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

F.B. PG.

3665

1-36 PRECISE LEVEL SURVEY in portions of the City of Los Angeles and the city of San Fernando for CHEVRON U.S.A. INC. Nov.-Dec. 1982 by R. CLARK WILSON, Lic. Land Surv.

37-38	Tr. no 41776	James E.Nelson
39	PM no 14303	Triad Design.
40-43	Tr. no 35048	Pfeiler & Ass.
44-45	PM 15284	Pace Engineering
46	Tr. no 31785	Loren Phillips & Ass.
47-48	Tr. no 42667	William G.Bryant.
49	Tr. no 40901	L. Zehfuss
50-52	Tr. no 34594	Atanas Stefryo
53	PM no 14295	Louis Zehfuss
54-59	Tr. 36334	E.L.Pearson & Ass.
60-63	Tr. 40273	Westco Eng. & Survey
64-66	Tr. 38483	Wagner-Kerr & Ass.
67	Tr. 37558	Loren Phillips
68-70	Tr. 40972	Madole & Ass.
71-72	PM 14852	Jennings Eng. Co.
73	PM 14602	Thomas T. Yuge
74	PM 12652	Jennings Eng. Co.
75-77	Tr. 31846	Boyle Eng. Corp.
78-85	cl ties Pathfinder Rd	Pfeiler & Ass.
86-87	TR. 33374	Boyle Eng. Corporation
88	PM 13721	Lockman & Ass.

~~PCHF Booklet: Vertical Movement in Long Beach Harbor District~~

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

Do not extend notes this side of this line

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

CENTERLINE NOTES
CE 310
76F-3095-4/72

CO ENG FB 3665-1

R. Clark Wilson

Licensed Land Surveyor

Control Surveys

Boundry Surveys

FB: 1007 PG: 5

PRECISE LEVEL SURVEY

IN PORTIONS OF THE CITY OF LOS ANGELES

AND THE

CITY OF SAN FERNANDO

FOR

CHEVRON U.S.A. INC

NOVEMBER-DECEMBER

1982

SERVICE ORDER CI-S 34394-PRO

3309 Honolulu Avenue, La Crescenta, California 91214 (213) 249-4406

NOTES

DATUM BASE: ALL ELEVATIONS SHOWN HEREIN WERE ADJUSTED TO LABE MARK NUMBER 03-06770, 1975 ADJUSTED ELEVATION 323.314 METERS

ALL BENCH MARKS UTILIZED IN THIS SURVEY WERE AS DESCRIBED IN CITY OF LOS ANGELES PRECISE LEVEL INDEX BOOKS 3, 4, & 8

EXCEPT AS NOTED ON PAGE TITLED PRECISE BENCH MARK DESCRIPTIONS

ALL ELEVATIONS SHOWN HEREIN ARE IN METERS

A LINEAR ADJUSTMENT WAS NOT DONE ON LEVEL LOOP "A" MARK 03-01980 1975 ELEVATION WAS ALSO HELD, AND THE LOOP ERROR OF +1.45mm WAS DISTRIBUTED IN THE PRECEDING TWO SECTIONS

ALL OTHER LEVEL LOOPS WERE ADJUSTED USING A LINEAR ADJUSTMENT

IT IS SUGGESTED THAT THE 1982 ADJUSTED ELEVATION ON MARK P-1296 OF 315.43645 METERS ESTABLISHED BY THIS SURVEY BE UTILIZED AS THE DATUM BASE FOR FUTURE SURVEYS, AS THIS NGS MARK IS A "ROD MARK" DRIVEN TO 14FT.

A RECORD OF SURVEY, RS_____, HAS BEEN FILED WITH THE LOS ANGELES COUNTY ENGINEER, AS HAVE BEEN COPIES OF FIELD NOTES

COPIES OF FIELD NOTES HAVE BEEN FILED WITH THE CITY OF LOS ANGELES, BUREAU OF ENGINEERING, SURVEY DIVISION

ALL FIELD WORK CONFORMS TO NGS PRECISE SECOND ORDER LEVELING STANDARDS OF ACCURACY, OR BETTER

R. Clark Wilson

R. CLARK WILSON, LS 3223

LICENSED LAND SURVEYOR
R. CLARK WILSON
No. 3223
12-16-82
STATE OF CALIFORNIA

R. Clark Wilson
Licensed Land Surveyor

Control Surveys **Boundry Surveys**

PRECISE BENCH MARK DESCRIPTIONS

C-1: WIRE SPK IN LEAD, SE CURB PAXTON STREET, 1' SW OF THE BCR, AT THE SE CORNER OF VENA AVENUE.

C-2: SPK & WASHER STAMPED "LS 3223 BM C 2" IN THE SE CORNER OF 5' WIDE CONC DRAIN STRUCTURE, 170' +- SW OF DRILL HEAD SITE, 41.5' NW OF WALL ALONG PAXTON ST, 48' SE OF WALL ALONG WASH, AND OPPOSITE TRAILER MARKED "CHEVRON".

C-3: SPK & WASHER STAMPED "LS 3223 BM C 3" SET IN SW CORNER OF 3.5' SQ. CONC DRAIN BOX, 30' +- SE OF DOOR THRU WALL ALONG WASH, 265'+- NW OF MAIN ENTRANCE GATE, 50'+- SW OF THE NORTHERLY BLOCK WALL.

C-4: WIRE SPK IN LEAD, SE CURB PAXTON STREET, 15' NE OF THE BCR, AT THE NE CORNER OF SHARP AVENUE.

C-5: WIRE SPK IN LEAD, SE CURB OF PAXTON STREET, 2' SW OF THE BCR, AT THE SE CORNER OF RENICK AVENUE.

C-6: WIRE SPK IN LEAD, SE CURB OF PAXTON STREET, 2' NE OF THE BCR, AT THE NE CORNER OF AMBOY AVENUE.

C-7: WIRE SPK IN LEAD, SE CURB OF PAXTON STREET, 3' SW OF THE BCR, AT THE SE CORNER OF HADDON AVENUE.

C-8: WIRE SPK IN LEAD, SW CURB OF KEWEN AVENUE, 3' SE OF THE BCR, AT THE SOUTH EAST CORNER OF PAXTON STREET.

C-9: WIRE SPK IN LEAD, SE CURB PAXTON STREET, 2' SW OF THE BCR, AT THE SE CORNER OF TELFAIR AVENUE.

C-10: SPK & WASHER IN LEAD STAMPED "LS 3223 BM C 10", SE CURB OF PAXTON STREET, 13.5' NE OF THE BCR, AT THE NE CORNER OF EL DORADO AVENUE.

P-1296: NGS BRASS DISC STAMPED "P 1296 1977" SET ON TOP OF ROD DRIVEN TO A DEPTH OF 14': 0.05 MILES NW OF THE 118 FWY, 20'+- NE OF THE NE CURB OF SAN FERNANDO RD, 34' SW OF THE SOUTH RAIL OF THE SPRR, BETWEEN TWO TELEPHONE POLES 8.4' APART, ENCASED IN 6" DIA PLASTIC PIPE WITH SCREW CAP.

08-26130A: SPK IN LEAD IN CONC CURB AT THE SE EXIT GATE FROM THE CITY OF L A MAINTENANCE YARD LOCATED AT 9701 SAN FERNANDO ROAD (1.2 MILES +- NW OF SHELDON STREET) 0.7' FROM THE END AND ON C/L OF 8' HIGH BRICK WALL.

08-26060 (RW 34 204) LA COUNTY FLOOD CONTROL BRASS DISC STAMPED "RW 34 204" AT THE SE END OF BRIDGE NUMBER 53-378 ON SAN FERNANDO RD, 0.8 +- MILES NW OF SHELDON STREET, 2.7' NE OF THE NE CURB OF SAN FERNANDO RD, 1.1' OFF BRIDGE.

3309 Honolulu Avenue, La Crescenta, California 91214 (213) 249-4406

PRECISE BENCH MARK DESCRIPTIONS 1007-13

03-05400A: NAIL IN LEAD IN THE SW CURB OF MOTT STREET, 20' NW OF THE BCR, AT THE SW CORNER OF BRAND BLVD.

03-05370: CORRECTION: CITY DISC DOWN 3" IN GRASS PARKWAY, 2.1' SW OF THE BRC, 1.7' NW OF THE FRONT EDGE OF THE SIDEWALK, AT THE SOUTH EAST CORNER OF BRAND BLVD AND O' MELVENY ST, 8.2' SE OF THE SE CURB OF BRAND BLVD.

03-08725A WIRE SPK IN SE CURB OF CHATSWORTH ST 5' NE OF THE BCR AT THE SE CORNER OF LEMONA AVENUE.

03-04808A: RESET PK NAIL IN LEAD IN SE CURB CAYUGA AVE 1.6' SE OF THE BCR AT THE SE CORNER OF VAN NUYS BLVD.

03-02220A: PK NAIL IN LEAD IN THE NW CURB OF WOLFSKILL ST 28' NE OF THE BCR, AT THE NE CORNER OF SAN FERNANDO RD IN THE CITY OF SAN FERNANDO.

03-02790A: SPK AND WASHER, STAMPED "LS 3223" SET IN THE SW CURB OF LAUREL CYN BLVD, 145'+- SE OF THE ON RAMP TO THE 118 FREEWAY, AND 50'+- NE OF A STREET LIGHT VAULT AT THE BACK OF THE SIDEWALK. MARK NUMBER 03-02790 WAS RECOVERED, BUT THIS MARK IS IN THE MIDDLE OF THE FAST TRAFFIC LANE ON LAUREL CYN BLVD AND WAS JUDGED UNSAFE TO LEVEL THRU.

C-11: WIRE SPK IN LEAD IN THE WEST CURB OF ARLETA, 1' NO OF THE BCR, 2' SO. OF THE SOUTH CORNER OF A CATCH BASIN THRU THE CURB, AT THE NW CORNER OF DEVONSHIRE.

03-08630: CORRECTION: WIRE SPK IN LEAD, 1.5' SE OF THE BCR, 1' NE OF THE NE CURB LINE OF ARLETA, SET IN A STREET LIGHT BASE, AT THE SE CORNER OF PAXTON STREET.

5

CO ENG FB 3665-5

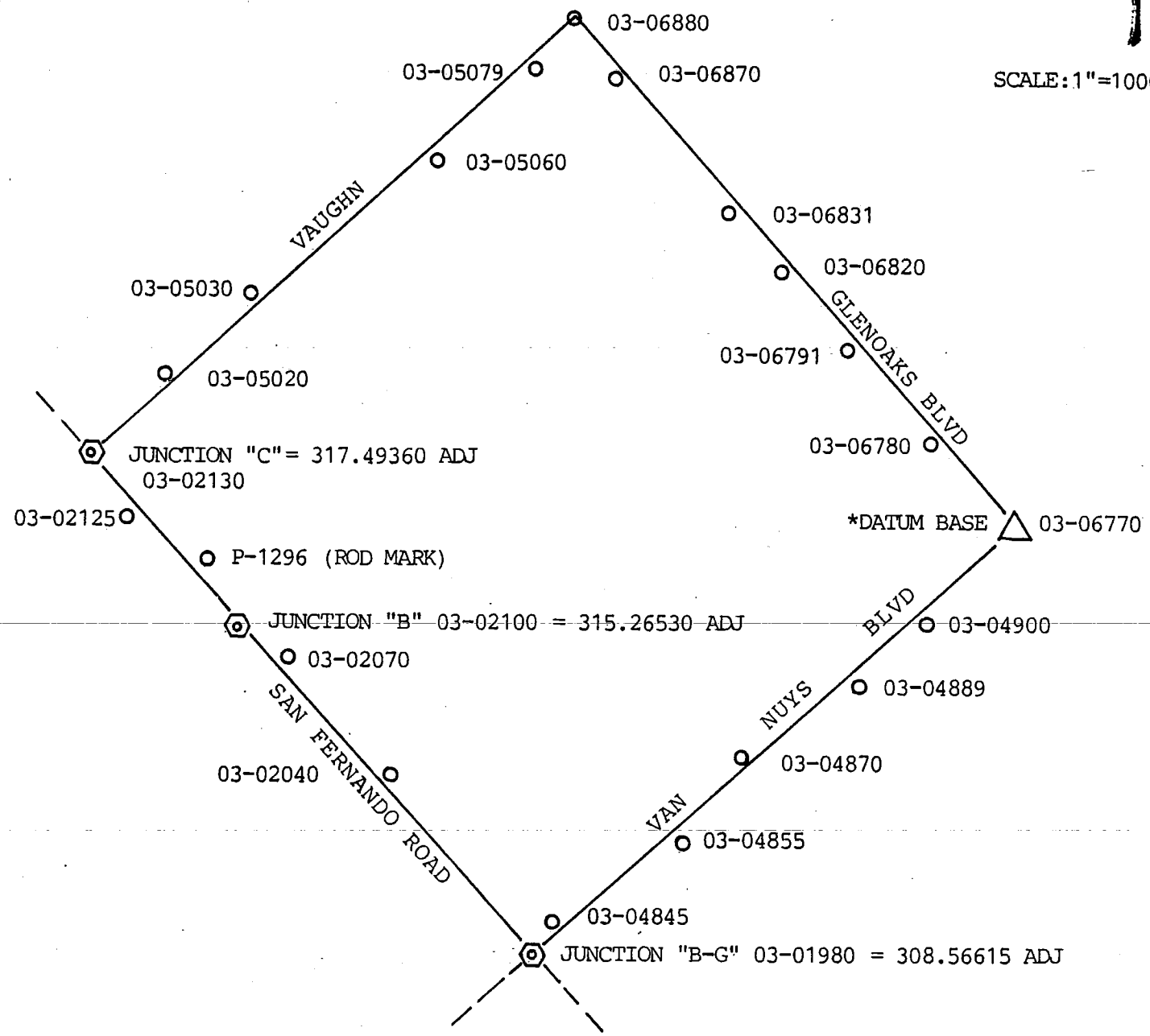
1007-15

R CLARK WILSON, INC
LS 3223

BOUNDARY

CONTROL

PRECISE LEVELS
LOOP "A"



SCALE:1"=1000'

*1975 ADJUSTED ELEVATION
323.314 METERS

FOR: CHEVRON, USA INC
NOVEMBER:DECEMBER
1982

(213) 249-4406
3309 Honolulu Avenue, La Crescenta, CA 91214

R. Clark Wilson
Licensed Land Surveyor

Note: Any additions, changes on this sheet must be made or circled in red ink with date and name of person marking change

INDEXED:

PRECISE LEVEL ABSTRACT

LINK NO. ____ TAPE No. ____ PARTY CHIEF ____ F.B. 1007 PG. 17
ABSTRACT BY: ____ DATE: ____ CHECKED BY: ____ J.N. ____ DATE: ____

CO ENG FB 3665-6

TAPE :CHEV 1 CTR		DATA	BENCH DESCRIPTION	FWD BK or R	SECTION KM or DATE	TOTAL KM or TEMP	SECTION DIFF. MTR or TIME	DIVERGENCE 3mm $\sqrt{K}$ ALLW'D	RUN	TOTAL	FIELD ELEV METERS	ADJ. ELEV. METERS
			03-06770			0.000					0.00000	323.31400
004			03-06780	F	.223	0.223	1.84495				1.84495	325.15895
024			03-06780									
			03-06791	F	.230	0.453	2.57875				4.42370	327.73770
042			03-06791									
			03-06820	F	.206	0.659	1.87960				6.30330	329.61730
062			03-06820									
			03-06831	F	.138	0.797	1.46460				7.76790	331.08190
072			03-06831									
			03-06870	F	.435	1.232	3.25610				11.02400	334.33800
103			03-06870									
			03-06880	F	.122	1.354	0.83600				11.86000	335.17400
114			03-06880									
			03-05079	F	.228	1.582	-2.26690				9.59310	332.90710
136			03-05079									
			03-05060	F	.189	1.771	-2.98975				6.60335	329.91735
140			03-05060									
			03-05030	F	.426	2.197	-5.85960				0.74375	324.05775

LICENSED LAND SURVEYOR
R. CLARK WILSON
No. 3223
STATE OF CALIFORNIA

R. Clark Wilson 11-26-82

(213) 249-4406
3309 Honolulu Avenue, La Crescenta, CA 91214
A. Clark Wilson
Licensed Land Surveyor

Note: Any additions, changes on this sheet must be made or circled in red ink with date and name of person marking change

PRECISE LEVEL ABSTRACT

INDEXED:
LINK NO.
ABSTRACT BY:
TAPE NO.
DATE:
PARTY CHIEF
CHECKED BY:
DATE:
F.B. 1007 PG. 22
J.N.

TAPE CTR	CHEV 1	DATA	BENCH DESCRIPTION	FWD BK or R	SECTION KM or DATE	TOTAL KM or TEMP	SECTION DIFF. MTR or TIME	DIVERGENCE 3mm $\sqrt{K}$ ALLW'D	RUN	TOTAL	FIELD ELEV METERS	ADJ ELEV. METERS
			03-05030			2.197					0.73475	324.05775
185			03-05020	F	.215	2.412	-2.19780				-1.45405	321.85995
			03-05020									
211			03-02130	F	.241	2.653	-4.36635				-5.82040	317.49360
			03-02130									
239			03-02125	F	.085	2.738	-0.33595				-6.15635	317.15765
			03-02125									
254			P-1296 (ROD)	F	.226	2.964	-1.72120				-7.87755	315.43645
			P-1296									
			03-02100	F	.150	3.114	-0.16115				-8.04870	315.26530
			03-02100									
000			03-02070	F	.213	3.327	-1.85955				-9.90825	313.40575
			03-02070									
019			03-02040	F	.300	3.557	-1.78035	(ADJ. TO -1.78107)			-11.68860	311.62468
			03-02040									
038			03-01980	F	.479	4.036	-3.05780	(ADJ. TO -3.05835)			-14.74640	308.56615
			03-01980									
067			03-04845	F	.104	4.140	1.17225				-13.57415	309.73840
			03-04845									
077			03-04855	F	.300	4.440	3.12705				-10.44710	312.86545
			03-04855									
098			03-04870	F	.233	4.673	2.63905				-7.80805	315.50450

LICENSED LAND SURVEYOR A. CLARK WILSON No. 3113 STATE OF CALIFORNIA

X A. Clark Wilson 11-26-82

CO ENG FB 3665-7

(213) 249-4406
3309 Honolulu Avenue, La Crescenta, CA 91214
R. Clark Wilson
Licensed Land Surveyor

Note: Any additions, changes on this sheet must be made or circled in red ink with date and name of person marking change

PRECISE LEVEL ABSTRACT

INDEXED: ____ LINK NO. ____ ABSTRACT BY: ____ TAPE No. ____ DATE: ____ PARTY CHIEF ____ CHECKED BY: ____ DATE: ____ F.B. 1007 PG. 21 J.N. ____

TAPE: CHEV 1

CTR		DATA	BENCH DESCRIPTION	FWD BK or R	SECTION KM or DATE	TOTAL KM or TEMP	SECTION DIFF. MTR or TIME	DIVERGENCE 3mm $\sqrt{K}$ ALLW'D	RUN	TOTAL	FIELD ELEV METERS	ADJ ELEV. METERS
			03-04870			4.673					-7.80805	315.50450
120			03-04889	F	.305	4.978	3.24845				-4.55960	318.75295
			03-04889									
143			03-04900	F	.120	5.098	1.15395				-3.40565	319.90690
			03-04900									
155			03-06770	F	.302	5.400	3.40710				+0.00145	323.31400

LICENSED LAND SURVEYOR R. CLARK WILSON No. 3223 STATE OF CALIFORNIA

R. Clark Wilson 11-26-82

CO ENG FB 3665-8

LOOP "A" PG 1

CO ENG FB 3665-9

1007-23

1

```
**********
(CTR#): 0.004
FROM: 3.06770
TO: 3.0678
START TEMP: 62
CLOSE TEMP: 57
WIND: 0
SUN: 1
#SET UPS: 4
SEC MTRS: 222.8
BAL: 2
D/E(MTRS) 1.84495
DDH: 0.01
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 59.5
DATE: 0
**********
```

2

```
**********
(CTR#): 0.024
FROM: 3.0678
TO: 3.06791
START TEMP: 57
CLOSE TEMP: 57
WIND: 0
SUN: 1
#SET UPS: 4
SEC MTRS: 229.8
BAL:-0.6
D/E(MTRS) 2.57875
DDH:-0.05
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 57
DATE: 0.112282
**********
```

3

```
**********
(CTR#): 0.042
FROM: 3.06791
TO: 3.0682
START TEMP: 57
CLOSE TEMP: 57
WIND: 0
SUN: 1
#SET UPS: 4
SEC MTRS: 206.4
BAL: 0.4
D/E(MTRS) 1.8796
DDH:-0.04
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 57
DATE: 0.112282
**********
```

4

```
**********
(CTR#): 0.062
FROM: 3.06820
TO: 3.06831
START TEMP: 57
CLOSE TEMP: 57
WIND: 0
SUN: 2
#SET UPS: 2
SEC MTRS: 138.2
BAL:-1.4
D/E(MTRS) 1.4646
DDH: 0
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 57
DATE: 0
**********
```

5

```
**********
(CTR#): 0.072
FROM: 3.06831
TO: 3.06870
START TEMP: 57
CLOSE TEMP: 60
WIND: 0
SUN: 1
#SET UPS: 6
SEC MTRS: 434.8
BAL:-1.2
D/E(MTRS) 3.2561
DDH: 0.02
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 58.5
DATE: 0.112282
**********
```

6

```
**********
(CTR#): 0.103
FROM: 3.06870
TO: 3.0688
START TEMP: 60
CLOSE TEMP: 60
WIND: 0
SUN: 1
#SET UPS: 2
SEC MTRS: 122.2
BAL: 0.2
D/E(MTRS) 0.836
DDH:-0.02
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 60
DATE: 0.112282
**********
```

7

```
**********
(CTR#): 0.114
FROM: 3.0688
TO: 3.05079
START TEMP: 60
CLOSE TEMP: 62
WIND: 0
SUN: 1
#SET UPS: 4
SEC MTRS: 227.6
BAL: 0.8
D/E(MTRS)-2.2669
DDH:-0.02
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 61
DATE: 0.112282
**********
```

8

```
**********
(CTR#): 0.136
FROM: 3.05079
TO: 3.0506
START TEMP: 62
CLOSE TEMP: 62
WIND: 0
SUN: 1
#SET UPS: 2
SEC MTRS: 189.2
BAL:-1.2
D/E(MTRS)-2.98975
DDH: 0.01
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 62
DATE: 0.112282
**********
```

9

```
**********
(CTR#): 0.148
FROM: 3.0506
TO: 3.0503
START TEMP: 60
CLOSE TEMP: 62
WIND: 0
SUN: 1
#SET UPS: 6
SEC MTRS: 426.2
BAL:-0.6
D/E(MTRS)-5.8596
DDH:-0.02
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 61
DATE: 0.112282
**********
```

10

```
**********
(CTR#): 0.185
FROM: 3.0503
TO: 3.0502
START TEMP: 62
CLOSE TEMP: 63
WIND: 0
SUN: 1
#SET UPS: 4
SEC MTRS: 215
BAL: 1
D/E(MTRS)-2.1978
DDH: 0.04
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 62.5
DATE: 0.112282
**********
```

11

```
**********
(CTR#): 0.211
FROM: 3.0502
TO: 3.0213
START TEMP: 63
CLOSE TEMP: 63
WIND: 0
SUN: 1
#SET UPS: 4
SEC MTRS: 240.8
BAL:-0.8
D/E(MTRS)-4.36635
DDH:-0.01
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 63
DATE: 0.112282
**********
```

12

```
**********
(CTR#): 0.239
FROM: 3.0213
TO: 3.02125
START TEMP: 63
CLOSE TEMP: 63
WIND: 0
SUN: 1
#SET UPS: 2
SEC MTRS: 84.8
BAL:-0.8
D/E(MTRS)-0.33595
DDH:-0.01
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 63
DATE: 0.112282
**********
```

LOOP "A" PG2

CO ENG FB 3665-10

1007-25

13

****
(CTR#): 0.254
FROM: 3.02125
TO: 1296
START TEMP: 63
CLOSE TEMP: 63
WIND: 0
SUN: 0
#SET UPS: 4
SEC MTRS: 226
BAL:-0.8
D/E(MTRS)-1.7212
DDH: 0
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 63
DATE: 0.112282
****

14

****
(CTR#): 0
FROM: 1296
TO: 3.021
START TEMP: 62
CLOSE TEMP: 62
WIND: 0
SUN: 0
#SET UPS: 2
SEC MTRS: 150
BAL: 0.8
D/E(MTRS)-0.17115
DDH: 0.03
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 62
DATE: 0.112282
****

*15

****
(CTR#): 0
FROM: 3.021
TO: 3.0207
START TEMP: 62
CLOSE TEMP: 62
WIND: 0
SUN: 0
#SET UPS: 4
SEC MTRS: 213
BAL: 1
D/E(MTRS)-1.85955
DDH:-0.03
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 62
DATE: 0.112282
****

16

****
(CTR#): 0.019
FROM: 3.0207
TO: 3.0204
START TEMP: 60
CLOSE TEMP: 60
WIND: 0
SUN: 1
#SET UPS: 4
SEC MTRS: 229.94
BAL:-3.26
D/E(MTRS)-1.78035
DDH:-0.01
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 60
DATE: 0.112382
****

17

****
(CTR#): 0.038
FROM: 3.0204
TO: 3.0198
START TEMP: 60
CLOSE TEMP: 60
WIND: 0
SUN: 1
#SET UPS: 6
SEC MTRS: 479
BAL:-0.6
D/E(MTRS)-3.0578
DDH: 0.02
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 60
DATE: 0.112382
****

18

****
(CTR#): 0.067
FROM: 3.0198
TO: 3.04845
START TEMP: 60
CLOSE TEMP: 60
WIND: 0
SUN: 0
#SET UPS: 2
SEC MTRS: 104.2
BAL: 1
D/E(MTRS) 1.17225
DDH:-0.01
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 60
DATE: 0.112382
****

19

****
(CTR#): 0.077
FROM: 3.04845
TO: 3.04855
START TEMP: 57
CLOSE TEMP: 57
WIND: 0
SUN: 0
#SET UPS: 4
SEC MTRS: 300
BAL: 1.2
D/E(MTRS) 3.12705
DDH: 0.01
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 57
DATE: 0.112382
****

20

****
(CTR#): 0.098
FROM: 3.04855
TO: 3.0487
START TEMP: 57
CLOSE TEMP: 60
WIND: 0
SUN: 1
#SET UPS: 4
SEC MTRS: 233
BAL:-1
D/E(MTRS) 2.63905
DDH:-0.03
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 58.5
DATE: 0.112382
****

21

****
(CTR#): 0.12
FROM: 3.0487
TO: 3.04889
START TEMP: 57
CLOSE TEMP: 58
WIND: 0
SUN: 0
#SET UPS: 4
SEC MTRS: 305.2
BAL: 1.2
D/E(MTRS) 3.24845
DDH:-0.05
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 57.5
DATE: 0.112382
****

22

****
(CTR#): 0.143
FROM: 3.04889
TO: 3.049
START TEMP: 58
CLOSE TEMP: 58
WIND: 0
SUN: 0
#SET UPS: 2
SEC MTRS: 119.8
BAL:-0.2
D/E(MTRS) 1.15395
DDH: 0.03
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 58
DATE: 0.112382
****

23

****
(CTR#): 0.155
FROM: 3.049
TO: 3.0677
START TEMP: 58
CLOSE TEMP: 58
WIND: 0
SUN: 0
#SET UPS: 4
SEC MTRS: 301.6
BAL:-1.2
D/E(MTRS) 3.4071
DDH: 0
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 58
DATE: 0.12382
****

$K = \cancel{1.36}\ 5.400$

$8m\sqrt{K} = 18.6mm$

$E_c = 1.45\,mm$

$1.0\sqrt{K} = 2.32mm$

$0.62\sqrt{K} = 1.44mm$

CO ENG FB 3665-11

1007-27

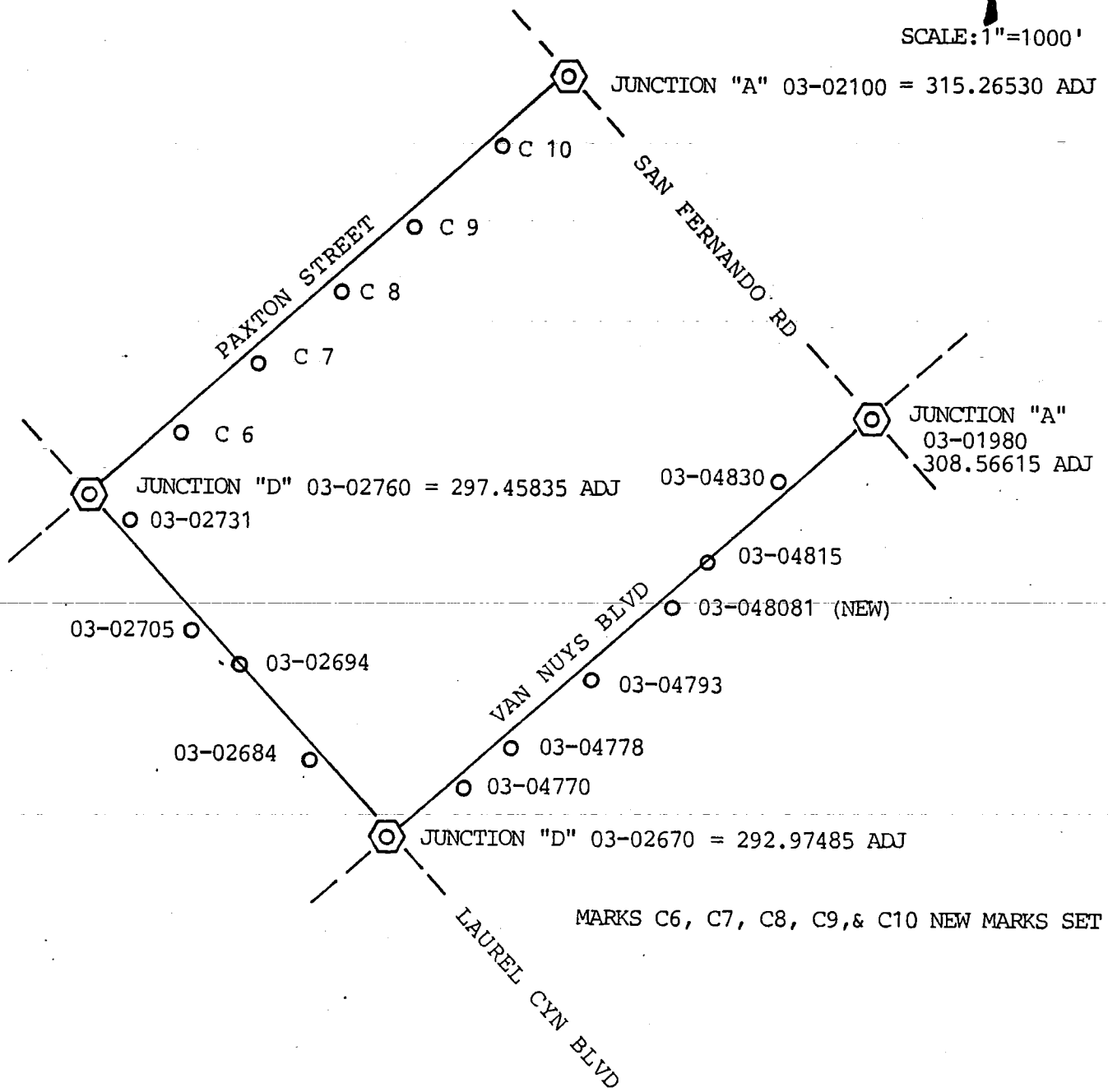
R CLARK WILSON, INC
LS 3223

PRECISE LEVELS
LOOP "B"

BOUNDARY

CONTROL

SCALE:1"=1000'



MARKS C6, C7, C8, C9,& C10 NEW MARKS SET

FOR: CHEVRON, USA INC
NOVEMBER:DECEMBER
1982

(213) 249-4406
3309 Honolulu Avenue, La Crescenta, CA 91214
R. Clark Wilson
Licensed Land Surveyor

Note: Any additions, changes on this sheet must be made or circled in red ink with date and name of person marking change

PRECISE LEVEL ABSTRACT

INDEXED: _____ LINK NO. _____ ABSTRACT BY: _____ DATE: _____ TAPE No. _____ PARTY CHIEF _____ CHECKED BY: _____ DATE: _____ F.B. 1007 J.N. _____ PG. 22

TAPE: CHEV 2

CTR		DATA	BENCH DESCRIPTION	FWD BK or R	SECTION KM or DATE	TOTAL KM or TEMP	SECTION DIFF. MTR or TIME	DIVERGENCE 3mm $\sqrt{K}$ ALLW'D	RUN	TOTAL	FIELD ELEV. METERS	ADJ ELEV. METERS
			03-02100			0.000		JUNCTION MARK, LOOP "A"				315.26530
000	"A"		C 10	F	.266	0.266	-3.20890				2.05640	312.05628
			C 10									
018			C 9	F	.259	0.525	-4.13550				7.92090	307.92067
			C 9									
210			C 8	F	.242	0.767	-2.51990				5.40100	305.40067
			C 8									
077			C 7	F	.212	0.980	-2.79085				2.61015	302.60972
			C 7									
098			C 6	F	.174	1.153	-2.04935				0.56080	300.56030
			C 6									
109			03-02760	F	.220	1.373	-3.10185	JUNCTION MARK, LOOP "D"			7.45895	297.45835
			03-02760									
131			03-02731	F	.137	1.510	-0.47900				6.97995	296.97929
			03-02731									
142			03-02705	F	.245	1.755	-1.08610				5.89385	295.89309
			03-07505									
167			03-02694	F	.108	1.863	-1.24065				4.65320	294.65239
			03-02694									
179			03-02684	F	.232	2.095	-0.86445				3.78875	293.78784
			03-02684									
238			03-02670	F	.212	2.308	-0.81290	JUNCTION MARK, LOOP "D"			2.97585	292.97485

LICENSED LAND SURVEYOR R. CLARK WILSON No. 3223 STATE OF CALIFORNIA

CO ENG FB 3665-12

(213) 249-4406
3309 Honolulu Avenue, La Crescenta, CA 91214
R. Clark Wilson
Licensed Land Surveyor

Note: Any additions, changes on this sheet must be made or circled in red ink with date and name of person marking change

PRECISE LEVEL ABSTRACT

INDEXED:
LINK NO.
ABSTRACT BY:
TAPE No.
DATE:
PARTY CHIEF
CHECKED BY:
F.B. 1007 PG. 34
J.N.
DATE:

TAPE: CHEV 2 CTR		DATA	BENCH DESCRIPTION	FWD BK or R	SECTION KM or DATE	TOTAL KM or TEMP	SECTION DIFF. MTR or TIME	DIVERGENCE 3mm $\sqrt{K}$ ALLW'D	RUN	TOTAL	FIELD ELEV METERS	ADJ. ELEV. METERS
			03-02670			2.308					2.97585	292.97485
000	"B"		03-04770	F	.192	2.500	2.51035				5.48620	295.48511
			03-04770									
018			03-04778	F	.109	2.609	1.18170				6.66790	296.66676
			03-04778									
028			03-04793	F	.207	2.816	2.84600				9.51390	299.51267
			03-04793									
041			03-048081	F	.204	3.020	2.60400	(NEW MARK)			2.11790	302.11659
			03-048081									
066			03-04815	F	.113	3.133	0.97425				3.09515	303.09379
			03-04815									
077			03-04830	F	.218	3.351	2.53745				5.63260	305.63114
			03-04830									
097			03-01980	F	.209	3.560	2.93510				8.56770	308.56615
											(+.00155)	

LICENSED LAND SURVEYOR R. CLARK WILSON No. 3223 STATE OF CALIFORNIA

CU ENG FB 3665-13

1-1

LOOP "E"

1007-33

1

****
(CTR#): 0
FROM: 3.021
TO: 10
START TEMP: 67
CLOSE TEMP: 67
WIND: 1
SUN: 2
#SET UPS: 4
SEC MTRS: 266.2
BAL:-0.6
D/E(MTRS)-3.2089
DDH:-0.02
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 67
DATE: 0.24
****

2

****
(CTR#): 0.018
FROM: 3.1
TO: 3.09
START TEMP: 67
CLOSE TEMP: 67
WIND: 1
SUN: 2
#SET UPS: 4
SEC MTRS: 259.2
BAL: 0.4
D/E(MTRS)-4.1355
DDH:-0.04
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 67
DATE: 0.112482
****

3

****
(CTR#): 0.21
FROM: 3.09
TO: 3.08
START TEMP: 70
CLOSE TEMP: 70
WIND: 1
SUN: 1
#SET UPS: 4
SEC MTRS: 242.4
BAL:-0.8
D/E(MTRS)-2.5199
DDH:-0.04
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 70
DATE: 0.112682
****

4

****
(CTR#): 0.077
FROM: 3.08
TO: 3.07
START TEMP: 70
CLOSE TEMP: 71
WIND: 1
SUN: 2
#SET UPS: 4
SEC MTRS: 212.4
BAL: 0.8
D/E(MTRS)-2.79085
DDH:-0.03
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 70.5
DATE: 0.112482
****

5

****
(CTR#): 0.098
FROM: 3.07
TO: 3.06
START TEMP: 71
CLOSE TEMP: 71
WIND: 1
SUN: 2
#SET UPS: 2
SEC MTRS: 173.6
BAL:-1.2
D/E(MTRS)-2.04935
DDH: 0.01
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 71
DATE: 0.112482
****

6

****
(CTR#): 0.109
FROM: 3.06
TO: 3.0276
START TEMP: 71
CLOSE TEMP: 71
WIND: 1
SUN: 2
#SET UPS: 4
SEC MTRS: 220
BAL:-0.8
D/E(MTRS)-3.10185
DDH:-0.01
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 71
DATE: 0.112482
****

7

****
(CTR#): 0.131
FROM: 3.0276
TO: 3.02731
START TEMP: 71
CLOSE TEMP: 71
WIND: 1
SUN: 2
#SET UPS: 2
SEC MTRS: 136.4
BAL:-0.4
D/E(MTRS)-0.479
DDH: 0
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 71
DATE: 0.112482
****

8

****
(CTR#): 0.142
FROM: 3.02731
TO: 3.02705
START TEMP: 71
CLOSE TEMP: 71
WIND: 1
SUN: 2
#SET UPS: 4
SEC MTRS: 245.2
BAL: 0.8
D/E(MTRS)-1.0861
DDH: 0.04
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 71
DATE: 0.112482
****

9

****
(CTR#): 0.167
FROM: 3.02705
TO: 3.02694
START TEMP: 74
CLOSE TEMP: 74
WIND: 1
SUN: 2
#SET UPS: 2
SEC MTRS: 108.2
BAL:-0.2
D/E(MTRS)-1.24665
DDH: 0.01
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 74
DATE: 0.112482
****

10

****
(CTR#): 0.179
FROM: 3.02694
TO: 3.02684
START TEMP: 74
CLOSE TEMP: 74
WIND: 1
SUN: 2
#SET UPS: 4
SEC MTRS: 232.4
BAL:-1.6
D/E(MTRS)-0.86445
DDH: 0.05
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 74
DATE: 0.112482
****

11

****
(CTR#): 0.238
FROM: 3.02684
TO: 3.0267
START TEMP: 70
CLOSE TEMP: 70
WIND: 1
SUN: 1
#SET UPS: 4
SEC MTRS: 212.4
BAL: 0
D/E(MTRS)-0.8129
DDH:-0.04
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 70
DATE: 0.112682
****

12

****
(CTR#): 0.001
FROM: 3.0267
TO: 3.0477
START TEMP: 74
CLOSE TEMP: 74
WIND: 1
SUN: 1
#SET UPS: 4
SEC MTRS: 191.8
BAL:-0.6
D/E(MTRS) 2.51035
DDH: 0.03
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 74
DATE: 0.112682
****

13

****
(CTR#): 0.018
FROM: 3.0477
TO: 3.04778
START TEMP: 74
CLOSE TEMP: 74
WIND: 1
SUN: 2
#SET UPS: 2
SEC MTRS: 109.2
BAL: 1.6
D/E(MTRS) 1.1817
DDH: 0
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 74
DATE: 0.112682
****

14

****
(CTR#): 0.028
FROM: 3.04778
TO: 3.04793
START TEMP: 74
CLOSE TEMP: 74
WIND: 1
SUN: 1
#SET UPS: 4
SEC MTRS: 207.2
BAL: 0
D/E(MTRS) 2.846
DDH: 0.04
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 74
DATE: 0.112682
****

15

****
(CTR#): 0.041
FROM: 3.04793
TO: 3.048081
START TEMP: 74
CLOSE TEMP: 74
WIND: 1
SUN: 1
#SET UPS: 4
SEC MTRS: 204.2
BAL:-0.6
D/E(MTRS) 2.604
DDH:-0.06
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 74
DATE: 0.112682
****

16

****
(CTR#): 0.066
FROM: 3.048081
TO: 3.04815
START TEMP: 74
CLOSE TEMP: 74
WIND: 1
SUN: 1
#SET UPS: 2
SEC MTRS: 113
BAL:-0.6
D/E(MTRS) 0.97725
DDH:-0.01
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 74
DATE: 0.112682
****

17

****
(CTR#): 0.077
FROM: 3.04815
TO: 3.0483
START TEMP: 74
CLOSE TEMP: 74
WIND: 1
SUN: 1
#SET UPS: 4
SEC MTRS: 218
BAL: 0
D/E(MTRS) 2.53745
DDH: 0.03
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 74
DATE: 0.112682
****

18

****
(CTR#): 0.097
FROM: 3.0483
TO: 3.0198
START TEMP: 74
CLOSE TEMP: 74
WIND: 1
SUN: 1
#SET UPS: 4
SEC MTRS: 208.8
BAL: 0
D/E(MTRS) 2.9351
DDH: 0.02
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 74
DATE: 0.112682
****

CO ENG FB 3665-15

1007-35

R CLARK WILSON, INC

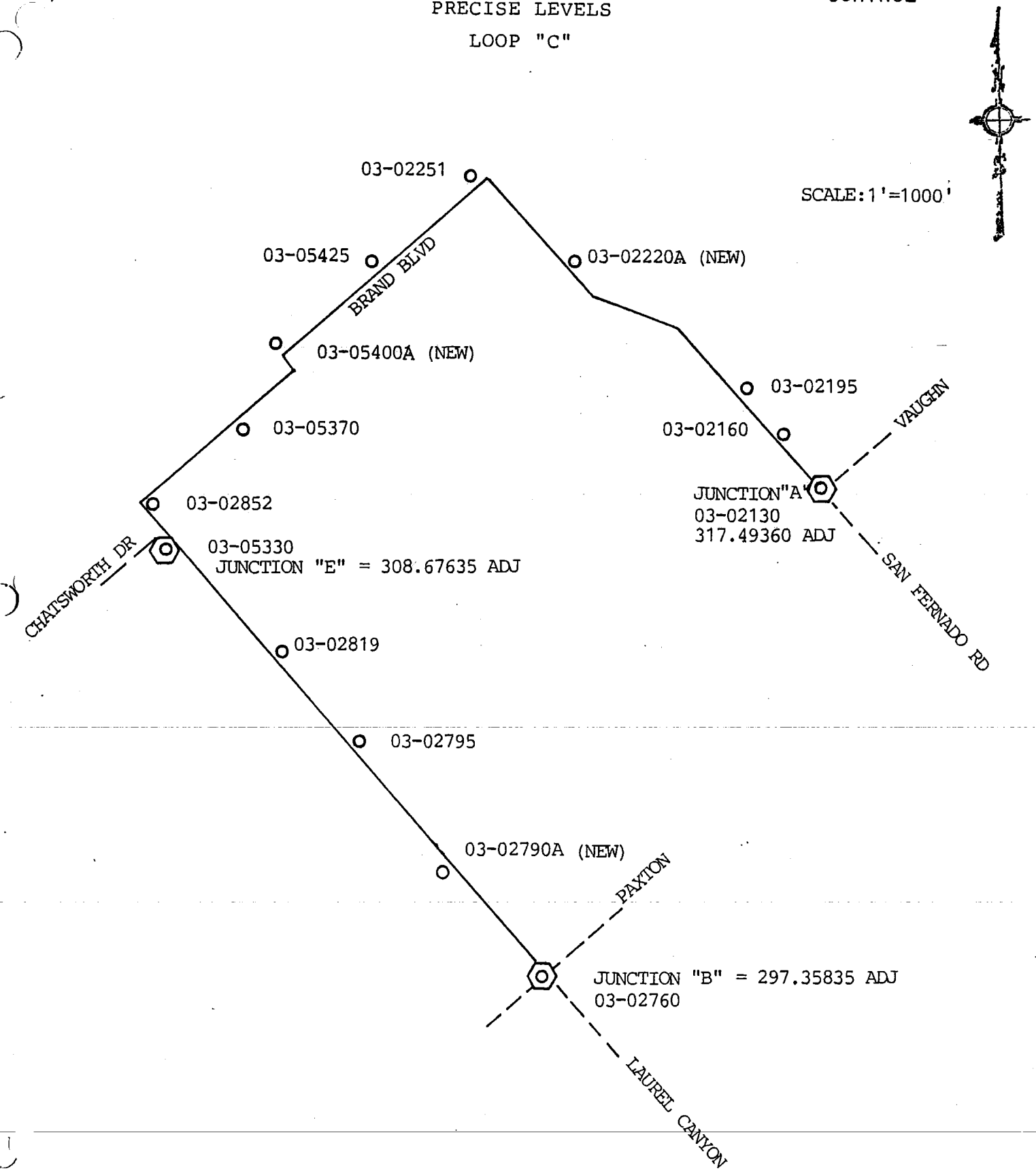
LS 3223

PRECISE LEVELS

LOOP "C"

BOUNDARY

CONTROL



FOR: CHEVRON, USA INC
NOVEMBER:DECEMBER
1982

(213) 249-4406
3309 Honolulu Avenue, La Crescenta, CA 91214
R. Clark Wilson
Licensed Land Surveyor

Note: Any additions, changes on this sheet must be made or circled in red ink with date and name of person marking change

PRECISE LEVEL ABSTRACT

INDEXED:

LINK NO. ____ ABSTRACT BY: ____ DATE: ____

TAPE No. ____ PARTY CHIEF ____ CHECKED BY: ____ DATE: ____

F.B. 1027 J.N. ____ PG. 37

CO ENG FB 3665-16

TAPE CHEV 2 " 3 / CTR	DATA	BENCH DESCRIPTION	FWD BK or R	SECTION KM or DATE	TOTAL KM or TEMP	SECTION DIFF. MTR or TIME	DIVERGENCE 3mm $\sqrt{K}$ ALLW'D	RUN	TOTAL	field elev METERS	ADJ ELEV. METERS
		03-02130					(JUNCTION LOOP "A")			0.00000	317.49360
119 2"B"		03-02160	F	.163	0.163	2.02045				2.02045	319.51763
		03-02160									
130		03-02195	F	.161	0.325	0.70880				2.73285	320.22642
		03-02195									
142		03-02220A	F	.504	0.829	1.60995				4.34280	321.83631
		03-02220A									
178		03-02251	F	.321	1.150	1.32695				5.66975	323.16323
		03-02251									
204		03-05425	F	.310	1.461	-3.30310				1.36665	318.86009
		03-05425									
231		03-05400A	F	.319	1.780	-3.99415				-2.62750	314.86591
		03-05400A									
001 3"A"		03-05370	F	.170	1.951	-2.00985				-4.63735	312.85604
		03-05370									
011		03-02852	F	.279	2.230	-2.88305				-7.52040	309.97296
		03-02852									
029		03-05330	F	.130	2.360	-1.29660	(JUNCTION LOOP "B")			-8.81700	308.67635
		03-05330									
038		03-02819	F	.358	2.719	-3.76365				-12.58065	304.91266
		03-02819									
038		03-02795	F	.309	3.028	-2.60395				-15.18460	302.30868

LICENSED LAND SURVEYOR R. CLARK WILSON No. 3223 STATE OF CALIFORNIA
12-2-82

(213) 249-4406
3309 Honolulu Avenue, La Crescenta, CA 91214

R. Clark Wilson
Licensed Land Surveyor

Note: Any additions, changes on this sheet must be made or circled in red ink with date and name of person marking change

INDEXED:

PRECISE LEVEL ABSTRACT

LINK NO. _____ TAPE No. _____ PARTY CHIEF _____ F.B. 1007 PG. 39
ABSTRACT BY: _____ DATE: _____ CHECKED BY: _____ J.N. _____ DATE: _____

CO ENG FB 3665-17

TAPE CHEV 3 CTR		DATA	BENCH DESCRIPTION	FWD BK or R	SECTION KM or DATE	TOTAL KM or TEMP	SECTION DIFF. MTR or TIME	DIVERGENCE 3mm $\sqrt{K}$ ALLW'D	RUN	TOTAL	FIELD ELEV METERS	ADJ ELEV. METERS
			03-02795			3.028					-15.18460	302.30868
081	"A"		03-02790A	F	.336	3.364	-2.83035				-18.01495	299.47829
			03-02790A									
101			03-02760	F	.385	3.750	-2.01990	(JUNCTION LOOP "B"			-20.03485	297.35835
								(JUNCTION "A" TO "B" =)			-20.03525	
										ERROR	+ 0.00040	

LICENSED LAND SURVEYOR
R. CLARK WILSON
No. 3223
STATE OF CALIFORNIA
12-2-80

LOOP "C"

1007-21

1

```
**********
(CTR#): 0.119
FROM: 3.0213
 3.0216
..ART TEMP: 72
CLOSE TEMP: 72
WIND: 1
SUN: 1
#SET UPS: 2
SEC MTRS: 163
BAL: 0.6
D/E(MTRS) 2.02405
DDH: 0.01
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 72
DATE: 0.112682
**********
```

2

```
**********
(CTR#): 0.13
FROM: 3.0216
TO: 3.02195
START TEMP: 72
CLOSE TEMP: 72
WIND: 1
SUN: 0
#SET UPS: 2
SEC MTRS: 161.8
BAL: 0.6
D/E(MTRS) 0.7088
DDH:-0.04
INST # 422207
ROD#(A:B) 1979
..EAN TEMP) 72
..E: 0.112682
**********
```

3

```
**********
(CTR#): 0.142
FROM: 3.02195
TO: 3.022201
START TEMP: 72
CLOSE TEMP: 71
WIND: 1
SUN: 0
#SET UPS: 6
SEC MTRS: 502.4
BAL: 1.2
D/E(MTRS) 1.60995
DDH:-0.03
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 71.5
DATE: 0.112682
**********
```

4

```
**********
(CTR#): 0.178
FROM: 3.022201
TO: 3.02251
START TEMP: 54
CLOSE TEMP: 54
WIND: 0
SUN: 2
#SET UPS: 4
..MTRS: 321
..: 3
D/E(MTRS) 1.32695
DDH: 0.01
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 54.089
DATE: 0.12182
**********
```

5

```
**********
(CTR#): 0.204
FROM: 3.02251
TO: 3.05425
START TEMP: 54
CLOSE TEMP: 56
WIND: 0
SUN: 2
#SET UPS: 4
SEC MTRS: 310.6
BAL:-0.2
D/E(MTRS)-4.3031
DDH: 0
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 55.102
DATE: 0.12182
**********
```

6

```
**********
(CTR#): 0.231
FROM: 3.05425
TO: 3.054001
START TEMP: 56
CLOSE TEMP: 56
WIND: 0
SUN: 2
#SET UPS: 4
SEC MTRS: 319.2
BAL: 2
D/E(MTRS)-3.99415
DDH:-0.05
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 56.1155
DATE: 0.12182
**********
```

7

```
**********
(CTR#): 0.001
FROM: 3.054001
TO: 3.057
START TEMP: 56
CLOSE TEMP: 60
WIND: 0
SUN: 2
#SET UPS: 2
SEC MTRS: 170.8
BAL: 1.2
D/E(MTRS)-2.00985
DDH:-0.03
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 58.0005
DATE: 0.12182
**********
```

8

```
**********
(CTR#): 0.01
FROM: 3.0537
TO: 3.02852
START TEMP: 60
CLOSE TEMP: 60
WIND: 0
SUN: 2
#SET UPS: 4
SEC MTRS: 279
BAL:-0.2
D/E(MTRS)-2.88305
DDH:-0.05
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 60.005
DATE: 0.12182
**********
```

9

```
**********
(CTR#): 0.029
FROM: 3.02852
TO: 3.0533
START TEMP: 60
CLOSE TEMP: 60.5145
WIND: 0
SUN: 2
#SET UPS: 2
SEC MTRS: 130.2
BAL: 0.2
D/E(MTRS)-1.2966
DDH: 0.02
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 60.27175
DATE: 0.12182
**********
```

10

```
**********
(CTR#): 0.038
FROM: 3.0533
TO: 3.02819
START TEMP: 61
CLOSE TEMP: 0
WIND: 0
SUN: 1
#SET UPS: 4
SEC MTRS: 358.8
BAL: 0
D/E(MTRS)-3.76365
DDH: 0.01
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 30.519
DATE: 0.120182
**********
```

11

```
**********
(CTR#): 0.038
FROM: 3.0533                    3.02819
TO: 3.02819                     3.02795
START TEMP: 61
CLOSE TEMP: 60
WIND: 0
SUN: 1
#SET UPS: 8                     4
SEC MTRS: 668.2                 309.4
BAL: 0.2
D/E(MTRS)-6.3676                -2.60395
DDH: 0.02
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 60.519
DATE: 0.120182
**********
```

L/E = − 0.40 mm

12

```
.........
**********
(CTR#): 0.08
FROM: 3.02795
TO: 3.027901
START TEMP: 56
CLOSE TEMP: 56
WIND: 2
SUN: 1
#SET UPS: 4
SEC MTRS: 336
BAL: 0.4
D/E(MTRS)-2.83035
DDH:-0.05
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 56.04
DATE: 0.120182
**********
```

13

```
**********
(CTR#): 0.101
FROM: 3.027901
TO: 3.0276
START TEMP: 56
CLOSE TEMP: 56
WIND: 1
SUN: 1
#SET UPS: 6
SEC MTRS: 385.6
BAL: 0.4
D/E(MTRS)-2.0199
DDH: 0
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 56.0505
DATE: 0.120182
**********
```

445.913
C=(M): 0.0205

B ROD=(L): 111.786

CO ENG FB 3865-19

1007-43

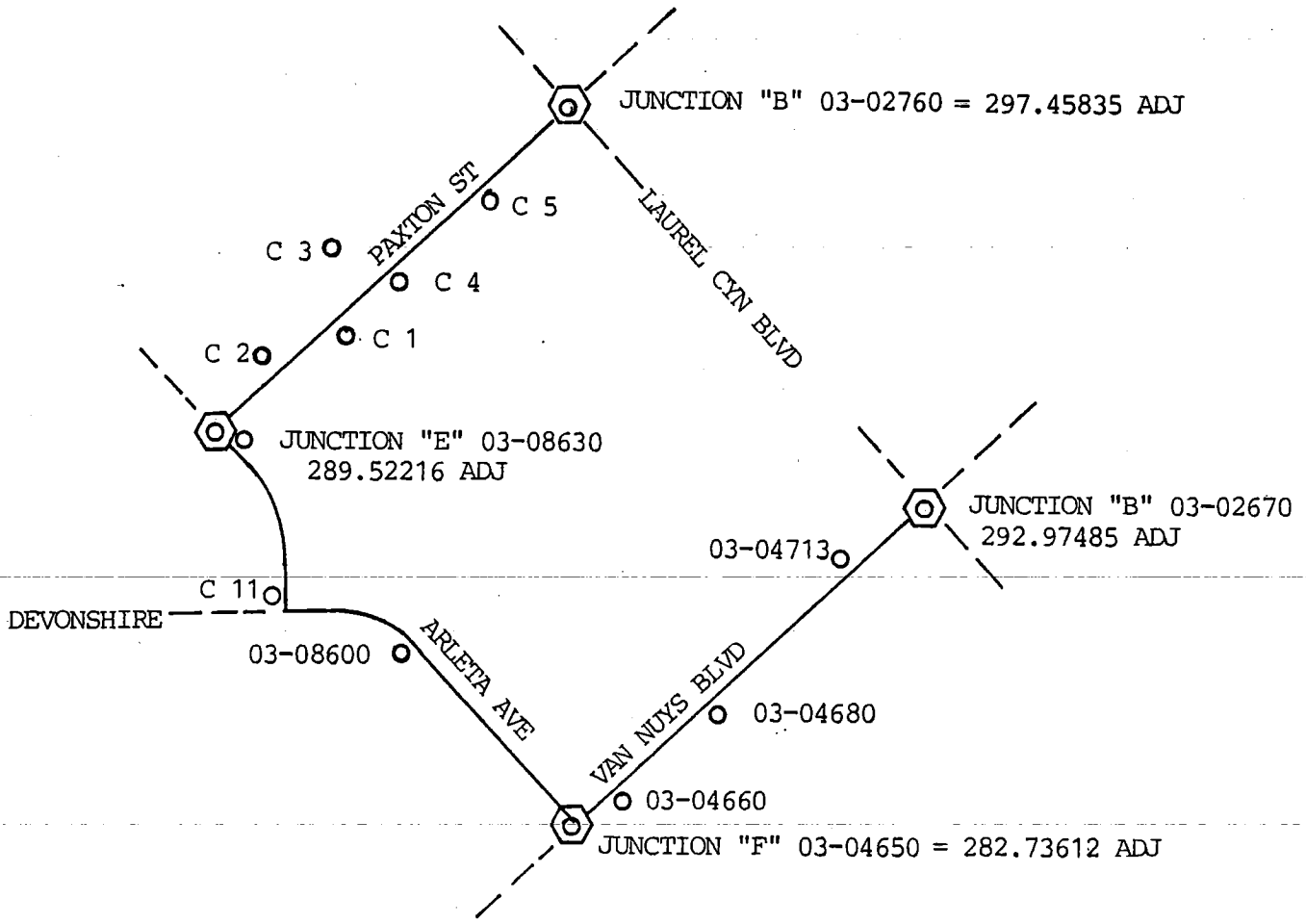
R CLARK WILSON, INC
LS 3223

PRECISE LEVELS
LOOP "D"

BOUNDARY

CONTROL

SCALE:1"=1000'



MARKS C1 THRU C5 NEW MARKS SET

MARKS C2 & C3 LOCATED IN DRILL SITE

FOR: CHEVRON, USA INC
NOVEMBER:DECEMBER
1982

(213) 249-4406
3309 Honolulu Avenue, La Crescenta, CA 91214
R. Clark Wilson
Licensed Land Surveyor

Note: Any additions, changes on this sheet must be made or circled in red ink with date and name of person marking change

PRECISE LEVEL ABSTRACT

INDEXED: ____ LINK NO. ____ ABSTRACT BY: ____ DATE: ____ TAPE No. ____ PARTY CHIEF ____ CHECKED BY: ____ DATE: ____ F.B. 1227 J.N. ____ PG. 45

TAPE CHEV 3 CTR		DATA	BENCH DESCRIPTION	FWD BK or R	SECTION KM or DATE	TOTAL KM or TEMP	SECTION DIFF. MTR or TIME	DIVERGENCE 3mm $\sqrt{K}$ ALLW'D	RUN	TOTAL	FIELD ELEV METERS	ADJ ELEV METERS
			03-02760			0.000		(JUNCTION "B")			0.00000	297.45835
133	"B"		C 5	F	.237	0.237	-2.07230				- 2.07230	295.38592
			C 5									
157			C 4	F	.165	0.402	-2.35510				- 4.42740	293.03072
			C 4									
181			C 1	F	.136	0.538	-1.72995				- 6.15736	291.30070
			C 1									
194			C 3	F	.171	0.709	2.11350				- 4.04385	293.41410
			C 3									
221			C 2	F	.157	0.866	0.74945				- 4.79330	292.66456
			C 2									
249			03-08630	F	.267	1.133	-3.14225		(JUNCTION "E")		- 7.93555	289.52216
			03-08630									
023	4 "A"		C 11	F	.251	1.384	-2.03715				- 9.97270	287.48487
			C 11									
042			03-08600	F	.260	1.644	-1.49785				-11.47055	285.98687
			03-08600									
062			03-04650	F	.432	2.076	-3.25050	(JUNCTION "F")			-14.72105	282.73612
			03-04650									
104			03-04660	F	.101	2.177	1.09515				-13.62590	283.83122
			03-04660									
115			03-04680	F	.203	2.380	2.51245				-11.11345	286.34355

LICENSED LAND SURVEYOR R. CLARK WILSON No. 3223 STATE OF CALIFORNIA

CO ENG FB 3665-20

(213) 249-4406
3309 Honolulu Avenue, La Crescenta, CA 91214
R. Clark Wilson
Licensed Land Surveyor

Note: Any additions, changes on this sheet must be made or circled in red ink with date and name of person marking change

PRECISE LEVEL ABSTRACT

INDEXED: ____ LINK NO. ____ ABSTRACT BY: ____ DATE: ____ TAPE No. ____ PARTY CHIEF ____ CHECKED BY: ____ DATE: ____ F.B. 1117 PG 47 J.N. ____

TAPE CHEV 4 CTR		DATA	BENCH DESCRIPTION	FWD BK or R	SECTION KM or DATE	TOTAL KM or TEMP	SECTION DIFF. MTR or TIME	DIVERGENCE 3mm $\sqrt{K}$ ALLW'D	RUN	TOTAL	FIELD ELEV METERS	ADJ ELEV. ELEV. METERS
			03-04680			2.380					-11.11345	286.34355
138			03-04713	F	.343	2.723	4.30650				- 6.80695	290.64986
			03-04713									
174			03-02670	F	.187	2.910	2.32510	(JUNCTION "B")			- 4.48185	292.97485
								(JUNCTION "B" TO		"B"=)	- 4.48350	
										ERROR =	+ 0.00165	

LICENSED LAND SURVEYOR R. CLARK WILSON No. 3223 STATE OF CALIFORNIA

co eng fb 3665-21

LOOP "D" 22

CO ENG FB 3665-22

1007-49

1

```
**********
(CTR#): 0.133
FROM: 3.0276
TO: 3.05
START TEMP: 56
CLOSE TEMP: 57
WIND: 2
SUN: 1
#SET UPS: 4
SEC MTRS: 237
BAL:-2.2
D/E(MTRS)-2.0723
DDH: 0
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 56.5
DATE: 0.120182
**********
```

2

```
**********
(CTR#): 0.157
FROM: 3.05
TO: 3.04
START TEMP: 57
CLOSE TEMP: 56
WIND: 1
SUN: 1
#SET UPS: 4
SEC MTRS: 165.2
BAL: 0
D/E(MTRS)-2.3551
DDH:-0.04
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 56.5
DATE: 0.120182
**********
```

3

```
**********
(CTR#): 0.181
FROM: 3.04
TO: 3.01
START TEMP: 52
CLOSE TEMP: 52
WIND: 1
SUN: 2
#SET UPS: 2
SEC MTRS: 136.4
BAL: 0
D/E(MTRS)-1.72995
DDH: 0.01
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 52
DATE: 0.120282
**********
```

4

```
**********
(CTR#): 0.194
FROM: 3.01
TO: 3.03
START TEMP: 52
CLOSE TEMP: 55
WIND: 1
SUN: 2
#SET UPS: 4
SEC MTRS: 171.6
BAL: 0
D/E(MTRS) 2.1135
DDH: 0
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 53.5
DATE: 0.120282
**********
```

5

```
**********
(CTR#): 0.221
FROM: 3.03
TO: 3.02
START TEMP: 55
CLOSE TEMP: 55
WIND: 1
SUN: 2
#SET UPS: 4
SEC MTRS: 157.6
BAL: 0
D/E(MTRS)-0.74945
DDH: 0.01
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 55
DATE: 0.120282
**********
```

6

```
**********
(CTR#): 0.249
FROM: 3.02
TO: 3.0863
START TEMP: 55
CLOSE TEMP: 61
WIND: 1
SUN: 2
#SET UPS: 6
SEC MTRS: 267.6
BAL: 1.6
D/E(MTRS)-3.14225
DDH:-0.03
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 58
DATE: 0.120282
**********
```

7

```
**********
(CTR#): 0.023
FROM: 3.0863
TO: 3.11
START TEMP: 61
CLOSE TEMP: 60
WIND: 1
SUN: 2
#SET UPS: 4
SEC MTRS: 251.4
BAL: 0.6
D/E(MTRS)-2.03715
DDH: 0.07
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 60.5
DATE: 0.120282
**********
```

8

```
**********
(CTR#): 0.042
FROM: 3.11
TO: 3.086
START TEMP: 60
CLOSE TEMP: 60
WIND: 1
SUN: 2
#SET UPS: 4
SEC MTRS: 260.8
BAL:-0.8
D/E(MTRS)-1.49785
DDH:-0.03
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 60
DATE: 0.120282
**********
```

9

```
**********
(CTR#): 0.062
FROM: 3.086
TO: 3.0465
START TEMP: 60
CLOSE TEMP: 64
WIND: 1
SUN: 2
#SET UPS: 8
SEC MTRS: 432.2
BAL: 3
D/E(MTRS)-3.2505
DDH:-0.04
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 62
DATE: 0.120282
**********
```

10

```
**********
(CTR#): 0.104
FROM: 3.0465
TO: 3.0466
START TEMP: 64
CLOSE TEMP: 64
WIND: 0
SUN: 2
#SET UPS: 2
SEC MTRS: 101.2
BAL:-0.8
D/E(MTRS) 1.09515
DDH: 0.03
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 64
DATE: 0.120282
**********
```

11

```
**********
(CTR#): 0.115
FROM: 3.0466
TO: 3.0468
START TEMP: 64
CLOSE TEMP: 64
WIND: 1
SUN: 2
#SET UPS: 4
SEC MTRS: 203
BAL:-1
D/E(MTRS) 2.51245
DDH:-0.05
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 64
DATE: 0.120282
**********
```

12

```
**********
(CTR#): 0.138
FROM: 3.0468
TO: 3.04713
START TEMP: 64
CLOSE TEMP: 65
WIND: 1
SUN: 2
#SET UPS: 6
SEC MTRS: 343.8
BAL:-0.6
D/E(MTRS) 4.3065
DDH: 0
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 64.5
DATE: 0.120282
**********
```

13

```
**********
(CTR#): 0.174
FROM: 3.04713
TO: 3.0267
START TEMP: 65
CLOSE TEMP: 65
WIND: 1
SUN: 2
#SET UPS: 4
SEC MTRS: 187
BAL: 0.6
D/E(MTRS) 2.3251
DDH:-0.04
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 65
DATE: 0.120282
**********
```

ec = +1.65 mm

23

CO ENG FB 3665-23

1007-51

R CLARK WILSON, INC

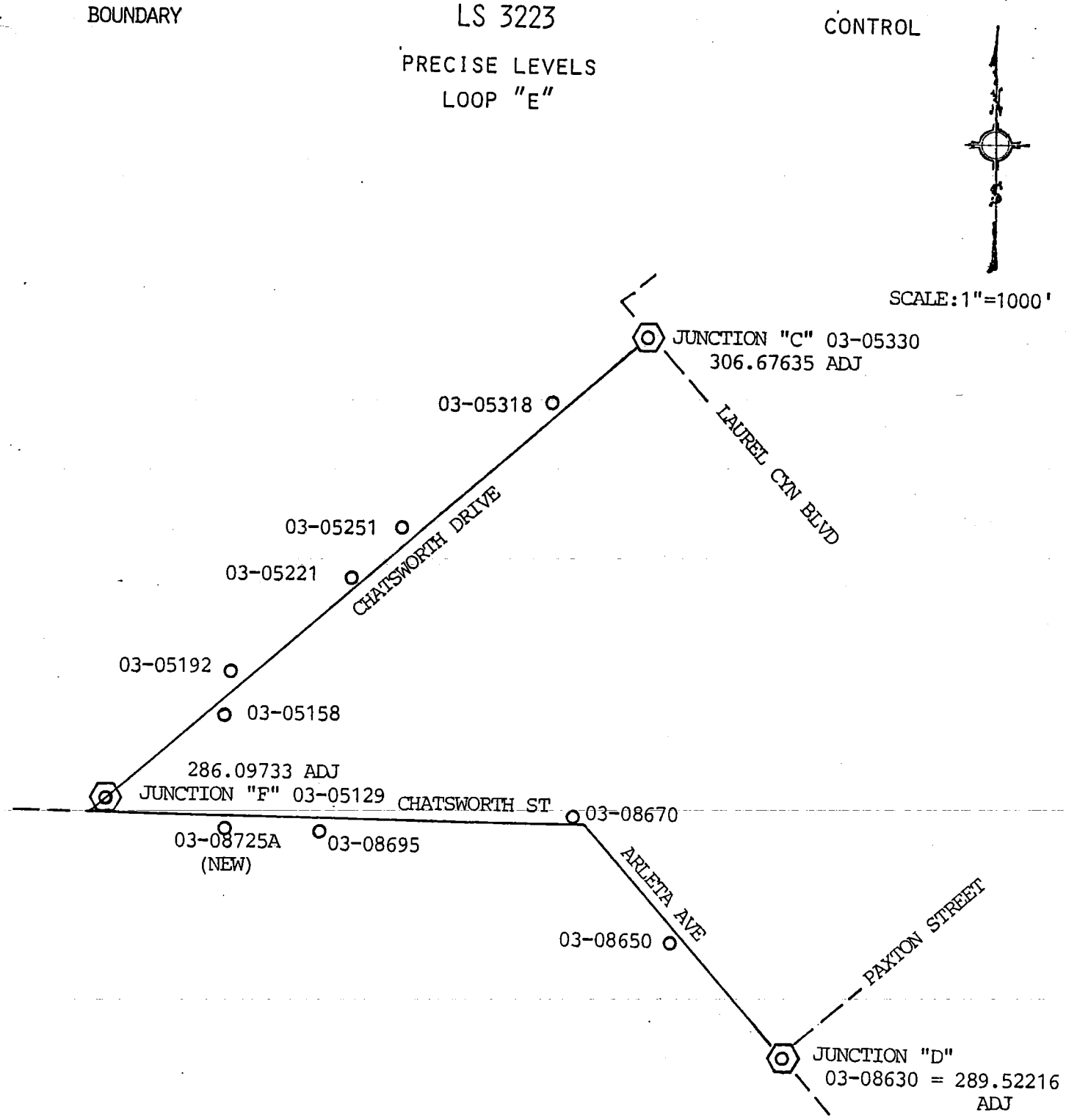
LS 3223

PRECISE LEVELS

LOOP "E"

BOUNDARY

CONTROL



FOR; CHEVRON, USA INC
NOVEMBER:DECEMBER
1982

(213) 249-4406
3309 Honolulu Avenue, La Crescenta, CA 91214
R. Clark Wilson
Licensed Land Surveyor

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PRECISE LEVEL ABSTRACT

INDEXED:

LINK NO. ABSTRACT BY: TAPE No. DATE: PARTY CHIEF CHECKED BY: DATE:

F.B. 1027 PG. 53
J.N.

CO ENG FB 3665-24

TAPE CHEV 4 CTR		DATA	BENCH DESCRIPTION	FWD BK or R	SECTION KM or DATE	TOTAL KM or TEMP	SECTION DIFF. MTR or TIME	DIVERGENCE 3mm $\sqrt{K}$ ALLW'D	RUN	TOTAL	FIELD ELEV METERS	ADJ ELEV METERS
			03-05330			0.000		(JUNCTION LOOP "C")			0.00000	306.67635
001	'A'		03-05318	F	..242	0.243	-1.46690				-1.46690	307.20943
			03-05318									
020			03-05251	F	.551	0.974	-11.42025				-12.88715	295.78915
			03-05251									
059			03-05221	F	.214	1.008	-2.03480				-14.92195	293.75433
			03-05221									
079			03-05192	F	.266	1.275	-2.62750				-17.54945	291.12681
			03-05192									
101			03-05158	F	.157	1.432	-1.84190				-19.39135	289.28490
			03-05158									
122			03-05129	F	.345	1.778	-3.18755	(JUNCTION LOOP "F")			-22.57890	286.09733
			03-05129									
156			03-08725A	F	.265	2.043	-0.19810	(NEW MARK)			-22.77700	285.89921
			03-08725A									
181			03-08695	F	.288	2.332	0.78300				-21.99400	286.68219
			03-08695									
207			03-08670	F	.529	2.861	2.01080				-19.98320	288.69296
			03-08670									
001	"B"		03-08650	F	.354	3.215	-0.78040				-20.76360	287.91253
			03-08650									
018			03-08630	F	.313	3.528	1.60965	(JUNCTION LOOP "D")			-19.15395	289.52216
								JUNCTION "C" TO "D"			-19.15419	
										ERROR =	+ .00024	

LICENSED LAND SURVEYOR R. CLARK WILSON No. 3123 STATE OF CALIFORNIA

LOOP "E"

CO ENG FB 3665-25

1007-55

1

****
(CTR#): 0.001
FROM: 3.0533
TO: 3.05318
START TEMP: 56
CLOSE TEMP: 56
WIND: 0
SUN: 2
#SET UPS: 4
SEC MTRS: 242.6
BAL: 0.2
D/E(MTRS)-1.4669
DDH: 0
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 56
DATE: 0.120382
****

2

****
(CTR#): 0.02
FROM: 3.05318
TO: 3.05251
START TEMP: 56
CLOSE TEMP: 58
WIND: 0
SUN: 2
#SET UPS: 8
SEC MTRS: 551
BAL: 2.6
D/E(MTRS)-11.42025
DDH: 0.09
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 57
DATE: 0.120382
****

3

****
(CTR#): 0.059
FROM: 3.05251
TO: 3.05221
START TEMP: 58
CLOSE TEMP: 60
WIND: 0
SUN: 2
#SET UPS: 4
SEC MTRS: 214.6
BAL:-0.2
D/E(MTRS)-2.0348
DDH: 0.04
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 59
DATE: 0.120382
****

4

****
(CTR#): 0.079
FROM: 3.05221
TO: 3.05192
START TEMP: 60
CLOSE TEMP: 62
WIND: 0
SUN: 2
#SET UPS: 4
SEC MTRS: 266.6
BAL: 0.2
D/E(MTRS)-2.6275
DDH:-0.02
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 61
DATE: 0.120382
****

5

****
(CTR#): 0.1
FROM: 3.05192
TO: 3.05158
START TEMP: 62
CLOSE TEMP: 64
WIND: 0
SUN: 2
#SET UPS: 4
SEC MTRS: 157
BAL:-1
D/E(MTRS)-1.8419
DDH:-0.02
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 63
DATE: 0.120382
****

6

****
(CTR#): 0.122
FROM: 3.05158
TO: 3.05129
START TEMP: 64
CLOSE TEMP: 72
WIND: 0
SUN: 2
#SET UPS: 6
SEC MTRS: 345.8
BAL: 0.6
D/E(MTRS)-3.18755
DDH:-0.03
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 68
DATE: 0.120382
****

7

****
(CTR#): 0.156
FROM: 3.05129
TO: 3.087251
START TEMP: 72
CLOSE TEMP: 72
WIND: 1
SUN: 2
#SET UPS: 4
SEC MTRS: 265.4
BAL:-0.2
D/E(MTRS)-0.1981
DDH: 0
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 72
DATE: 0.120382
****

8

****
(CTR#): 0.181
FROM: 3.087251
TO: 3.08695
START TEMP: 72
CLOSE TEMP: 72
WIND: 1
SUN: 2
#SET UPS: 4
SEC MTRS: 288.78
BAL: 1.18
D/E(MTRS) 0.783
DDH:-0.02
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 72
DATE: 0.120382
****

9

****
(CTR#): 0.207
FROM: 3.08695
TO: 3.0867
START TEMP: 72
CLOSE TEMP: 72
WIND: 1
SUN: 2
#SET UPS: 6
SEC MTRS: 529
BAL:-0.6
D/E(MTRS) 2.0108
DDH: 0.02
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 72
DATE: 0.120382
****

10

****
(CTR#): 2E-04
FROM: 3.0867
TO: 3.0865
START TEMP: 72
CLOSE TEMP: 70
WIND: 0
SUN: 2
#SET UPS: 4
SEC MTRS: 354.4
BAL: 0
D/E(MTRS)-0.7804
DDH:-0.08
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 71
DATE: 0.120382
****

11

****
(CTR#): 0.018
FROM: 3.0865
TO: 3.0863
START TEMP: 70
CLOSE TEMP: 70
WIND: 0
SUN: 2
#SET UPS: 4
SEC MTRS: 313
BAL: 0.2
D/E(MTRS) 1.60965
DDH: 0.05
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 70
DATE: 0.120382
****

CO ENG FB 3665-26

1007-57

R CLARK WILSON, INC

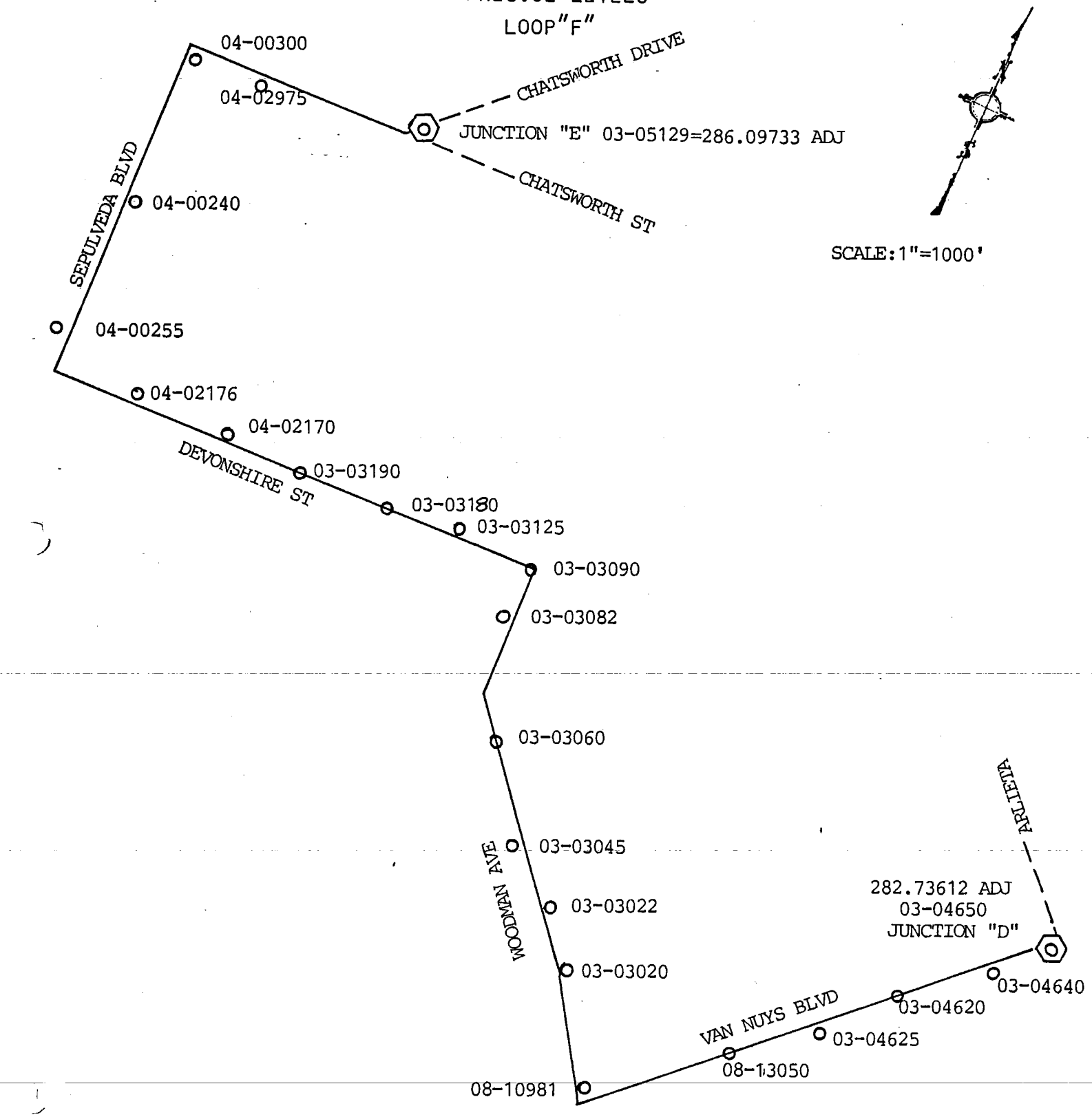
LS 3223

PRECISE LEVELS

LOOP"F"

BOUNDARY

CONTROL



SCALE:1"=1000'

FOR; CHEVRON, USA INC
NOVEMBER:DECEMBER
1982

(213) 249-4406
3309 Honolulu Avenue, La Crescenta, CA 91214
R. Clark Wilson
Licensed Land Surveyor

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PRECISE LEVEL ABSTRACT

INDEXED:
LINK NO.
ABSTRACT BY:
TAPE NO.
DATE:
PARTY CHIEF
CHECKED BY:
F.B. 1007 PG. 59
J.N.
DATE: 12-16-82

TAPE CHEV 4 CTR		DATA	BENCH DESCRIPTION	FWD BK or R	SECTION KM or DATE	TOTAL KM or TEMP	SECTION DIFF. MTR or TIME	DIVERGENCE 3mm $\sqrt{K}$ ALLW'D	RUN	TOTAL	FIELD ELEV METERS	ADJ ELEV METERS
			03-05129			0.000		(JUNCTION "E")			0.00000	286.09733
051	"B"		04-02975	F	.383	0.383	-1.69315				-1.69315	284.40414
			04-02975									
081			04-00300	F	.200	0.583	-1.24245				-2.93560	283.16167
			04-00300									
103			04-00240	F	.410	0.994	-3.08550				-6.02110	280.07612
			04-00240									
136			04-00255	F	.228	1.223	-1.25740				-7.27850	278.81870
			04-00255									
161			04-02176	F	.424	1.647	-1.05315				-8.33165	277.76550
			04-02176									
211			04-02170	F	.225	1.873	0.60975				-7.72190	278.37522
			04-02170									
001	5"A"		03-03190	F	.244	2.117	0.38565				-7.33625	278.76085
			03-03190									
019			03-03180	F	.236	2.354	0.03535				-7.30090	278.79617
			03-03180									
065			03-03125	F	.159	2.513	0.79290				-6.50800	279.58905
			03-03125									
086			03-03090	F	.263	2.777	-0.97360				-7.48160	278.61543
			03-03090									
107			03-03082	F	.114	2.891	0.21965				-7.26195	278.83506

LICENSED LAND SURVEYOR R. CLARK WILSON No. 3123 STATE OF CALIFORNIA

CO ENG FB 3665-27

(213) 249-4406
3309 Ho..lulu Avenue, La Crescenta, CA 91214
R. Clark Wilson
Licensed Land Surveyor

Note: Any additions, changes on this sheet must be made or circled in red ink with date and name of person marking change

PRECISE LEVEL ABSTRACT

INDEXED:
LINK NO.
ABSTRACT BY:
TAPE No.
DATE:
PARTY CHIEF
CHECKED BY: RWW
F.B. 1007 PG. 61
J.N.
DATE: 12-16-82

CO ENG FB 3665-28

TAPE CHEV 5 CTR		DATA	BENCH DESCRIPTION	FWD BK or R	SECTION KM or DATE	TOTAL KM or TEMP	SECTION DIFF. MTR or TIME	DIVERGENCE 3mm $\sqrt{K}$ ALLW'D	RUN	TOTAL	FIELD ELEV METERS	ADJ ELEV METERS
			03-03082			2.891					-7.26195	278.83506
118	"A"		03-03060	F	.312	3.204	-2.00160				-9.26355	276.83343
			03-03060									
141			03-03045	F	.189	3.393	-1.00930				-10.27285	275.82411
			03-03045									
252			03-03022	F	.252	3.646	-1.30125				-11.57410	274.52283
			03-03022									
001	"B"		03-03020	F	.258	3.904	-0.28855				-11.86265	274.23425
			03-03020									
019			08-10981	F	.383	4.287	-2.58070				-14.44335	271.65351
			08-10981									
048			08-03050	F	.337	4.624	3.50285				-10.94050	275.15632
			08-03050									
068			03-04625	F	.329	4.954	2.18380				- 8.75670	277.34009
			03-04625									
101			03-04620	F	.208	5.162	1.90370				-6.85300	279.24376
			03-04620									
122			03-04640	F	.260	5.422	2.26260				-4.59040	281.50634
			03-04640									
155			03-04650	F	.147	5.570	1.22980	(JUNCTION "D"			-3.36060	282.73612
								JUNCTION "E" TO "D"			-3.36121	
										ERROR	+0.00061	

LICENSED LAND SURVEYOR R. CLARK WILSON No. 3223 STATE OF CALIFORNIA

LOOP "F" 29

CO ENG FB 3665-29

1007-63

1

****
(CTR#): 0.051
FROM: 3.05129
TO: 4.02975
START TEMP: 68
CLOSE TEMP: 73
WIND: 1
SUN: 2
#SET UPS: 6
SEC MTRS: 383
BAL: 1.4
D/E(MTRS)-1.69315
DDH:-0.03
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 70.5
DATE: 0.120682
****

2

****
(CTR#): 0.081
FROM: 4.02975
TO: 4.003
START TEMP: 72
CLOSE TEMP: 74
WIND: 1
SUN: 2
#SET UPS: 4
SEC MTRS: 200.4
BAL: 0.4
D/E(MTRS)-1.24245
DDH:-0.01
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 73
DATE: 0.120682
****

3

****
(CTR#): 0.103
FROM: 4.003
TO: 4.0024
START TEMP: 74
CLOSE TEMP: 75
WIND: 0
SUN: 2
#SET UPS: 6
SEC MTRS: 410.6
BAL: 0.6
D/E(MTRS)-3.0855
DDH:-0.04
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 74.5
DATE: 0.120682
****

4

****
(CTR#): 0.136
FROM: 4.0024
TO: 4.00255
START TEMP: 75
CLOSE TEMP: 77
WIND: 1
SUN: 2
#SET UPS: 4
SEC MTRS: 228.8
BAL: 0
D/E(MTRS)-1.2574
DDH:-0.02
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 76
DATE: 0.120682
****

5

****
(CTR#): 0.16
FROM: 4.00255
TO: 4.02176
START TEMP: 77
CLOSE TEMP: 75
WIND: 0
SUN: 2
#SET UPS: 8
SEC MTRS: 424
BAL: 0.8
D/E(MTRS)-1.85315
DDH: 0.05
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 76
DATE: 0.120682
****

6

****
(CTR#): 0.211
FROM: 4.02176
TO: 4.0217
START TEMP: 75
CLOSE TEMP: 76
WIND: 1
SUN: 2
#SET UPS: 4
SEC MTRS: 225.8
BAL:-3
D/E(MTRS) 0.60975
DDH:-0.03
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 75.5
DATE: 0.120682
****

7

****
(CTR#): 0
FROM: 4.0217
TO: 3.0319
START TEMP: 76
CLOSE TEMP: 38
WIND: 0
SUN: 2
#SET UPS: 4
SEC MTRS: 244.4
BAL: 2.4
D/E(MTRS) 0.38565
DDH:-0.07
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 57
DATE: 0.120682
****

8

****
(CTR#): 0.019
FROM: 3.0315
TO: 3.03125
START TEMP: 74
CLOSE TEMP: 73
WIND: 0
SUN: 2
#SET UPS: 4
SEC MTRS: 236.6
BAL: 2.2
D/E(MTRS) 0.03535
DDH: 0.05
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 73.5
DATE: 0.120682
****

3.03180 → 3.03190

9

****
(CTR#): 0.065
FROM: 3.0315
TO: 3.03125
START TEMP: 53
CLOSE TEMP: 54
WIND: 1
SUN: 2
#SET UPS: 4
SEC MTRS: 159.4
BAL: 1.4
D/E(MTRS) 0.7929
DDH: 0
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 53.5
DATE: 0.120782
****

03-03180 →

10

****
(CTR#): 0.086
FROM: 3.03125
TO: 3.0309
START TEMP: 54
CLOSE TEMP: 56
WIND: 1
SUN: 2
#SET UPS: 4
SEC MTRS: 263.6
BAL: 2
D/E(MTRS)-0.9736
DDH: 0.04
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 55
DATE: 0.120782
****

11

****
(CTR#): 0.107
FROM: 3.0309
TO: 3.03082
START TEMP: 56
CLOSE TEMP: 60
WIND: 1
SUN: 2
#SET UPS: 2
SEC MTRS: 114.4
BAL: 1.6
D/E(MTRS) 0.21965
DDH:-0.01
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 58
DATE: 0.120782
****

12

****
(CTR#): 0.118
FROM: 3.03082
TO: 3.0306
START TEMP: 60
CLOSE TEMP: 56
WIND: 0
SUN: 2
#SET UPS: 4
SEC MTRS: 312.8
BAL: 1.6
D/E(MTRS)-2.0016
DDH:-0.02
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 58
DATE: 0.120782
****

13

****
(CTR#): 0.141
FROM: 3.0306
TO: 3.03045
START TEMP: 56
CLOSE TEMP: 58
WIND: 0
SUN: 2
#SET UPS: 4
SEC MTRS: 189.4
BAL:-1.4
D/E(MTRS)-1.0093
DDH: 0
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 57
DATE: 0.120782
****

14

****
(CTR#): 0.252
FROM: 3.03045
TO: 3.03022
START TEMP: 58
CLOSE TEMP: 0
WIND: 0
SUN: 2
#SET UPS: 4
SEC MTRS: 252.4
BAL: 1
D/E(MTRS)-1.30125
DDH: 0.01
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 29
DATE: 0.120782
****

15

****
(CTR#): 2E-04
FROM: 3.03022
TO: 3.0302
START TEMP: 58
CLOSE TEMP: 58
WIND: 0
SUN: 2
#SET UPS: 4
SEC MTRS: 258.2
BAL:-1
D/E(MTRS)-0.28855
DDH:-0.01
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 58
DATE: 0.120782
****

16

****
(CTR#): 0.019
FROM: 3.0302
TO: 8.10981
START TEMP: 64
CLOSE TEMP: 62
WIND: 0
SUN: 2
#SET UPS: 6
SEC MTRS: 383.2
BAL:-0.4
D/E(MTRS)-2.5807
DDH:-0.04
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 63
DATE: 0.120782
****

LOOP "F" 80

CO ENG FB 3665-30

1007-65

```
**********
(CTR#): 0.048
FROM: 8.10981
TO: 8.1305
START TEMP: 62
CLOSE TEMP: 63
WIND: 0
SUN: 1
#SET UPS: 4
SEC MTRS: 337
BAL: 0.2
D/E(MTRS) 3.50285
DDH:-0.07
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 62.5
DATE: 0.120782
**********
```

17

```
**********
(CTR#): 0.068
FROM: 8.1305
TO: 3.04625
START TEMP: 63
CLOSE TEMP: 63
WIND: 0
SUN: 1
#SET UPS: 6
SEC MTRS: 329.6
BAL:-0.4
D/E(MTRS) 2.1838
DDH: 0.06
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 63
DATE: 0.120782
**********
```

18

```
**********
(CTR#): 0.1
FROM: 3.04625
TO: 3.0462
START TEMP: 63
CLOSE TEMP: 60
WIND: 0
SUN: 1
#SET UPS: 4
SEC MTRS: 208
BAL: 0.4
D/E(MTRS) 1.9037
DDH: 0
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 61.5
DATE: 0.120782
**********
```

19

```
**********
(CTR#): 0.122
FROM: 3.0462
TO: 3.0464
START TEMP: 60
CLOSE TEMP: 60
WIND: 0
SUN: 1
#SET UPS: 4
SEC MTRS: 268.8
BAL: 0
D/E(MTRS) 2.2626
DDH: 0.02
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 60
DATE: 0.120782
**********
```

20

21

```
**********
(CTR#): 0.155
FROM: 3.0464
TO: 3.0465
START TEMP: 57
CLOSE TEMP: 58
WIND: 0
SUN: 2
#SET UPS: 2
SEC MTRS: 147.8
BAL: 0.6
D/E(MTRS) 1.2298
DDH:-0.06
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 57.5
DATE: 0.121082
**********
```

$\Delta\Sigma = +0.61$ mm

292.97485 ADJ

FB 3665-31.

(213) 249-4406
3309 Honolulu Avenue, La Crescenta, CA 91214

R. Clark Wilson
Licensed Land Surveyor

Note: Any additions, changes on this sheet must be made or circled in red ink with date and name of person marking change

INDEXED:

PRECISE LEVEL ABSTRACT

LINK NO. ____ TAPE No. ____ PARTY CHIEF ____ F.B. 1007 PG. 69
ABSTRACT BY: ____ DATE: ____ CHECKED BY: RWT J.N. ____ DATE: 12-16-82

TAPE CHEV 6 CTR		DATA	BENCH DESCRIPTION	FWD BK or R	SECTION KM or DATE	TOTAL KM or TEMP	SECTION DIFF. MTR or TIME	DIVERGENCE 3mm $\sqrt{K}$ ALLW'D	RUN	TOTAL	FIELD ELEV METERS	ADJ ELEV METERS
			03-01980			0.000		(JUNCTION "B"			0.00000	308.56615
167			03-01930	F	.169	0.169	-0.63255				-0.63255	307.93364
			03-01930									
179			03-01980	F	.338	0.508	-3.13115				-3.76370	304.80256
			03-01980									
205			03-01830	F	.439	0.948	-3.01480				-6.77850	301.78786
			03-01830									
248			03-01800	F	.281	1.229	-3.33240				-10.11090	298.45553
			03-01800									
001			03-01770	F	.162	1.391	-2.08525				-12.19615	296.37031
			03-01770									
011			03-01710	F	.429	1.821	-5.83495				-18.03110	290.53546
			03-01710									
039			03-01685	F	.316	2.137	-3.72960				-21.76070	286.80593
			03-01685									
058			08-26160	F	.605	2.742	-7.95085				-29.71155	278.85522
			08-26160									
101			08-26130A	F	.233	2.976	0.78380				-28.92775	279.63907
			08-26130A									
122			08-26060	F	.475	3.451	0.71880				-28.20895	280.35798
			08-26060									
174			08-26070	F	.239	3.691	-4.09910				-32.30805	276.25893

LICENSED LAND SURVEYOR R. CLARK WILSON No. 3123 STATE OF CALIFORNIA

CO ENG FB 3665-32

(213) 249-4406
3309 Ho..lu Avenue, La Crescenta, CA 91214
R. Clark Wilson
Licensed Land Surveyor

Note: Any additions, changes on this sheet must be made or circled in red ink with date and name of person marking change

PRECISE LEVEL ABSTRACT

INDEXED:
LINK NO.
ABSTRACT BY:
TAPE No.
DATE:
PARTY CHIEF
CHECKED BY: [illegible]
F.B. 1007 PG. 71
J.N.
DATE: 12-16-82

CO ENG FB 3665-33

TAPE CHEV 6 CTR		DATA	BENCH DESCRIPTION	FWD BK or R	SECTION KM or DATE	TOTAL KM or TEMP	SECTION DIFF. MTR or TIME	DIVERGENCE 3mm $\sqrt{K}$ ALLW'D	RUN	TOTAL	FIELD ELEV METERS	ADJ ELEV METERS
			08-26070			3.691					-32.30805	276.25893
225			08-26001	F	.411	4.103	-2.42590				-34.73395	273.83312
			08-26001									
001	"B"		08-29830	F	.453	4.556	-5.12040				-39.85435	268.71282
			08-29830									
051			08-29842	F	.216	4.773	-1.28245				-41.13680	267.43042
			08-29842									
074			08-29855	F	.187	4.960	-1.52735				-42.66415	265.90311
			08-29855									
101			08-07055	F	.324	5.285	-2.70375				-45.36790	263.19944
			08-07055									
134			08-07065	F	.137	5.422	-1.08620				-46.45410	262.11327
			08-07065									
145			08-07075	F	.220	5.642	1.26545				-45.18865	263.37877
			08-07075									
001	7"B"		08-07115	F	.369	6.011	2.30015				-42.88850	265.67900
			08-07115									
033	"		08-07130	F	.330	6.341	-0.64795				-43.53645	265.03112
			08-07130									
208	6"B"		08-07170	F	.428	6.770	6.01140				-37.52505	271.04262
			08-07170									
001	7"A"		08-07200	F	.448	7.218	4.83290				-32.69215	275.87562

LICENSED LAND SURVEYOR R. CLARK WILSON No. 3223 STATE OF CALIFORNIA

(213) 249-4406
3309 Honolulu Avenue, La Crescenta, CA 91214
R. Clark Wilson
Licensed Land Surveyor

Note: Any additions, changes on this sheet must be made or circled in red ink with date and name of person marking change

PRECISE LEVEL ABSTRACT

INDEXED: ____ LINK NO. ____ ABSTRACT BY: ____ DATE: ____ TAPE No. ____ PARTY CHIEF ____ CHECKED BY: ____ DATE: ____ F.B. 1007 PG. 73 J.N. ____

TAPE CHEV 7

CTR		DATA	BENCH DESCRIPTION	FWD BK or R	SECTION KM or DATE	TOTAL KM or TEMP	SECTION DIFF. MTR or TIME	DIVERGENCE 3mm $\sqrt{K}$ ALLW'D	RUN	TOTAL	FIELD ELEV METERS	ADJ ELEV METERS
			08-07200			7.218					-32.69215	275.87562
034			08-07259	F	.492	7.711	5.26960				-27.42255	281.14533
			08-07259									
073			08-07280	F	.332	8.044	2.93145				-24.49110	284.07686
			08-07280									
105			03-02545	F	.359	8.403	1.60110				-22.89000	285.67804
			03-02545									
138			03-02550	F	.242	8.646	1.45010				-21.43990	287.12819
			03-02550									
162			03-02560	F	.130	8.776	1.32970				-19.61020	288.95792
			03-02560									
186			03-02581	F	.220	8.997	1.70650				-17.90370	290.66447
			03-02581									
212			03-02640	F	.136	9.133	0.12030				-17.78340	290.78480
			03-02640									
226			03-02655	F	.210	9.343	1.03045				-16.75295	291.81530
			03-02655									
255			03-02670	F	.230	9.573	1.15950	(JUNCTION "B")			-15.59345	292.97485
								JUNCTION "B" TO "B"			-15.59130	
										ERROR	- 0.00215	

LICENSED LAND SURVEYOR R. CLARK WILSON No. 3223 STATE OF CALIFORNIA

12-16-82

CO ENG FB 3665-34

1007P "G" (1)

CO ENG FB 3665-35

1007-75

35

1

****
(CTR#): 0.167
FROM: 3.0198
TO: 3.0193
START TEMP: 62
CLOSE TEMP: 66
WIND: 0
SUN: 2
#SET UPS: 2
SEC MTRS: 169.4
BAL:-1
D/E(MTRS)-0.63255
DDH:-0.05
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 64
DATE: 0.121082
****

2

****
(CTR#): 0.179
FROM: 3.0193
TO: 3.0189
START TEMP: 66
CLOSE TEMP: 62
WIND: 0
SUN: 2
#SET UPS: 4
SEC MTRS: 338.8
BAL: 2.4
D/E(MTRS)-3.13115
DDH:-0.03
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 64
DATE: 0.121082
****

3

****
(CTR#): 0.205
FROM: 3.0189
TO: 3.0183
START TEMP: 62
CLOSE TEMP: 64
WIND: 0
SUN: 2
#SET UPS: 6
SEC MTRS: 439.4
BAL: 0.2
D/E(MTRS)-3.0148
DDH: 0.02
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 63
DATE: 0.121082
****

4

****
(CTR#): 0.248
FROM: 3.0183
TO: 3.018
START TEMP: 64
CLOSE TEMP: 66
WIND: 0
SUN: 2
#SET UPS: 4
SEC MTRS: 281
BAL: 1.4
D/E(MTRS)-3.3324
DDH:-0.02
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 65
DATE: 0.121082
****

5

****
(CTR#): 0.001
FROM: 3.018
TO: 3.0177
START TEMP: 66
CLOSE TEMP: 66
WIND: 0
SUN: 2
#SET UPS: 2
SEC MTRS: 162.2
BAL:-1
D/E(MTRS)-2.08525
DDH:-0.01
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 66
DATE: 0.121082
****

6

****
(CTR#): 0.011
FROM: 3.01770
TO: 3.0171
START TEMP: 66
CLOSE TEMP: 67
WIND: 1
SUN: 2
#SET UPS: 6
SEC MTRS: 429.8
BAL: 1.4
D/E(MTRS)-5.83495
DDH:-0.05
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 66.5
DATE: 0.121082
****

7

****
(CTR#): 0.039
FROM: 3.0171
TO: 3.01685
START TEMP: 68
CLOSE TEMP: 66
WIND: 0
SUN: 1.5
#SET UPS: 4
SEC MTRS: 316.4
BAL: 2.8
D/E(MTRS)-3.7296
DDH: 0.04
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 67
DATE: 0.121082
****

8

****
(CTR#): 0.058
FROM: 3.01685
TO: 8.2616
START TEMP: 66
CLOSE TEMP: 66
WIND: 1
SUN: 2
#SET UPS: 8
SEC MTRS: 605
BAL: 0.2
D/E(MTRS)-7.95085
DDH:-0.05
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 66
DATE: 0
****

9

****
(CTR#): 0.101
FROM: 8.2616
TO: 8.261301
START TEMP: 66
CLOSE TEMP: 66
WIND: 1
SUN: 2
#SET UPS: 4
SEC MTRS: 233.6
BAL: 0.8
D/E(MTRS) 0.7838
DDH:-0.04
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 66
DATE: 0.121082
****

10

****
(CTR#): 0.122
FROM: 8.261301
TO: 8.2606
START TEMP: 56
CLOSE TEMP: 57
WIND: 2
SUN: 2
#SET UPS: 8
SEC MTRS: 475.8
BAL: 0.2
D/E(MTRS) 0.7188
DDH:-0.08
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 56.5
DATE: 0.121282
****

11

****
(CTR#): 0.174
FROM: 8.2606
TO: 8.2607
START TEMP: 57
CLOSE TEMP: 60
WIND: 2
SUN: 2
#SET UPS: 4
SEC MTRS: 239.8
BAL: 0.2
D/E(MTRS)-4.0991
DDH:-0.06
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 58.5
DATE: 0.121382
****

12

****
(CTR#): 0.225
FROM: 8.2607
TO: 8.26001
START TEMP: 60
CLOSE TEMP: 60
WIND: 2
SUN: 2
#SET UPS: 6
SEC MTRS: 411.8
BAL: 0.2
D/E(MTRS)-2.4259
DDH: 0.06
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 60
DATE: 0.121382
****

13

****
(CTR#): 0.0052
FROM: 8.26001
TO: 8.2983
START TEMP: 60
CLOSE TEMP: 63
WIND: 2
SUN: 2
#SET UPS: 8
SEC MTRS: 453.2
BAL: 0
D/E(MTRS)-5.1204
DDH:-0.04
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 61.5
DATE: 0.121382
****

14

****
(CTR#): 0.05
FROM: 8.2983
TO: 8.29842
START TEMP: 66
CLOSE TEMP: 64
WIND: 1
SUN: 2
#SET UPS: 4
SEC MTRS: 216.4
BAL:-3.6
D/E(MTRS)-1.28245
DDH: 0.01
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 65
DATE: 0.121382
****

15

****
(CTR#): 0.074
FROM: 8.29842
TO: 8.29855
START TEMP: 64
CLOSE TEMP: 66
WIND: 1
SUN: 2
#SET UPS: 4
SEC MTRS: 187.2
BAL:-0.4
D/E(MTRS)-1.52735
DDH:-0.01
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 65
DATE: 0.121382
****

16

****
(CTR#): 0.1
FROM: 8.29855
TO: 8.07055
START TEMP: 66
CLOSE TEMP: 64
WIND: 1
SUN: 2
#SET UPS: 6
SEC MTRS: 324.8
BAL: 0.8
D/E(MTRS)-2.70375
DDH: 0.01
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 65
DATE: 0.121382
****

LOOP "G" (2)

1007-77
CO ENG FB 3665-36

17
****
(CTR#): 0.134
FROM: 8.07055
TO: 8.07065
START TEMP: 54
CLOSE TEMP: 56
WIND: 0
SUN: 2
#SET UPS: 2
SEC MTRS: 137.6
BAL: 0.4
D/E(MTRS)-1.0862
DDH:-0.02
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 55
DATE: 0.121482
****

18
****
(CTR#): 0.145
FROM: 8.07065
TO: 8.07075
START TEMP: 56
CLOSE TEMP: 58
WIND: 0
SUN: 2
#SET UPS: 4
SEC MTRS: 220
BAL: 0
D/E(MTRS) 1.26545
DDH:-0.03
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 57
DATE: 0.121482
****

(7E)
****
(CTR#): 0.0052
FROM: 8.07075
TO: 8.07115
START TEMP: 64
CLOSE TEMP: 67
WIND: 0
SUN: 1
#SET UPS: 6
SEC MTRS: 369
BAL:-0.2
D/E(MTRS) 2.30015
DDH:-0.07
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 65.5
DATE: 0.121582
****

19
****
(CTR#): 0.033
FROM: 8.07115
TO: 8.0713
START TEMP: 67
CLOSE TEMP: 68
WIND: 0
SUN: 2
#SET UPS: 4
SEC MTRS: 330.2
BAL: 1.4
D/E(MTRS)-0.64795
DDH:-0.01
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 67.5
DATE: 0.121582
****

20
****
(CTR#): 0.208
FROM: 8.0713
TO: 8.0717
START TEMP: 58
CLOSE TEMP: 58.5
WIND: 0
SUN: 2
#SET UPS: 10
SEC MTRS: 428.8
BAL:-0.2
D/E(MTRS) 6.0114
DDH:-0.03
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 58.25
DATE: 0.121482
****

21
****
(CTR#): 0.0051
FROM: 8.0717
TO: 8.072
START TEMP: 60
CLOSE TEMP: 66
WIND: 0
SUN: 2
#SET UPS: 6
SEC MTRS: 448
BAL: 0.4
D/E(MTRS) 4.8329
DDH:-0.02
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 63
DATE: 0.121482
****

22
****
(CTR#): 0.034
FROM: 8.072
TO: 8.07259
START TEMP: 66
CLOSE TEMP: 66
WIND: 0
SUN: 2
#SET UPS: 8
SEC MTRS: 492.8
BAL:-1.2
D/E(MTRS) 5.2696
DDH: 0
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 66
DATE: 0.121482
****

23
****
(CTR#): 0.073
FROM: 8.07259
TO: 8.0728
START TEMP: 66
CLOSE TEMP: 68
WIND: 0
SUN: 1
#SET UPS: 6
SEC MTRS: 332.8
BAL: 1.2
D/E(MTRS) 2.93145
DDH: 0.03
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 67
DATE: 0.121482
****

24
****
(CTR#): 0.105
FROM: 8.0728
TO: 3.02545
START TEMP: 68
CLOSE TEMP: 68
WIND: 0
SUN: 2
#SET UPS: 6
SEC MTRS: 359.4
BAL: 0.2
D/E(MTRS) 1.6011
DDH:-0.04
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 68
DATE: 0.121482
****

25
****
(CTR#): 0.138
FROM: 3.02545
TO: 3.0255
START TEMP: 68
CLOSE TEMP: 68
WIND: 0
SUN: 2
#SET UPS: 4
SEC MTRS: 242.4
BAL: 0.4
D/E(MTRS) 1.4501
DDH: 0.04
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 68
DATE: 0.121482
****

26
****
(CTR#): 0.162
FROM: 3.0255
TO: 3.0256
START TEMP: 68
CLOSE TEMP: 60
WIND: 0
SUN: 2
#SET UPS: 4
SEC MTRS: 130.4
BAL:-0.4
D/E(MTRS) 1.8297
DDH: 0
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 64
DATE: 0.121482
****

27
****
(CTR#): 0.186
FROM: 3.0256
TO: 3.02581
START TEMP: 60
CLOSE TEMP: 62
WIND: 0
SUN: 2
#SET UPS: 4
SEC MTRS: 220.6
BAL:-0.2
D/E(MTRS) 1.7065
DDH:-0.02
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 61
DATE: 0.121582
****

28
****
(CTR#): 0.212
FROM: 3.02581
TO: 3.0264
START TEMP: 62
CLOSE TEMP: 64
WIND: 0
SUN: 2
#SET UPS: 2
SEC MTRS: 136.2
BAL: 0.2
D/E(MTRS) 0.1203
DDH: 0
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 63
DATE: 0.121582
****

29
****
(CTR#): 0.226
FROM: 3.0264
TO: 3.02655
START TEMP: 64
CLOSE TEMP: 62
WIND: 0
SUN: 2
#SET UPS: 4
SEC MTRS: 210
BAL:-0.4
D/E(MTRS) 1.03045
DDH: 0.01
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 63
DATE: 0.121582
****

30
****
(CTR#): 0.255
FROM: 3.02655
TO: 3.0267
START TEMP: 62
CLOSE TEMP: 64
WIND: 0
SUN: 2
#SET UPS: 4
SEC MTRS: 230.6
BAL: 0.2
D/E(MTRS) 1.1595
DDH: 0.02
INST # 422207
ROD#(A:B) 1979
(MEAN TEMP) 63
DATE: 0.121582
****

31

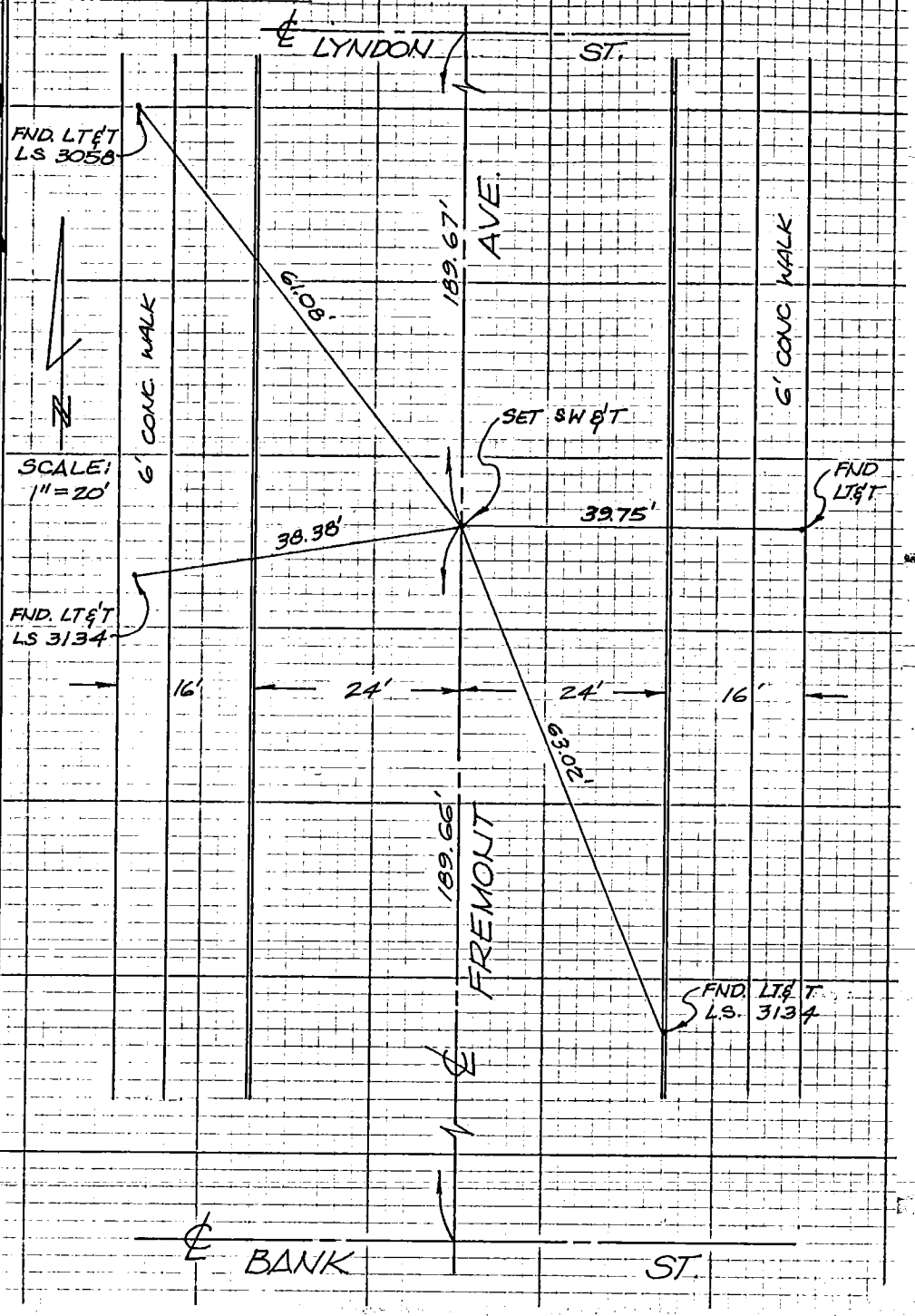
37

CO ENG FB 3665-37

SURVEY OF CENTERLINE TIES F.B. NO. 42 PAGE 67

SURVEY BY JAMES E. NELSON RCE 22406 TRACT NO. 41776

DATE 3-17-82



W.S. 8, D-4 (2)

SURVEYORS SERVICE COMPANY STA MESA - STOCK NO. 411

DO NOT EXTEND NOTES THIS SIDE OF LINE

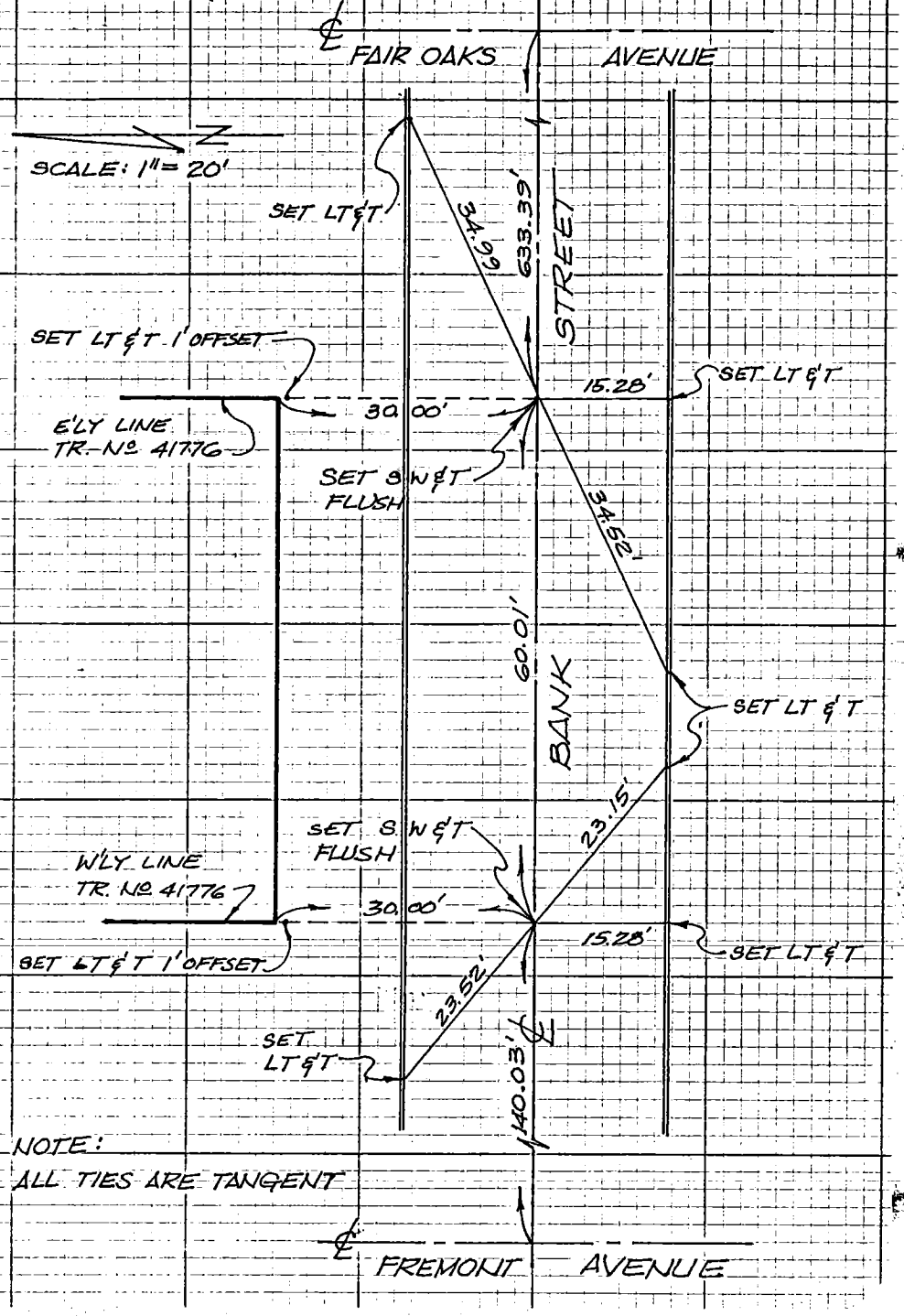
38

CO ENG FB 3665-38

SURVEY OF CENTERLINE TIES F.B. NO. 42 PAGE 68

SURVEY BY JAMES E. NELSON RCE 27406 TRACT NO. 41776

DATE 3-17-82



NOTE:
ALL TIES ARE TANGENT

W.S. & D-4 (10)

SURVEYORS SERVICE COMPANY SANTA MESA - STOCK NO. 411

DO NOT EXTEND NOTES THIS SIDE OF LINE

ENG. 3.883B (12/78)
Title & Plat Sheet
50% Rag

TRIAD DESIGN ASSOC. INC. 39

CO ENG FB 3665-39

Surveyed by — Date 11-23-81 F.B. Pg.

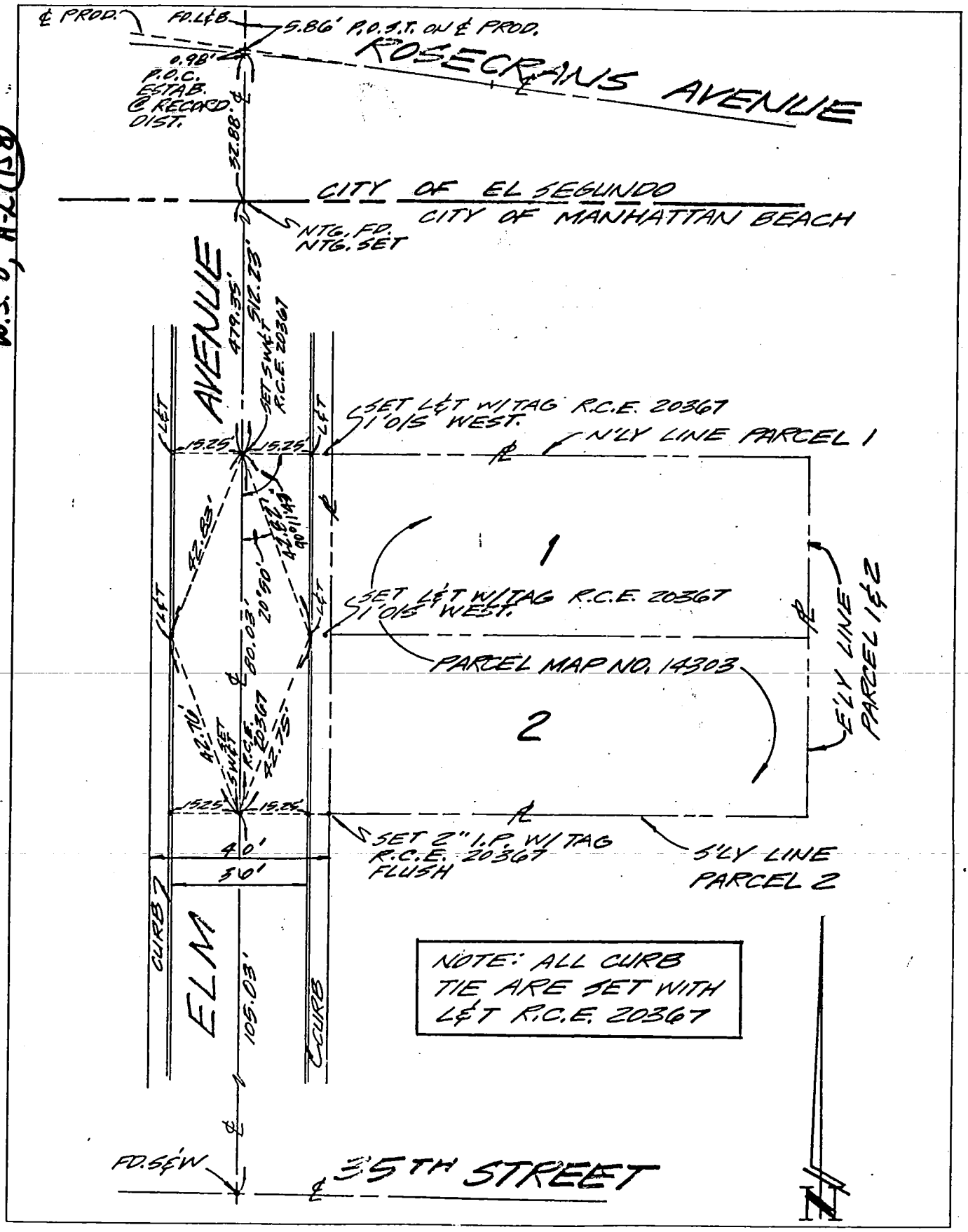
Type of Survey ℄ TIE MONUMENT SURVEY Sheet 1 of 1

Distances corrected to 68° Monuments tagged JACK WOOD

R C E # 20367 Parcel Map # 14303

Checked by Date km grid MB

NOTE: Additions or changes must be initialed, and dated. W.S.B, A-2 (158)



Ground Dist. X Correction Factor: = Grid Distance

Micro-film St. Map Index

10

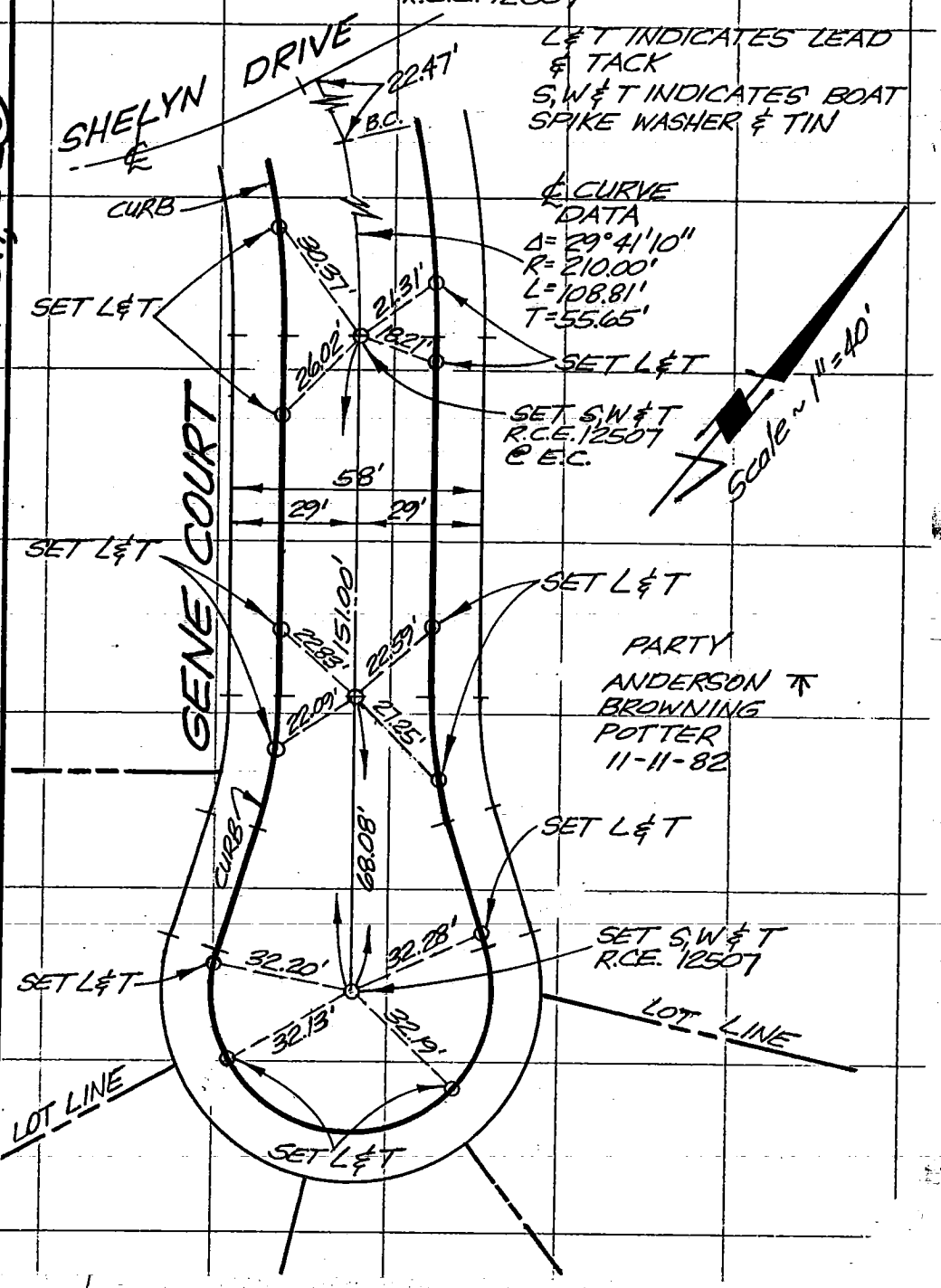
CO ENG FB 3665-40

SURVEY OF CENTERLINE TIES F. B. ____ PG. ____

SURVEY BY PFEILER & ASSOC, FULLERTON, Ca. TR. No. 35048

DATE NOVEMBER 29, 1982 Peter J. Pfeiler R.C.E. 12507

099-317, B-2 (8)



SO. CALIF. BLUE PRINT CO.

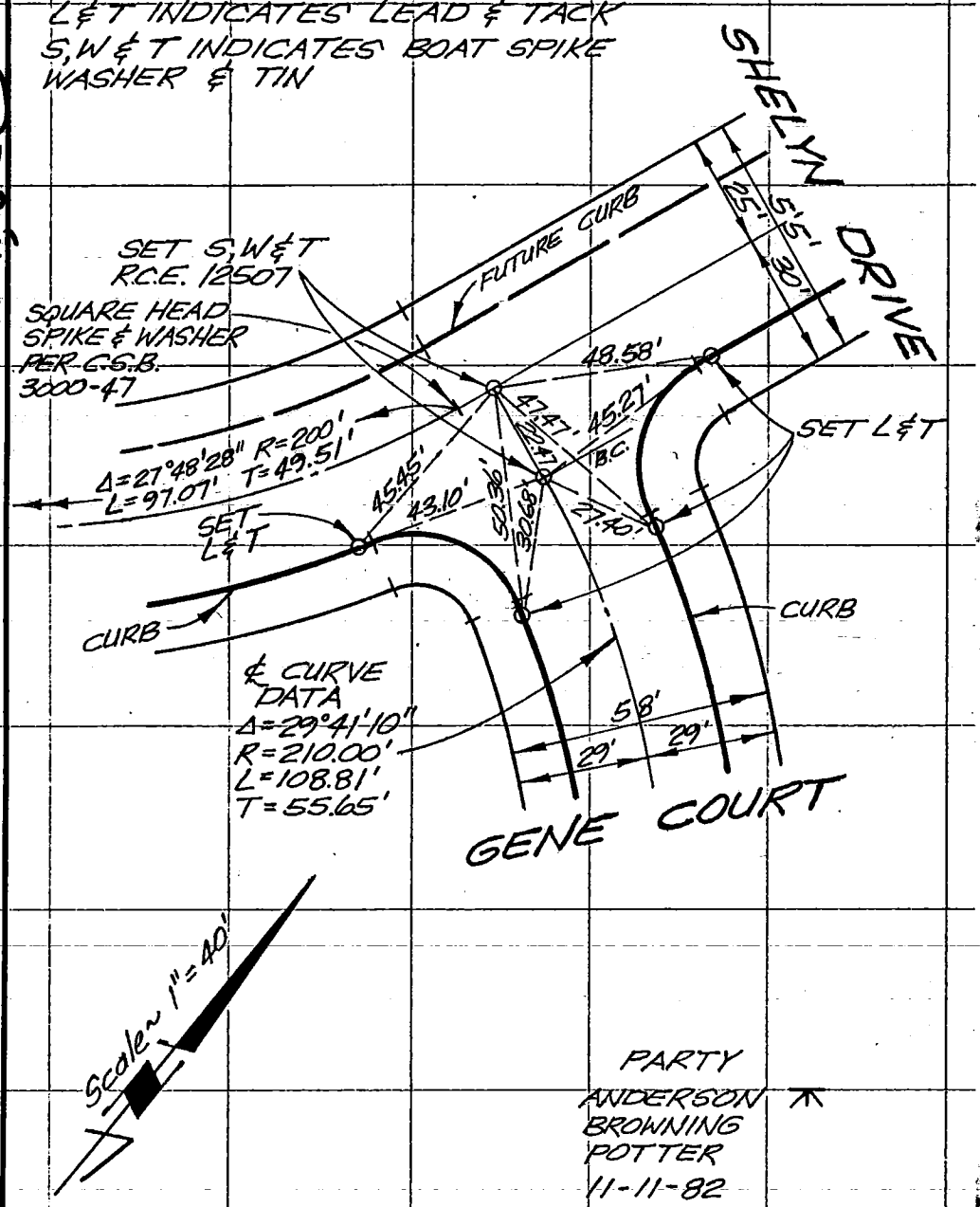
CO ENG FB 3665-41

SURVEY OF CENTERLINE TIES F. B. ____ PG. ____

SURVEY BY PFEILER & ASSOC., FULLERTON, CA. TR. No. 35048

DATE NOVEMBER 29, 1982 Peter J. Pfeiler R.C.E. 12507

L&T INDICATES LEAD & TACK
S,W&T INDICATES BOAT SPIKE WASHER & TIN



09-317, 8-2 (85)

SO. CALIF. BLUE PRINT CO.

2 CO ENG FB 3665-42

SURVEY OF CENTERLINE TIES F. B. ____ PG. ____

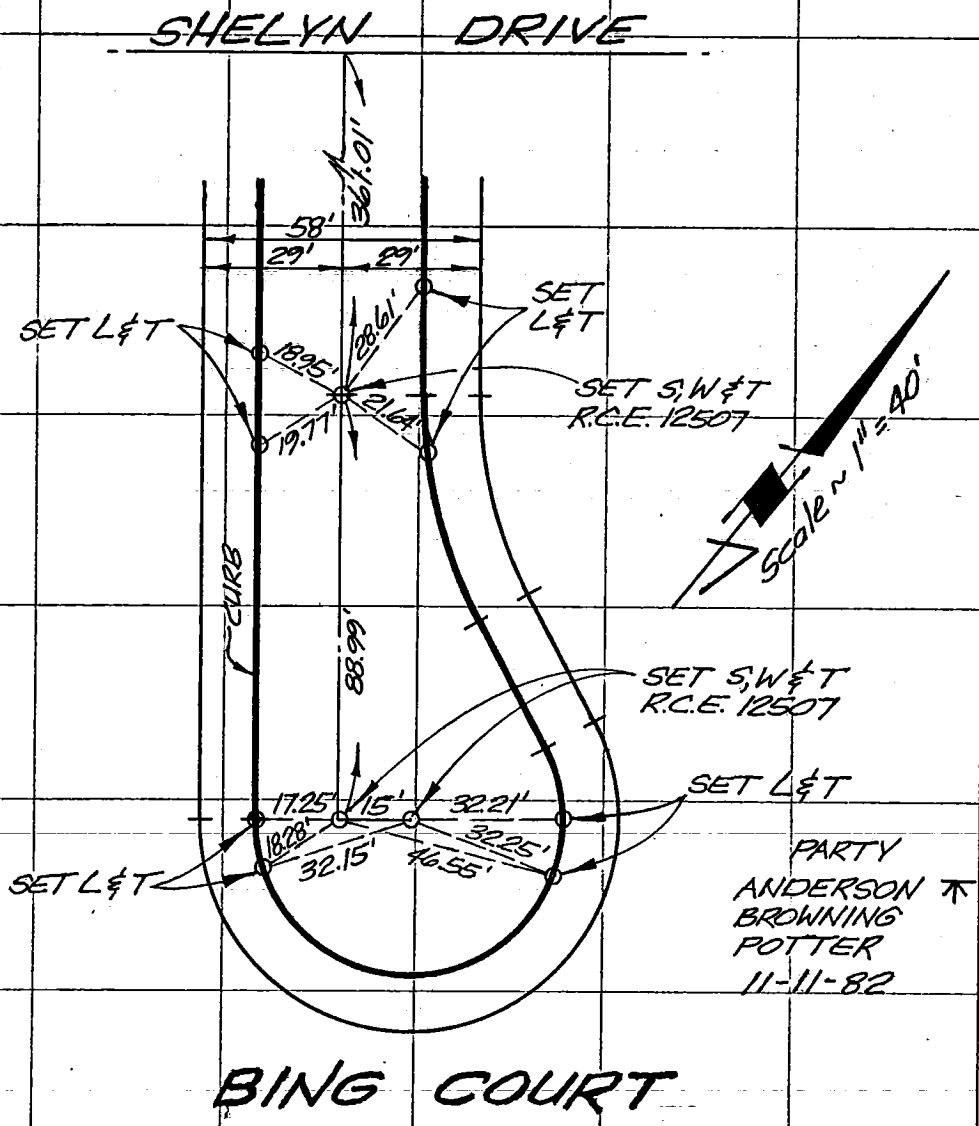
SURVEY BY PFEILER & ASSOC., FULLERTON, CA. TR. No. 35048

DATE NOVEMBER 29, 1982 Robert F. Pfeiler R.C.E. 12507

L & T INDICATES LEAD & TACK

S,W & T INDICATES BOAT SPIKE WASHER & TIN

099-317, B-2 (86)



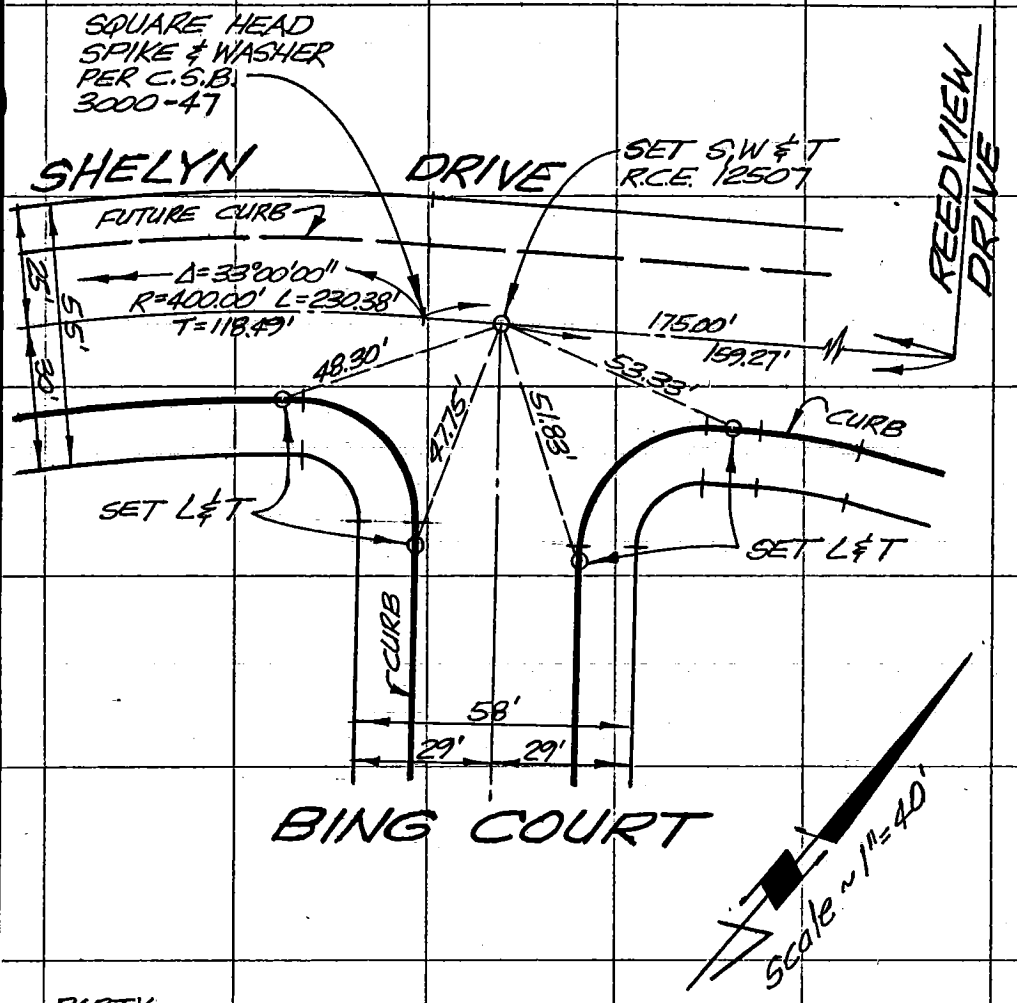
SO. CALIF. BLUE PRINT CO.

15 CO ENG FB 3665-43

SURVEY OF CENTERLINE TIES F. B. ____ PG. ____

SURVEY BY PFEILER & ASSOC., FULLERTON, CA. TR. No. 35048

DATE NOVEMBER 29, 1982 Robert J. Pfeiler R.C.E. 12507



PARTY
ANDERSON
BROWNING
POTTER
11-11-82

L & T INDICATES LEAD & TACK
S,W & T INDICATES BOAT SPIKE WASHER & TIN

09-317, 8-2 (8)

SO. CALIF. BLUE PRINT CO.

CO ENG FB 3665-44

ENG. 3.883B (12/78)
Title & Plat Sheet
50% Rag

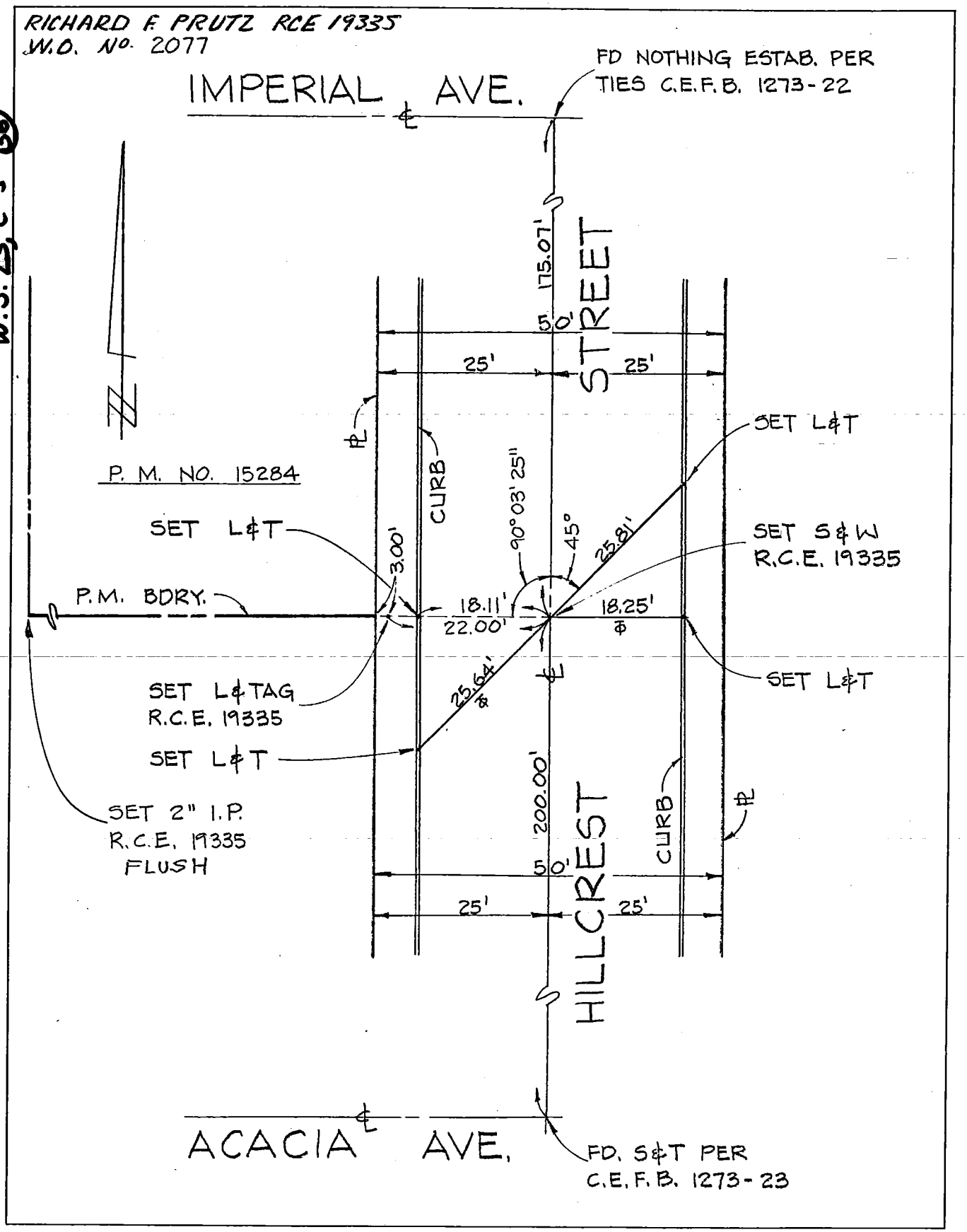
Surveyed by PACE ENGINEERING Date 12-20-82 F.B. _____ Pg. _____

Type of Survey CENTERLINE TIES Sheet 1 of 2

Distances corrected to 68° YES Monuments tagged ~~LS #~~ _____ ~~Tract or~~ RCE # 19335 Parcel Map # 15284

Checked by _____ Date _____ km grid _____ MB _____

RICHARD F. PRUTZ RCE 19335
W.O. No. 2077



NOTE: Additions or changes must be initialed, and dated.

W.S. 23, C-5 (36)

Return original to
BUREAU OF ENGINEERING
SURVEY DIVISION, Rm. 835
200 N. Main St. — Los Angeles 90012

Ground Dist. X Correction Factor: _____ = Grid Distance

Micro-film _____ St. Map _____ Index _____

CO ENG FB 3665-45

ENG. 3.883B (12/78)
Title & Plat Sheet
50% Rag

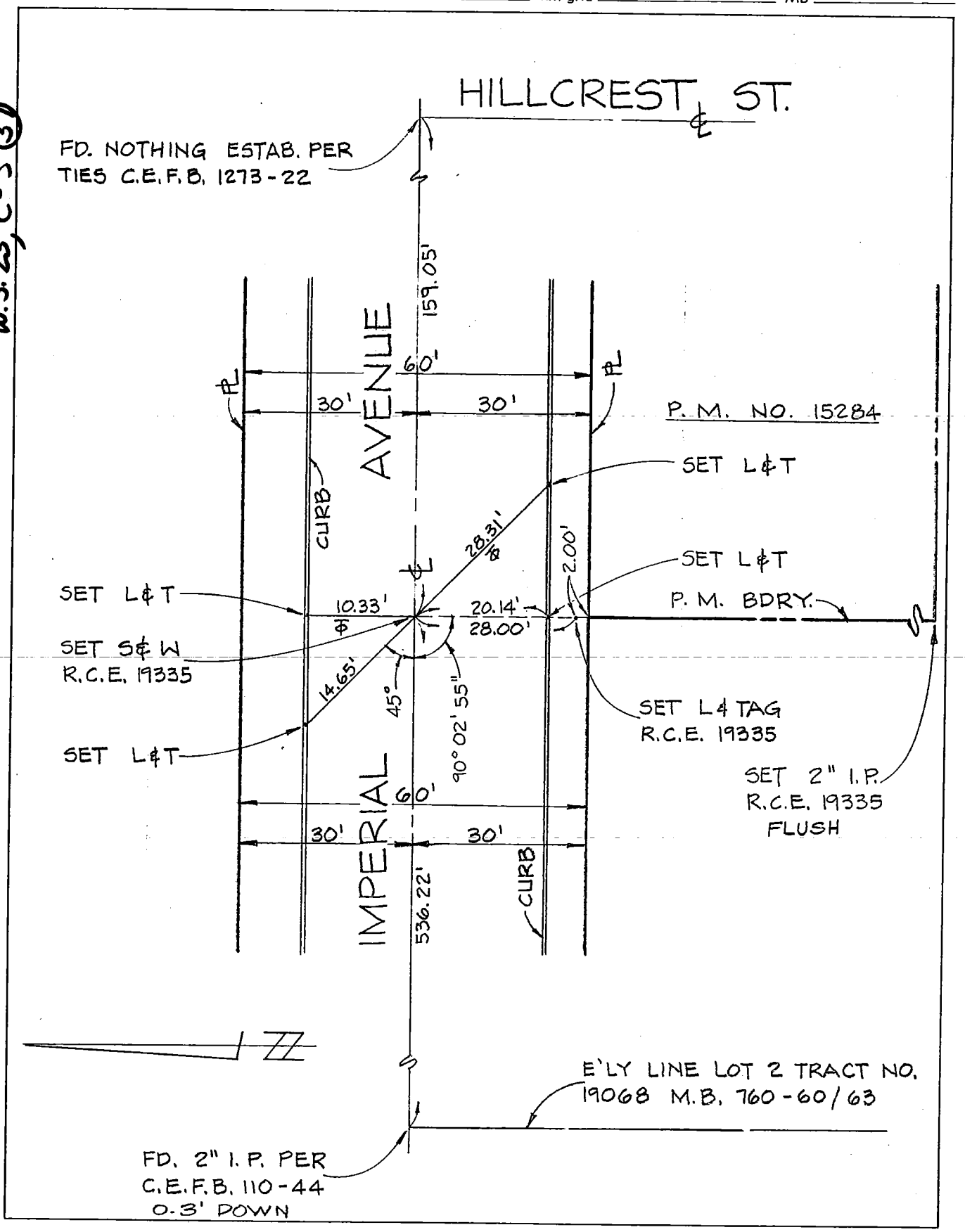
Surveyed by — PACE ENGINEERING Date 12-20-82 F.B. _____ Pg. _____

Type of Survey CENTERLINE TIES Sheet 2 of 2

Distances corrected to 68° _____ Monuments tagged ~~LS #~~ _____ ~~Tract or~~ RCE # 19335 Parcel Map # 15284

Checked by _____ Date _____ km grid _____ MB _____

NOTE: Additions or changes must be initialed, and dated. W.S. 23, C-5 (37)

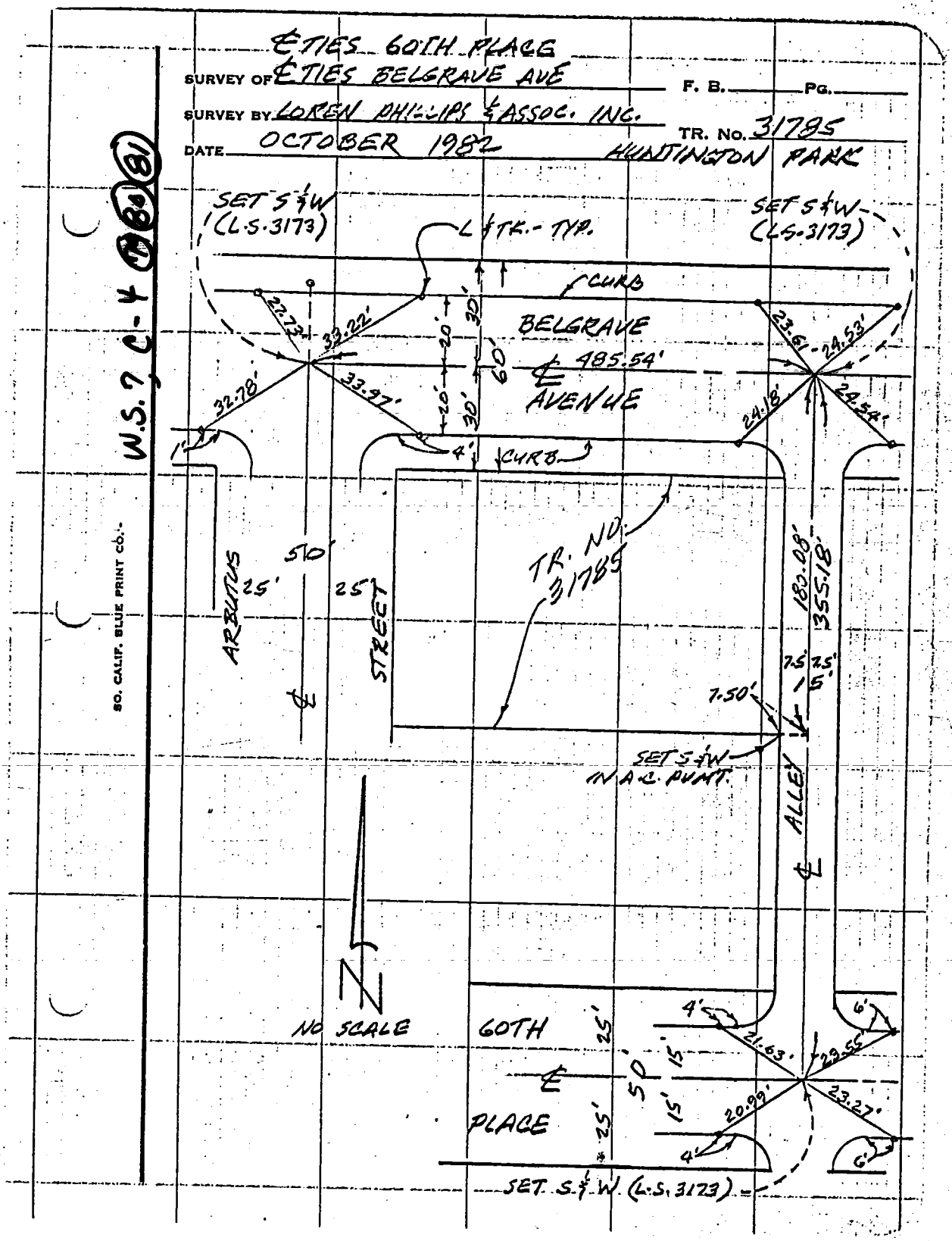


Return original to
BUREAU OF ENGINEERING
SURVEY DIVISION, Rm. 835
200 N. Main St. — Los Angeles 90012

Ground Dist. X Correction Factor: _____ = Grid Distance

Micro-film _____ St. Map _____ Index _____

CO-ENG-FD-3665-46



CO ENG FB 3665-47

E-221

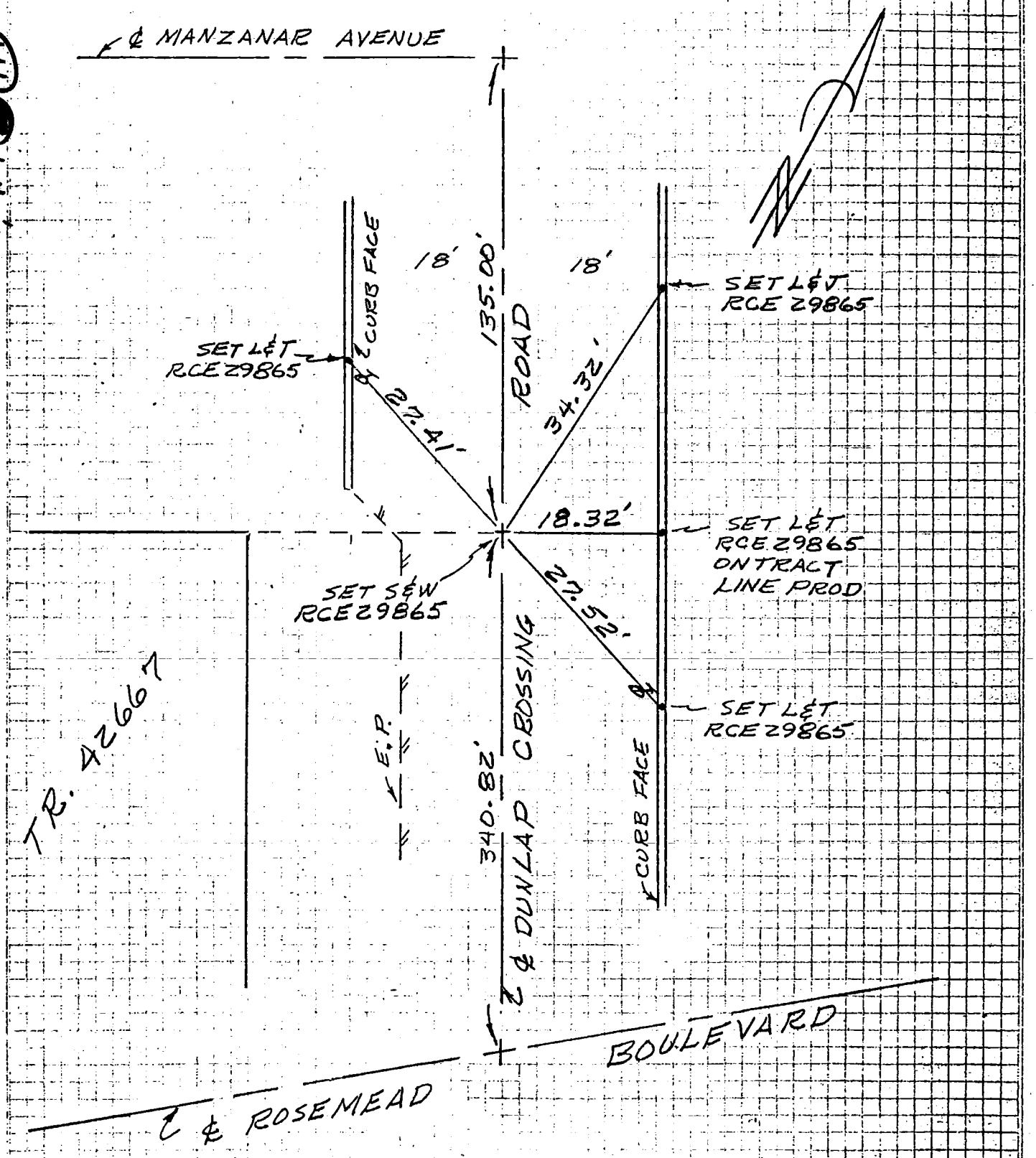
SURVEY OF ℄ Ties-Tract 42667 INDEX PAGE

SURVEYED BY William G. Bryant DATE Sept. 29, 1982 ORANGE COUNTY SURVEYOR

R.C.E. 29865

Page 1 of 2

099-257 A-1 (197)

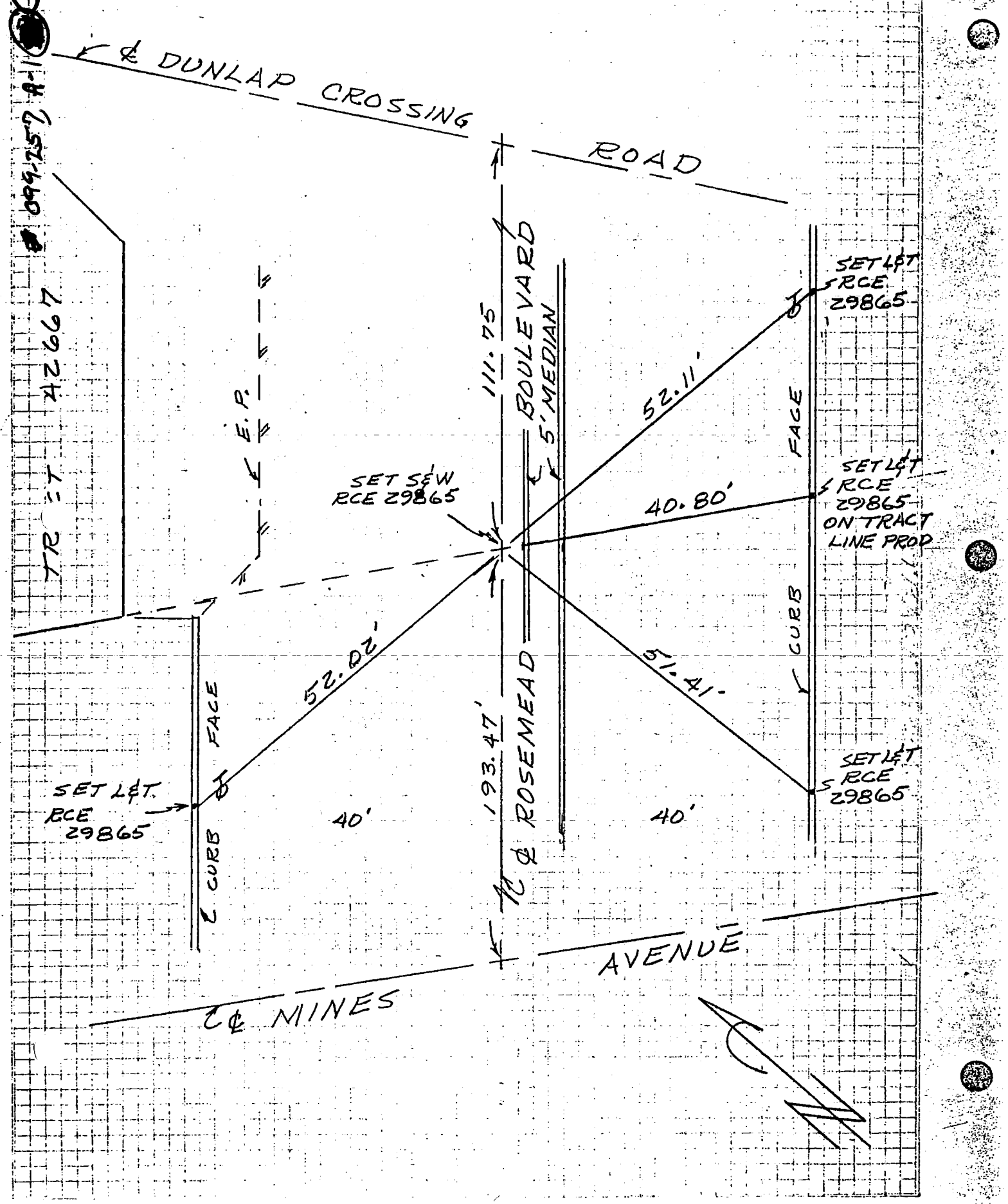


SURVEY OF ℄ Ties- Tract 42667 PAGE

SURVEYED BY William G. Bryant
R.C.E. 29865

Sept. 29, 1982

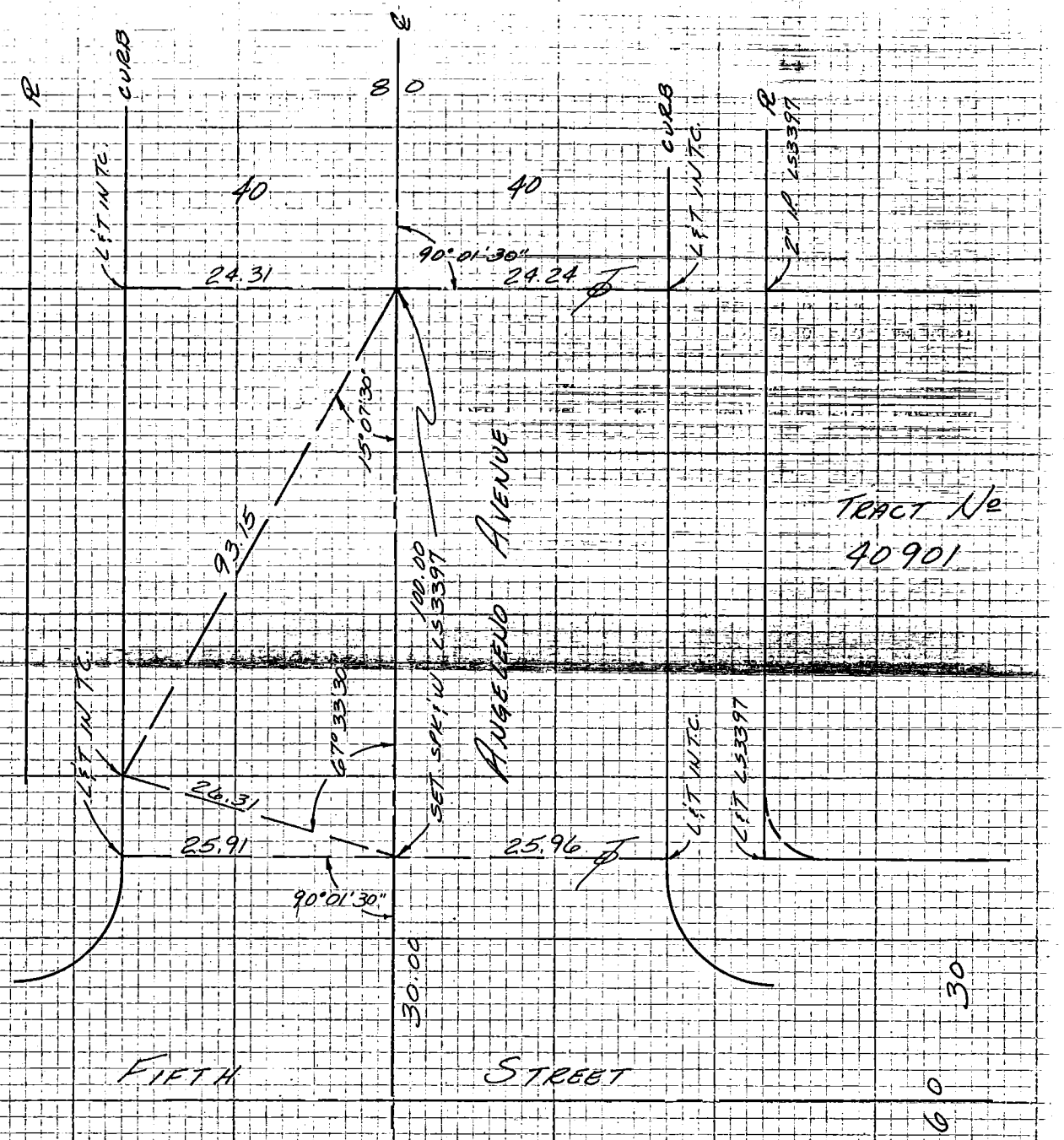
ORANGE COUNTY SURVEYOR
Page 2 of 2



CO ENG FB 3665-49

Notes Ck'd by	Survey of ℄ TIES
Map No. TRACT № 40901	JN ____ Tape ____ Std ____ °F
Office Work	Surveyed by ZEHFUSS
Checked	Notes ____ Date 12-15-82
Date	Indexed

F.B. ____ PG. ____



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

W.S. 40, C-2 (46)

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

CENTERLINE NOTES
CE 310
76F3095-4/73

of 49

CO ENG FB 3665-50

SURVEY OF EVELYN PLACE

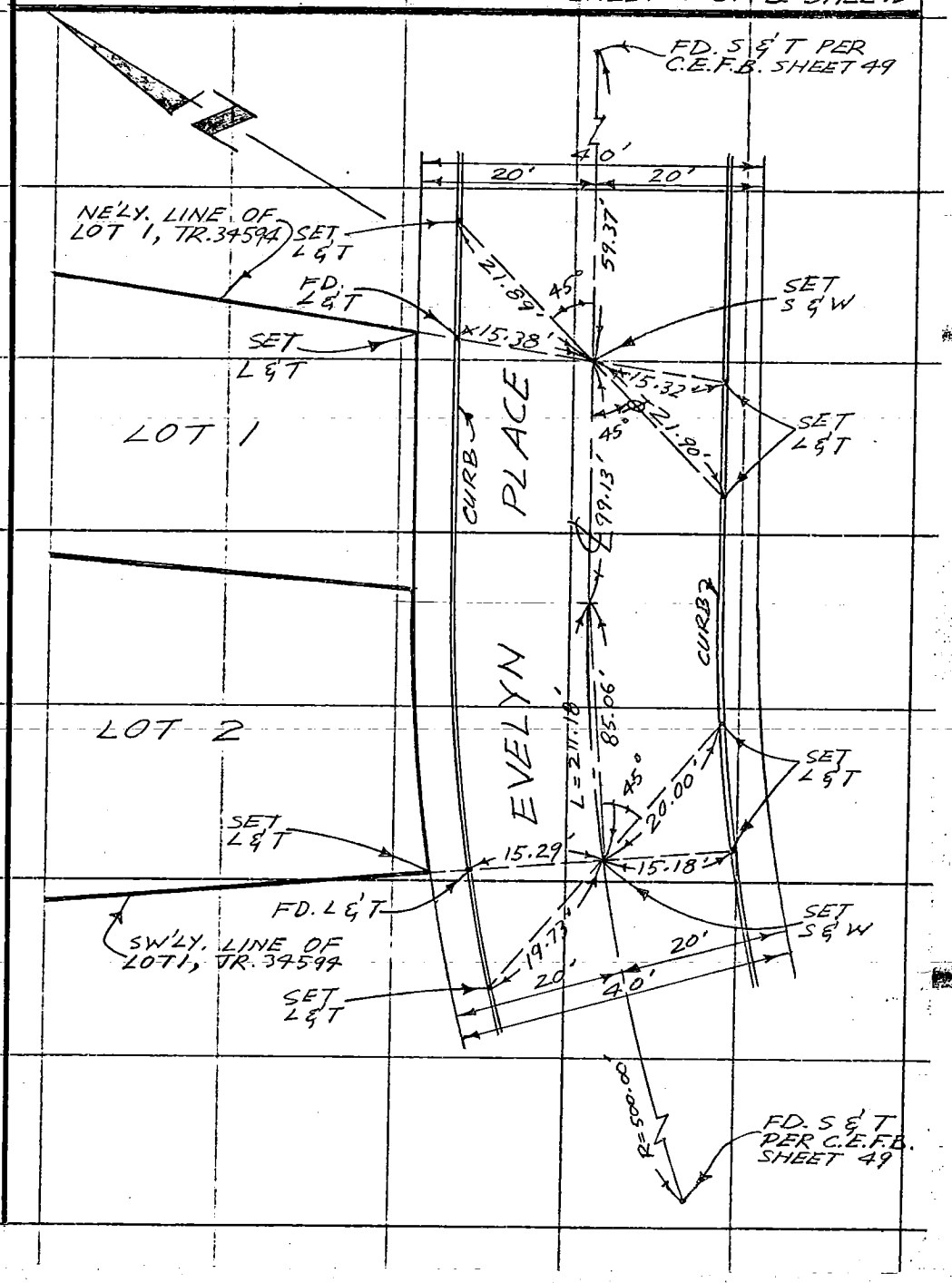
F. B. _____ PG. _____

SURVEY BY ATANAS STERYO, R.C.E. 23221

TR. No. 34594

DATE DECEMBER, 1980

SHEET 1 OF 3 SHEETS



SO. CALIF. BLUE PRINT CO.

CO ENG FB 3665-51

SURVEY OF LOMA VISTA DRIVE

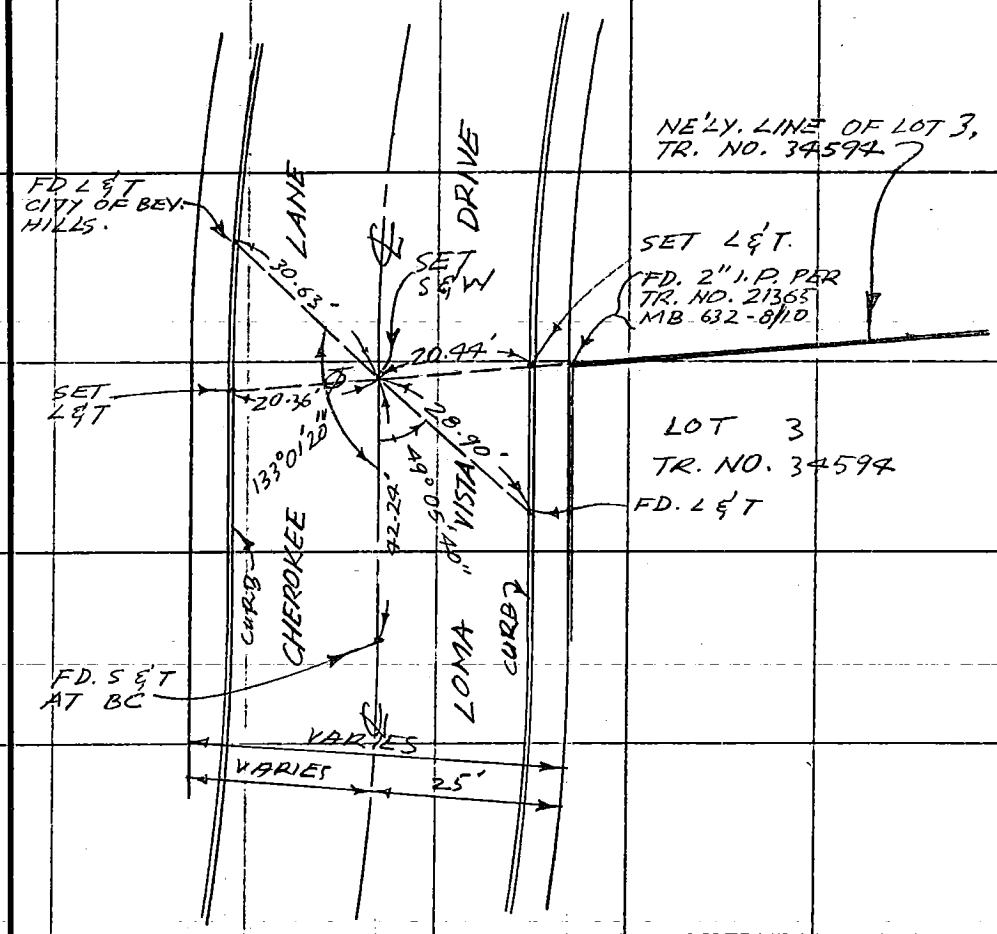
F. B. _____ PG. _____

SURVEY BY ATANAS STERYO, R.C.E. 23221

TR. NO. 34594

DATE DECEMBER, 1980.

SHEET 2 OF 3 SHEETS.



SO. CALIF. BLUE PRINT CO.

CO ENG FB 3665-52

SURVEY OF LOMA VISTA DRIVE

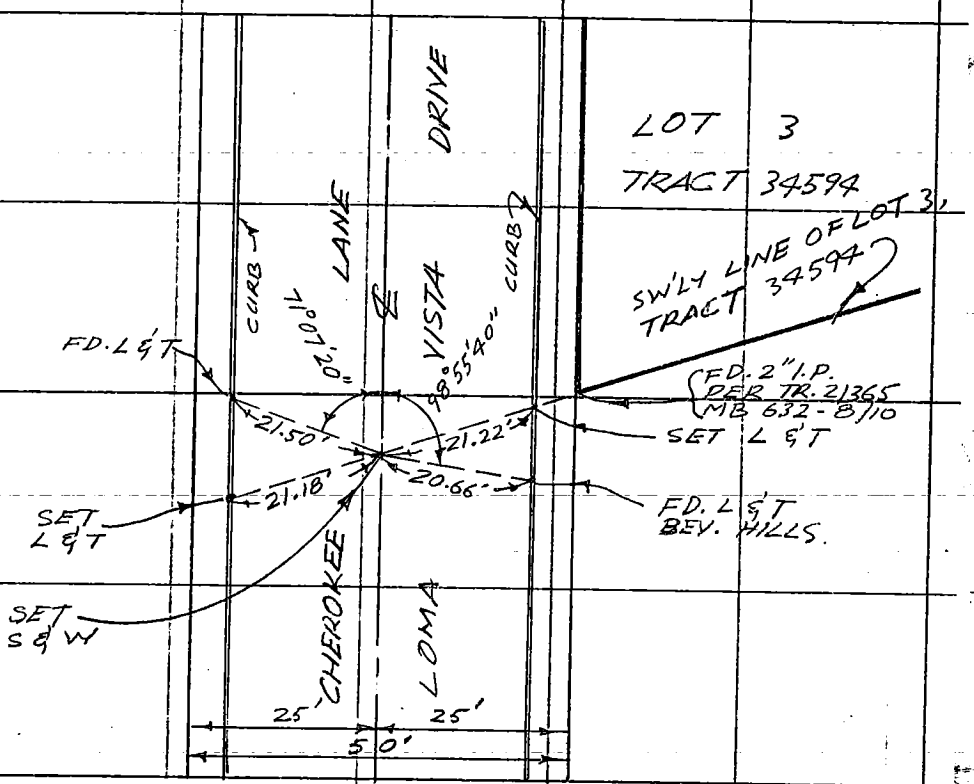
F. B. ____ PG. ____

SURVEY BY ATANAS STERYO, R.C.E 23221

TR. No. 34594

DATE DECEMBER, 1980

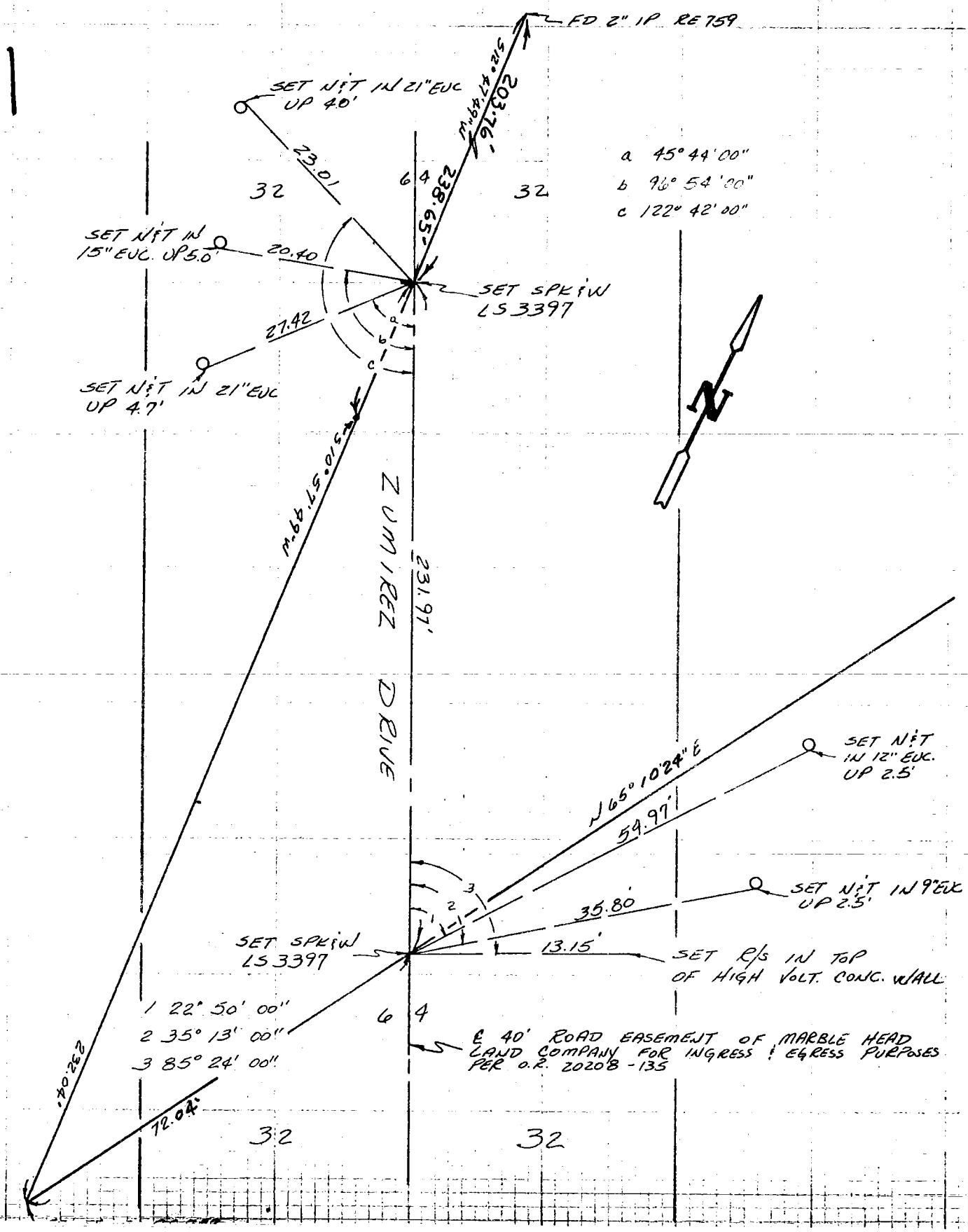
SHEET 3 OF 3 SHEETS



SO. CALIF. BLUE PRINT CO.

Notes Ck'd by	Survey of ℄ TIES
Map No. PM № 14295	JN ____ Tape ____ Std ____ °F
Office Work	Surveyed by ZEHFUSS
Checked	Notes ____ Date 12-17-82
Date	Indexed

F.B. ____ PG. ____



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

Do not extend notes this side of this line

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

NTERLINE NOTES
310
F3095-4/73

54

CO ENG FB 3665-54

SURVEY OF ℄ TIES

F. B. _____ PG. _____

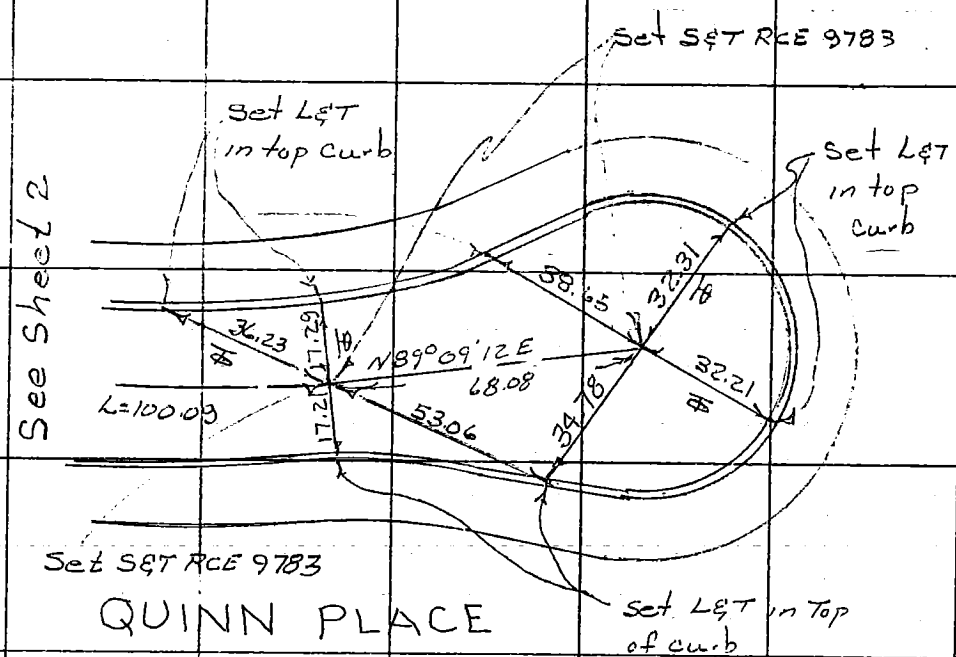
SURVEY BY E.L. PEARSON & ASSOC.

TR. No. 36334

DATE 11-4-82

6 of 6

[redacted] 264-117, 8-1 (128)



SO. CALIF. BLUE PRINT CO.

55

CO ENG FB 3665-55

SURVEY OF ℄ TIES

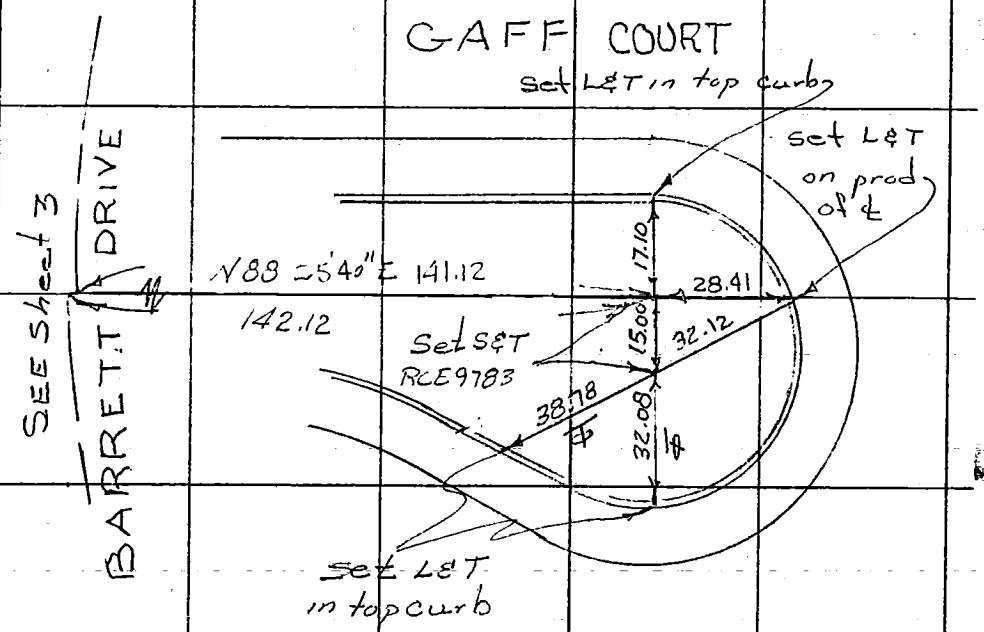
F. B. ____ PG. ____

SURVEY BY E.L. PEARSON & ASSOC.

TR. No. 36334

DATE ____

5 of 6



264-117, B-1 (2)

SO. CALIF. BLUE PRINT CO. -

56

CO ENG FB 3665-56

SURVEY OF ℄ TIES

F. B. ____ PG. ____

SURVEY BY E.L. PEARSON & ASSOC

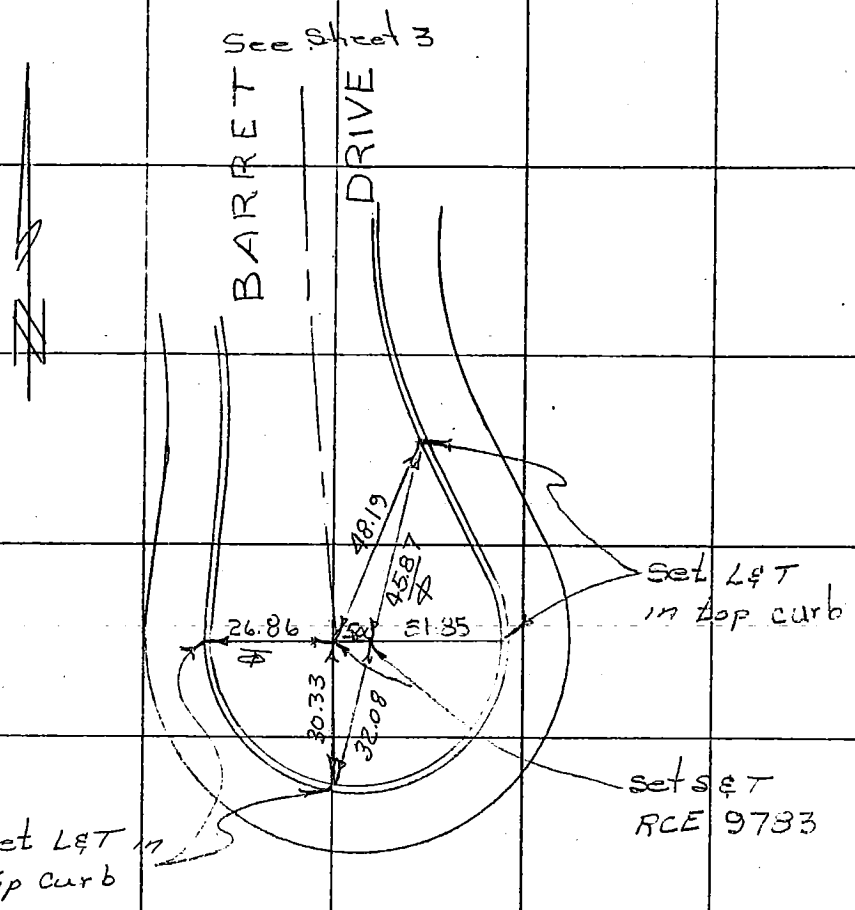
TR. No. 36334

DATE 11-4-82

4 of 6

264-117, 8-1 (13)

SO. CALIF. BLUE PRINT CO. -



CO ENG FB 3665-57

SURVEY OF ℄ TIES

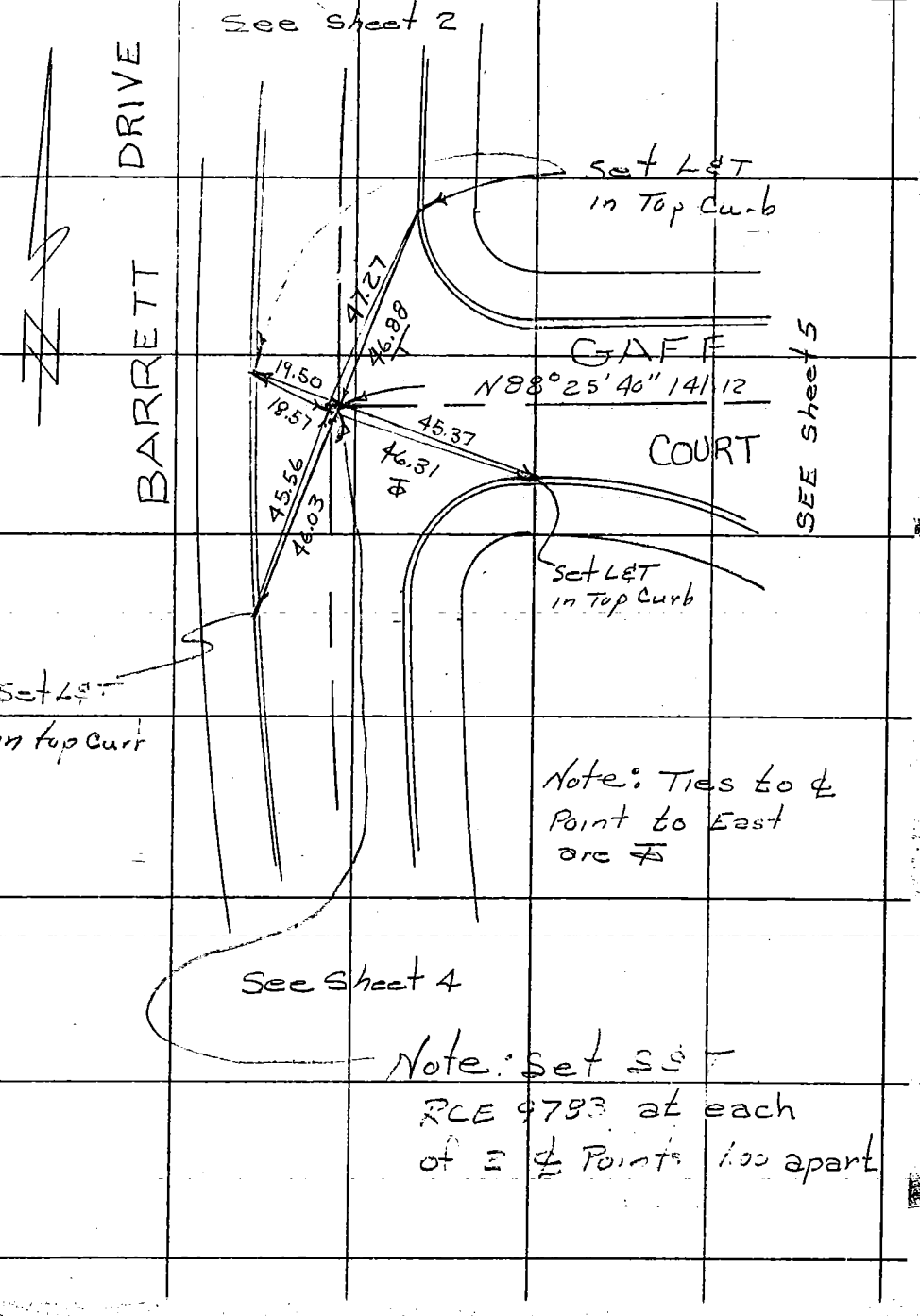
SURVEY BY E.L. PEARSON & ASSOC.

DATE 11-4-82

F. B. ____ PG. ____

TR. No. 36334

3 of 6



264-117, 8-1 (13)

SO. CALIF. BLUE PRINT CO. -

58

CO ENG FB 3665-58

SURVEY OF ℄ TIES

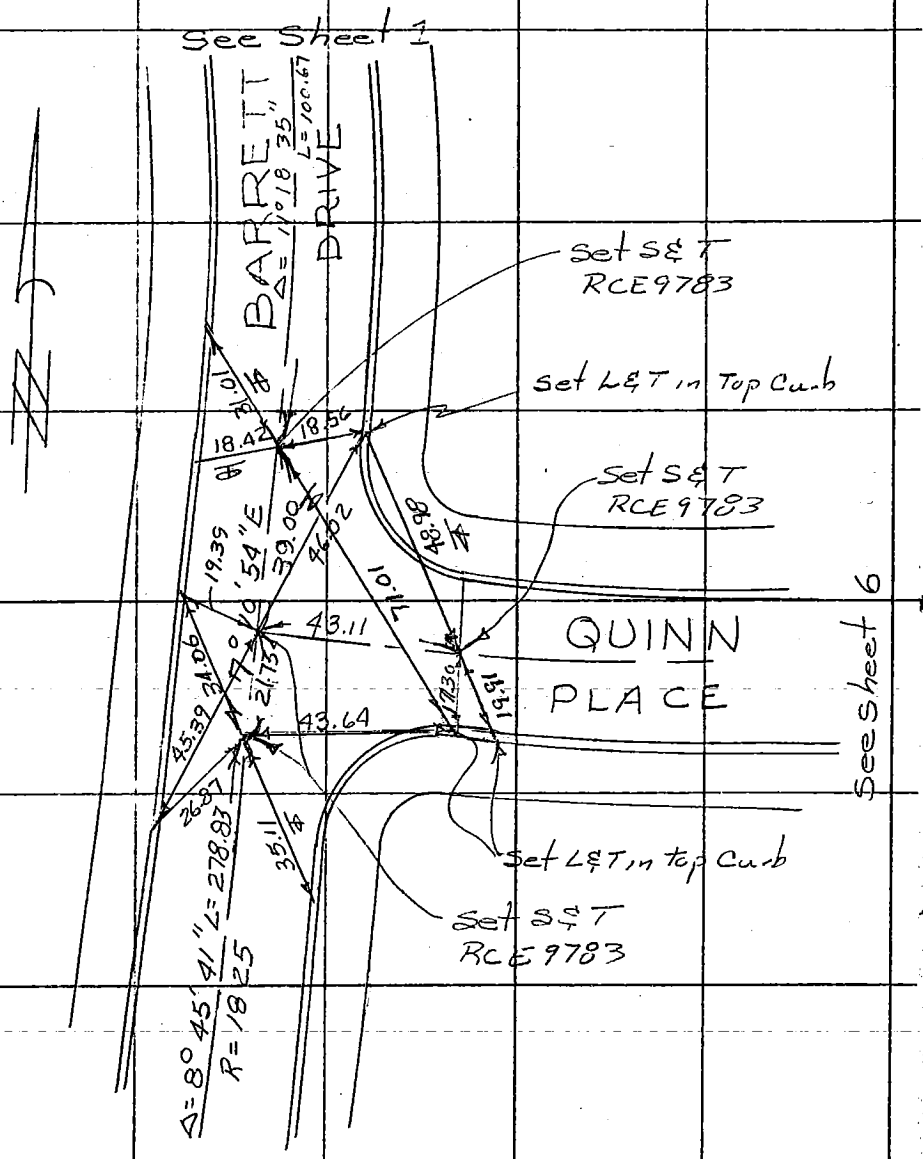
F. B. ____ PG. ____

SURVEY BY E.L. Pearson & Assoc

TR. No. 36334

DATE 11-4-82

2 of 6



264-119 B-1 (132)

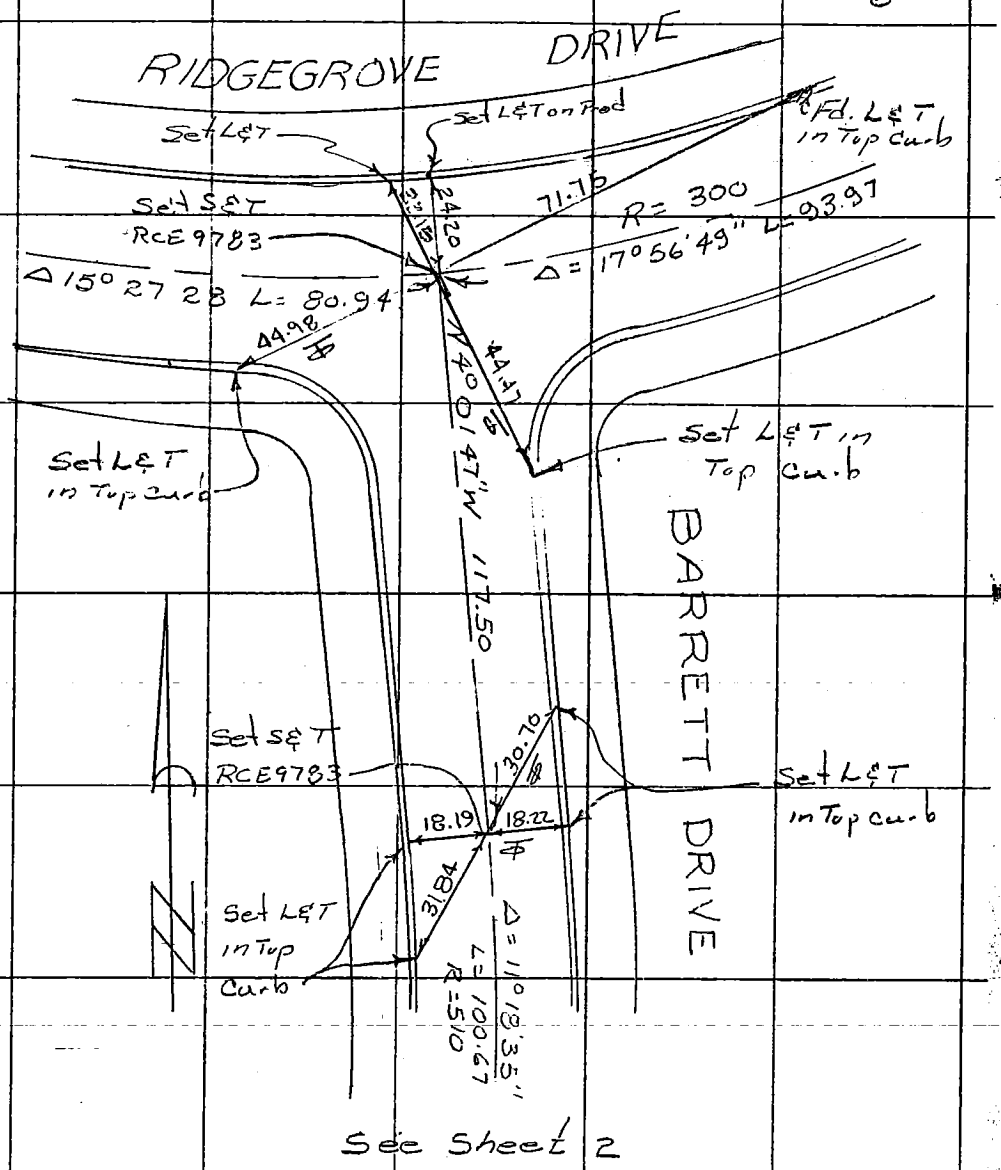
SO. CALIF. BLUE PRINT CO. -

59 CO ENG FB 3665-59

SURVEY OF ℄ TIES F. B. PG.

SURVEY BY E.L. Pearson & Assoc. TR. No. 36334

DATE 11-4-82 1 of 6



See Sheet 2

264-117, B-1 (33)

SO. CALIF. BLUE PRINT CO.

W.S. 27, D-2 (86)

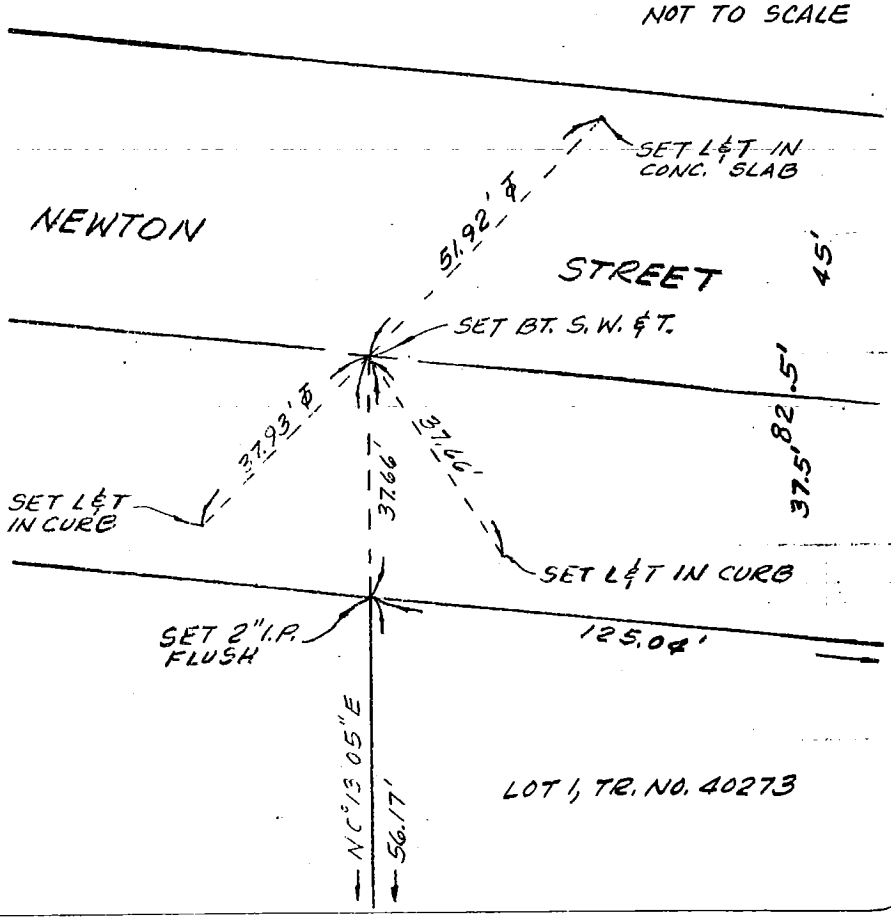
SURVEYORS SERVICE COMPANY STA MESA - STOCK NO. 411

DO NOT EXTEND NOTES THIS SIDE OF LINE

SURVEY OF NEWTON STREET F B NO. ____ PAGE ____
SURVEY BY WESTCO ENGR. & SURV. TRACT NO. 40273
DATE 12/7/82

NOTE: ALL POINTS TAGGED
R.C.E. 24027

NOT TO SCALE



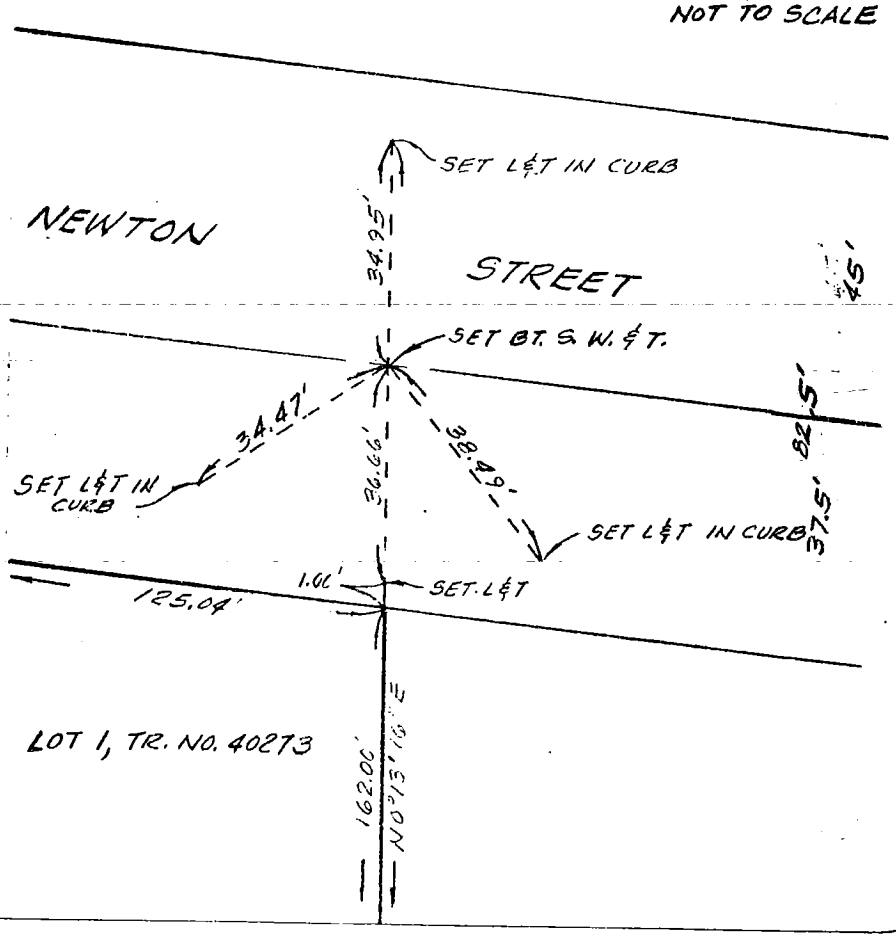
SURVEY OF NEWTON STREET F B NO. ____ PAGE ____

SURVEY BY WESTCO ENGR. & SURV. TRACT NO. 40273

DATE 12/7/82

NOTE: ALL POINTS TAGGED
R.C.E. 24027

NOT TO SCALE



W.S. 27 J-2 (86)

DO NOT EXTEND NOTES THIS SIDE OF LINE

SURVEYORS SERVICE COMPANY STA MESA - STOCK NO. 411

CO ENG FB 3005-02

3665-62

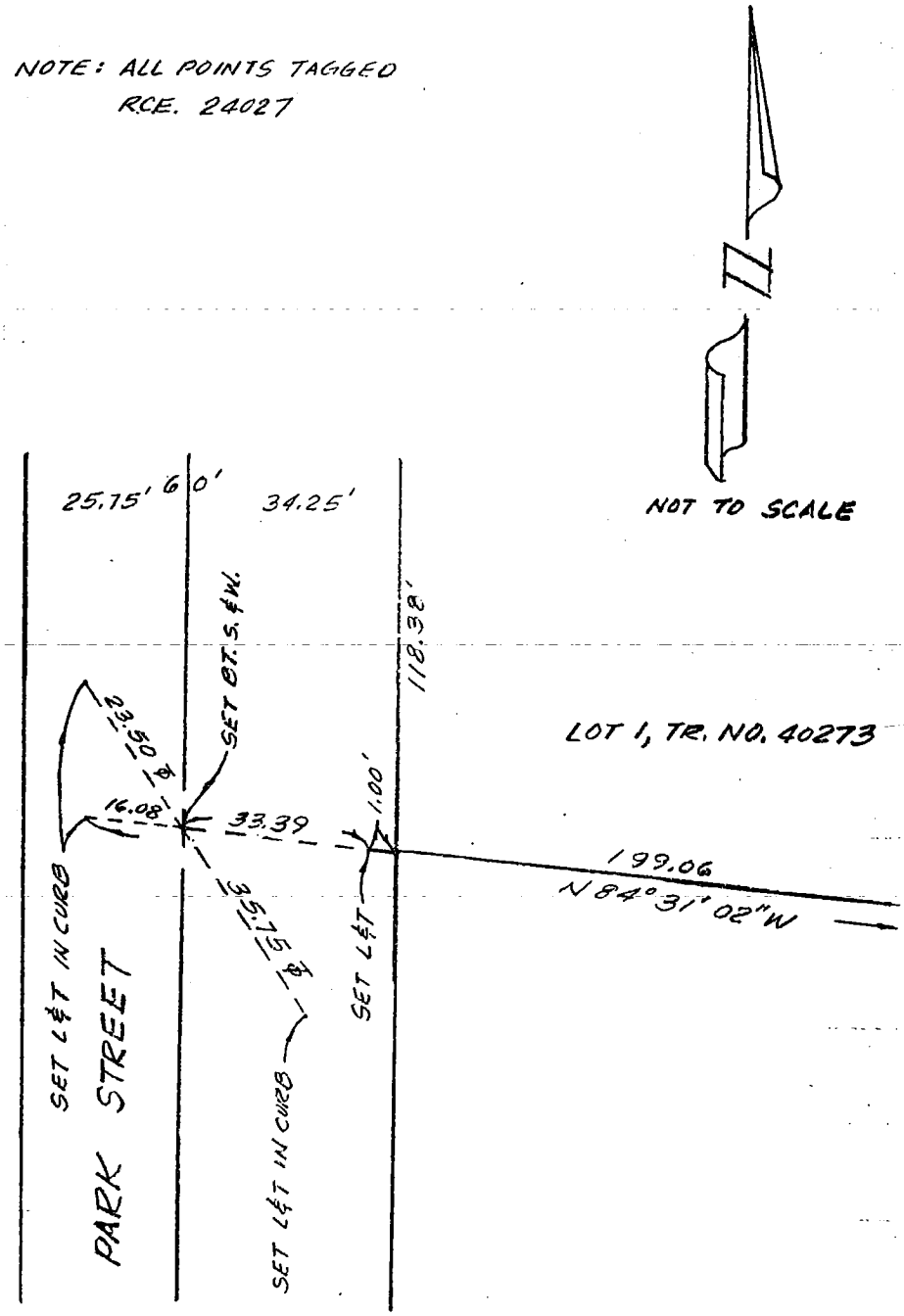
W.S. 27, D-2 (87)

SURVEY OF PARK STREET F B NO. ____ PAGE ____

SURVEY BY WESTCO ENGR. & SURV. TRACT NO. 40273

DATE 12/7/82

NOTE: ALL POINTS TAGGED
RCE. 24027



SURVEYORS SERVICE COMPANY STA MESA - STOCK NO. 411

DO NOT EXTEND NOTES THIS SIDE OF LINE

63

CO ENG FB 3669-63

3669-63

SURVEY OF PARK STREET F B NO. ____ PAGE ____

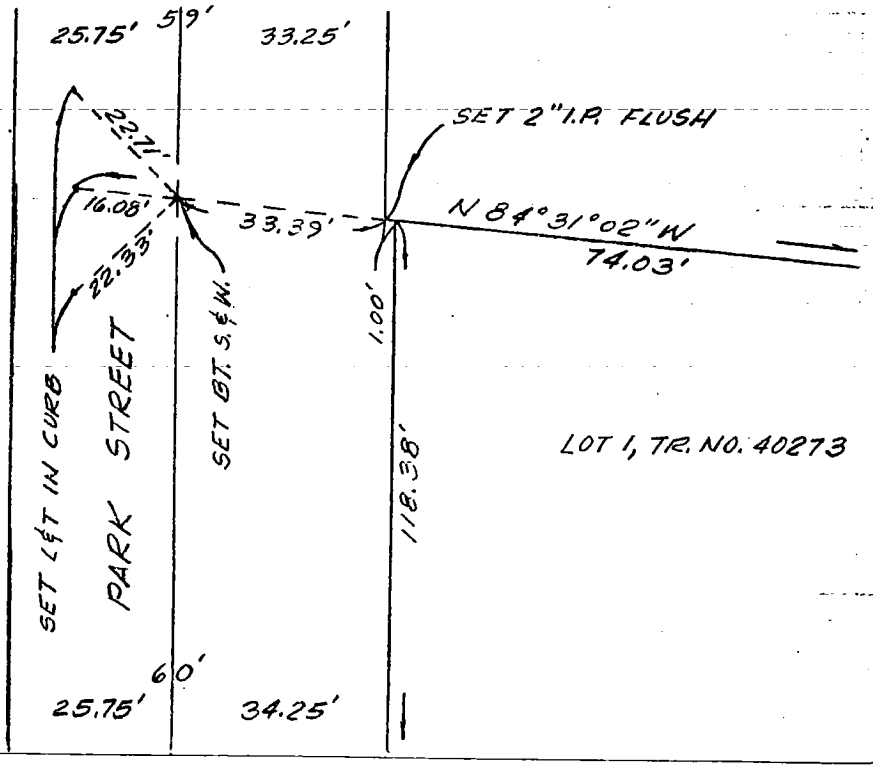
SURVEY BY WESTCO ENGR. & SURV. TRACT NO. 40273

DATE 12/7/82

W.S. 27 D-2 (87)

NOTE: ALL POINTS TAGGED
R.C.E. 24027

NOT TO SCALE



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SURVEYORS SERVICE COMPANY STA MESA - STOCK NO. 411

CO ENG FB 3665-64

ENG. 3.883B (12/78)
Title & Plat Sheet
50% Rag

Surveyed by — WAGNER-KERR ASSOC. Date 12/28/82 F.B. _____ Pg. _____

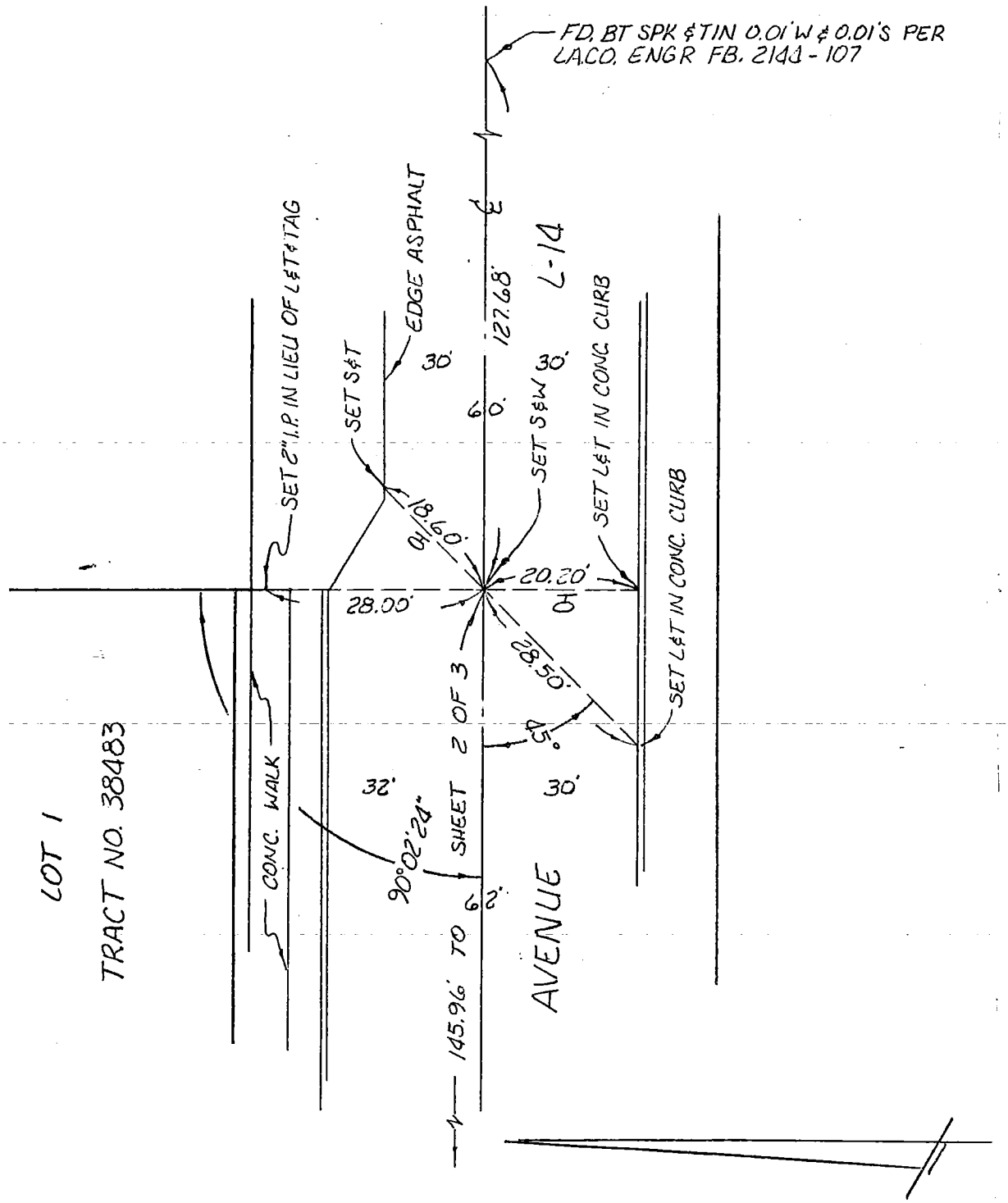
Type of Survey CENTERLINE TIES Sheet 1 of 3

Distances corrected to 68° _____ Monuments tagged _____ L S # 3164 ~~R C E #~~ _____ Tract or ~~Parcel Map~~ # 38483

Checked by _____ Date _____ km grid _____ MB _____

NOTE: Additions or changes must be initialed, and dated.

W.S. 71, C-6 ⑥



Return original to
BUREAU OF ENGINEERING
SURVEY DIVISION, Rm. 835
200 N. Main St. — Los Angeles 90012

Ground Dist. X Correction Factor: _____ = Grid Distance

Micro-film _____ St. Map _____ Index _____

ENG. 3.883B (12/78)
Title & Plat Sheet
50% Rag

CO ENG FB 3665-65

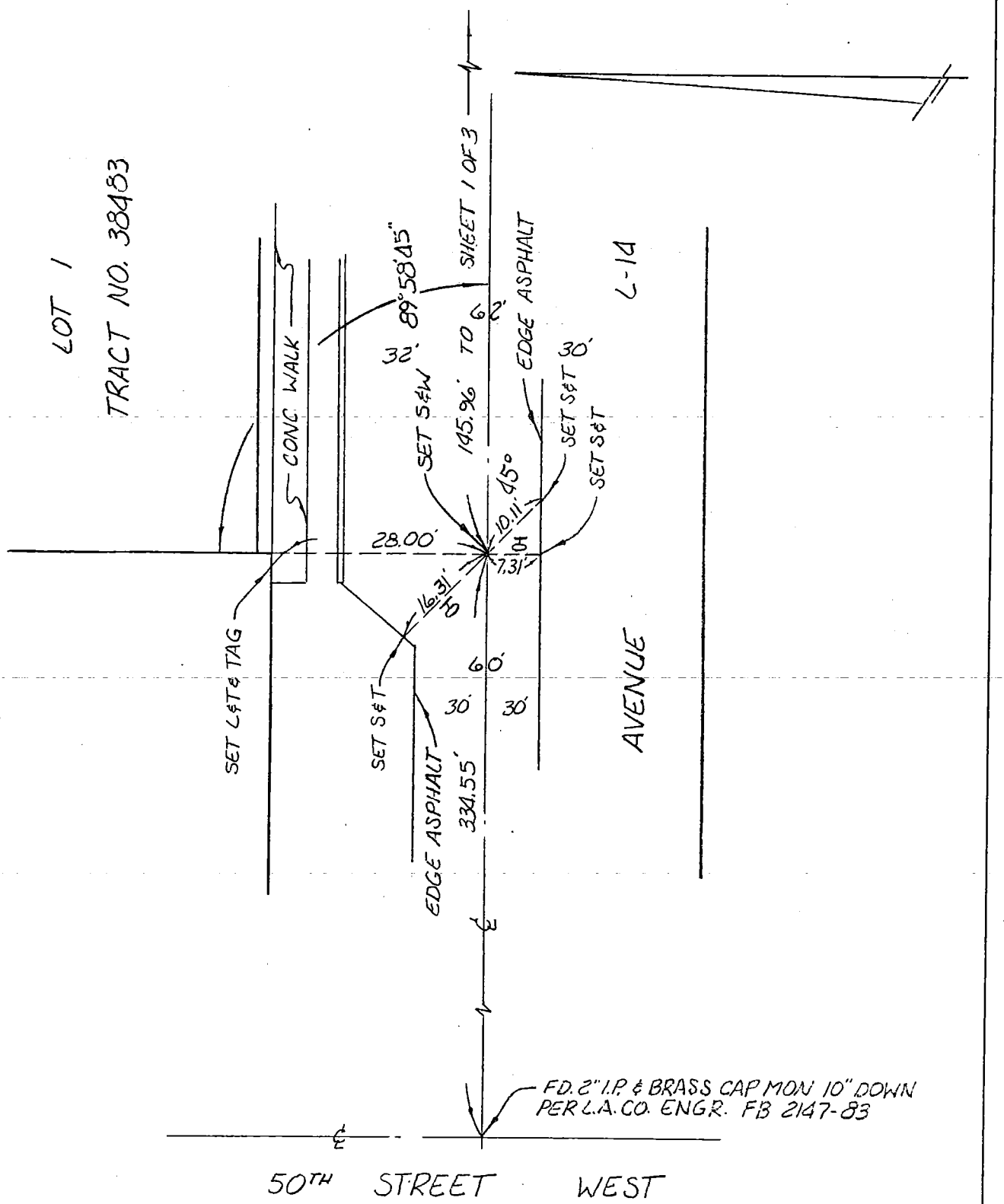
Surveyed by — WAGNER - KERR ASSOC Date 12/28/82 F.B. _____ Pg. _____

Type of Survey CENTERLINE TIES Sheet 2 of 3

Distances corrected to 68° _____ Monuments tagged _____ L S # 3164 ~~R C E #~~ _____ Tract or ~~Parcel Map~~ # 38483

Checked by _____ Date _____ km grid _____ MB _____

NOTE: Additions or changes must be initialed, and dated.
W.S. 7/, C-6



Return original to
BUREAU OF ENGINEERING
SURVEY DIVISION, Rm. 835
200 N. Main St. — Los Angeles 90012

Ground Dist. X Correction Factor: _____ = Grid Distance

Micro-film _____ St. Map _____ Index _____

66

CO ENG B 3665-66

ENG. 3.883B (12/78)
Title & Plat Sheet
50% Rag

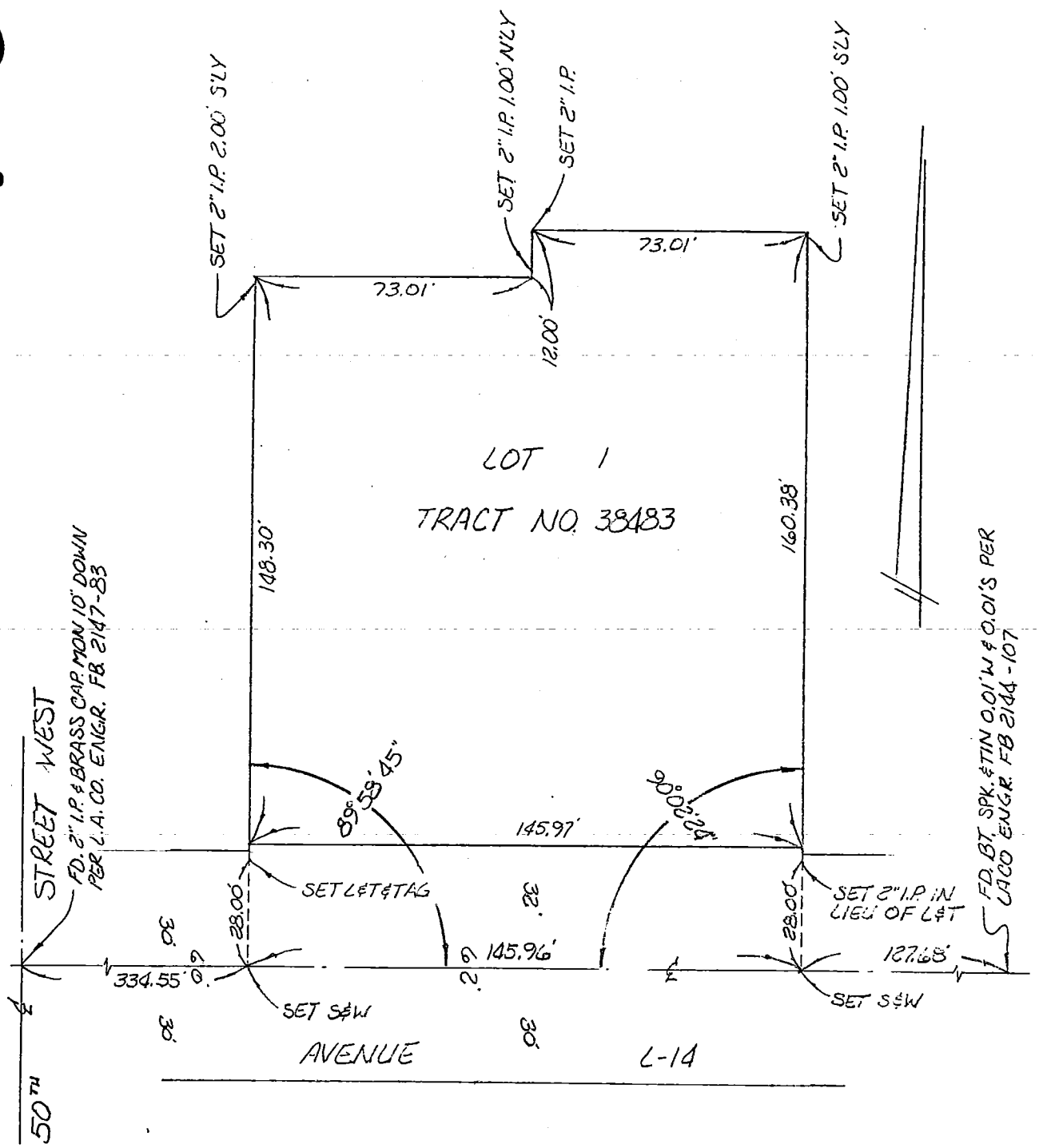
Surveyed by — WAGNER-KERR ASSOC. Date 12/28/82 F.B. _____ Pg. _____

Type of Survey MONUMENT SKETCH Sheet 3 of 3

Distances corrected to 68° _____ Monuments tagged _____ L S # 3164 ~~R C E #~~ _____ Tract or ~~Parcel Map~~ # 38483

Checked by _____ Date _____ km grid _____ MB _____

NOTE: Additions or changes must be initialed, and dated.
W.S.T., C-6 (38)



Return original to
BUREAU OF ENGINEERING
SURVEY DIVISION, Rm. 835
200 N. Main St. — Los Angeles 90012

Ground Dist. X Correction Factor: _____ = Grid Distance

Micro-film _____ St. Map _____ Index _____

67

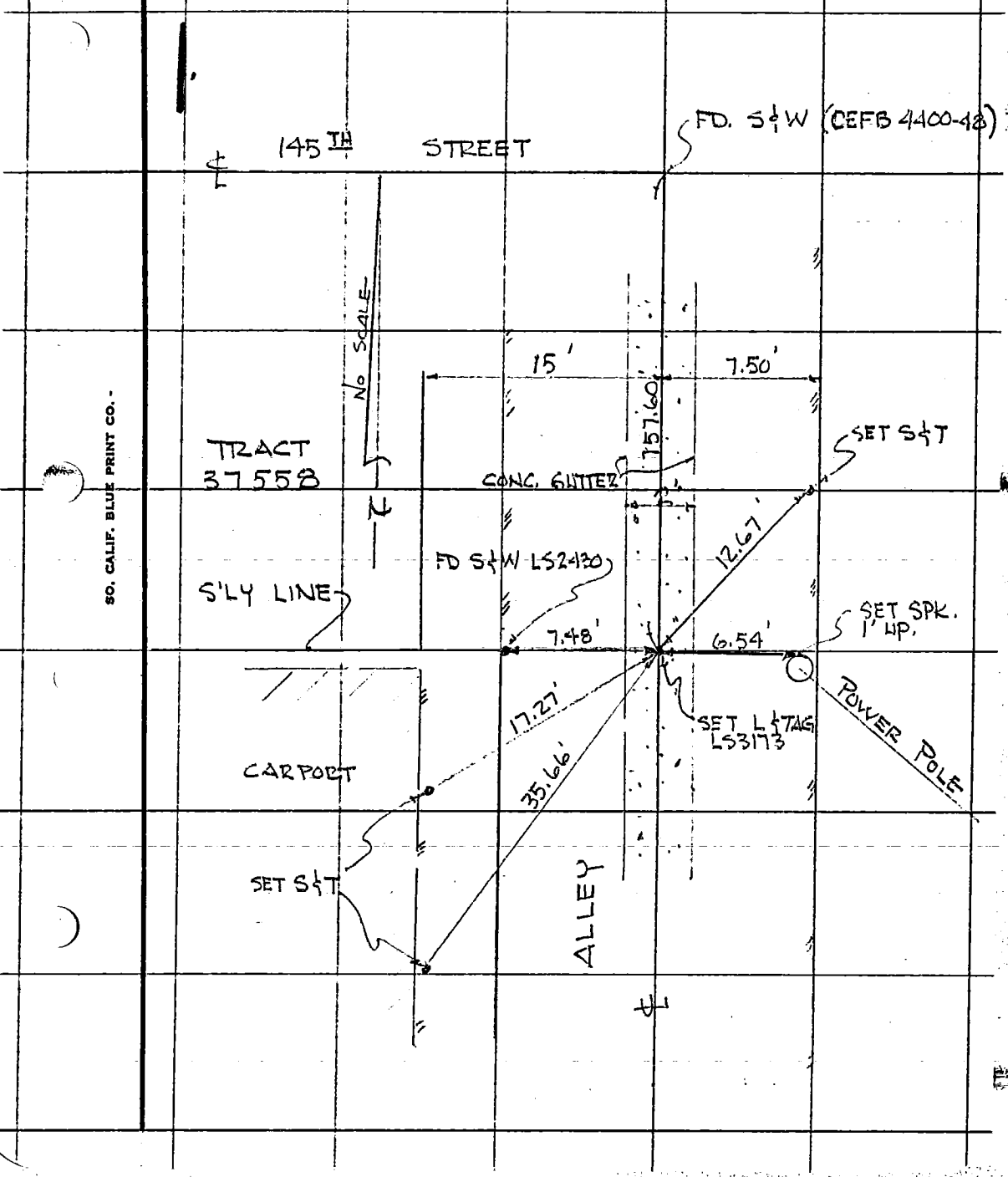
CO ENG FB 3665-67

SURVEY OF ℄ TIES - ALLEY W/O TR. 37558 F. B. ____ PG. ____

SURVEY BY LOREN PHILLIPS & ASSOC.

TR. No. 37558

DATE NOV. 1980



SO. CALIF. BLUE PRINT CO.

TRACT NO. 40972 68

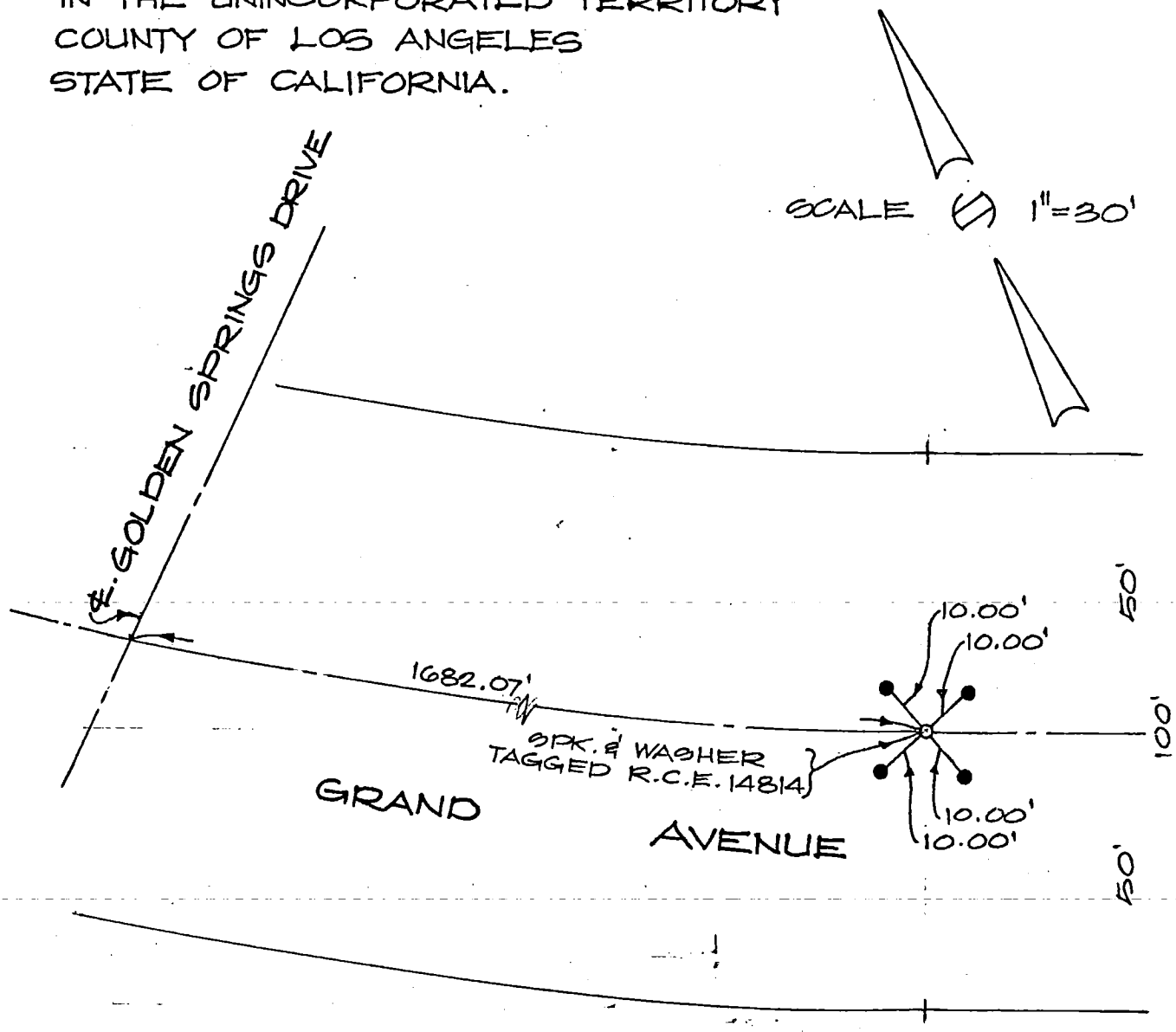
CO ENG FB 3665968

1 OF 3

MADOLE & ASSOCIATES, INC. NOV. 30, 82

IN THE UNINCORPORATED TERRITORY
COUNTY OF LOS ANGELES
STATE OF CALIFORNIA.

11K-337, A-3 (23)



PREPARED IN THE OFFICE OF

MADOLE AND ASSOCIATES, INC.

CONSULTING CIVIL ENGINEERS
AND LAND PLANNERS

1820 E. 16th Street
SANTA ANA, CALIFORNIA 92701

PHONE 714 • 835-2548

TRACT NO. 40972 69

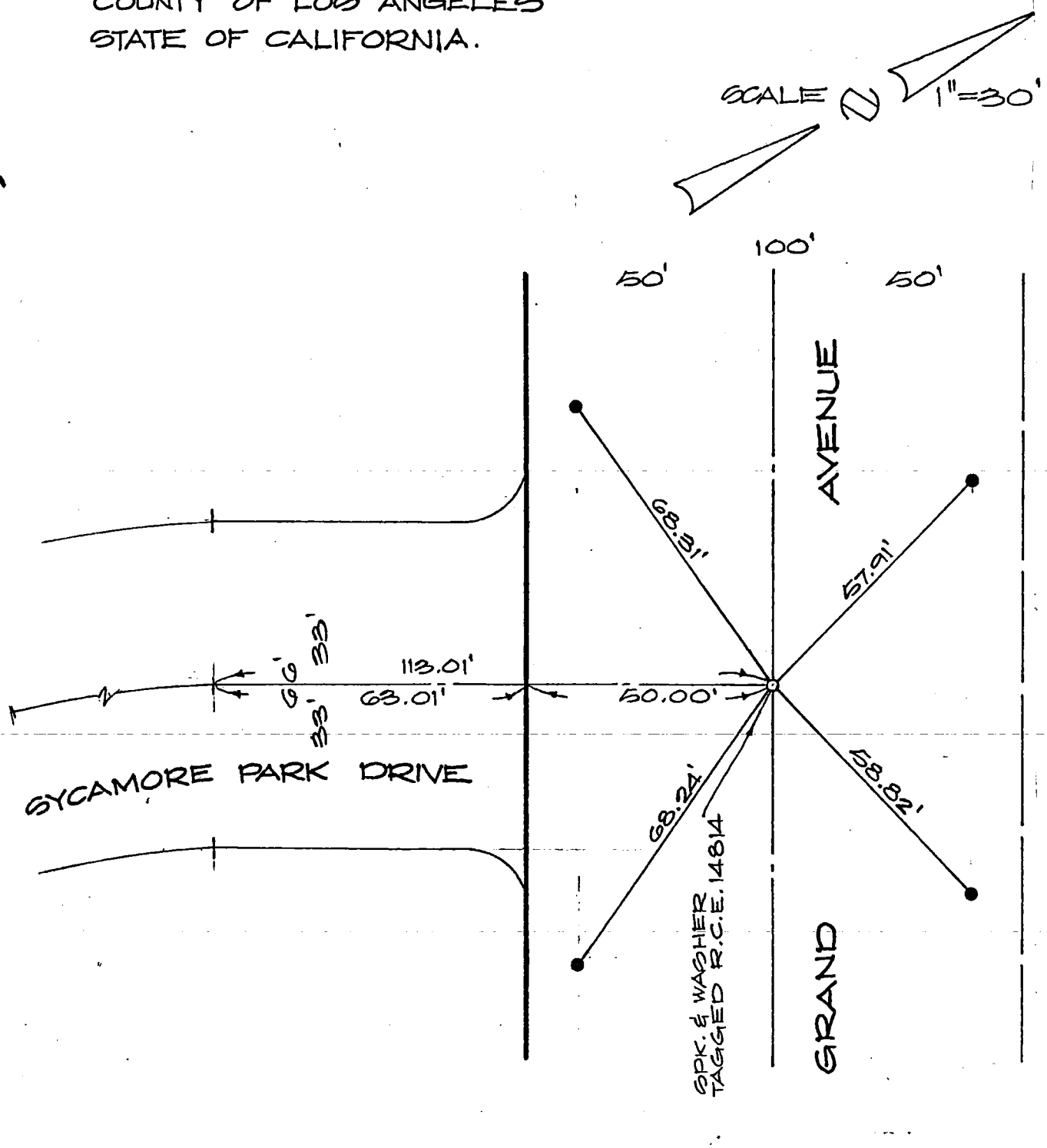
CO ENG FB 3665-69

2 OF 3

MADOLE & ASSOCIATES, INC. NOV. 30, 82

IN THE UNINCORPORATED TERRITORY
COUNTY OF LOS ANGELES
STATE OF CALIFORNIA.

999-337, A-1 (8)



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AND LAND PLANNERS

1820 E. 16th Street
SANTA ANA, CALIFORNIA 92701

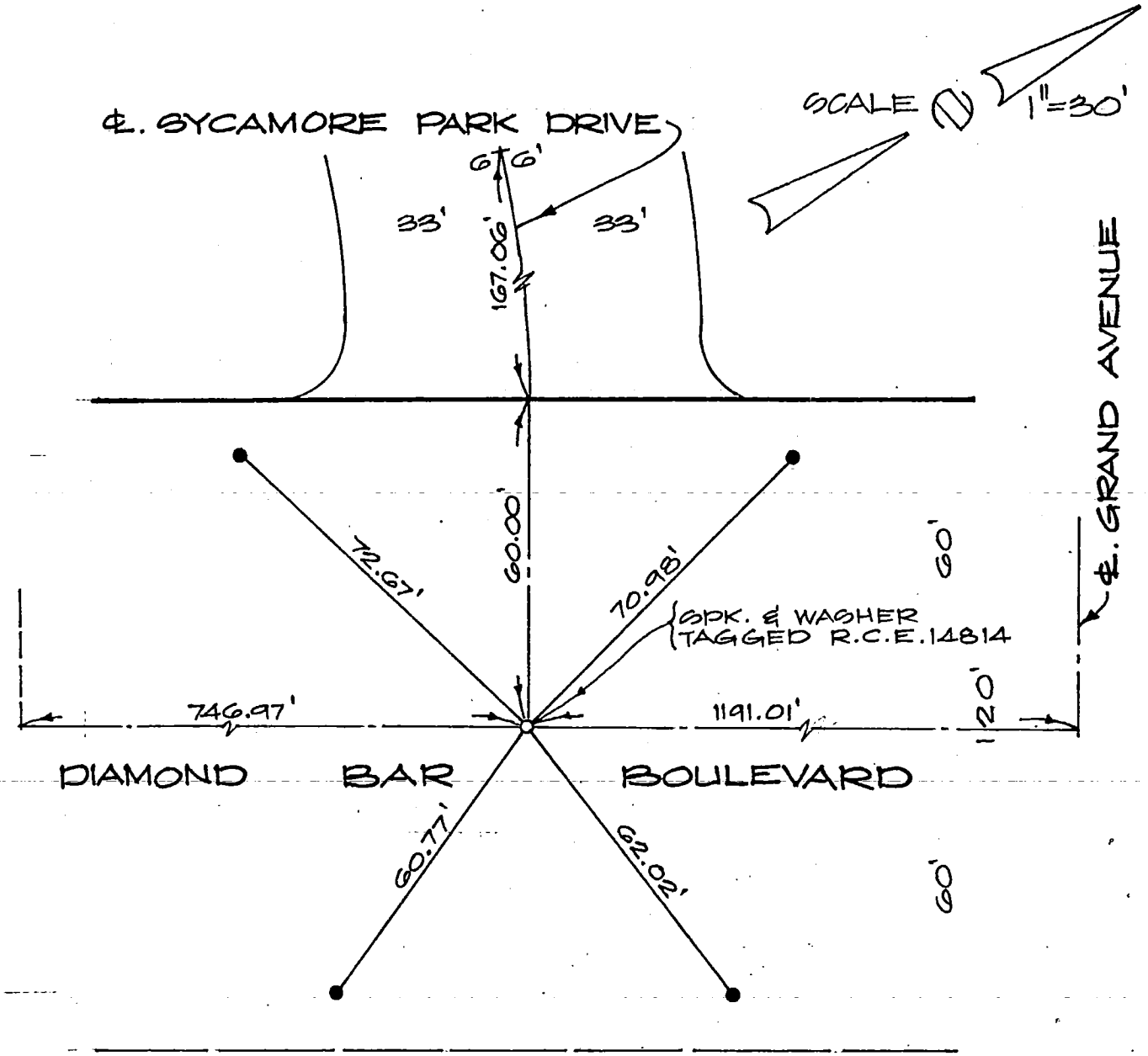
PHONE 714 • 835-2548

TRACT NO. 40972 70

CO ENG FB 3665-70
3 OF 3

MADOLE & ASSOCIATES, INC. NOV. 30, 1982
IN THE UNINCORPORATED TERRITORY
COUNTY OF LOS ANGELES
STATE OF CALIFORNIA.

099-337 A-1 (108)



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CONSULTING CIVIL ENGINEERS
AND LAND PLANNERS

1820 E. 16th Street
SANTA ANA, CALIFORNIA 92701
PHONE 714 • 835-2548

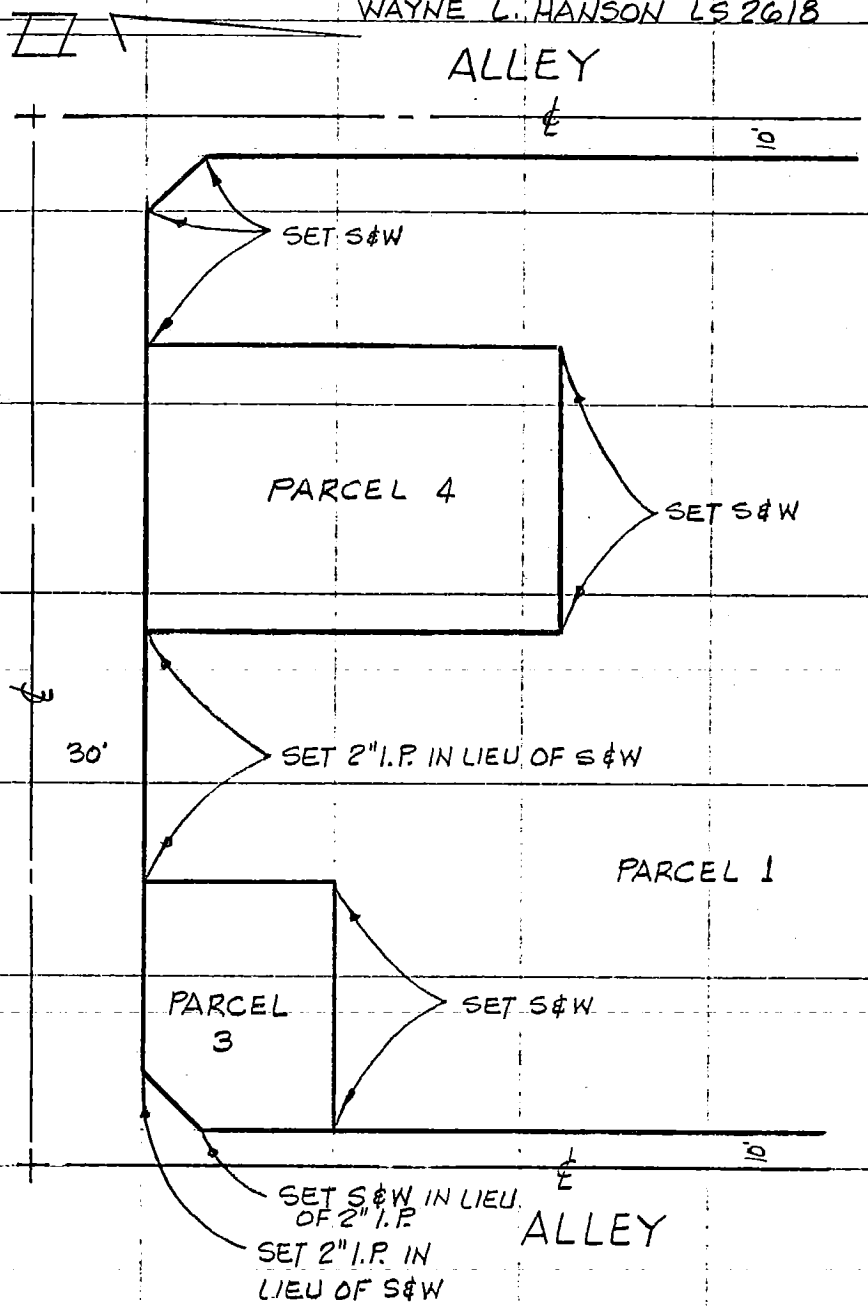
CO ENG FB 3665-71

SURVEY OF PARCEL MAP NO. 14852 F. B. Pg. 1

SURVEY BY JENNINGS ENGR. CO. TR. No.

DATE 12-15-82

WAYNE L. HANSON LS 2618



SEE PAGE 2

SO. CALIF. BLUE PRINT CO.

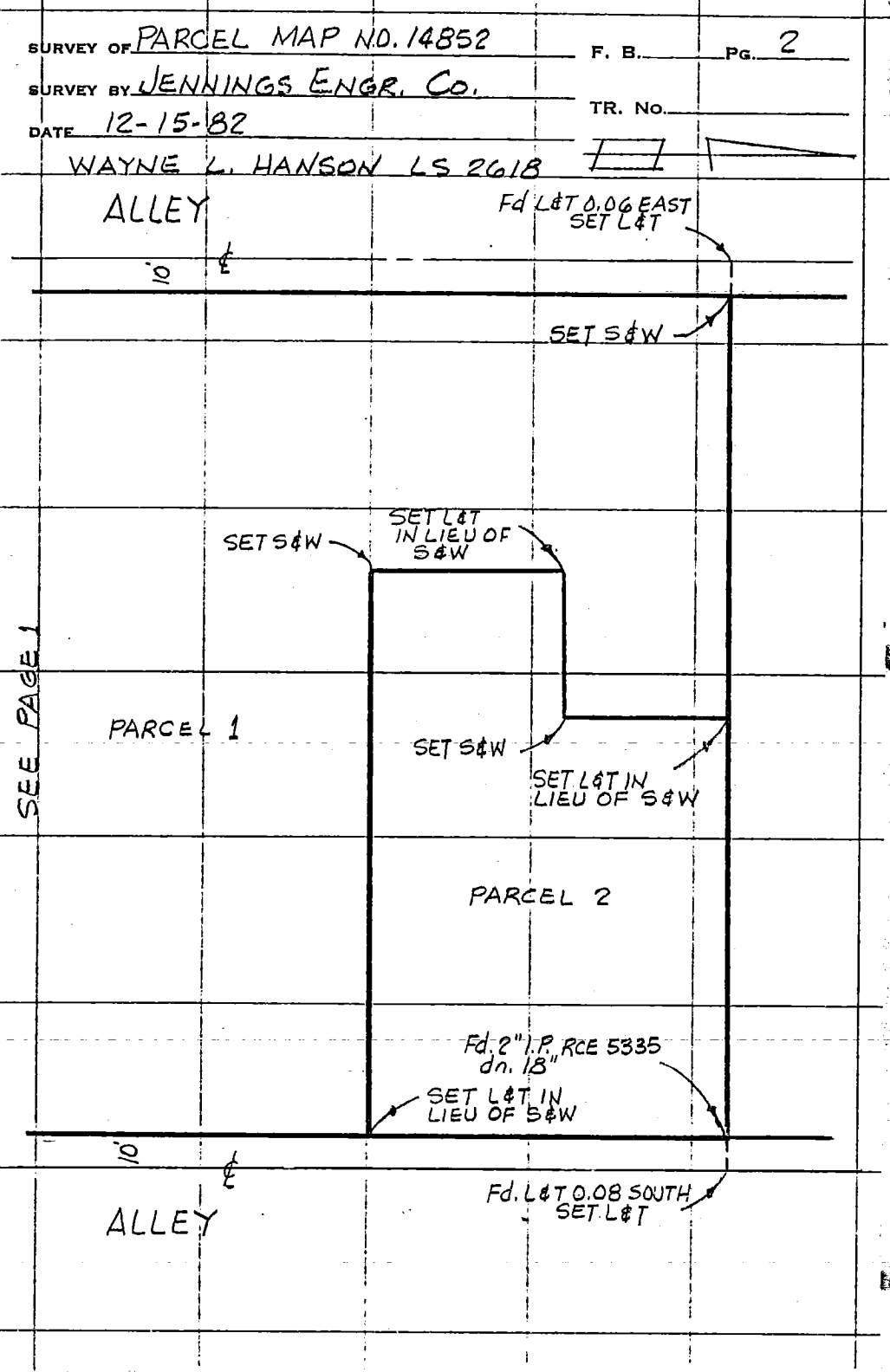
72 CO ENG FB 3665-72

SURVEY OF PARCEL MAP NO. 14852 F. B. PG. 2

SURVEY BY JENNINGS ENGR. CO.

DATE 12-15-82 TR. No.

WAYNE L. HANSON LS 2618



SO. CALIF. BLUE PRINT CO.

CO ENG FB 3665-73

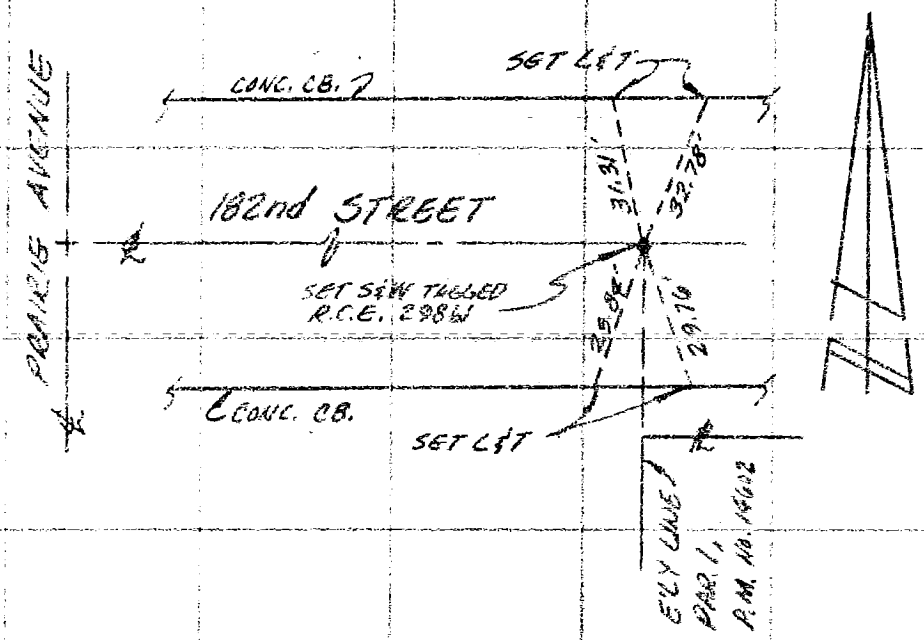
SURVEY OF ℄ 182nd Street F. B. Pg. 1 of 1

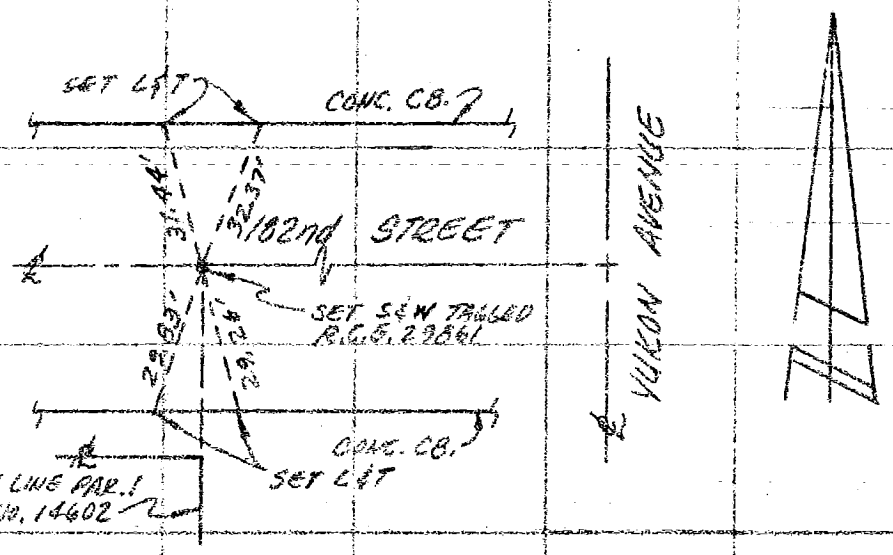
SURVEY BY Thomas T. Yuge, R.C.E. 29861 P.M. No. 14602

~~TR. NO.~~

DATE 1-21-83

W.S. 25 D-4 (52)





SO. CALIF. BLUE PRINT CO.

CO ENG FB 3665-74

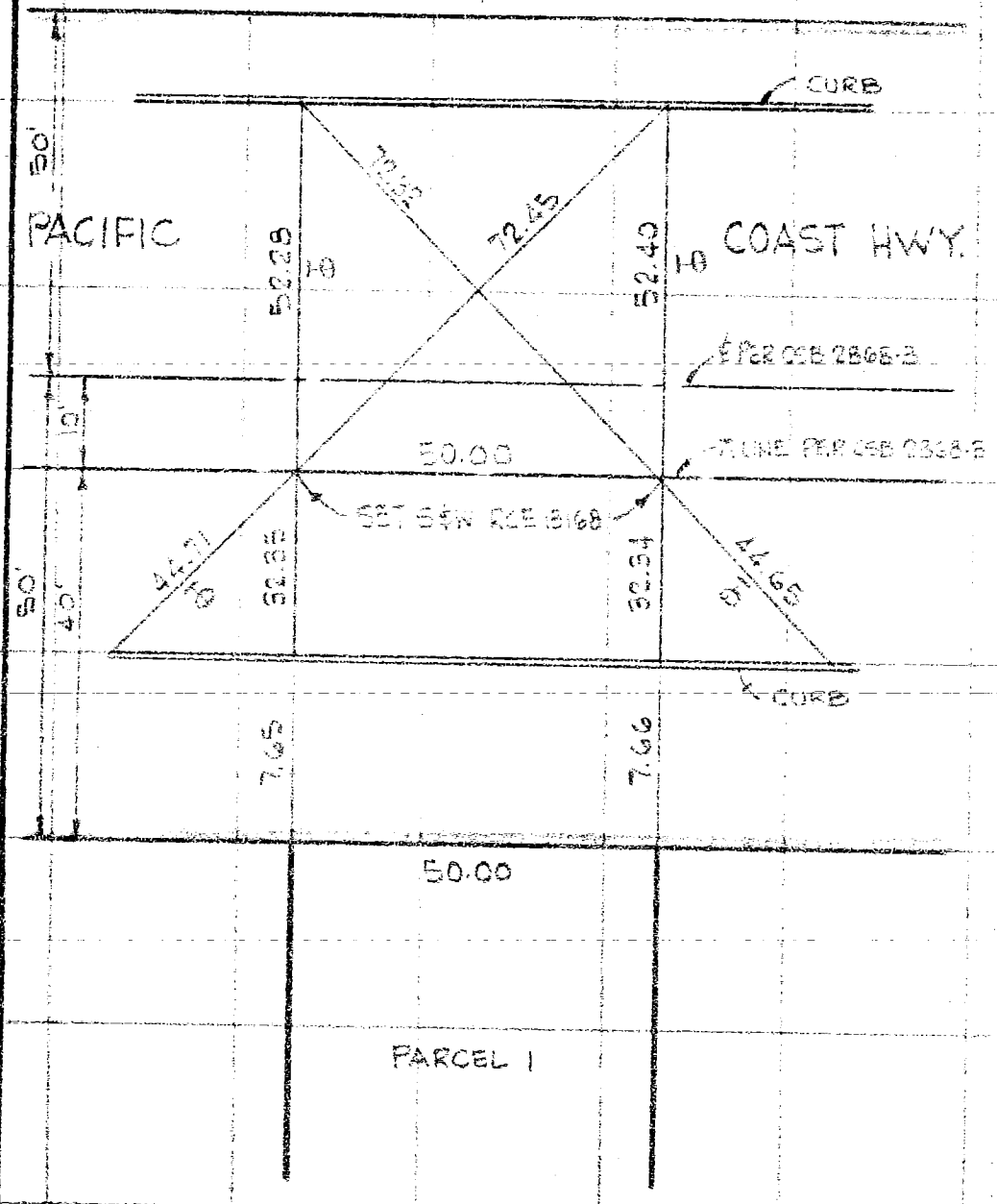
SURVEY OF CENTERLINE TIES F. B. Pg.

SURVEY BY JENNINGS ENGR. CO. TR. No. PM NO. 12652

DATE 12-20-82

MARTIN A. LIEBERMAN RCE 13168

NOTE: ALL TIES ARE L&TS IN CURB

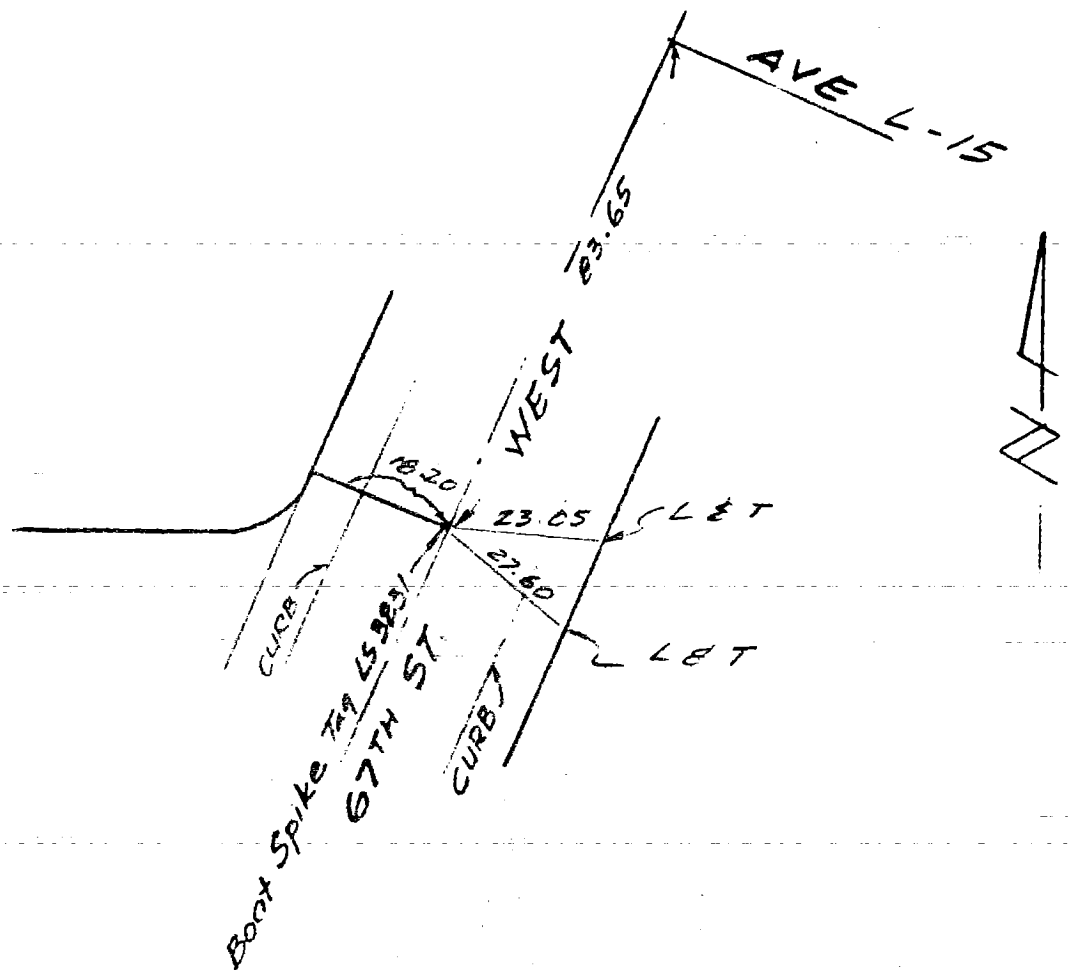


SO. CALIF. BLUE PRINT CO.

Tract No. 31846 Date 2/16/83 Page 3 of 3

Survey Engineer Gordon Kelso LS 3231
By Boyle Engineering Corp.

W.S. 76 8-6 28



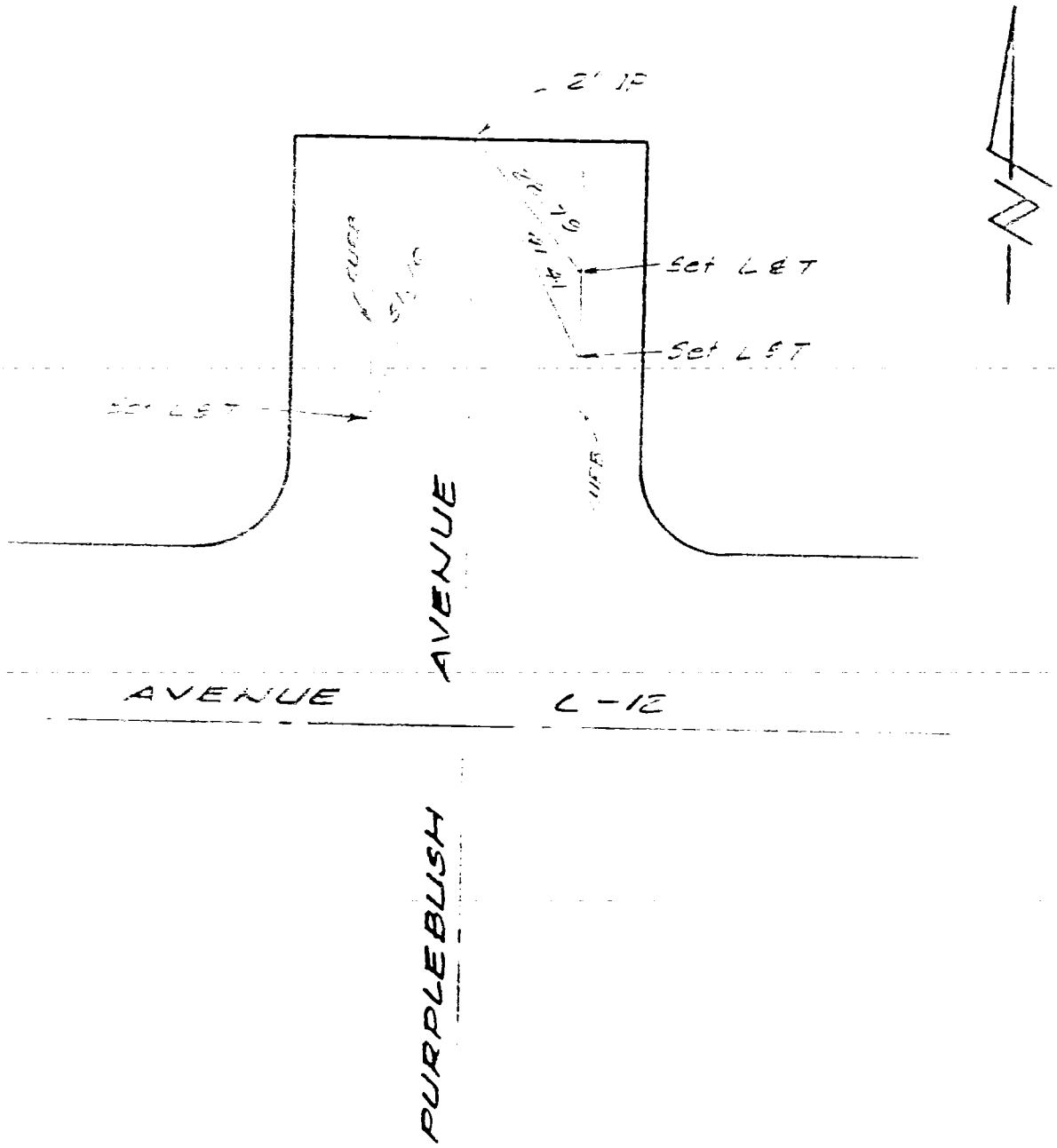
Tract No. 31846 Date 2/16/83 Page 2 of 3

Survey Engineer Gordon Kelso LS 3231

By Boyle Engineering Corporation

23

W.S. 7, B-6



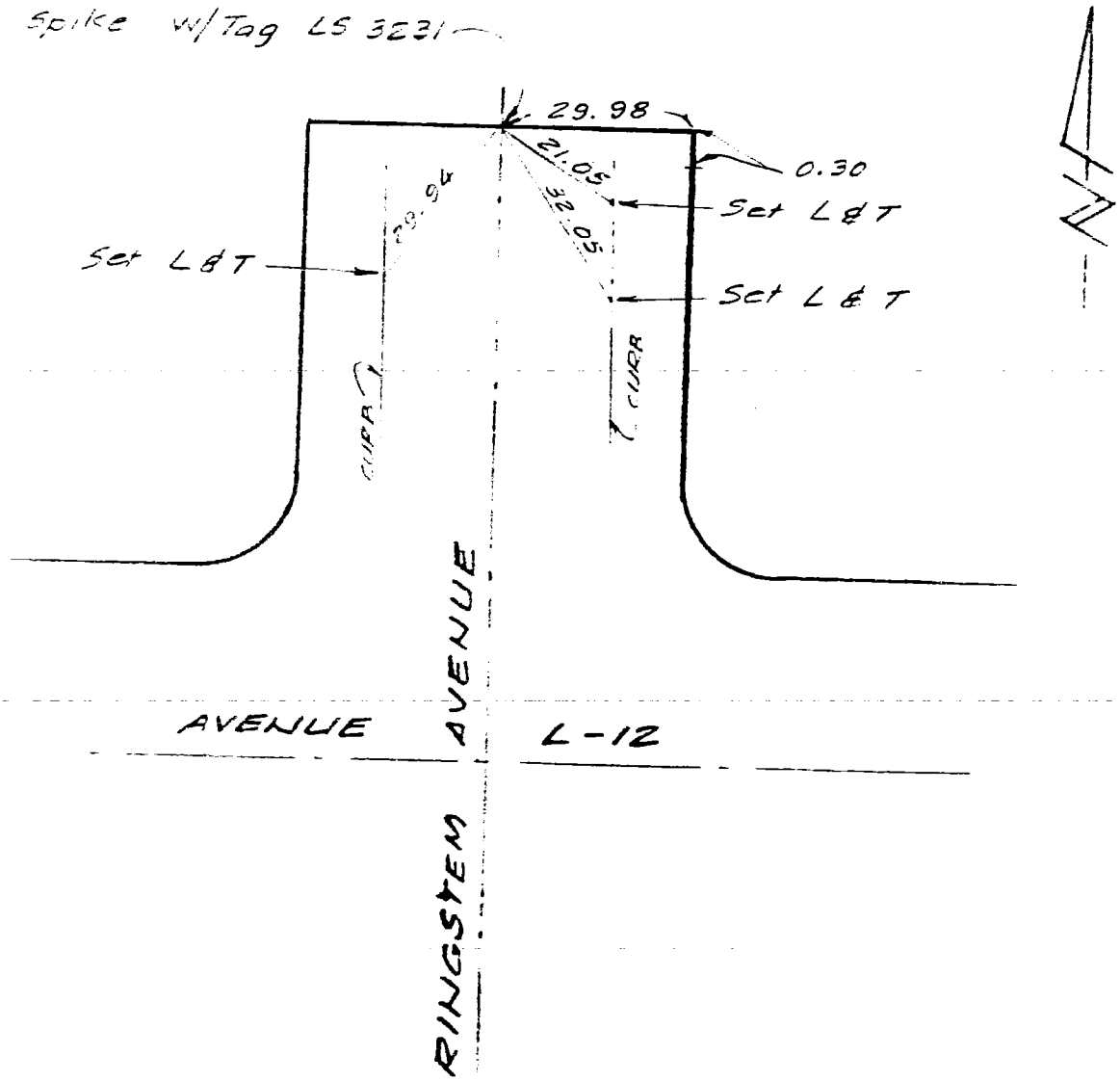
Tract No. ~~31846~~ Date 2/16/83 Page 1 of 2

Survey Engineer Gordon Kelso
By Boyle Engineering Corp. LS 3231

22

W.S. 71, B-6

Boat Spike w/Tag LS 3231



JOB NO. _____

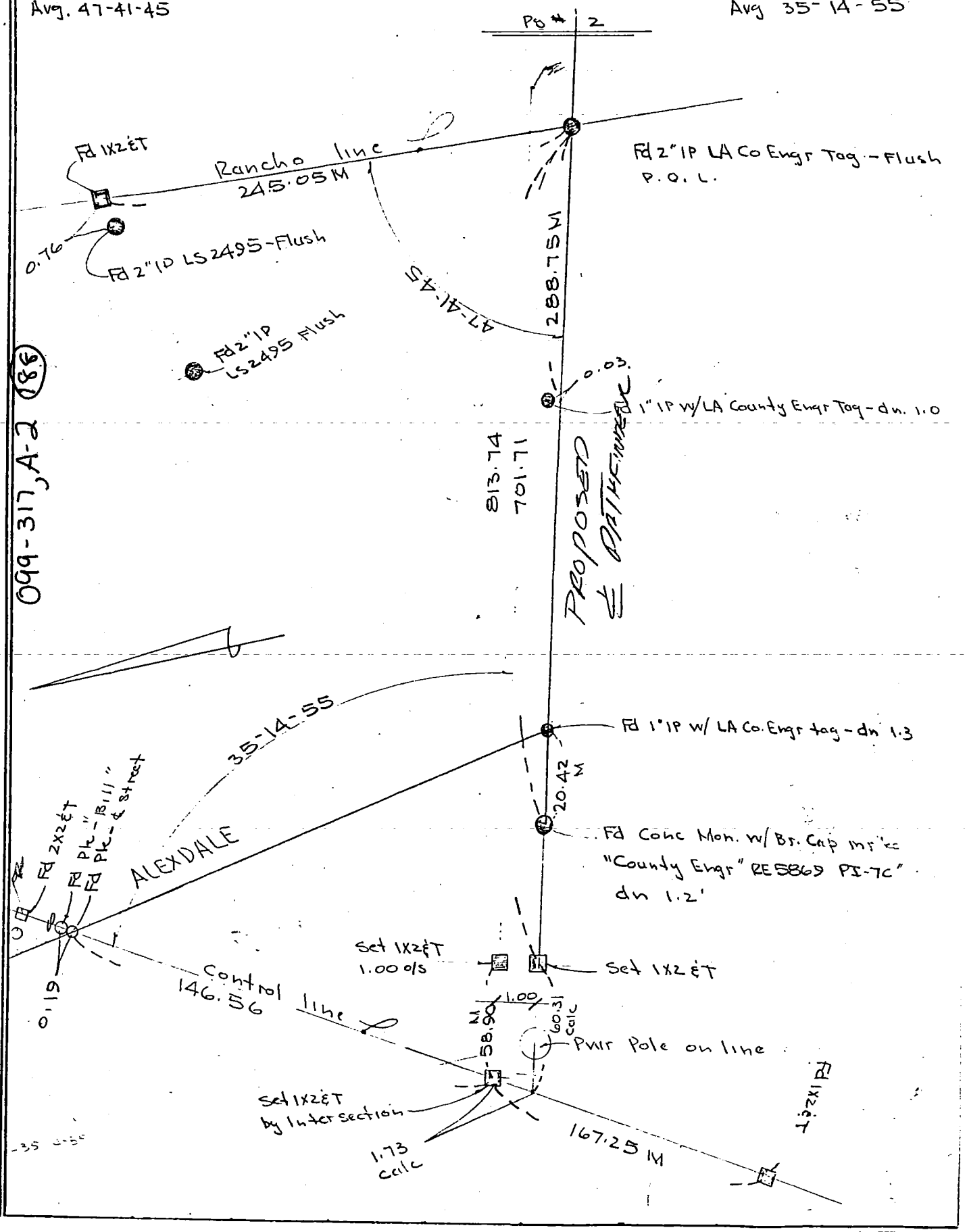
DATE 10-28-82

CO ENG FB 3665-78 ①/3

FIELD NOTES

1) 47-41-30
4) 350-47-00
Avg. 47-41-45

1) 35-15-00
4) 140-59-40
Avg 35-14-55



PARTY: R. Jones
R. Vega

PFEILER & ASSOCIATES ENGINEERS
CIVIL ENGINEERING • SURVEYING
1559 West Commonwealth Fullerton, California 92633

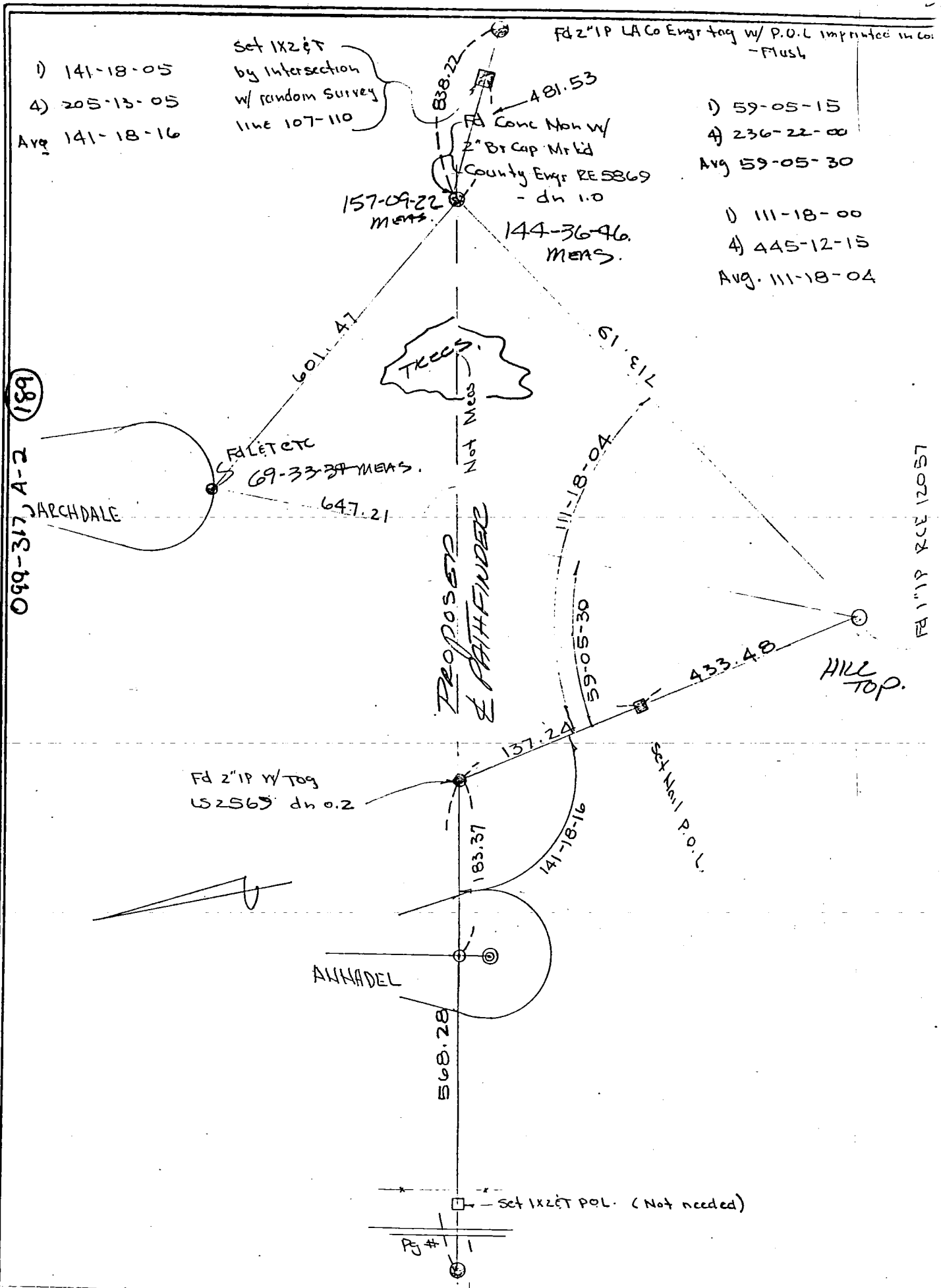
JOB NO. _____

DATE 10-28-82

CO ENG FB 3665-79

FIELD NOTES

(2)



PARTY: R. Jones, R. Vega

PFEILER & ASSOCIATES ENGINEERS
CIVIL ENGINEERING • SURVEYING
1559 West Commonwealth Fullerton, California 92633

CO ENG FB 3665-80 (3)/3

PFEILER & ASSOCIATES ENGINEERS

CIVIL ENGINEERING • SURVEYING

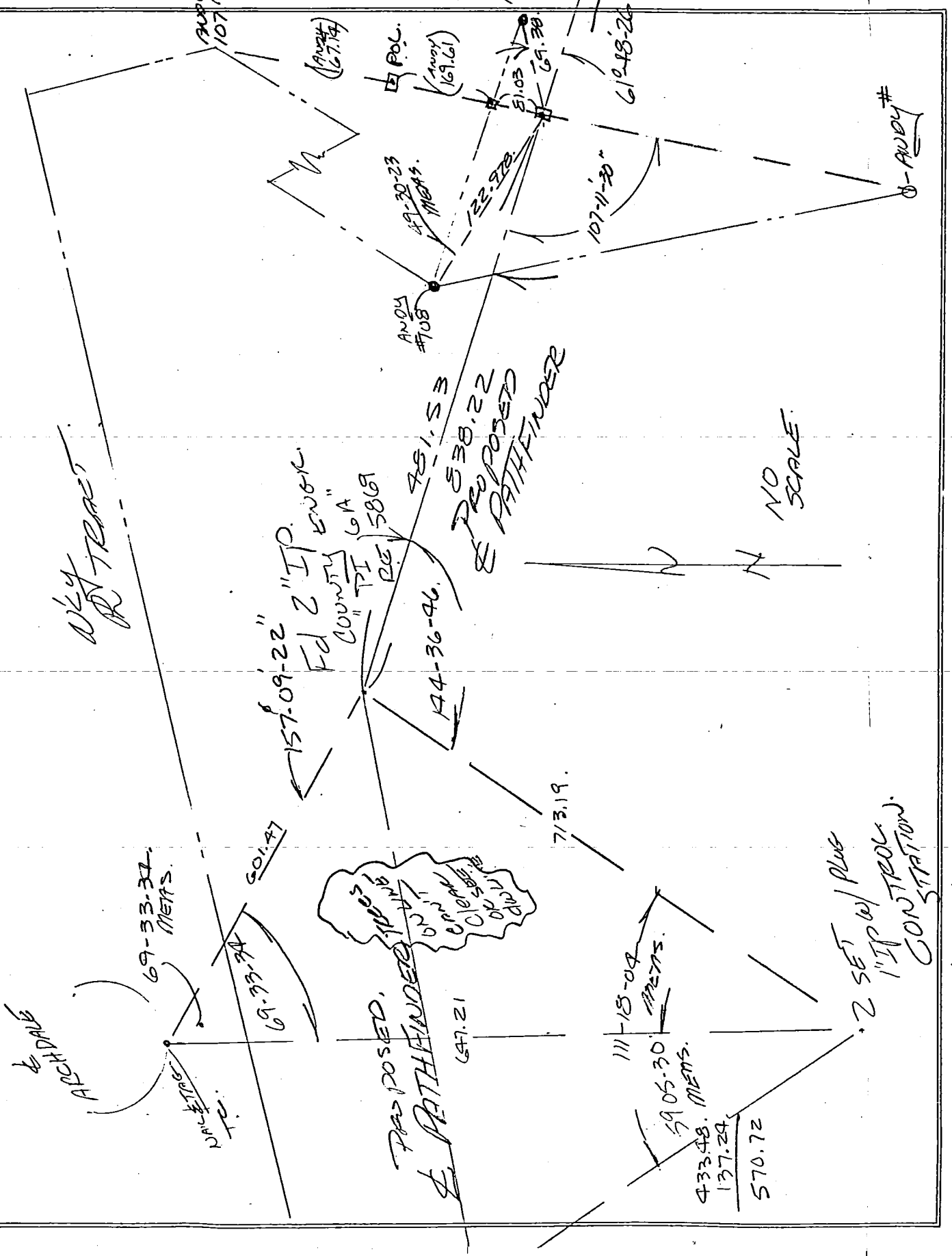
1559 W. COMMONWEALTH AVE. FULLERTON, CALIFORNIA 92633 TELEPHONE (714) 870-5850

Job No. _____

Date. 10/22/80

Sheet ___ of ___

099-317, A-2 (189)

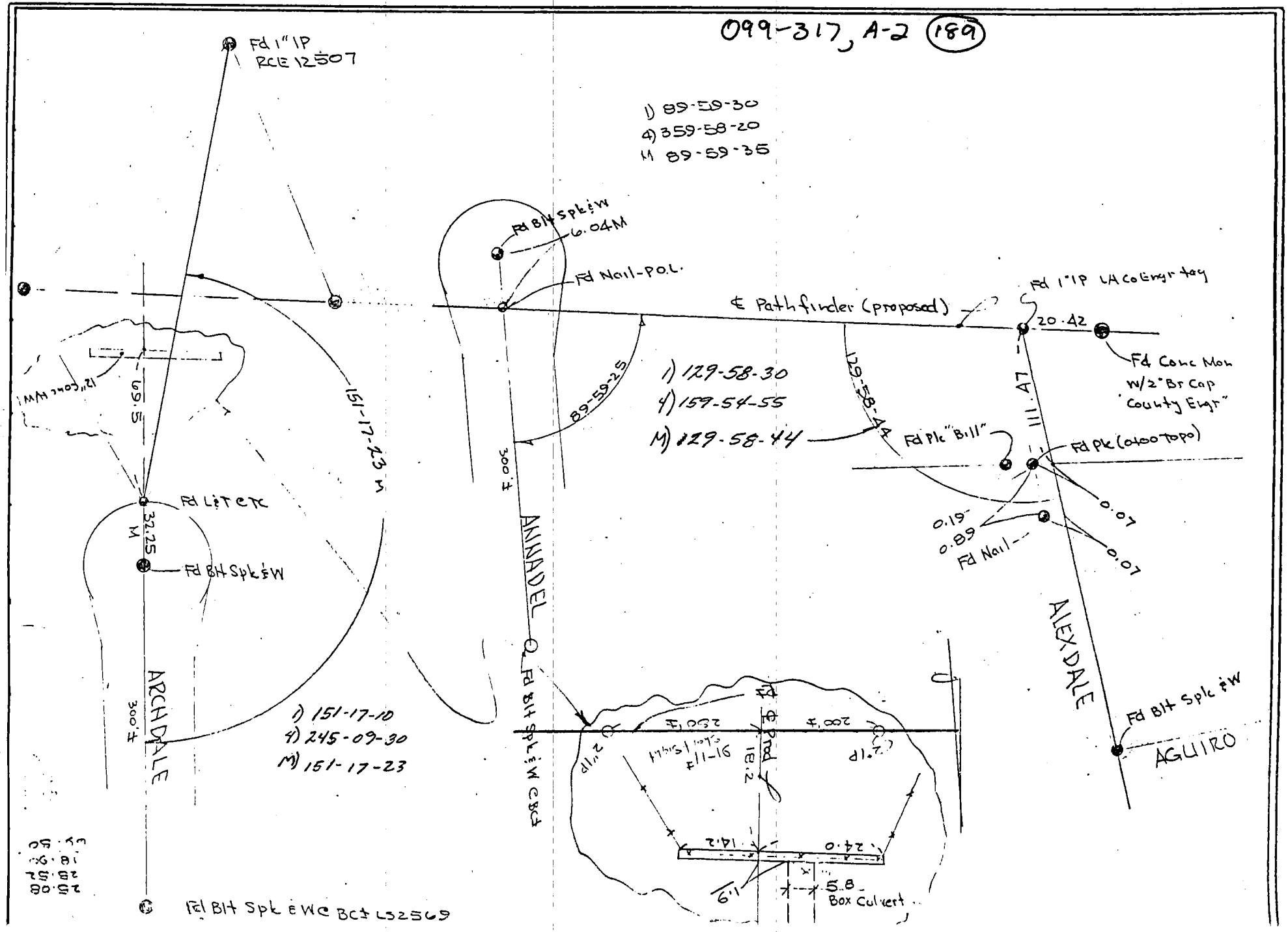


PFEILER & ASSOCIATES ENGINEERS
CIVIL ENGINEERING • SURVEYING
1559 West Commonwealth Fullerton, California 92633

PARTY: R. Jones
J. Browning

JOB NO. 82-062-02
DATE 10-28-82

099-317, A-2 (189)



CO ENG FB 3665-814
FIELD NOTES

JOB NO. 82062

DATE 10-20-82

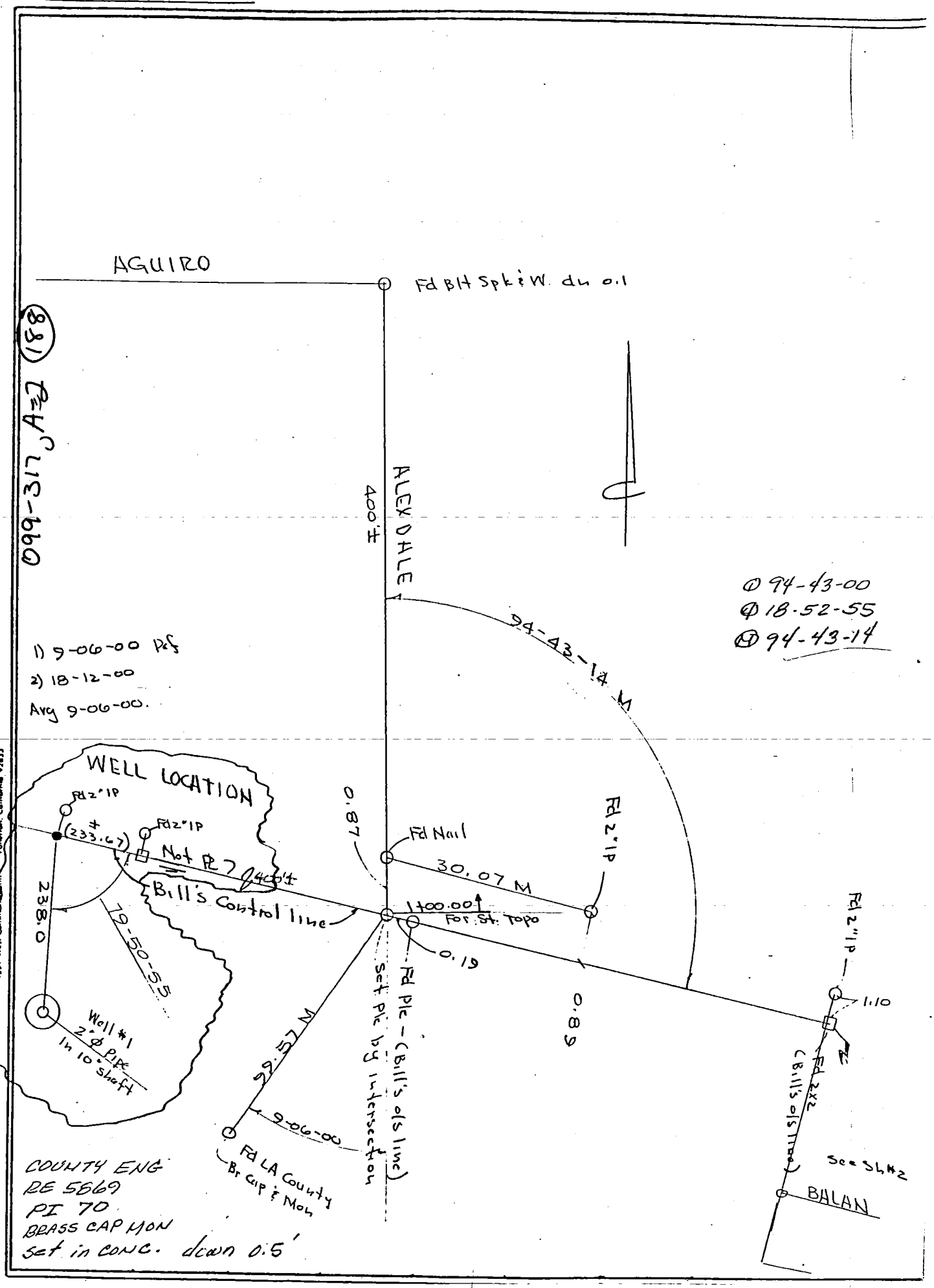
CO ENG FB 3665-825

FIELD NOTES

PARTY: R. Jones

J. B.

099-317, A=2 (188)

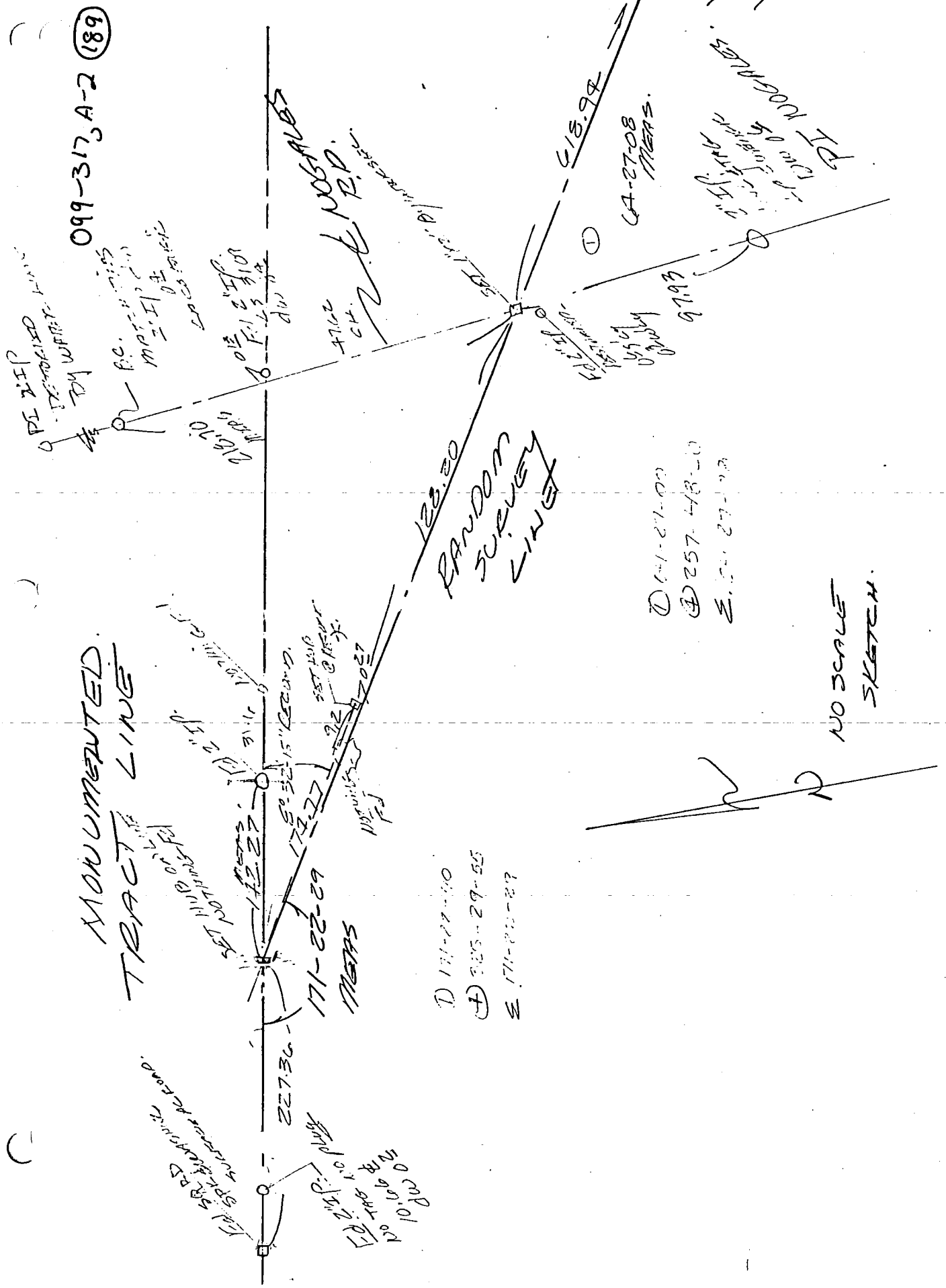


COUNTY ENG
RE 5869
PI 70
BRASS CAP MON
set in CONC. down 0.5'

PFEILER & ASSOCIATES ENGINEERS
CIVIL ENGINEERING • SURVEYING
1559 West Commonwealth Fullerton, California 92633

SURVEY OF OLD PATH FINDER INDEX PAGE 1/2

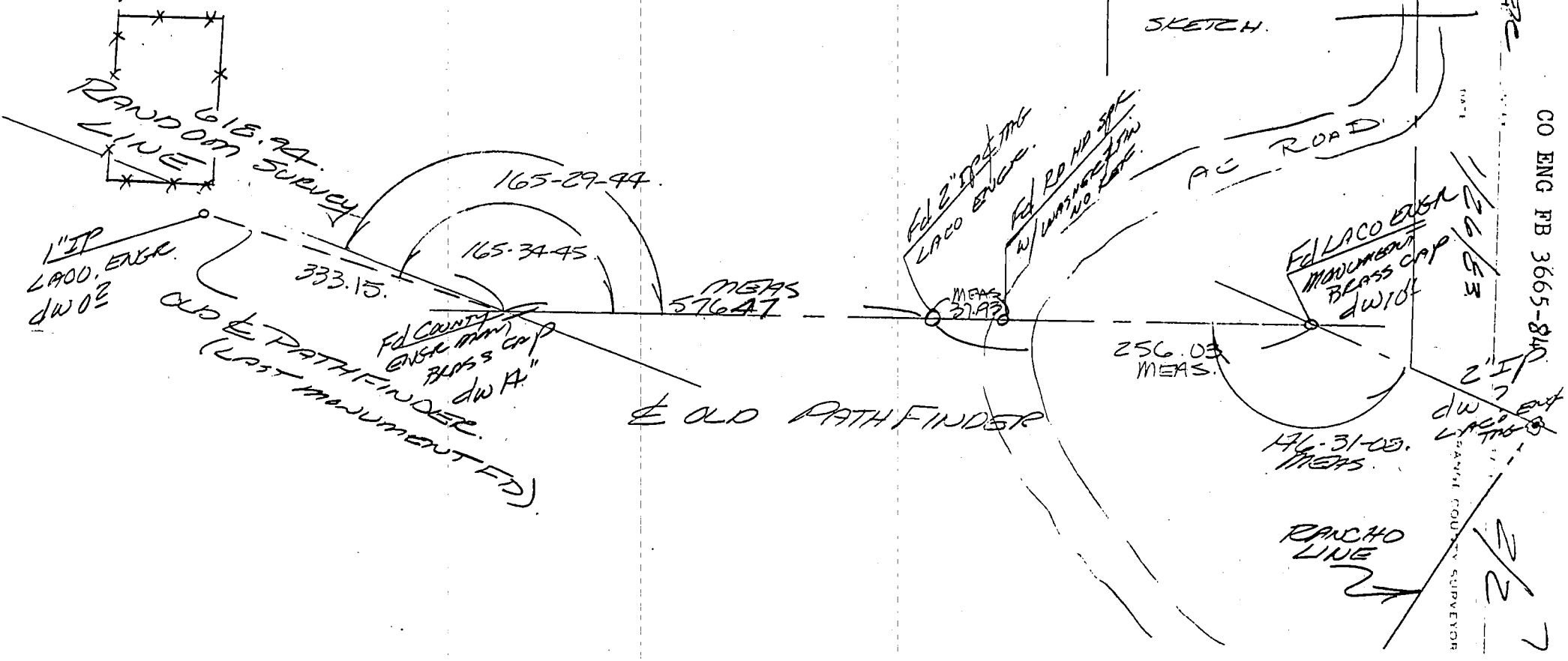
SURVEYED BY W. CARR DATE 1/26/83 ORANGE COUNTY SURVEYOR



099-317, A-2 (188)

RECOVERY OF OLD ℄ PATHFINDER

NOTE:
NO ℄ MONUMENTS FD TO THE WEST USED RANDOM SURVEY LINE.



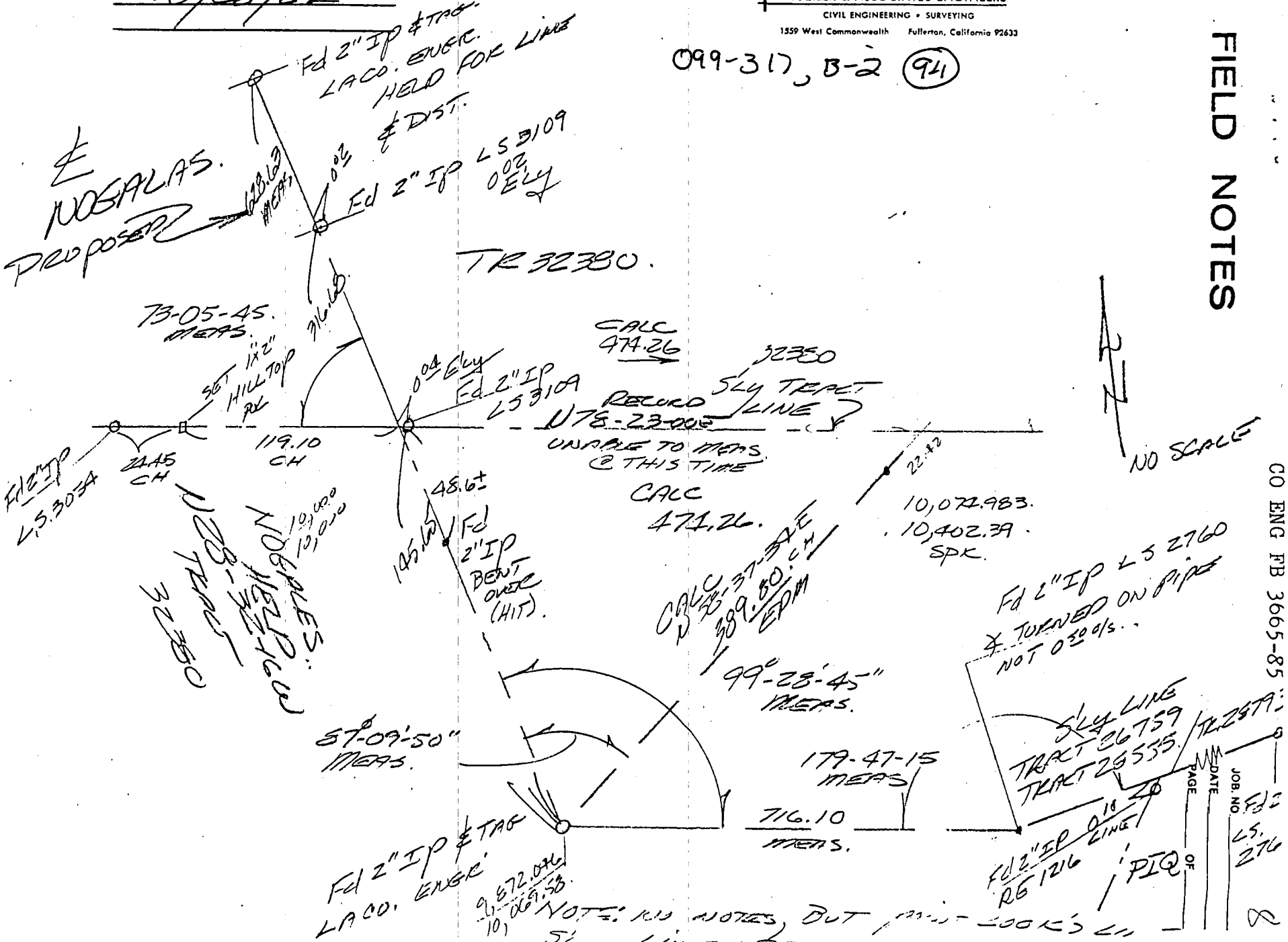
CO ENG FB 3665-840

PARTY: Bill Cmec
10/23/62

PFEILER & ASSOCIATES ENGINEERS
CIVIL ENGINEERING • SURVEYING
1559 West Commonwealth Fullerton, California 92633

099-317, B-2 (94)

FIELD NOTES



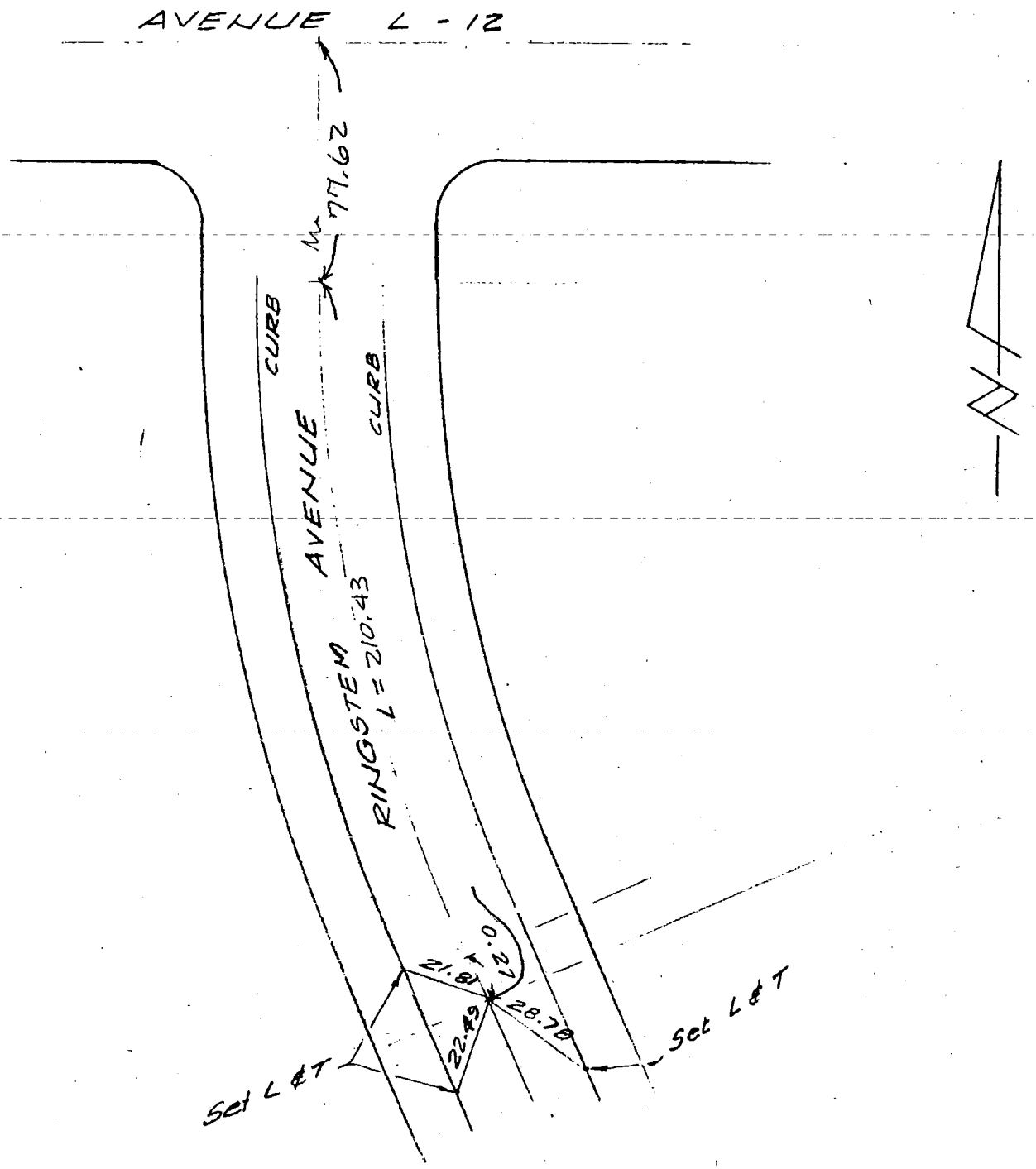
CO ENG FB 3665-85

PAGE OF DATE JOB. NO.

Tract No. 33374 Date 2/21/83 Page 4 of 5

Survey Engineer Gordon Kelso LS 3231
By Boyle Engineering Corporation

W.S. 76 B-6 (41)

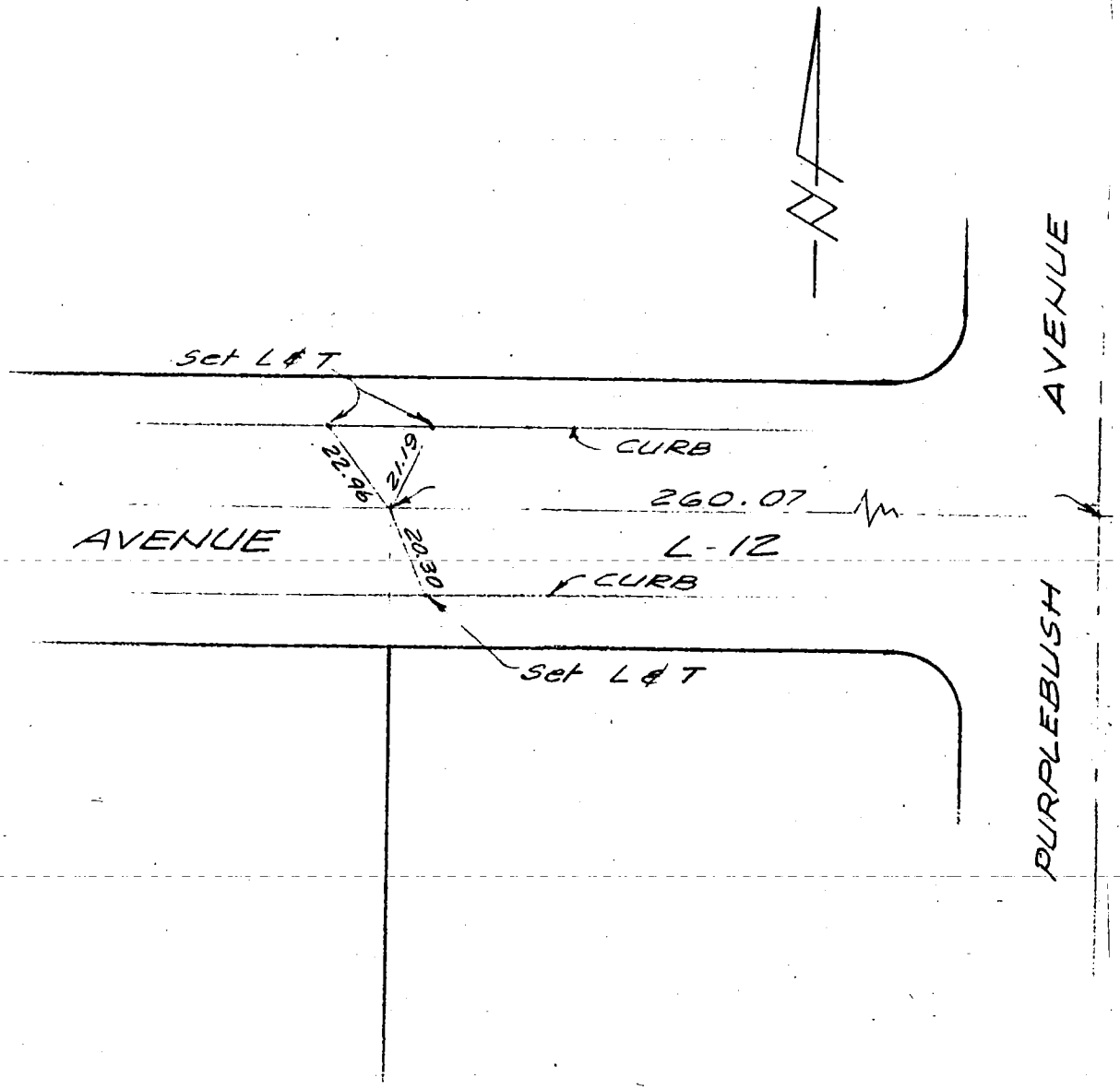


Tract No. 33374 Date 2/21/83 Page 5 of 5

Survey Engineer Gordon Kelso LS 3231

By Boyle Engineering Corporation

W.S. 76 B-6 23



SURVEY OF Tie - P.M. NO. 13721 INDEX

CO ENG FB 3665-88

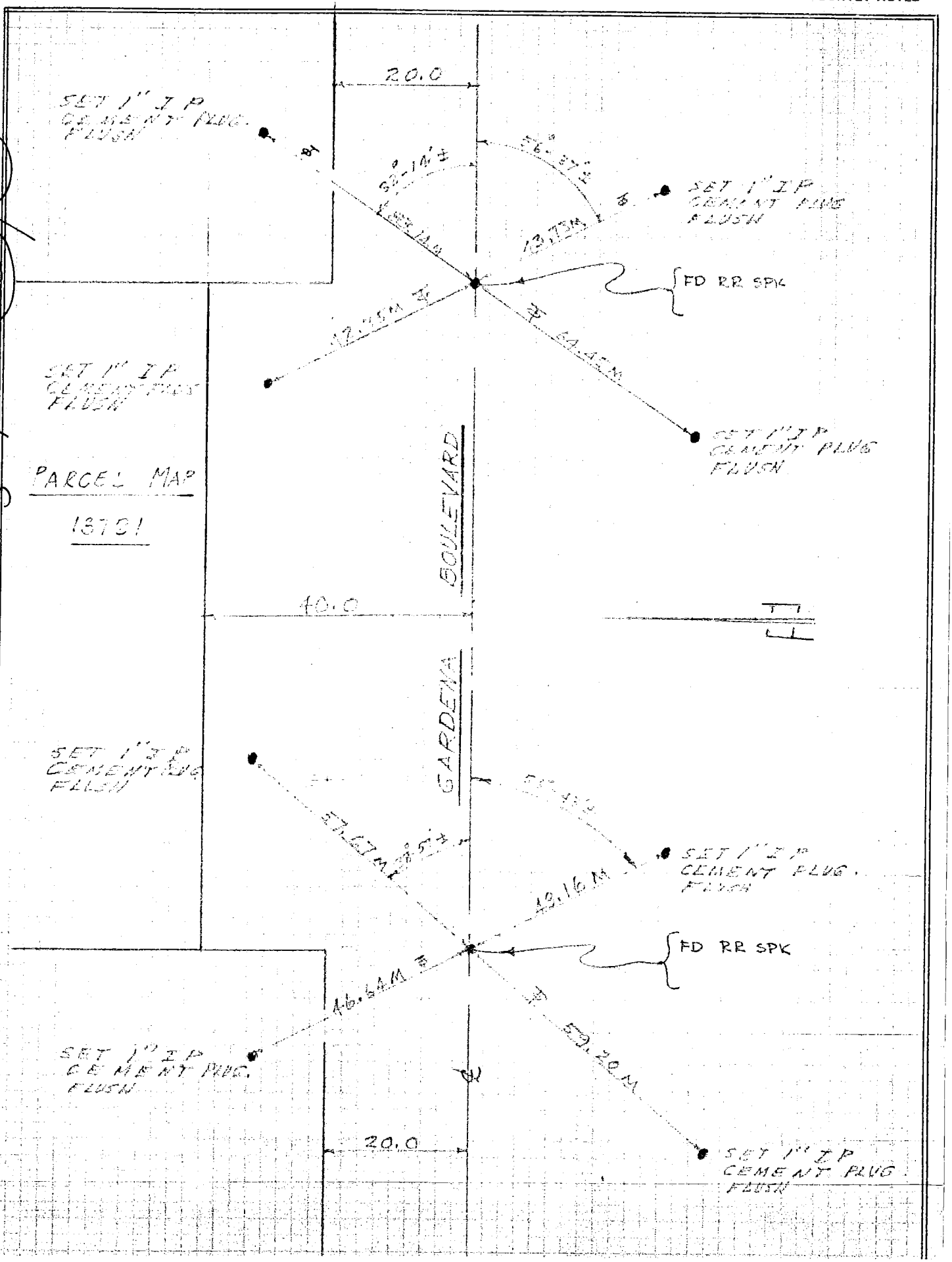
PAGE 1 of 1

JOB NO. 80-1026

SURVEY NOTES

LOCKMAN & ASSOCIATES
CIVIL ENGINEERS

W.S. 26, B-4/C-4 (132) (155)



SURVEY BY R.T.L. & M.W.W. DATE 2-18-83

CHECKED BY R.N. DATE 2-18-83