. ENGR RE 5869".

DIFFERENCE IN ELEVATION

STATION	ROD	DIFFERENCE
CH. PT. 10	5.950	
R.M. 1	4.165	+1.785
R.M. 2	2.980	+2.970
CH. PT. 10	5.950	CHECK

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Notes Ck'd by		Survey of Llano Base Line	F.B. 3425 Pg. 31
[illegible]		[illegible]	
Office Work H. H. F. DONG		Surveyed by L. G. RANDALL	
Checked		Notes JGR Date 19-Jul-67	
Date		Indexed C. J. GALLI	

Noted on Sec. Sheet Card
Placed [illegible] Sheet Card
Placed [illegible] Div. W.S. No.
Sketch on Cont. Desc. Card

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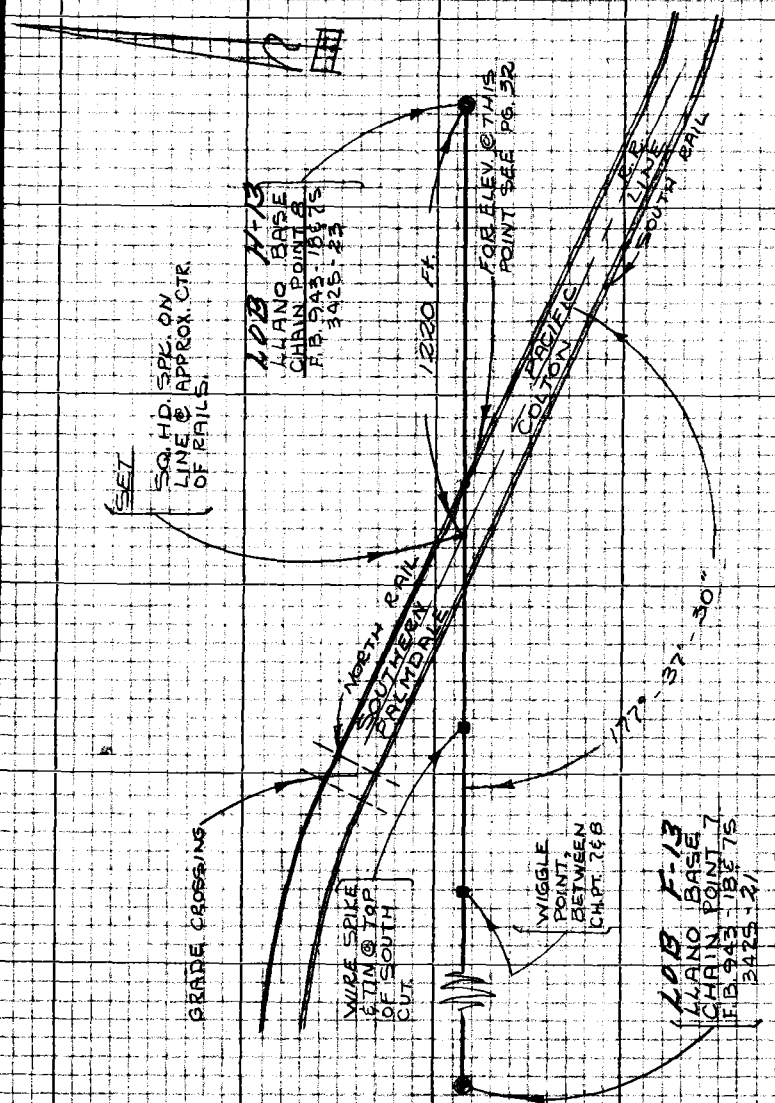
LLANO BASE LINE

TIE TO

SOUTHERN PACIFIC RAILROAD

PALMDALE ~ COLTON LINE



76P3098 CE #310 8-66

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ELEVATION (ASSUMED) ON NORTH RAIL
SOUTHERN PACIFIC RAILROAD
PALMDALE - COLTON LINE

STATION	B.S. (+)	H.I.	F.S. (-)	ELEV.	REMARKS
C.H. PT. Nº 8				2000.000	B.M. ASSUMED 2000.000 FT. ELEV. ON CH PT. 8 F.B. 943 - 18 & 75 3425.
⊼	6.125	2006.125			
T.P.			6.450	1999.675	T.P.
⊼	5.010	2004.685			
T.P.			1.320	2003.365	T.P.
⊼	5.190	2008.555			
			3.2	2005.4	TOP OF NORTH CUT
T.P.			10.550	1998.005	T.P.
⊼	2.710	2000.715			
			5.7	1995.0	BOT OF NORTH CUT
T.B.M.			3.680	1997.035	T.B.M. TOP OF NORTH RAIL @ INTERSECTION W/ ⊼ LINE
		RETURN			
T.B.M.				1997.035	T.B.M. SEE ABOVE
⊼	10.530	2007.565			
T.P.			3.410	2004.155	T.P.
⊼	0.770	2004.925			
T.P.			5.290	1999.635	T.P.
⊼	7.280	2006.915			
CH PT. Nº 8			6.930	1999.985	B.M. CH. PT. Nº 8, See ABOVE FOR DESC.

F.B. 3425 Pg. 32

Notes Ck'd by	Survey of Aland Base	F. B. 3495 Pg. 53
Office Work	Surveyed by HPH	
Checked	Notes HPH Date AUG 65	
Date	Indexed H. E. On AUG 2 2 68	

PROFILE ON ALAND BASE

BETWEEN CH. PT. 1 & CH. PT 2
Profile over Calif. Aqueduct.
J.N. 0301.00

PARTY:
HUBBARD
HILL
VAN HORN

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3095 CE#310 1-65

F. B. 3425 PG 34

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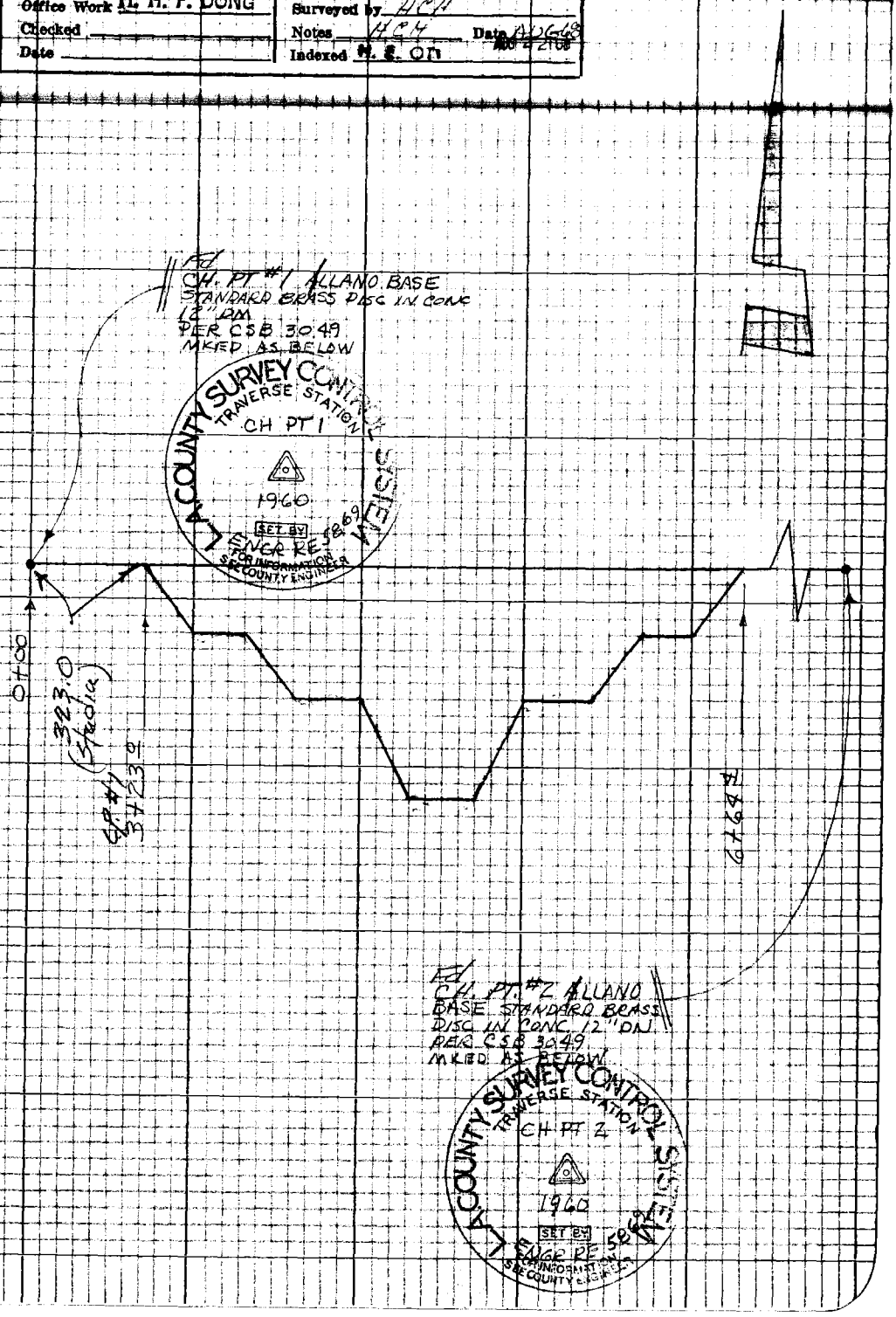
Notes Ck'd by	Survey of Llano Base	F.B. 2405 Pg. 35
[illegible] CSB 3049	[illegible]	
Office Work H. H. F. DONG	Surveyed by HCH	
Checked	Notes HCH Date AUG 68	
Date	Indexed H. E. On	



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403 LOS ANGELES COUNTY ENGINEERING BLDG.

7SP3098 CK #310 8-68

F.B. 3425 Pg. 36

POINT		H.I	SLOPE DIS	VERT ANGLE	HOR DIS	VERT DIS	ROD	PLUS	ELEV.
CH. PT. #1	⊼	5.8						0+00	2994.50
TOP CUT			323'	-00° 53'	323.0	4.8	5.8	3+23	2989.7
"	⊼	5°						3+23	2989.7
BOT SLOPE			48	-24° 04'	43.8	19.6	5.0	3+66.8	2970.1
TOP "			69	-16° 45'	66.1	19.9	"	3+89.1	2969.8
BOT "			127	-20° 20'	119.1	44.1	"	4+42.1	2945.6
TOP "			172	-14° 38'	166.4	43.5	"	4+89.4	2946.2
"	⊼	5.0						4+89.4	2946.2
BOT SLOPE			50	-26° 15'	44.8	22.1	5.0	5+34.2	2924.1
BOT "			66	-19° 05'	62.4	21.6	"	5+51.8	2924.6
TOP "					107		"	5+96.4	2946.2
BOT "					152		6.0	6+41.4	2945.2
TOP "			209	+5° 23'	208.1	19.6	5.0	6+97.5	2965.8
BOT "			229	+4° 52'	228.2	19.4	"	7+17.6	2965.6
TOP CUT			278	+8° 25'	275.0	40.7	"	7+64.4	2986.9

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F. B. 345 PG. 27

Profile No. | Notes Red | Plotted | Job No. 0301.00 | Division No. 1
Date | Date | Survey of Llano Base
X-Sec. No. | Notes Chk'd. | Checked | Survey by | Notes | Date
Date | Date | Map No. | Indexed M. E. C. | Date 2 2 68

J.N. 0301.00
Llano Base Line
Bench Levels over Line
for Control for Profile
over California Water
Channel at Pearblossom.
Aug. 68

Hubbard
Hill
Van Horn.

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

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

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76-L-298 CE 307 5-66

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Profile No. ____ X-Sec. No. ____
Plotted ____ Date ____
Notes Red ____ Date ____
Notes Chk'd. ____ Date ____
Division No. ____
Job No. ____
Notes ____ Date ____
Survey of ____
Survey by ____
Indexed ____
F. B. 3425 PG. 38

STATION	B. S.	H. I.	F. S.	ELEV.		
BM. 106-27				3019.49	Fd BM. 106-27 ELEV. 3019.493 E. OF LITTLE ROCK ON 116TH ST. E 0.55 MI. SO. OF AVE U-8 4.4 FT W. OF ℄ OF 116TH ST. E. -10 UP 8" CONC POST. USC&GS STANDARD DISC. STAMPED "J-306 1935"	F.B. 2418-34
	1.49	3020.98				
T.P.			9.29	3011.69		
	2.00	3013.69				
TP			11.28	3002.41		
	2.26	3004.67				
B.M. CH. PT #1			10.17	2994.50	Fd BM. CH. PT #1 ELEV.	F.B. 3425-35
	1.72	2996.22				
7+64 ±			9.40	2986.82	TOP OF CUT	
	9.57	2996.39				
B.M. CH PT #1			1.89	2994.50	Fd BM CH. PT #1 ELEV.	F.B. 3425-35
	9.88	3004.38				
T.P.			2.99	3001.39		
	11.36	3012.75				
TP			1.52	3011.23		
	10.88	3022.11				
BM 106-27			2.61	3019.50	Fd BM 106-27 ELEV. 3019.493	F.B. 2418-34

Notes Ck'd by	Survey of LLANO BASE LINE
Map No.	Surveyed by R.C. BOWERS
Office Work	Notes RCB Date 7/1/71
Checked	Indexed E. J. GALLI SEP 7 71
Date	

F. B. 3425 PG. 37

LLANO BASE

LOCATION OF TRIANGULATION

BASE LINES BETWEEN
CHAINING POINT Nº 1 - AUX 1
AND
CHAINING POINT Nº 2
ACROSS
THE
D.W.R. AQUEDUCT

J.N. 0301.00

JULY 1971

REF.	PARTY
F.B. 3425	BOWERS
C.S.B-3049	JONES
	COCKERHAM
	MUNOZ
	WENSEL

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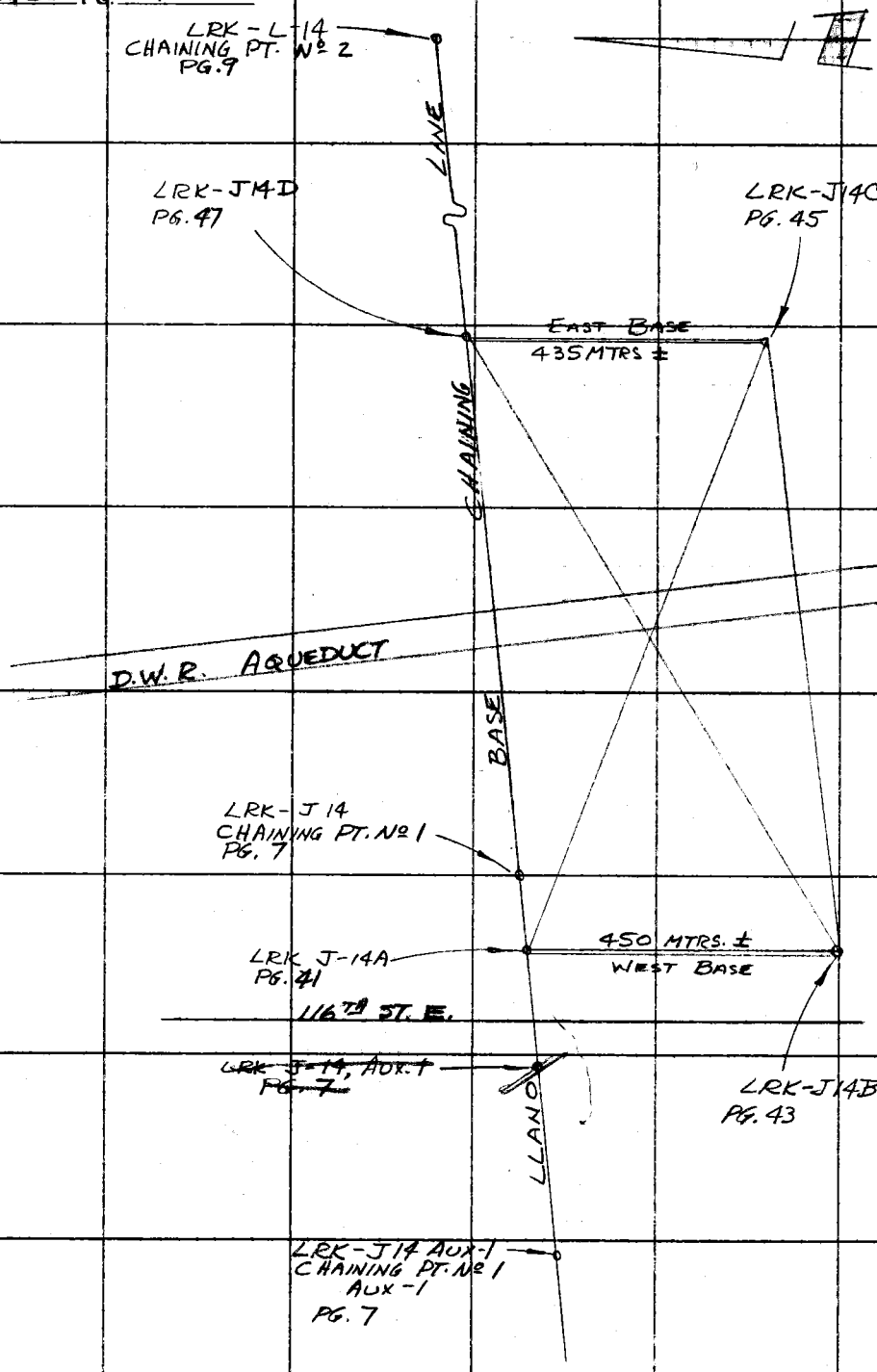
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-69

F. B. 3425 PG. 40



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COUNTY OF LOS ANGELES
DEPARTMENT OF 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.

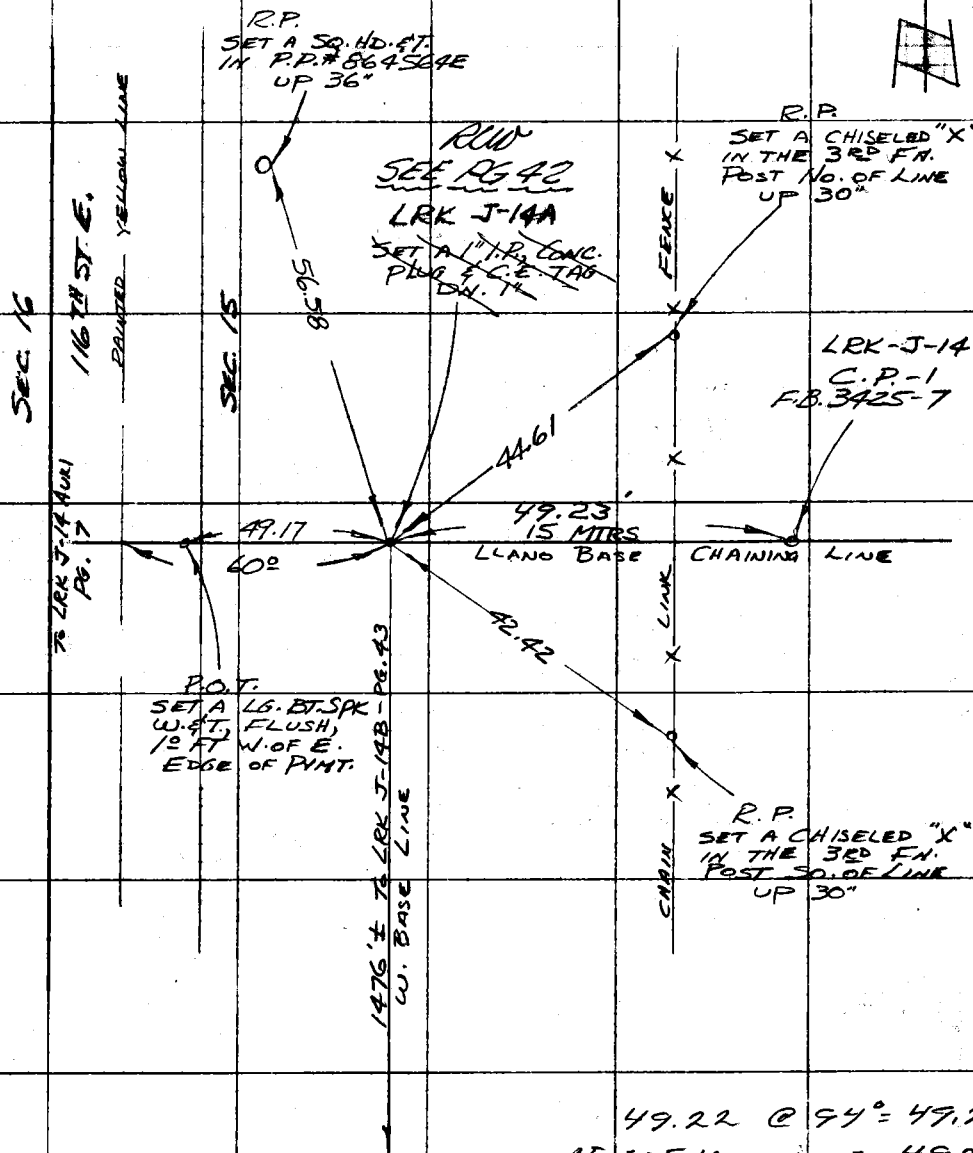
Notes Ck'd by	Survey of LLANO BASE LINE
Office Work	Surveyed by R.C. BOGUERES
Checked	Notes RCB Date 7/4/71
Date	Indexed C. J. GALLI

F. B 3425 PG. 41

LOS ANGELES COUNTY SURVEY CONTROL SYSTEM

LRK-J-14A

LLANO BASE LINE



49.22 @ 94° = 49.23

15.005 M " = 49.23

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

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

76F309S CE#310 3-69

F. B. 3425 PG. 42

LOS ANGELES COUNTY SURVEY CONTROL SYSTEM

LLANO BASE LINE

LITTLE ROCK J-14 A

ROUTE: 15 METERS WEST OF ORIGINAL CHAIN PT. 1 AT 116TH ST. E. ON DEPT. W. & P. SERVICE RD.

STATION MARK: ~~A 1" I.P., CONC. PLUG. & C.E. TAG., DN. 1"~~ SEE BELOW RLW

SUBSURFACE MARK: NONE

REF. POINTS: 56.58' N.W. TO A SQ. HD. & T. IN P.P. # 864564E.
44.61' N.E. TO 3RD FN. POST NO. OF LINE.
42.42' S.E. TO " " " SO. " "
49.17' W. TO BOAT SPK. W. & T., 1° W. OF E. EDGE OF PVMT.
60° W. TO PAINTED YELLOW LINE ON 116TH ST. E.

STA MARK REPLACED 1" IP WITH L.A. CO. SUR. CONT. SYS. 4" BRASS TRAV. DISC STAMPED "LITTLE ROCK J14A 1971 RE7078" DN. 0.54' LOWER THAN 1" IP & PROTECTED BY CAST IRON COVER. JULY 22, 1971
RLWilson

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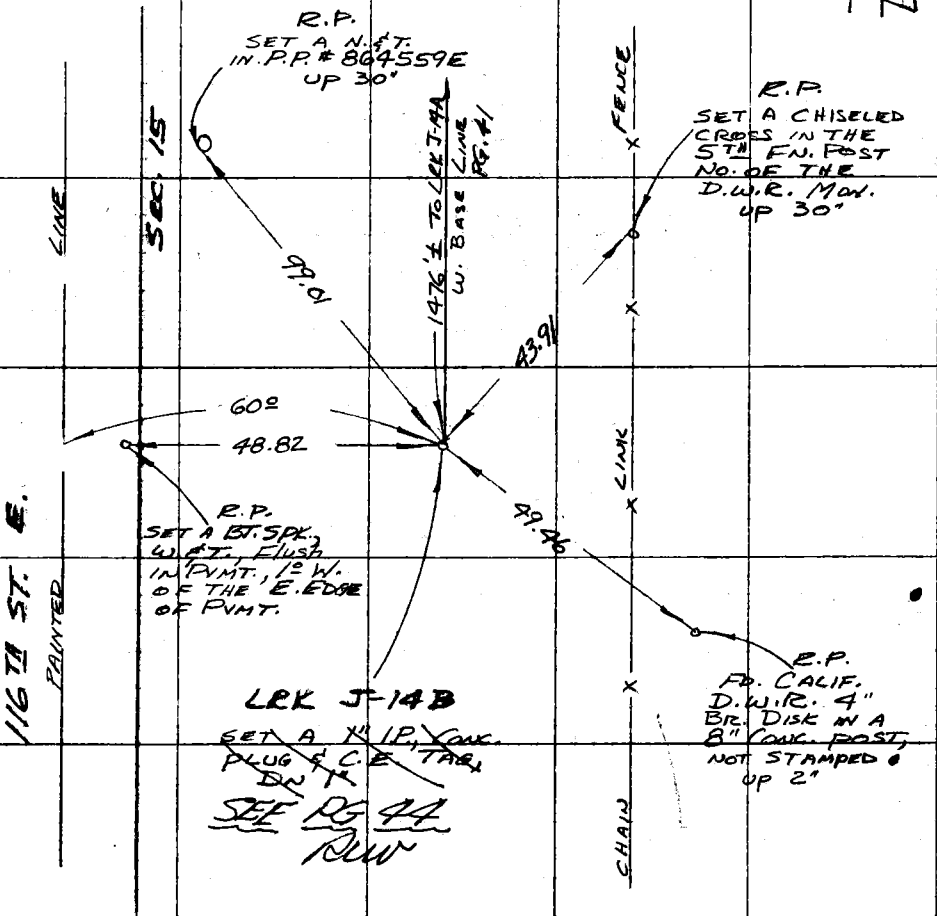
Notes Ck'd by	Survey of LLANO BASE LINE
Map No.	[redacted]
Office Work	Surveyed by R.C. BOWERS
Checked	Notes RCB Date 7-1-71
Date	Indexed C. J. GALL 7 '71

F. B. 3425 PG. 43

LOS ANGELES COUNTY SURVEY CONTROL SYSTEM
LLANO BASE LINE
LITTLEROCK J 14 B



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76F309S CE#310 3-69

F. B. 3425 PG. 44

LOS ANGELES COUNTY SURVEY CONTROL SYSTEM

LLANO BASE LINE

LITTLEROCK J-14 B

ROUTE: 1,476 FT SO. & 60 FT. EAST OF 116TH ST. E. & D.W.&P. SERVICE RD.

STATION MARK: ~~A 1" I.P. CONC. PLUG & C.E. TAG, DN 1"~~ REPLACED 1" IP WITH L.A. CO. SUR. CONT. SYS. 4" BRASS TRAV. DISC STAMPED "LITTLE ROCK J14B PA1 RE 1018" DN. 0.64' LOWER THAN 1" I.P. & PROTECTED BY A CAST IRON COVER. JULY 22, 1971 RWilson

SUBSURFACE MARK: NONE.

REF. POINTS: 99.01 N.W. TO P.P.# 864559 E, 43.91 N.E. TO A FENCE POST, 49.46 S.E. TO A CALIF. D.W.R. 4" BR. DISK, & 48.82 W. TO A BT. SPK., W.&T.

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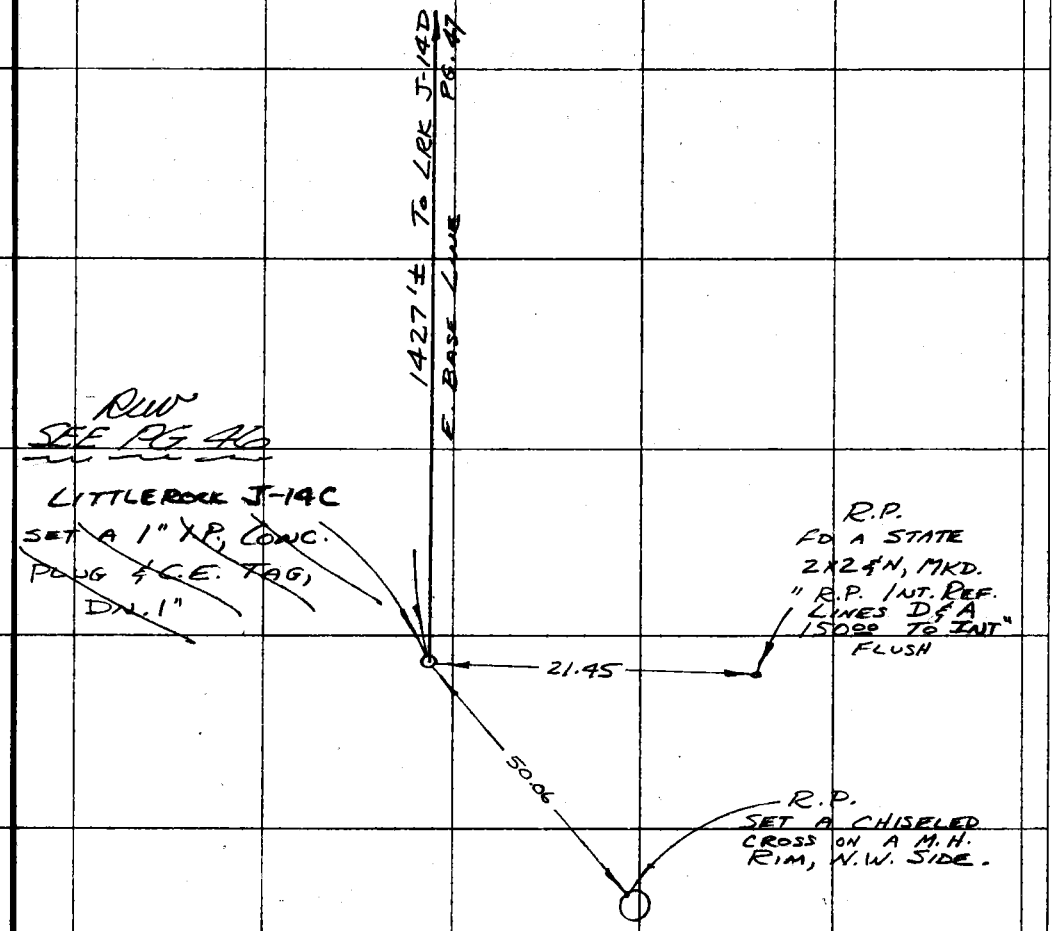
Office Work	Surveyed by R.C. BOWERS
Checked	Notes RCB Date 7/1/71
Date	Indexed E. J. GALLI SEP 7 71

F. B. 3425 PG. 45

LOS ANGELES COUNTY SURVEY CONTROL SYSTEM
LLANO BASE LINE
LITTLEROCK J-14C

SEC. 15



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F. B. 3425 PG. 46

LOS ANGELES COUNTY SURVEY CONTROL SYSTEM

LLANO BASE LINE

LITTLEROCK J-14C

ROUTE: 800'± E. & 1427'± S. OF 116TH ST. E. & D.W.&P. SERVICE RD.

STATION MARK: ~~A 1" I.P. CONC. PLUG & C.E. TAG, DN. 1"~~ REPLACED 1" I.P. WITH A 4" L.A. CO. SUR. CONT. S'S. BRASS TRAV. DISC STAMPED "LITTLE ROCK J14C 1971 RE 7078" DN. 0.71' LOWER THAN 1" IP & PROTECTED BY A CAST IRON COVER.
JULY 23, 1971
RUDELSON

SUB-SURFACE MARK: NONE

REF. POINTS: A STATE 2X2 & N, 21.45' E. & THE N.W. EDGE OF A M.H. RIM 50.06 S.E.

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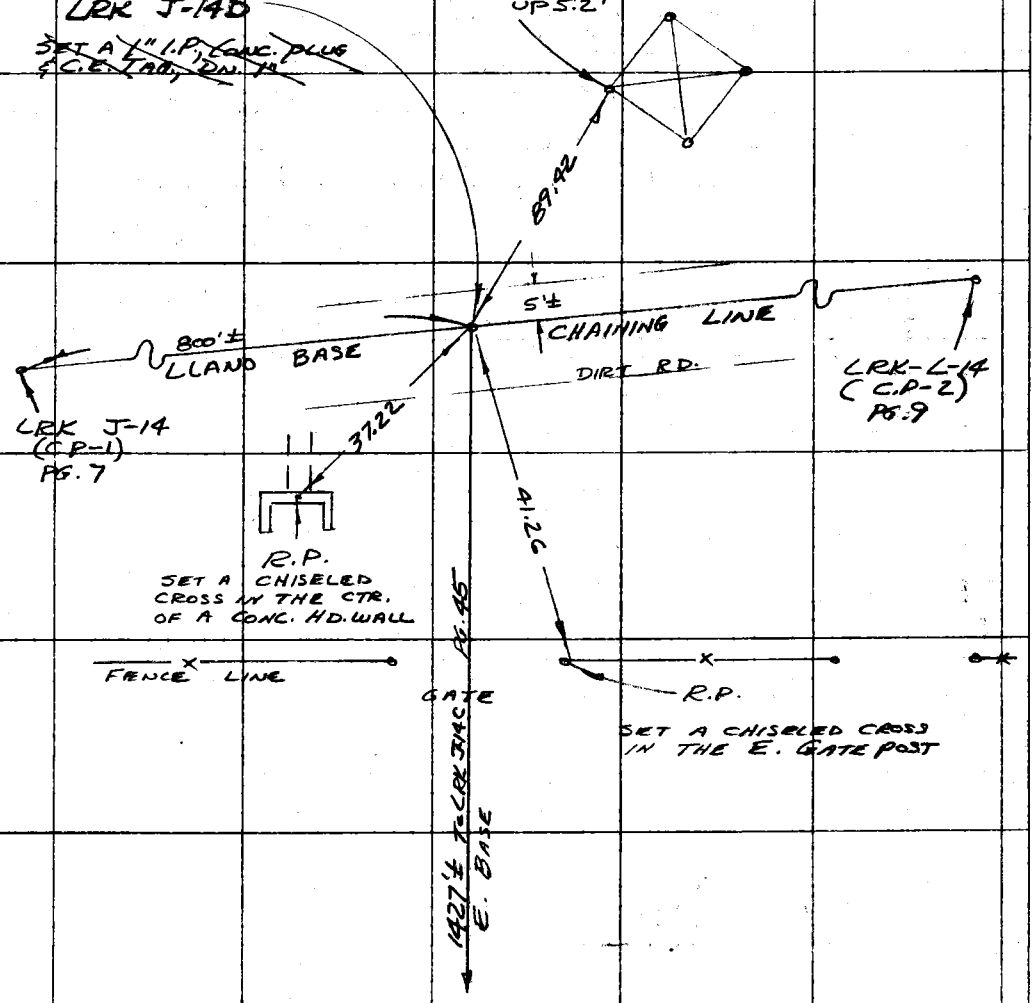
Notes Ck'd by	Survey of LLANO BASE LINE
Map No.	[redacted]
Office Work	Surveyed by R.C. BOWERS
Checked	Notes RCB Date 2/4/71
Date	Indexed C. J. GALLI SEP 7 '71

F. B 3425 PG. 47

LOS ANGELES COUNTY SURVEY CONTROL SYSTEM

LLANO BASE LINE

LITTLEROCK J-14 D



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F. B. 3425 PG. 48

LOS ANGELES COUNTY SURVEY CONTROL SYSTEM

LLANO BASE LINE

LITTLE ROCK J-14 D

ROUTE: 800'± E. OF 116TH ST. E. ON THE D.W.&P. SERVICE RD.

STATION MARK: ~~A 1" I.P. CONC. PLUG & C.E. TAG, DN 1"~~
REPLACED 1" IP WITH A 4" L.A. CO. SUR. CONT. S.S. BRASS TRAV. DISC. STAMPED "LITTLE ROCK J14D 1971 RE 7078" DN 0.56' LOWER IN ELEV. THAN 1" IP & PROTECTED BY A CAST IRON COVER. JULY 23, 1971
D. Wilson

SUB-SURFACE MARK: NONE

REF. POINTS: 89.42' S.W. of THE W. LEG OF TOWER 218 III S, 41.26' N.W. OF THE E. GATE POST, & 37.22 N.E. OF THE CTR. OF A CONC. HD. WALL

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Profile No.	Notes Red	Plotted	Job No. 0301.00	Division No. 11	F.B. 3425 Pg. 49
	Date	Date	Survey of GEODETIC CONTROL		
X-Sec. No.	Notes Chkd.	Checked	Survey by BOWERS	Notes JONES	Date 8-18-71
	Date	Date	Map No.	Indexed	Date

GEODETIC CONTROL

FAIRMONT BUTTE AREA

BENCH LEVELS FROM B.M. 117-37 TO FAIRMONT BUTTE I-12 AND B.M. 117-32 TO FAIRMONT BUTTE I-7

J.N. 0301.00

AUG. 1971

REF.

F.B. 2870 - 41 & 46

PARTY:

BOWERS
JONES
WENSEL
MUNOZ
SCHERB

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

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76-1-298 CE 307 3-61

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	
B.M. 117-37	2.40	2684.02		2681.62	B.M. 117-37, 1970 ADJ. EL. = 2681.622, 170TH ST. WEST, 0.5 MI. NORTH OF AVE. "D", 106 FT. S'LY. AND 62 FT. N'LY. OF POWER POLES IN THE FENCE LINE TO THE EAST OF 170TH ST. WEST, 31 FT. EAST OF THE APPROXIMATE ℄ OF 170TH WEST, 43 FT. S'LY. OF R.P. # M 125 44V, 1.5 FT WEST OF A BARBED WIRE FENCE. A L.A. CO. ENGR. BUTTON BRASS CAP MON. SET IN A 12" CONC. POST. UP 6", STAMPED B.M. 117-37 1961 5869. PER F.B. 2870-46
1/4 COR. 14 | 13			3.68	2680.34	1/4 SEC. COR., STAMPED R-15-W 14 | 13 T-8-N, 2" BRASS CAP MON. DN. 10" IN DIRT. DESIGNATED FAIRMONT BUTTE I-12.
1/4 COR. 14 | 13	3.69	2684.03		2680.34	1/4 SEC. COR. 14 | 13 SEE ABOVE
B.M. 117-37			2.40	2681.63	B.M. 117-37 SEE ABOVE
B.M. 117-32	5.04	2619.63		2614.59	B.M. 117-32, 1970 ADJ. EL. = 2614.594, AVE. "A" AND 170TH ST. WEST, AT THE KERN CO. LINE, 83.5 FT. EAST OF THE EAST EDGE OF THE PAVEMENT OF 170TH ST. WEST, 38.5 FT. SOUTH OF THE APPROXIMATE ℄ OF AVE "A", 19.5 FT. EAST OF A GATE ACROSS ROAD TO THE SOUTH, 2.0 FT. NORTH OF A BARBED WIRE FENCE. A L.A. CO. ENGR. BUTTON BRASS CAP MON. SET IN A 12" CONC. POST UP 6", STAMPED B.M. 117-32 1961 5869 - PER F.B. 2870-41
SEC. COR 35 | 36 / 2 | 1			4.34	2615.29	SEC. COR. (R-15-W 35 | 36 / 2 | 1 T-9-N T-8-N 5869 AS STAMPED) 2" BRASS CAP MON. DN. 8" IN A WELL, DESIGNATED FAIRMONT BUTTE I-7.
SEC. COR 35 | 36 / 2 | 1	4.58	2619.87		2615.29	SEC. COR. 35 | 36 / 2 | 1 SEE ABOVE
B.M. 117-32			5.28	2614.59	B.M. 117-32 SEE ABOVE

F.B. 3425 PG. 50

Job No. 0301.00 Division No. 11 Notes Red ____ Plotted ____ Profile ____

Survey of GEODETIC CONTROL Date ____ Date ____ No. ____

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

Indexed J. GALL Date ____ Date ____ No. ____

Notes Ck'd by	Survey of L.A.Co. PRECISE LEVEL NET F. B. 3425 PG. 51
~~Map No.~~	~~JN~~ 0301.02 ~~Tape~~ ~~Std.~~ °F
Office Work	Surveyed by G.E. DREIER
Checked	Notes Date MAR. 1972
Date	Indexed C. J. GALLI APR 10 '72

JOB NO. 0301.02

L.A. CO. PRECISE LEVEL NET

LINE NO. 126 (LLANO BASE)

DESCRIPTION REFERENCES

F.B. 3425-5 TO 66

F.B 943-

1972 LEVEL NOTES IN F.B. 4123

DREIER

MALDONADO

SIEMANN

McKNIGHT

OHASHI

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76F3095 CE # 310 3-61

ROUTE SKETCH, LINE 126

F. B. 3425 PG. 52

(LLANO BASE)
CONT. BOT. PAGE 53

MARCH, 1972

B.M. 126-35, 36 & 37
F.B. 3425-23, 24, CH. PT. #8

B.M. 126-34A
SEE F.B. 3425-55

B.M. 126-32, 33, & 34
F.B. 3425-21, 22

CH. PT. # 7

B.M. 109-23A
F.B. 2844-29

(LINE 109) 165th ST. E.

B.M. 109-23
F.B. 2844-29

CH. PT. # 6

B.M. 126-30 & 31
F.B. 3425-19, 20

S.P. R.R.

155th ST. E.

CH. PT. # 5

B.M. 126-27, 28 & 29
F.B. 3425-17, 18

LLANO BASE

PEARBLOSSOM Hwy

POT. # 3

B.M. 126-25 & 26
F.B. 3425-15, 16

CH. PT. # 4

B.M. 126-22, 23 & 24
F.B. 3425-13, 14

CH. PT. # 3

B.M. 126-19, 20, & 21
F.B. 3425-11, 12

B.M. 126-16, 17 & 18
F.B. 3425-9, 10

CH. PT. # 2

B.M. 126-14
F.B. 3425-45

B.M. 126-13
F.B. 3425-43

B.M. 126-27
F.B. 2418-34

B.M. 126-11
F.B. 3425-41

B.M. 126-8, 9 & 10
F.B. 3425-7, 8

B.M. 126-15
F.B. 3425-47

(CH. PT. # 1) B.M. 126-12
F.B. 3425-
943-72

B.M. 106-24 & 24A
F.B. 2418-31
F.B. 3714-65

B.M. 126-1 TO 126-7

106th ST. E.

F.B. 3425-6
F.B. 943-5, 6

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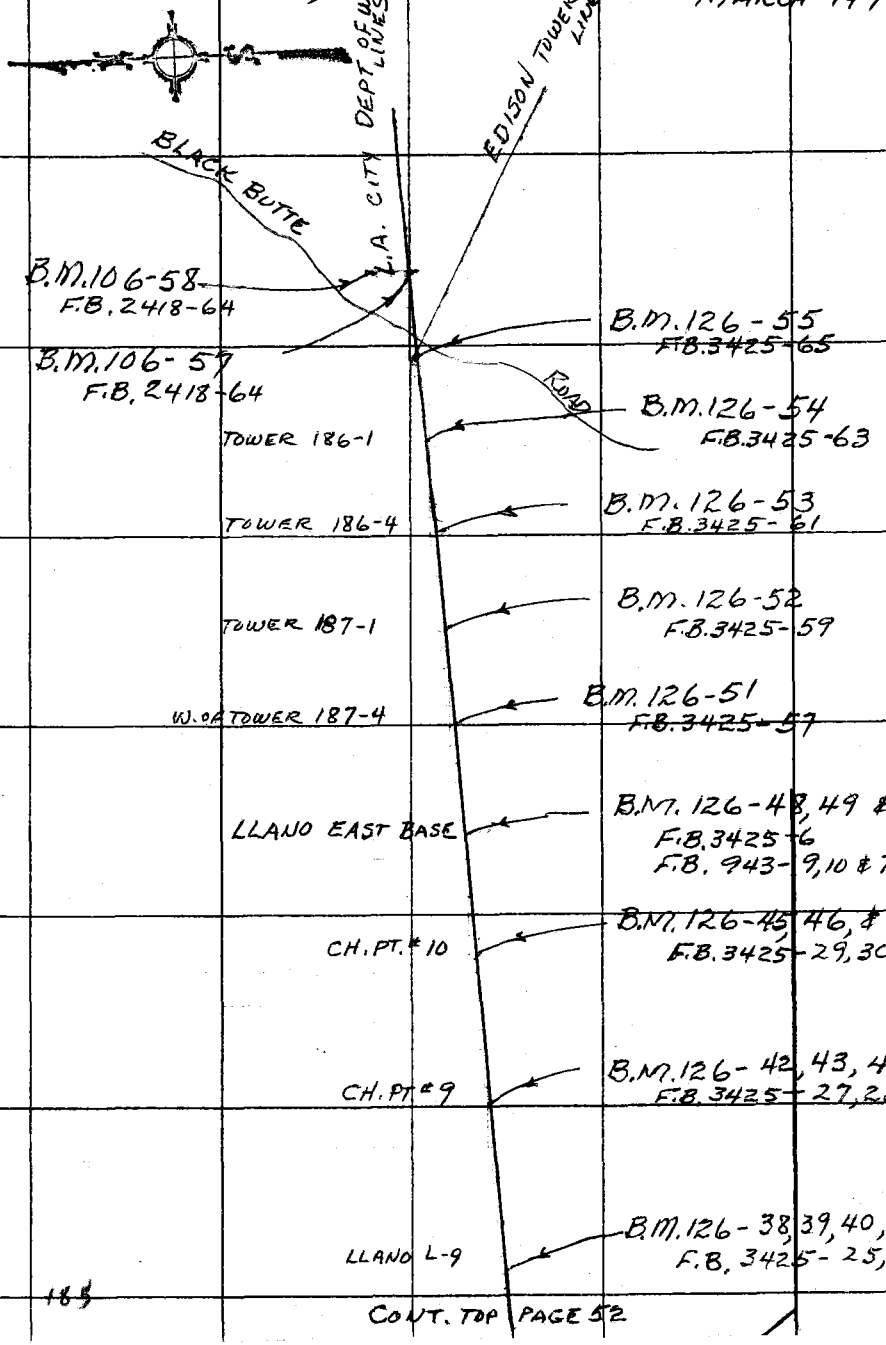
Map No.	Tape Std.
Office Work	Surveyed by G.E.DREIER
Checked	Notes G.E.DREIER Date MAR 1972
Date	Indexed C. J. GALLI 1972

ROUTE SKETCH, LINE NO 126
MARCH 1972



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76F309S CE#310 3-68

185

CONT. TOP PAGE 52

F. B. 3425 PG. 54

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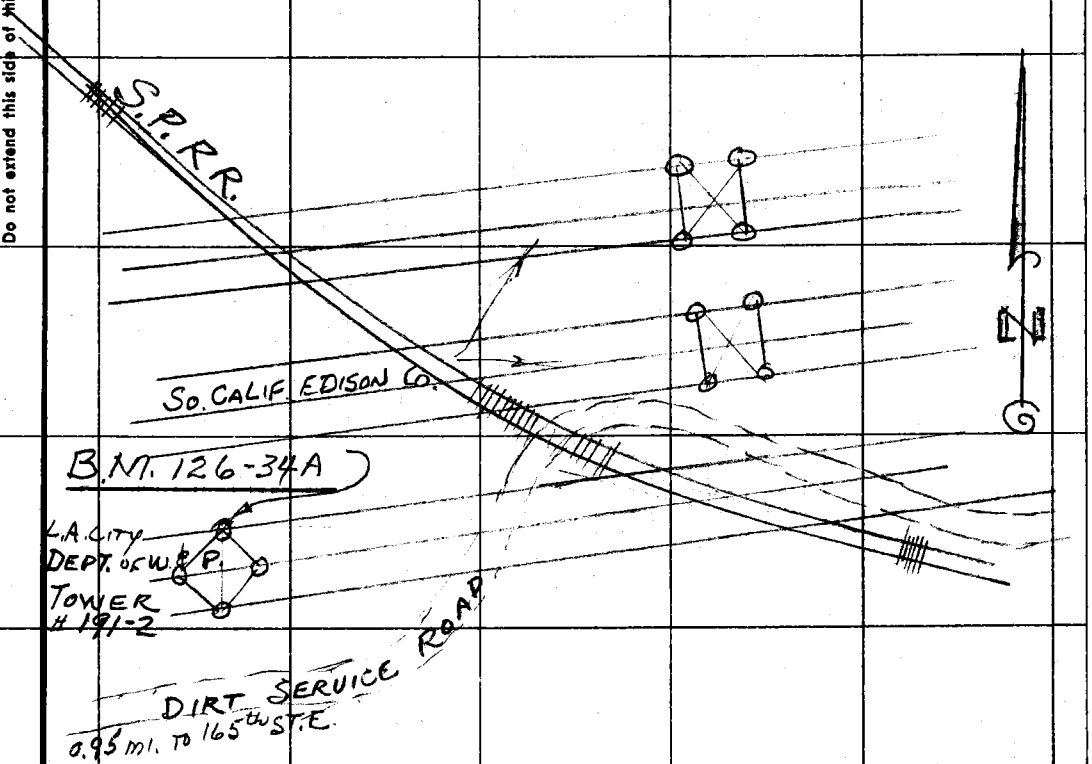
Map No.	UN 030602 Tape Std. °F
Office Work	Surveyed by G.E. DREIER
Checked	Notes G.E. DREIER Date 3-17-72
Date	Indexed C. J. GALLI APR 10 '72

F. B. 3425 PG. 55

B.M. 126-34A

ALONG LOS ANGELES DEPARTMENT OF WATER AND POWER SERVICE ROAD, 0.95 MILE EAST OF 165th ST. EAST, AT CROSSING OF SOUTHER PACIFIC R.R. (PALMDALE TO COLTON BRANCH) IN THE CONC. BASE OF NORTH LEG OF TOWER NO. 191-2, (213 III 1) FOUND A LEAD AND TACK.



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F. B. 3425 PG 56

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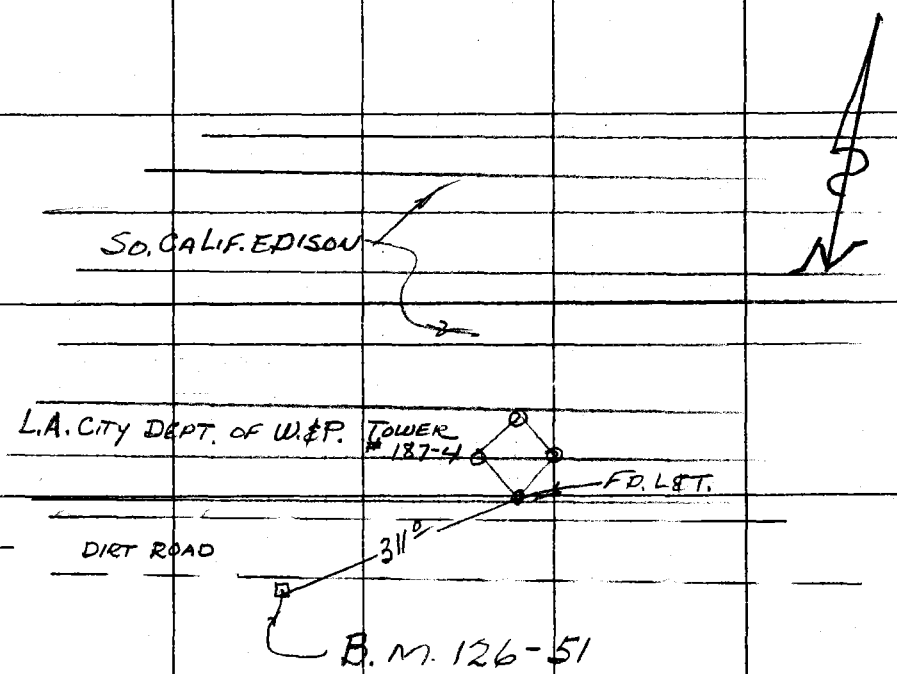
Office Work	Surveyed by G.E. DREIER
Checked	Notes G.E. DREIER Date 3-20-72
Date	Indexed C. J. GALLI APR 10 '72

F. B. 3425 PG. 57

B.M. 126-51 (U.S.C.&G.S., LLANO EAST BASE 1964, AZIMUTH MARK) ALONG L.A. CITY DEPT. OF W. & P. SERVICE ROAD, 4.6 MILES EAST OF 165TH ST. E., 0.3 MILE EAST OF LLANO EAST BASE, 12 FT. S. OF CENTER OF THE DIRT ROAD, 311 FT. S.W. OF TOWER NO. 187-4, FOUND A U.S.C.&G.S. AZIMUTH MARK, 3 3/4 INCH BRASS DISC STAMPED "LLANO EAST BASE 1954" 1964 IN TOP OF A 10 INCH SQUARE CONC. POST FLUSH



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F. B. 3425 PG 58

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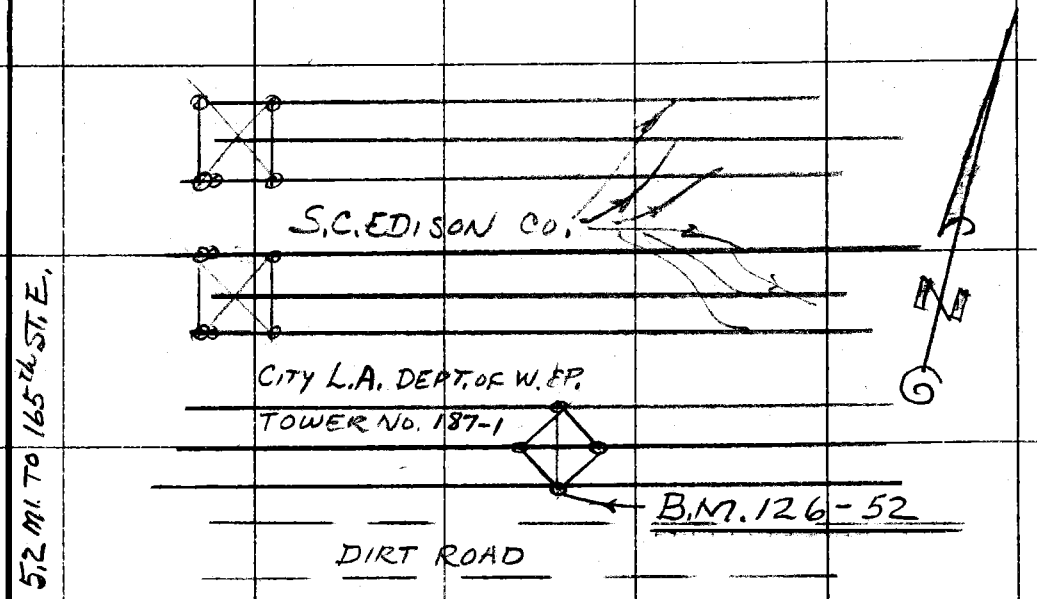
Map No.	[illegible]
Office Work	Surveyed by G.E. DREIER
Checked	Notes G.E. DREIER Date 3-21-72
Date	Indexed C. J. GALLI APR 1 0 '72

B.M. 126-52

ALONG CITY OF L.A., DEPT. OF W. & P. ROAD, 5.2 MILES EAST OF 165th ST. E., IN THE TOP OF THE CONC. BASE OF THE SOUTH LEG OF TOWER NO. "187-1 McC-TOL", SET A 2¾ INCH COUNTY ENGINEER BRASS DISC STAMPED "B.M. 126-52 1972 R.E 7078" WITH A SMALL BUTTON.



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F. B. 3425 PG 60

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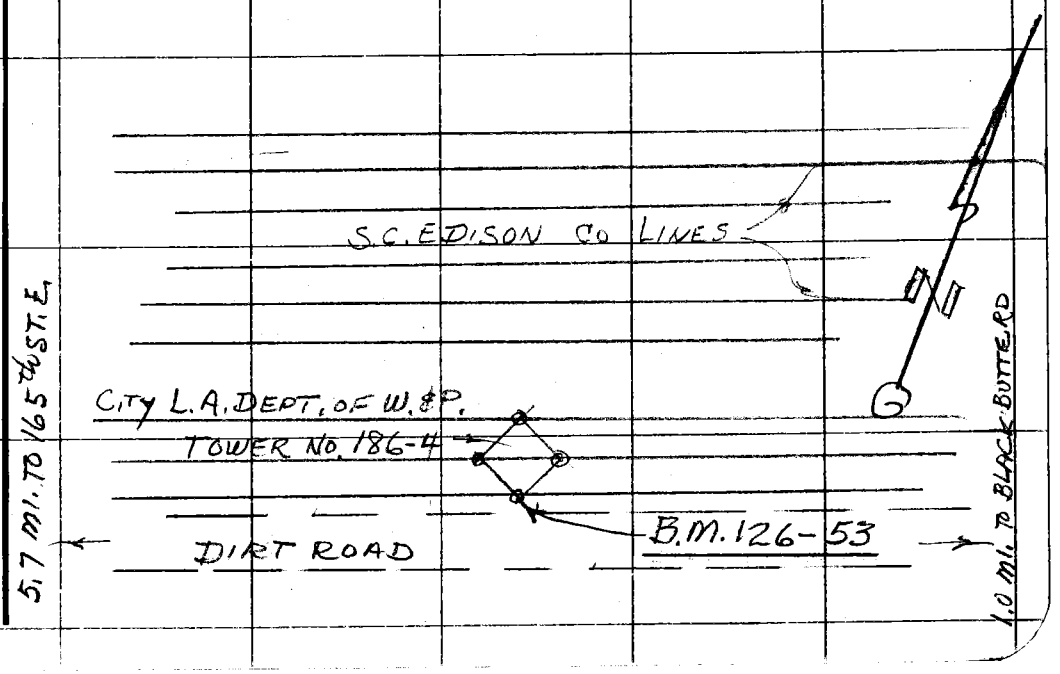
Office Work	Surveyed by G.E. DREIER
Checked	Notes G.E. DREIER Date 3-21-72
Date	Indexed C. J. GALLI APR 10 '72

F. B. 3425 PG. 61

B.M. 126-53

ALONG CITY OF L.A. DEPT OF W. & P. ROAD, 5.7 MILES EAST OF 165TH ST. E., IN TOP OF CONC. BASE OF SOUTH LEG OF TOWER NO. 186-4, SET A 2¾ INCH COUNTY ENGINEER BRASS DISC STAMPED "B.M. 126-53 1972 RE 7078", WITH A SMALL BUTTON



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F. B. 3425 PG 62

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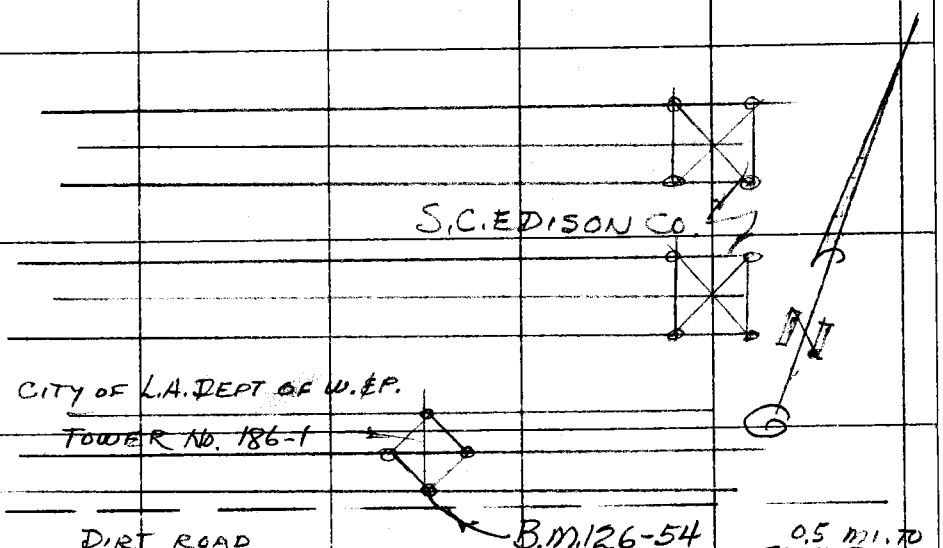
~~Map No.~~	JN 030642 Tape Std °F
Office Work	Surveyed by G.E. DREIER
Checked	Notes G.E.D. Date 3-21-72
Date	Indexed C. J. GALLI APR 10 '72

F. B. 3425 PG. 63

B.M. 126-54

ALONG CITY OF L.A., DEPT. OF W. & P. SERVICE ROAD, 6.2 MILES EAST OF 165th ST. E., 0.5 MI. WEST OF BLACK BUTTE ROAD, IN TOP OF CONC. BASE OF SOUTH LEG OF TOWER NO. "186-1 McC-TOL", SET A 2¾ INCH COUNTY ENGINEER BRASS DISC STAMPED "B.M. 126-54 1972 RE. 7078" WITH SMALL BUTTON



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F. B. 3425 PG 64

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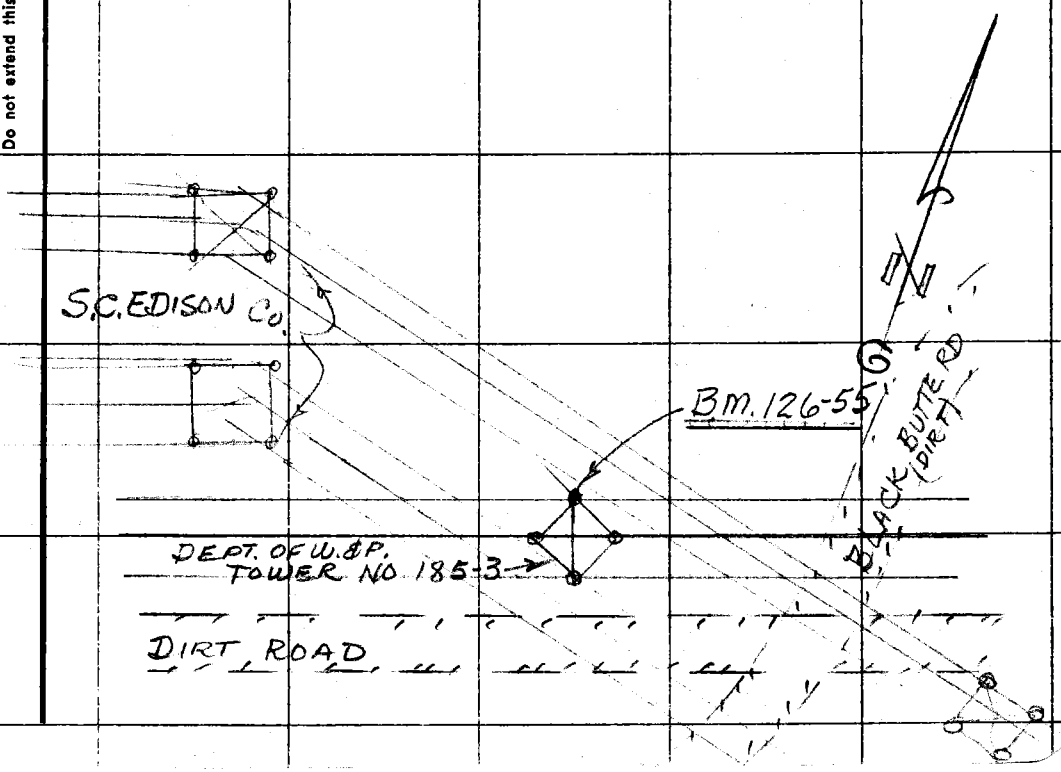
Office Work	Surveyed by G.E. DREIER
Checked	Notes G.E. DREIER Date 3-21-72
Date	Indexed C. J. GALLI APR 10 72

F. B. 3425 PG. 65

BLACK BUTTE U.S.G.S. 1934 1958

B.M. 126-55 (U.S.C. & G.S. AZIMUTH MARK BLACK BUTTE)
AT N.W. COR. OF INTERSECTION OF L.A. CITY, DEPT. OF W. & P. ROAD AND BLACK BUTTE ROAD, IN TOP OF CONC. BASE OF NORTH LEG OF TOWER NO. 185-3 FOUND A 3 3/4 INCH U.S.C. & G.S. AZIMUTH MARK BRASS DISC STAMPED "BLACK BUTTE U.S.G.S 1934 1958"



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76F309S CE#310 3-68

F. B. 3425 PG 66

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Notes Ck'd by	Survey of LLANO BASE
Office Work	Surveyed by K. KING
Checked	Notes KK Date 12-17-73
Date	Indexed G. D. BAILEY JAN 9 1974

F. B. 3125 PG. 67

JN 0302.01

MEASURE LLANO BASE
FROM
LLANO WEST BASE
TO
LLANO EAST BASE

PARTY
KING
ADAMS J.A.
TALBOT

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76F309s CE#310 3-69

F. B. 3425 PG 68

79 BLACK BUTTES E-9

79 CHAIN PT. NO. 10

78 CHAIN PT. NO. 9

BASE

78 L-9

77 CHAIN PT. NO. 8

77 CHAIN PT. NO. 7

76 CHAIN PT. NO. 6

76 CHAIN PT. NO. 5

75 P.O.T. NO. 3

75 CHAIN PT. NO. 4

74 CHAIN PT. NO. 3

LLANO

74 CHAIN PT. NO. 2

73 CHAIN PT. NO. 1

73 LITTLEROCK H-11

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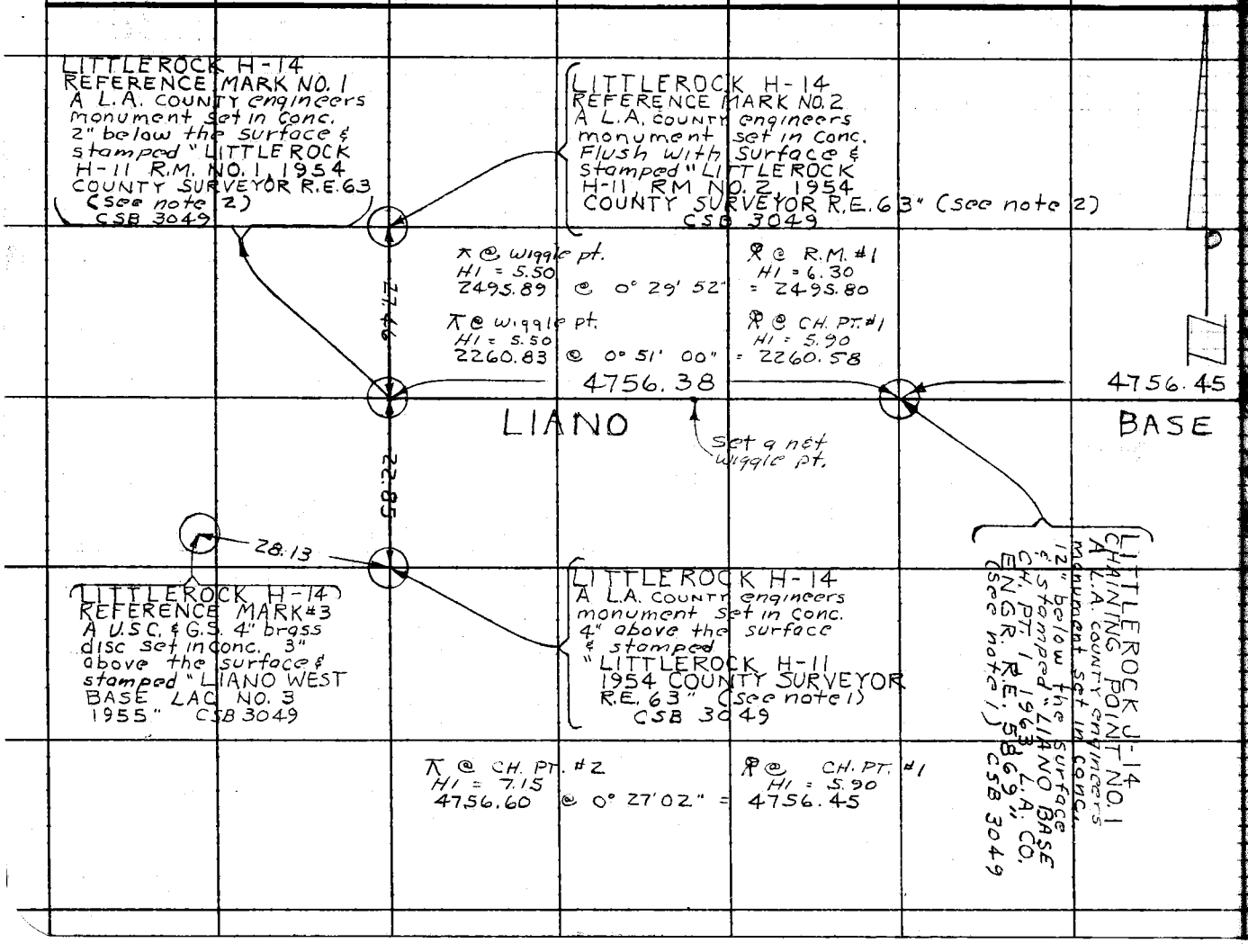

Notes Ck'd by
Office Work
Checked
Date

Survey of LIANO BASE
Surveyed by K. KING
Notes
Indexed G. D. BAILEY, JAN
Date 12-6-73

F. B. 3425 Pg. 69

LITTLEROCK L-14
REFERENCE MARK NO.1
A L.A. County engineers monument set in Conc. 8" above surface & stamped "LLANO BASE CH. PT. 2, R.M. 1, 1960 LA CO ENGR. RE 5869" (see note 2) CSB 3049

LITTLEROCK L-14
CHAINING POINT NO.2
A L.A. county engineer mon. set in conc. 12" below surface & mkd "LLANO BASE CH. PT. NO. 2, 1960 L.A. CO. ENGR. RE. 5869." (see note 1) CSB 3049

LITTLE ROCK N-13
CHAINING POINT NO. 3
A L.A. county engineers mon. set in conc. 12" below surface & mkd "LLANO BASE CH. PT. NO. 3, 1963 L.A. CO. ENGR. RE. 5869." (see note 1) CSB 3049

LITTLEROCK N-13
REFERENCE MARK NO. 1
A L.A. county engineers mon. set in conc & mkd "LLANO BASE CH PT 3 R.M. 1, 1967, L.A. CO. ENGR. RE 5869" (see note 2) CSB 3049

22.37

fd a 3/4" I.P. cem. pl. & copper wire fl. CSB 3049

6.82

4756.45

4756.53

15.22

fd a 3/4" I.P. cem. pl. & copper wire fl. .02 W. of line CSB 3049

9.78

4756.84

To Top

To Bot

PG 69

LLANO

BASE

PG 71

T @ CH. PT. # 3
HI = 6.80
4656.76 @ 0° 34' 20" = 4756.53

R @ CH. PT. # 2
HI = 6.90

T @ CH PT #3
HI = 6.80
4756.97 @ 0° 25' 00" = 4756.84

R @ CH PT. # 4
HI = 6.20

13.42

fd a 3/4" I.P. cem. pl. & copper wire fl. CSB 3049

11.59

LITTLEROCK L-14
REFERENCE MARK NO2
A L.A. county engineers mon. set in conc. 8" above surface & mkd "LLANO BASE CH. PT. 2 R.M. 2, 1967, L.A. CO. ENGR. R.E. 5869." (See note 2) CSB 3049

15.46

fd a 3/4" I.P. cem pl. & copper wire fl. CSB 3049

9.55

LITTLEROCK N-13
REFERENCE MARK NO. 2
A L.A. county engineers mon. set in conc. 8" above surface & stamped "LLANO BASE CH. PT. 3 R.M. 2, 1967, L.A. CO. ENGR. R.E. 5869." (See note 2) CSB 3049

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LOVEJOY BUTTES A-13
REFERENCE MARK NO. 1
A L.A. County engineers monument set in Conc. 8" above surface & mkd "LLANO BASE CH. PT. 4 R.M. 1, 1967, L.A. CO. ENGR. R.E. 5869" (see note 2) CSB 3049

LOVEJOY BUTTES A-13
CHAINING POINT NO. 4
A L.A. county engineers mon. set in Conc. 12" below surface & mkd "LLANO BASE CH. PT. 4 1960, L.A. CO. ENGR. R.E. 5869" (see note 1) C.S.B. 3049

P.O.T. NO. 3
REFERENCE MARK
A L.A. County engineers mon. set in Conc. above surface & mkd "LLANO BASE P.O.T. R.M. 1, 1967, L.A. CO. ENGR. RE 5869" (see note 2) C.S.B. 3049

14.25

10.76

25.00

fd a 3/4" I.P. cem pl. & Copper wire flush. C.S.B. 3049

fd a 3/4" I.P. cem. pl. & Copper wire pt. C.S.B. 3049 destroyed SET 1" I.P. cem pl. C.E. Tag Dn 4".

To Tab 70

4756.84

2819.85

1937.61

LLANO

BASE

T @ P.O.T. #3
HI = 6.00
2819.87 @ 0° 12' 55" = 2819.85

R @ CH. PT. #4
HI = 6.20
2819.85

19.27

T @ P.O.T. #3
HI = 6.00
1937.61 @ 0° 02' 00" = 1937.61

R @ CH. PT. #5
HI = 6.20
1937.61

25.00

fd a 3/4" I.P. cem pl. & Copper wire flush. C.S.B. 3049

5.76

LOVEJOY BUTTES A-13
REFERENCE MARK NO. 2
A L.A. county engineers monument set in Conc. 8" above surface & mkd "LLANO BASE CH. PT. 4 R.M. 2, 1967, L.A. CO. ENGR. R.E. 5869" (see note 2) C.S.B. 3049

P.O.T. NO. 3
REFERENCE MARK NO. 2
A L.A. County engineers mon. set in Conc. 8" above surface & mkd "LLANO BASE, P.O.T. 3, R.M. 2, 1967, L.A. CO. ENGR. R.E. 5869" (see note 2) C.S.B. 3049

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

Survey of LLANO BASE
JNO. SOZ. O. Trop. H.T. Shd
Surveyed by K. E. KING Date 12-7-73
Notes
Indexed G. D. BAILEY JAN 2 1974

F.B. 3425 Pg. 71

F. B. 3425 PG. 72

LOVEJOY BUTTES B-13
REFERENCE MARK NO. 1
A L.A. county engineers mon
set in conc. 8" above
Surface & mkd "LLANO
BASE CH. PT. 5, R.M. 1
1967, L.A. CO. ENGR. R.E.
5869" (see note 2)
CSB 3049

LOVEJOY BUTTES B-13
CHAINING POINT NO 5
A L.A. county engineers mon.
set in Conc. 12" below Surface
& mkd "LLANO BASE CH. PT. 5,
1963, L.A. Co. ENGR. R.E. 5869"
(See note 1) CSB 3049

Made a diligent
search for C.E.
mon. per CSB
3049 Fd nothing

18.38

fd a 3/4" I.P. cem
Pl. & Copper wire
6" below Surface
C.S.B. 3049

LOVEJOY BUTTES D-13
CHAINING POINT NO. 6
A L.A. County engineers
mon. set in Conc. 12"
below Surface & mkd
"LLANO BASE CH. PT.
NO. 6, 1960, L.A. CO.
ENGR. R.E. 5869"
(see note 1) CSB 3049

To Top

To Bot

6.60

1937.61

4757.03

4757.07

LLANO

BASE

Pg 71

Pg 73

set n & t
wiggle pt.

set a n & t
wiggle point.

13.70

π @ wiggle pt. bet. 5 & 6
Hi = 5.70
1558.69 @ 0° 04' 15" = 1558.69

R @ CH. PT. # 5
Hi = 5.80

fd a 3/4" I.P. cem
Pl. & Copper wire
6" below Surface
C.S.B 3049

π @ wiggle pt. bet. 5 & 6
Hi = 5.70
3198.34 @ 0° 12' 15" = 3198.34

R @ CH. PT. # 6
Hi = 6.10

11.31

LOVEJOY BUTTES B-13
REFERENCE MARK NO. 2
A L.A. county engineers
mon. set in Conc. 8" above
Surface & mkd "LLANO
BASE CH. PT. 5, RM 2,
1967, L.A. Co. ENGR R.E.
5869" (see note 2)
CSB 3049

π @ wiggle pt. bet. 6 & 7
Hi = 5.70
3116.62 @ 0° 03' 40" = 3116.62

R @ CH. PT. # 6
Hi = 6.10

Made a diligent
Search for C.E.
mon. per CSB
3049 fd. nothing

π @ wiggle pt. bet. 6 & 7
Hi = 5.70
1640.49 @ 0° 23' 52" = 1640.45

R @ CH. PT # 7
Hi = 6.80

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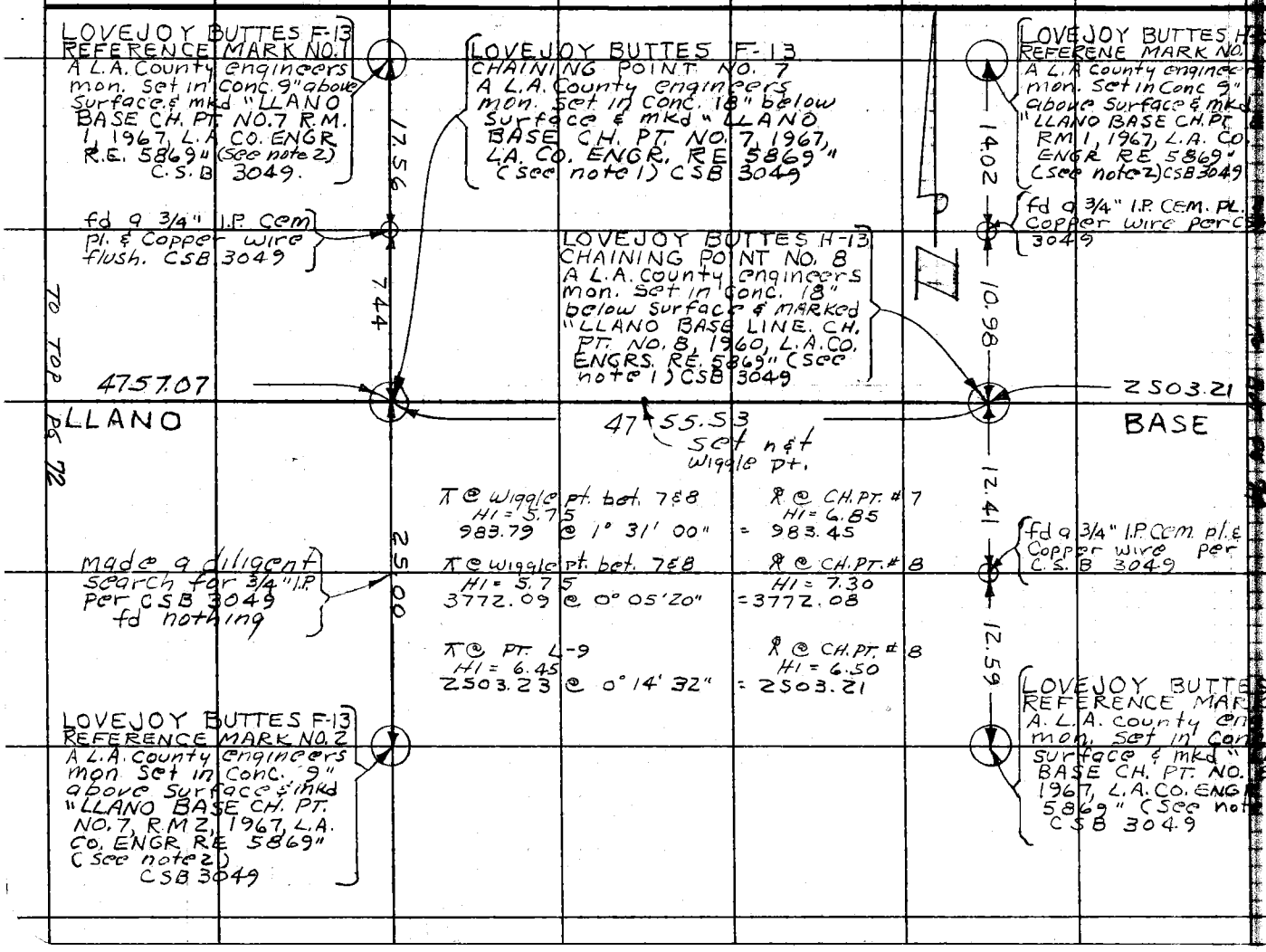

TO TOP PG 72

Notes Ck'd by
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Date

Survey of LLANO BASE
JN 0502 Type H.P. Sta
Surveyed by K. KING
Notes
Indexed G. D. BAILEY JAN 2 1974
Date 12-12-73

F.B. 3425 PG. 73

LOVEJOY BUTTES I-13
REFERENCE MARK NO-1
A L.A. county engineers mon. set in conc. 5" above surface & mkd. "LLANO L-9, RM 1, 1954, COUNTY SURVEYOR RE. 63" (see note 2) CSB 3049

LOVEJOY BUTTES I-13
LLANO L-9
A L.A. county engineers mon. set in conc. 14" below surface & mkd "LLANO L-9, 1954 County SURVEYOR RE 63" (See Note 1) CSB 3049

LOVEJOY BUTTES K-12
REFERENCE MARK NO-1
A L.A. County engineers mon. set in conc. 9" above surface & mkd "LLANO BASE CH. PT. 9, RM 1, 1967, LA CO. ENGR, R.E. 5869" (see note 2) C.S.B 3049

fd a 3/4" I.P. cem. Pl. & copper wire fl. CSB 3049

0.06

LOVEJOY BUTTES K-12
CHAINING POINT NO. 9
A L.A. county engineer mon. set in conc. 18" below surface & mkd "LLANO BASE, 1963, CH. PT. No-9, LA CO ENGR RE 5869" (see note 1) CSB 3049

11.84

13.18

15.48

9.54

π @ CH. PT. #10
HI = 6.90
4757.19 @ 0° 17' 57" = 4757.13

R @ CH. PT. #9
HI = 6.70

36.02

2503.21

4756.89

4757.13

TO TOP

TO BOT

LLANO

BASE

π @ L-9
HI = 6.45
4756.89 @ 0° 01' 30" = 4756.89

R @ CH PT #9
HI = 6.70

39.12

48.69

0.06

fd a 3/4" I.P. cem. Pl. & copper wire fl. C.S.B. 3049

LOVEJOY BUTTES I-13
REFERENCE MARK NO-4
A L.A. county engineer mon. set in conc. 9" above surface & mkd "LLANO L-9, RM 4, 1967, L.A. Co. ENGR. RE 5869" (See note 2) CSB 3049

LOVEJOY BUTTES I-13
REFERENCE MARK NO. 3
A L.A. county engineers mon. set in conc. & mkd. "LLANO L-9, RM 3, 1967, L.A. CO. ENGR. RE 5869" (See note 2) CSB 3049

LOVEJOY BUTTES K-12
REFERENCE MARK NO. 2
A L.A. county engineers mon. set in conc. 9" above surface & mkd "LLANO BASE CH. PT. 9, RM 2, 1967, L.A. CO. ENGRS. RE. 5869" (see note 2) CSB 3049

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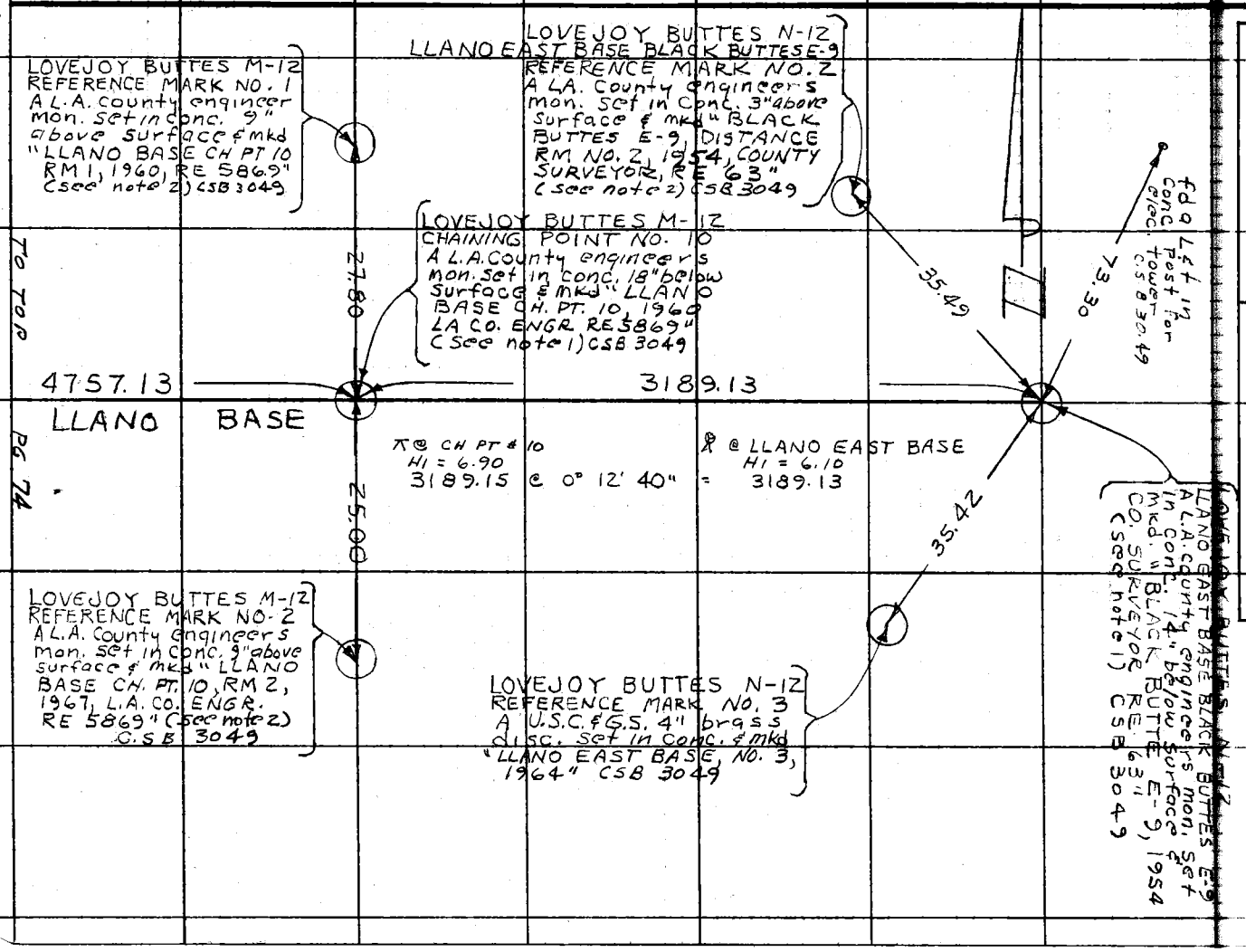

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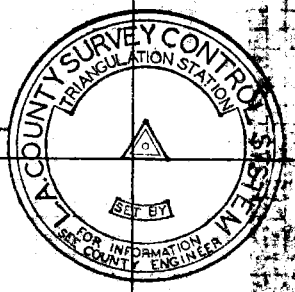
Survey of LLANO BASE
Surveyed by K. KING
Notes
Indexed G. D. BAILEY JAN 2 1974
Date 12-14-73

F. B. 3425 PG. 75

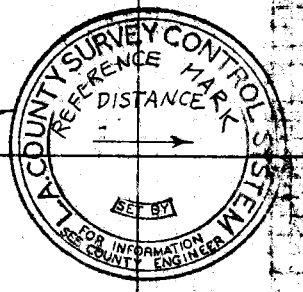
F. B. 3425 PG. 76

NOTES

1. ALL L.A. COUNTY ENGINEERS SURVEY CONTROL SYSTEM MONUMENTS ARE 4" BRASS DISCS SET IN CONCRETE AND CAST



2. ALL L.A. COUNTY ENGINEERS SURVEY CONTROL SYSTEM REFERENCE MARK MONUMENTS ARE 4" BRASS DISCS SET IN CONCRETE, AND CAST



WHERE THE SYMBOL ⊼ IS USED, IT REFERS TO A TIAE INSTRUMENT.

WHERE THE SYMBOL ⊗ IS USED, IT REFERS TO THE HEWLITT PACKARD REFLECTORS.

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