

RECORD OF SURVEY 93-1050

BLOCK - MODULE

5849 37-39, 47-49,
57-59, 67-69
5850 40, 50, 60-63, 70-73
80-83, 91-93
5950 02-03, 12-14

IN THE CITIES OF SANTA ANA AND ORANGE IN
THE COUNTY OF ORANGE, STATE OF CALIFORNIA

BEING A SURVEY OF THE RIGHT-OF-WAY OF THE SANTA ANA RIVER BETWEEN 17TH ST.
AND THE SOUTHERLY LINE OF THE DAWN TRACT AS PER MAP RECORDED IN BOOK 8, PAGE 21 OF
MISCELLANEOUS MAPS IN THE OFFICE OF THE COUNTY RECORDER OF ORANGE COUNTY, CALIFORNIA.

TOTAL AREA = 113.341 ACRES DATE OF SURVEY: FEBRUARY, 1991-APRIL, 1994

MICHAEL B. EMMONS P.L.S. 5899

ACCEPTED AND FILED AT THE
REQUEST OF
ORANGE COUNTY SURVEYOR

DATE June 20, 1995
TIME 3:59 PM FEE \$ Exempt
INSTRUMENT 95-0261559
BOOK 152 PAGE 7-20 R.S.

GARY L. GRANVILLE
COUNTY CLERK-RECORDER
Gary L. Granville
DEPUTY

SURVEYOR'S STATEMENT

This map correctly represents a survey made by me or under my direction
in conformance with the requirements of the Land Surveyor's Act at the
request of the Orange County Surveyor in June, 1993.

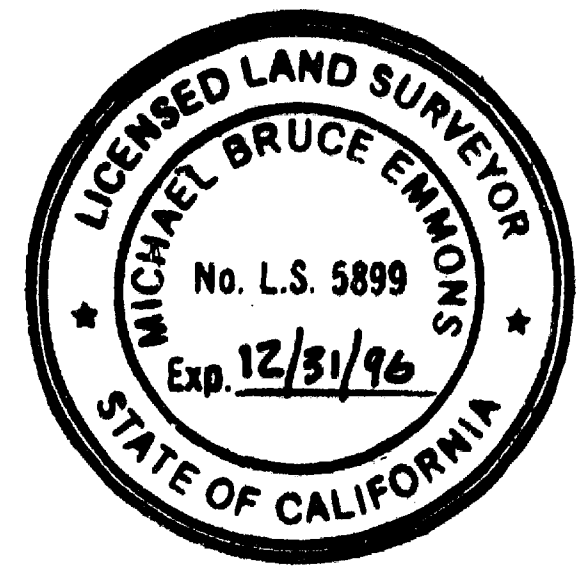
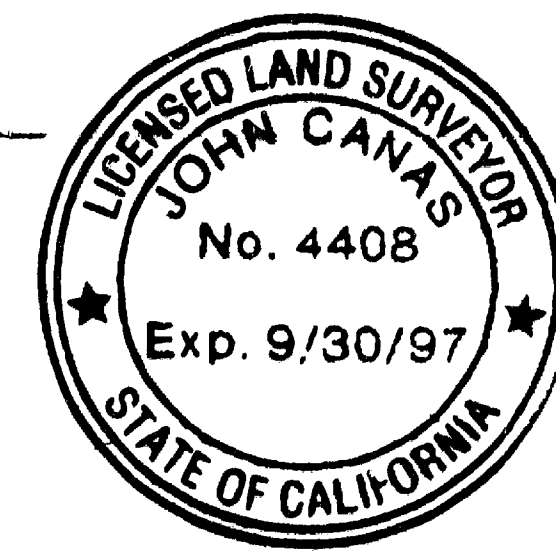
Michael B. Emmons
MICHAEL B. EMMONS P.L.S. 5899
Expiration Date 12 / 31 / 96

EXEMPT RECORDING REQUESTED
PER GOVERNMENT CODE 6103

COUNTY SURVEYOR'S STATEMENT

This map has been examined in accordance with Section 8766
of the Land Surveyor's Act this 15th day of JUNE, 1995

John Canas
JOHN CANAS COUNTY SURVEYOR



STATEMENT OF PURPOSE

THE PURPOSE OF THIS SURVEY IS TO ESTABLISH AND MONUMENT
THE R/W OF THE SANTA ANA RIVER, FROM SEVENTEENTH ST. TO
THE SOUTHERLY LINE OF THE DAWN TRACT.

BASIS OF BEARINGS

THE BEARINGS SHOWN HEREON ARE BASED ON THE BEARING
BETWEEN O.C.S. HORIZONTAL CONTROL STATION GPS NO. 4060
AND STATION GPS NO. 4062 BEING N40°29'03"E PER RECORDS
ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.

DATUM STATEMENT

COORDINATES SHOWN ARE BASED ON THE CALIFORNIA COORDINATE
SYSTEM ZONE VI O.C.S. 1-1-75 ADJUSTMENT OF THE 1927 NORTH
AMERICAN DATUM. DISTANCES SHOWN ARE GROUND. MULTIPLY
GROUND DISTANCES BY 0.9999777 TO OBTAIN GRID DISTANCES.

*THE COORDINATES SHOWN ON THE U.S. ARMY CORPS OF ENGINEERS
CONST. PLANS, SPEC. NO. DAC W09-94-B-0003, DISTRICT FILE
NO. 239/1115-1121, & SPEC. NO. DAC W09-94-B-0007, DISTRICT FILE
NO. 239/818-823 WERE ACCEPTED AS BEING ON THE O.C.S. 1-1-75
ADJUSTMENT OF THE NORTH AMERICAN DATUM.

MONUMENT NOTES:

- ▲ = O.C.S. CONTROL STATION ON FILE IN THE GEODETIC SECTION OF
THE COUNTY SURVEYOR'S OFFICE.
- ▲ = FD. NOTHING, SET NOTHING. POSITION OF P.I.'S ON THE
PROPOSED C/L OF THE SANTA ANA RIVER PER THE CORPS OF
ENGINEERS CONSTRUCTION PLANS, SPEC. NO. DAC W09-94-B-0003,
DISTRICT FILE NO. 239/1115-1121, & SPEC. NO. DAC
W09-94-B-0007, DISTRICT FILE NO. 239/818-823.
- = FD. SPIKE AND TIN, PER TR. 2762, M.M. 113/26-28, UNLESS
OTHERWISE NOTED.
- = SET MONUMENT, AS NOTED.

RECORD REFERENCES

- (R1) = RECORD PER R.S. 15/40-41.
- (R2) = RECORD PER TR. 9631, M.M. 411/11-14.
- (R3) = RECORD PER TR. 8803, M.M. 461/42-46.
- (R4) = RECORD PER TR. 3834, M.M. 133/13-15.
- (R5) = RECORD PER TR. 2518, M.M. 88/44-47.
- (R6) = RECORD PER R.S. 89/35.
- (R7) = RECORD PER R.S. 92-1083, R.S.B. 141/43-47.
- (R8) = RECORD PER TR. 2762, M.M. 113, 26-28.
- (R9) = RECORD PER TR. 2887, M.M. 117/28-30.
- (R10) = RECORD PER TR. 3637, M.M. 129/18-20.
- (R11) = RECORD PER P.M. 86-168, P.M.B. 215/28-34.
- (R12) = RECORD PER R.S. 83-1156, R.S.B. 105/7.
- (R13) = RECORD PER O.R. 562/74.
- (R14) = RECORD PER O.R. 5732/648.
- (R15) = RECORD PER R.S. 85/1.
- (R16) = RECORD PER CAL TRANS MONUMENTATION MAP 1255/1-2.
- (R17) = RECORD PER O.R. 7978/33.
- (R18) = RECORD PER O.R. 11676/830.
- (R19) = RECORD PER BK. OF DEEDS 406/185.
- (R20) = RECORD PER TR. 6280, M.M. 229/45-46.

C/L TRASK AVE.

FOR A LISTING OF COORDINATES
OF ANGLE POINTS SHOWN HEREON,
A.P. 11.1 THROUGH A.P. 11.4, SEE P.I.
DATA TO THE RIGHT

SHEET 2

C/L EDNA DR.

C/L FAIRVIEW ST.

C/L LEWIS ST.

C/L 17TH ST.

C/L KING ST.

C/L BRISTOL ST.

C/L MEMORY LN.

C/L GARDEN GROVE BLVD.

C/L THE CITY

C/L SANTIAGO CREEK

C/L LAS BOLSAS

C/L SANTA ANA RIVER

C/L DAWN TRACT

C/L 17TH ST.

C/L 17TH ST.

C/L 17TH ST.

C/L 17TH ST.

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C/L 17TH ST.

C/L 17TH ST.

C/L 17TH ST.

C/L 17TH ST.

GARDEN GROVE FREEWAY

C/L GARDEN GROVE BLVD.

C/L THE CITY

C/L SANTIAGO CREEK

C/L LAS BOLSAS

C/L SANTA ANA RIVER

C/L DAWN TRACT

C/L 17TH ST.

C/L 17TH ST.

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C/L 17TH ST.

C/L 17TH ST.

CONTROL SCHEME & SHEET INDEX MAP

N 588705.985
E 1502223.203

"S.ANA 72"
GPS 4062

FD. P.K. NAIL & LEAD ON
SURFACE OF BRIDGE DECK PER
O.C.S. NOTES A/4-9, 1513-1535.
REPLACED W/PUN. SPK. &
1 1/2" BRASS O.C.S. TAG STAMPED
"S.ANA 72 RESET 4-93" IN
LEAD, FLUSH W/CONC. BRIDGE
DECK.

N 588705.985
E 1502223.203

"S.ANA 78"
GPS 4060

N 583650.107
E 1497907.508

FD. C.S.A. 3 1/2" BR. DISK
W/CROSS, IN WELL, (R-2).
DN. 1.7'.

N 588705.985
E 1502223.203

"S.ANA 72"
GPS 4062

N 583650.107
E 1497907.508

FD. C.S.A. 3 1/2" BR. DISK
W/CROSS, IN WELL, (R-2).
DN. 1.7'.

N 588705.985
E 1502223.203

"S.ANA 78"
GPS 4060

N 583650.107
E 1497907.508

FD. C.S.A. 3 1/2" BR. DISK
W/CROSS, IN WELL, (R-2).
DN. 1.7'.

"SCC20"
GPS 4077

N 588377.384
E 1503173.551

FD. PUN. SPK. W/O.C.S. TAG STAMPED
"SCC20, 1-88", DN. 0.04', PER O.C.S. NOTES
A/4-9, 1513-1535, AND PER A/5-10, 572-579.

N 588377.384
E 1503173.551

"S.ANA 72"
GPS 4062

N 583650.107
E 1497907.508

FD. C.S.A. 3 1/2" BR. DISK
W/CROSS, IN WELL, (R-2).
DN. 1.7'.

N 588705.985
E 1502223.203

"S.ANA 78"
GPS 4060

N 583650.107
E 1497907.508

FD. C.S.A. 3 1/2" BR. DISK
W/CROSS, IN WELL, (R-2).
DN. 1.7'.

N 588705.985
E 1502223.203

P.I. DATA	
A.P. 11.1	583979.63 **
A.P. 11.2	1498881.30 **
A.P. 11.3	584179.00 **
A.P. 11.4	1499015.17 **
A.P. 11.5	584640.85 **
A.P. 11.6	1499349.23 **
A.P. 11.7	584830.40 **
A.P. 11.8	1499496.68 **

PT. FALLS ON M.H. COVER. FD. 3 OF 4
LEAD & TAG (ILLEGIBLE) CURB TIES PER
E08 II-115, & CITY OF SANTA ANA TIE
11/265. FD. 2-2' C. NAIL TIES PER
E08 II-115 AND 2-5' C. NAIL TIES PER
CITY OF SANTA ANA TIE 11/265.
ACCEPTED AS THE N.E. COR. SEC. 2,
T.5S., R.10W.

N 588705.985
E 1502223.203

"S.ANA 72"
GPS 4062

N 583650.107
E 1497907.508

FD. C.S.A. 3 1/2" BR. DISK
W/CROSS, IN WELL, (R-2).
DN. 1.7'.

N 588705.985
E 1502223.203

"S.ANA 78"
GPS 4060

N 583650.107
E 1497907.508

FD. C.S.A. 3 1/2" BR. DISK
W/CROSS, IN WELL, (R-2).
DN. 1.7'.

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GPS 4062

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FD. C.S.A. 3 1/2" BR. DISK
W/CROSS, IN WELL, (R-2).
DN. 1.7'.

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"S.ANA 78"
GPS 4060

N 583650.107
E 1497907.508

FD. C.S.A. 3 1/2" BR. DISK
W/CROSS, IN WELL, (R-2).
DN. 1.7'.

IN THE CITIES OF SANTA ANA AND ORANGE IN
THE COUNTY OF ORANGE, STATE OF CALIFORNIA

MICHAEL B. EMMONS P.L.S. 5899

A ESTAB., BY HOLDING RECORD
DISTANCE (R-5) ON S LINE OF
NW 1/4, SEC. 2, T. 5 S., R. 10 W.

SEE DETAIL M,
SHEET 9 —

SFF SHEET 5

SEE DETAIL
SHEET 3

DETAIL B
NO SCALE

SEE DETAIL B,
THIS SHEET

TR. 9631.
M.M. 411/11-14

(R-2)		MEASURED
Δ	= 25°31'10"	= 25°31'19"
R	= 882.50'	= 882.50'
L	= 393.06'	= 393.10'

SEE DETAIL A,
SHEET 9

NOTE ON 400' ABANDONED NEWBERT
PROTECTION DISTRICT RIGHT OF WAY
QUITCLAIMED TO D.C.F.C.D.

400' RIGHT OF WAY WAS ESTABLISHED BY HOLDING THE RECORD TIE DISTANCE TO THE EASTERLY LINE OF RIGHT OF WAY FROM THE INTERSECTION OF 17TH ST. & THE NW'LY LINE OF THE RANCHO SANTIAGO DE SANTA ANA, PER R.S. 15/40-41; AND, HOLDING A FD. ORIGINAL MONUMENT ON THE W'LY RIGHT OF WAY NEAR SHARON RD., SET BY TRACT 2887.

SEE DETAIL
SHEET 4

SEE DETAIL C,
THIS SHEET

SEE DETAIL D,
SHEET 9

DETAIL C,
NO SCALE

579190.000
1495417.000

U.S. ARMY CORPS OF ENGINEERS P.I. 11
C/L CONSTRUCTION LOWER SANTA ANA
RIVER. **

B FOR A LISTING OF COORDINATES OF
ANGLE POINTS SHOWN HEREON, A.P. 11.1
THROUGH A.P. 11.4, SEE SHEET 1.

FD. PUN. SPK. & TAG "SANTA ANA
SURVEY", NO REF.

SCALE 1" = 200'

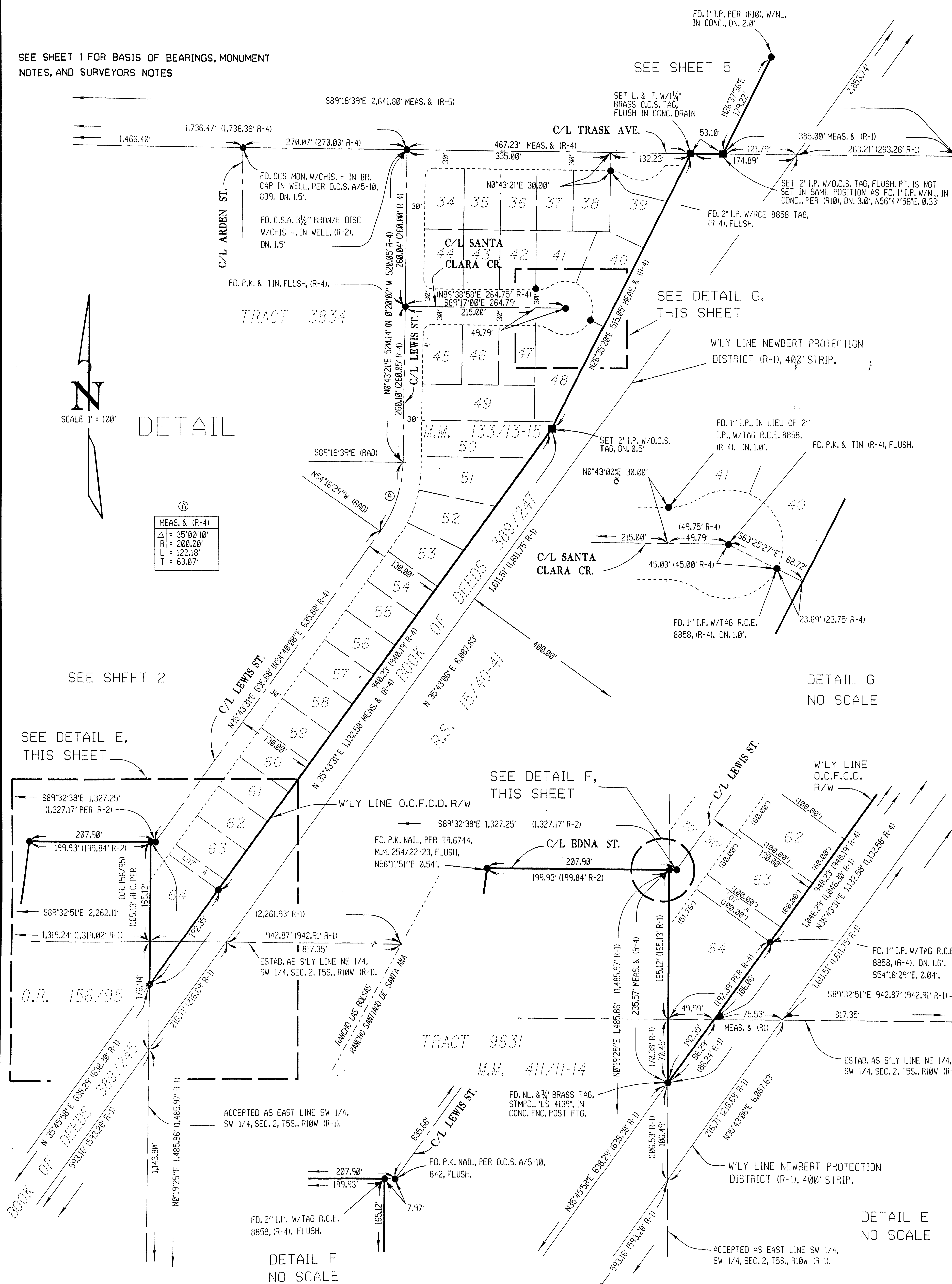
152

9

IN THE CITIES OF SANTA ANA AND ORANGE IN
THE COUNTY OF ORANGE, STATE OF CALIFORNIA

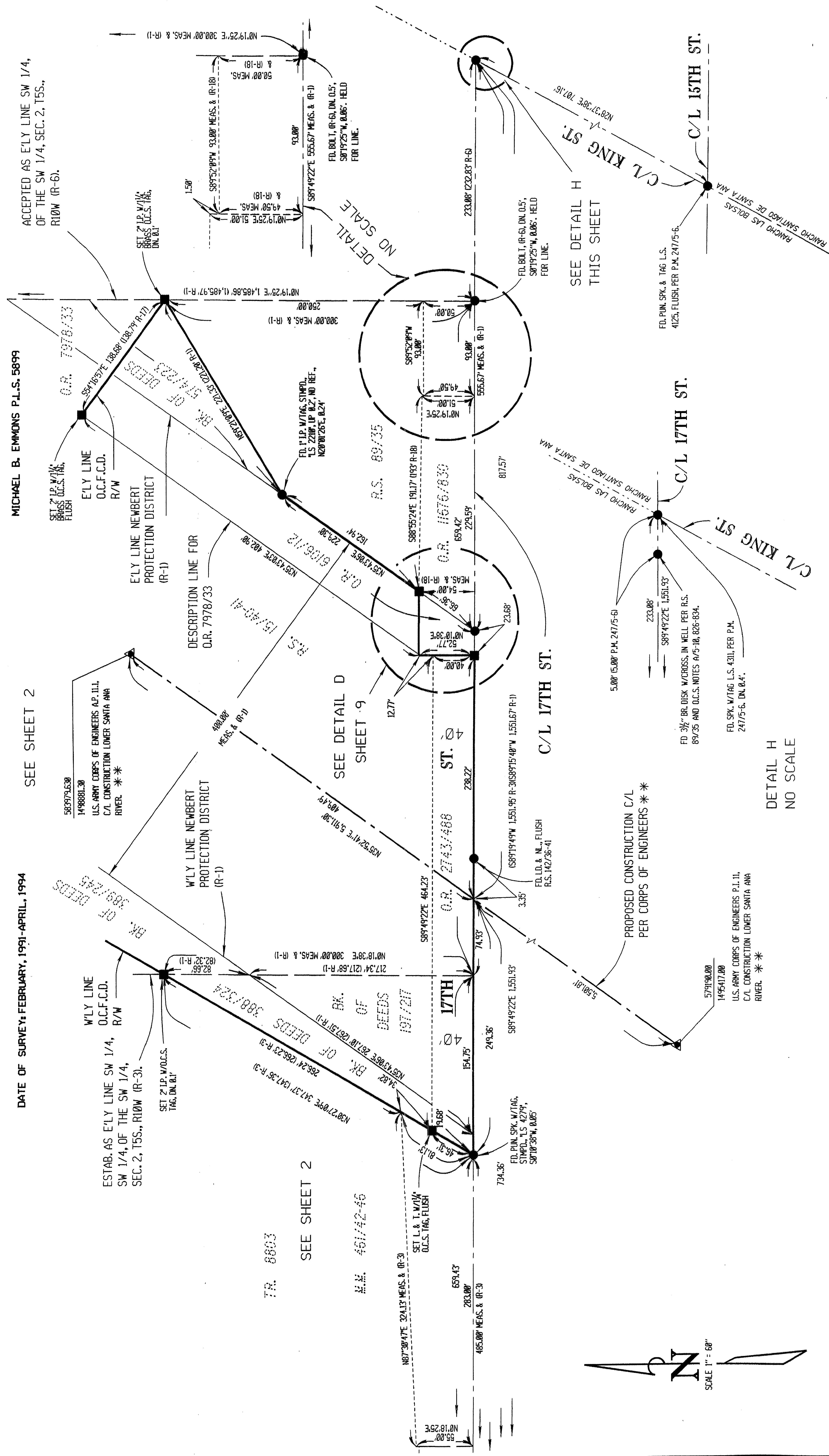
MICHAEL B. EMMONS P.L.S. 5899

SFF SHEET 5



IN THE CITIES OF SANTA ANA AND ORANGE IN
THE COUNTY OF ORANGE, STATE OF CALIFORNIA

MICHAEL B. EMMONS P.L.S. 58999



IN THE CITIES OF SANTA ANA AND ORANGE IN
THE COUNTY OF ORANGE, STATE OF CALIFORNIA

MICHAEL B. EMMONS P.L.S. 5899

Survey Plat for a portion of the Newbert Protection District, showing various streets, tracts, and survey details. The plat includes numerous bearings, distances, and references to other sheets and details.

Streets and Tracts:

- C/L Garden Grove Blvd.
- C/L Townley St.
- C/L Loretta Ln.
- C/L Marcella Ln.
- C/L Patti Ln.
- C/L Sharon Rd.
- C/L Mc Evoy Ln.
- C/L River Ln.
- C/L Marty Ln.
- C/L Trask Ave.
- C/L The City Dr.
- TRACT 2887
- TRACT 2762
- TRACT 2562
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- TRACT 2255
- TRACT 2254
- TRACT 22

RECORD OF SURVEY 93-1050

IN THE CITIES OF SANTA ANA AND ORANGE IN
THE COUNTY OF ORANGE, STATE OF CALIFORNIA

DATE OF SURVEY: FEBRUARY, 1991-APRIL, 1994

MICHAEL B. EMMONS, P.L.S. 5899

SEE SHEET 1 FOR BASIS OF BEARINGS, MONUMENT
NOTES, AND SURVEYORS NOTES

SEE SHEET 8

FD. 2" LP. W/BR. TAG,
ILLEGIBLE, NO REF.
ON D.7, ACCEPTED AS
THE N/COR. SEC. 2
TSS. ROW (R-8).

FD. SPK. & M. NOT STAMPED.
ACCEPTED AS SPK. & TIN
(R-11). DN. D.1.

SEE SHEET 5

C/L GARDEN GROVE BLVD.

C/L THE CITY DR.

W/LY LINE
O.C.F.C.D.
R/W

C/L 630' STRIP
(R-13)

SCALE 1" = 60'

C/L LORETTA LN.

SEE SHEET 5

SEE SHEET 5

SEE SHEET 7

SEE SHEET 1

NOTE:
INDICATES RIGHT OF WAY GARDEN GROVE BLVD.

C/L PATTI LN.

SEE SHEET 1

SEE SHEET 7

SEE SHEET 1

C/L GARDEN GROVE BLVD.

C/L PATTI LN.

CURVE DATA

MEASURED RECORD, AS NOTED

① $\Delta = 19727.20'$ $\Delta = 19727.22'$
R = 2,000.00' R = 2,000.00' PER O.R. 839/480
L = 679.13' L = 679.15'

② $\Delta = 342.86'$
R = 342.86' L = 679.15'

③ $\Delta = 8747.46'$ $\Delta = 8748.15'$
R = 2,000.00' R = 2,000.00' (R-9)
L = 307.05' L = 307.32'

④ $\Delta = 4532.44'$
R = 2,000.00' L = 170.63'

⑤ $\Delta = 5284.5'$
R = 2,000.00' L = 191.25'

⑥ $\Delta = 8717.25'$
R = 2,000.00' L = 10.13'

⑦ $\Delta = 1075.39'$
R = 1,950.00' L = 345.31'

⑧ $\Delta = 8723.04'$
R = 1,950.00' L = 307.39'

⑨ $\Delta = 1075.56'$
R = 1,950.00' L = 307.39'

⑩ $\Delta = 9702.4'$ $\Delta = 9705.5'$
R = 1,950.00' R = 1,950.00' (R-9)
L = 307.10' L = 307.39'

⑪ $\Delta = 1075.56'$
R = 1,950.00' L = 307.39'

⑫ $\Delta = 9702.4'$ $\Delta = 9705.5'$
R = 1,950.00' R = 1,950.00' (R-9)
L = 307.10' L = 307.39'

⑬ $\Delta = 1075.56'$
R = 1,950.00' L = 307.39'

⑭ $\Delta = 1075.56'$
R = 1,950.00' L = 307.39'

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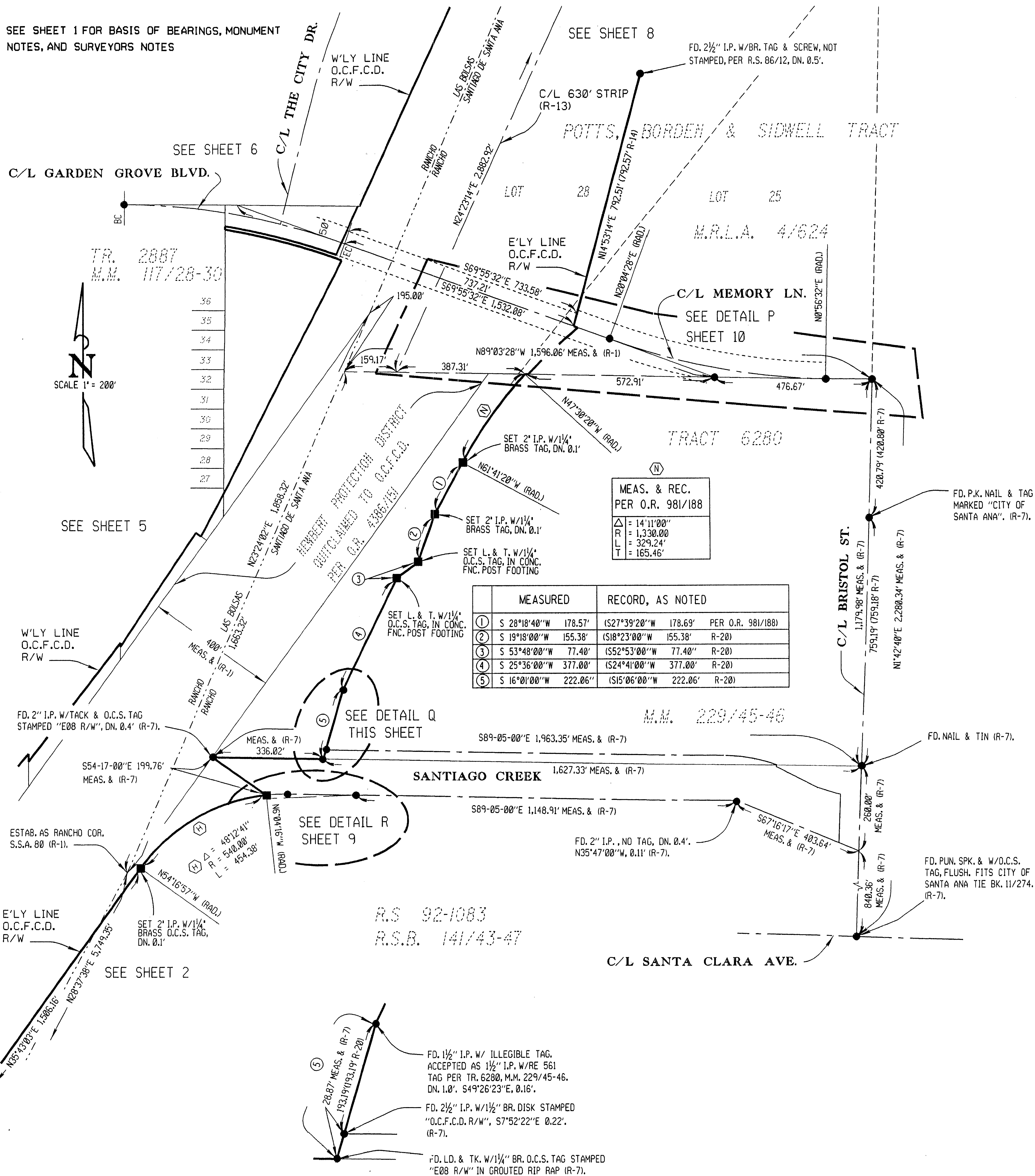
㊶ $\Delta = 1075.56'$
R = 1,950.00' L = 307.39'

RECORD OF SURVEY 93-1050

IN THE CITIES OF SANTA ANA AND ORANGE IN
THE COUNTY OF ORANGE, STATE OF CALIFORNIA

DATE OF SURVEY: FEBRUARY, 1991-APRIL, 1994

MICHAEL B. EMMONS P.L.S. 5899

SEE SHEET 1 FOR BASIS OF BEARINGS, MONUMENT
NOTES, AND SURVEYORS NOTES

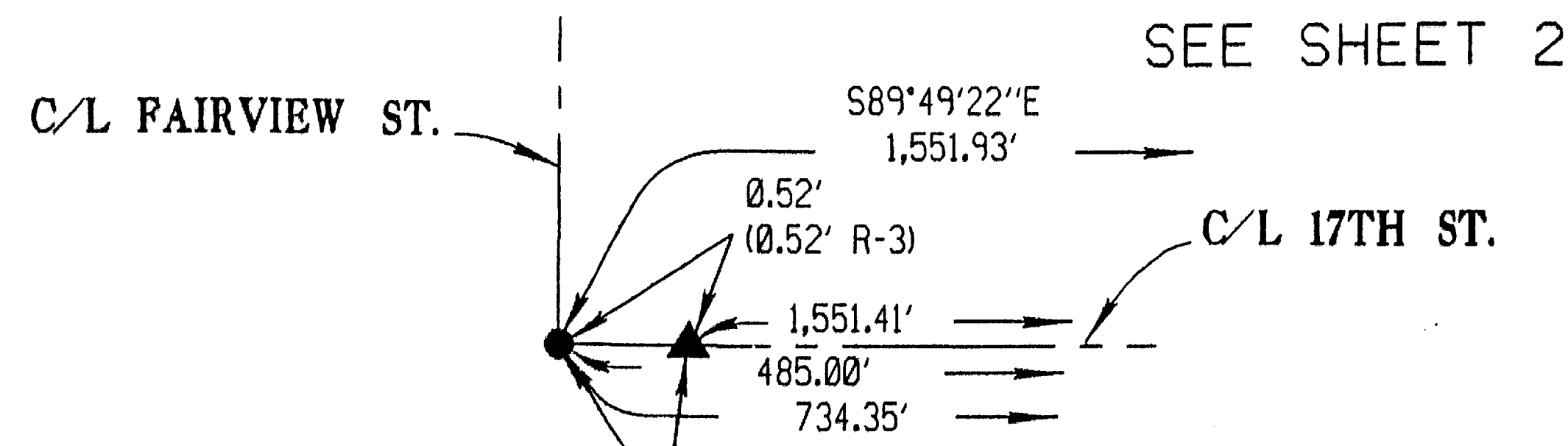
RECORD OF SURVEY 93-1050

IN THE CITIES OF SANTA ANA AND ORANGE IN
THE COUNTY OF ORANGE, STATE OF CALIFORNIA

DATE OF SURVEY: FEBRUARY, 1991-APRIL, 1994

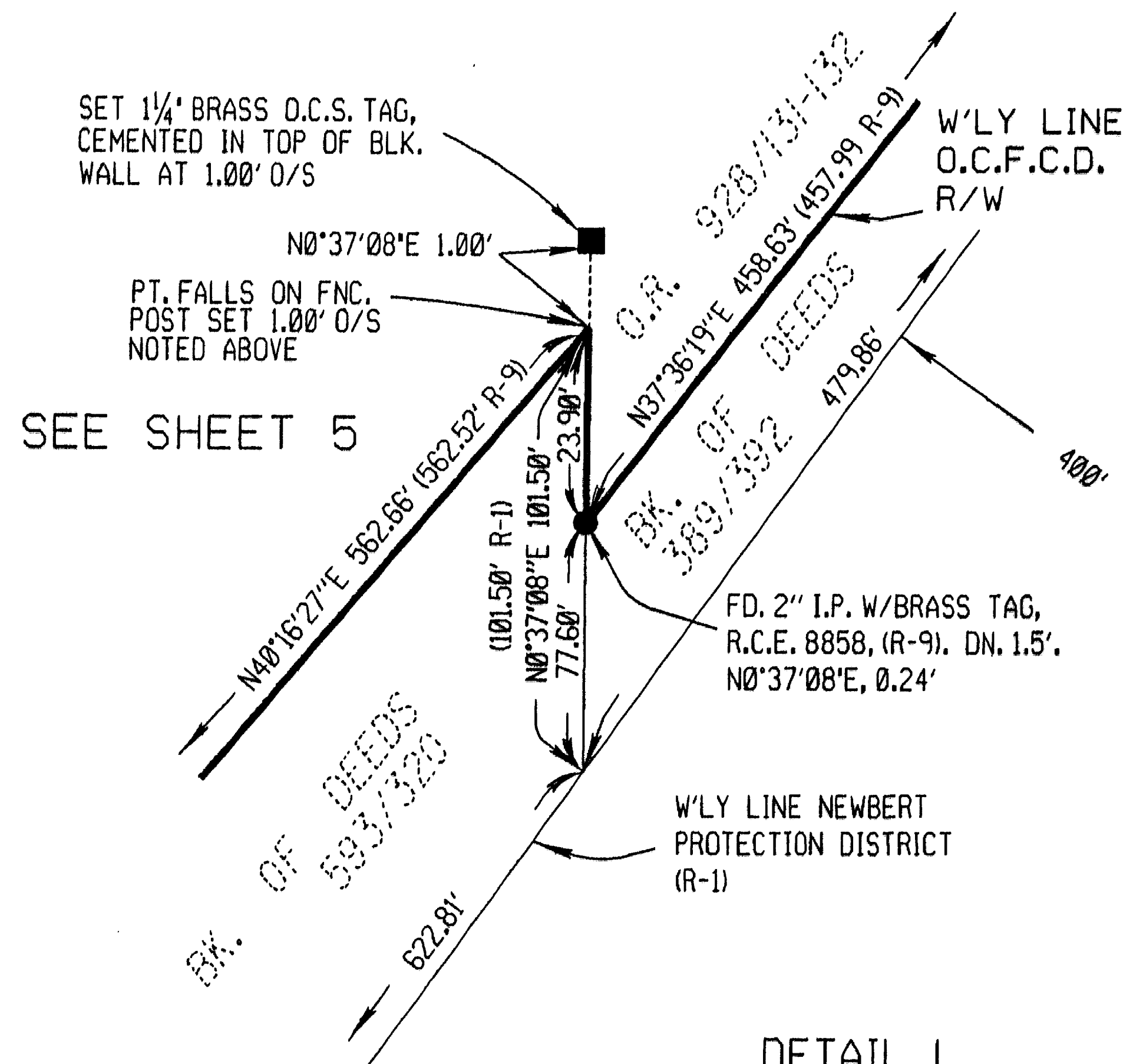
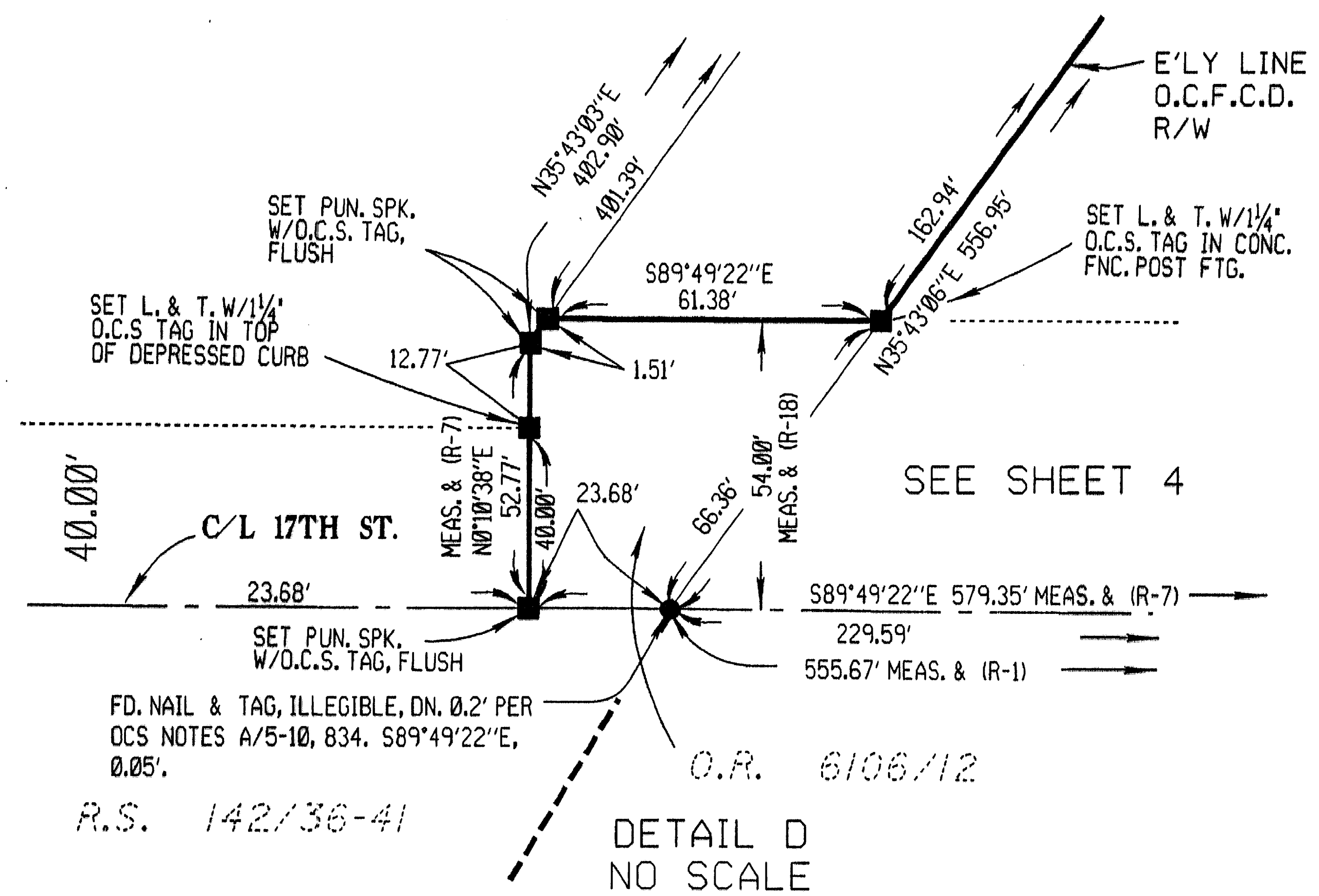
MICHAEL B. EMMONS, P.L.S. 5899

SEE SHEET 1 FOR BASIS OF BEARINGS, MONUMENT
NOTES, AND SURVEYORS NOTES

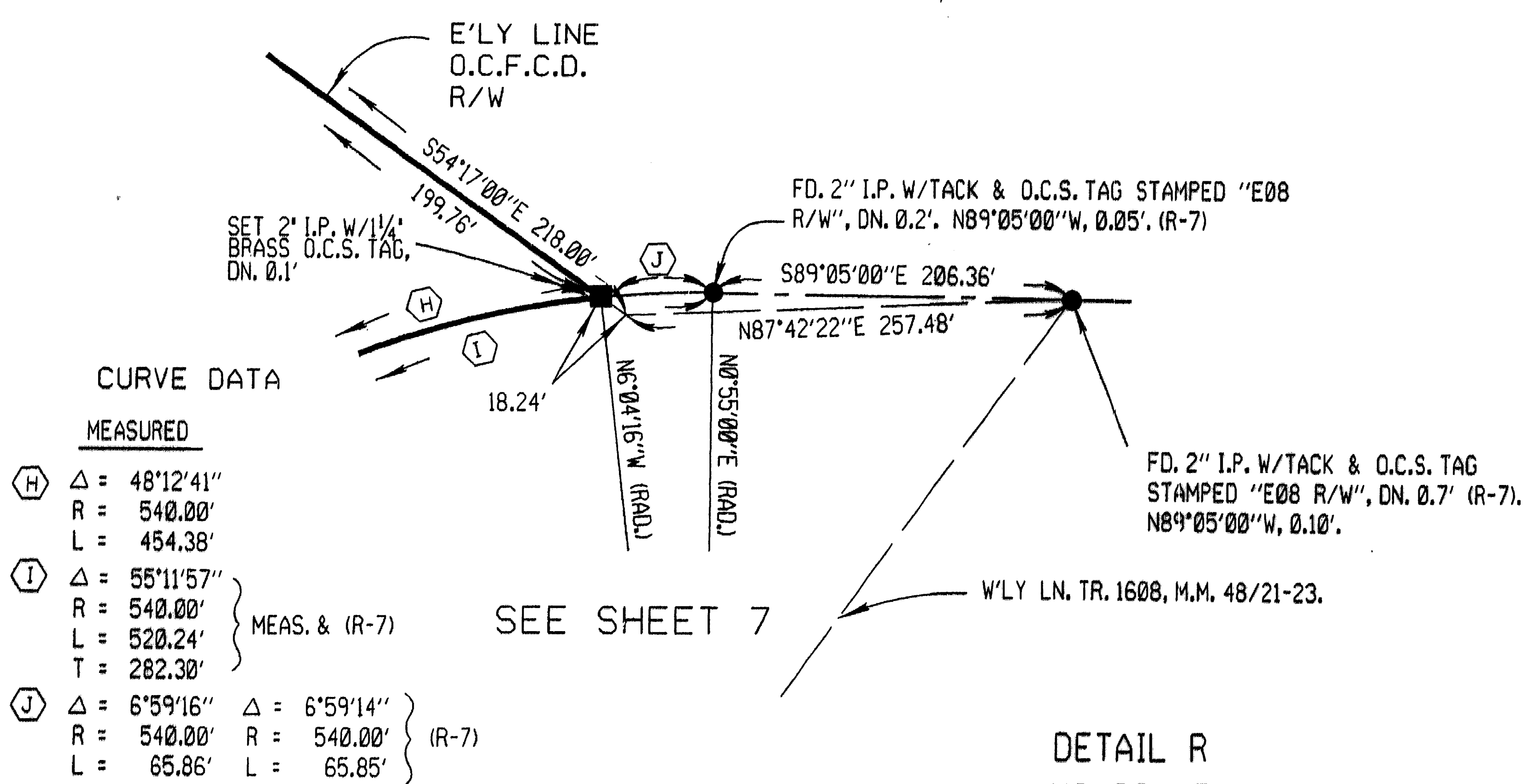
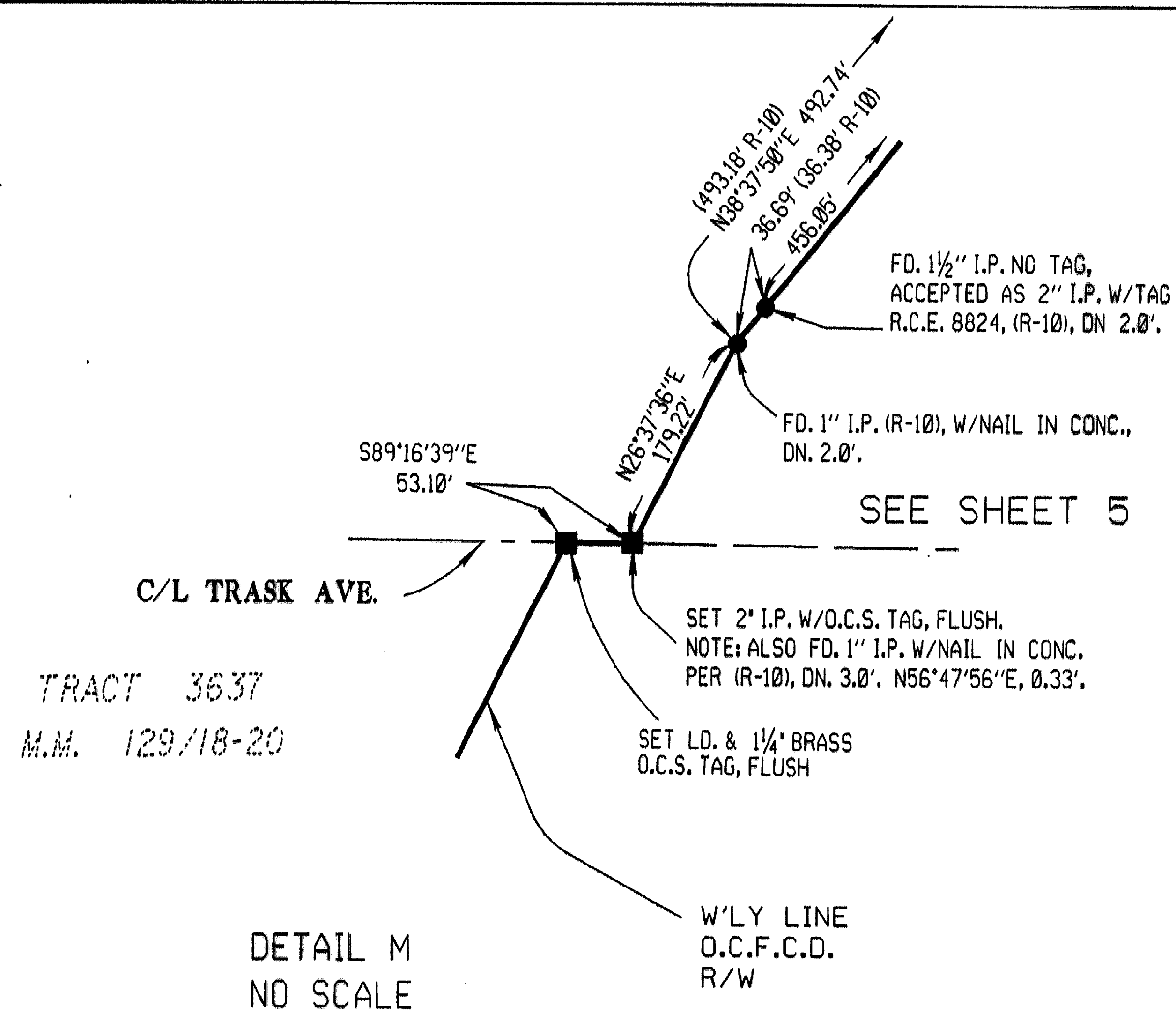


FD. SPK. W/TAG L.S. 3610, FLUSH, PER OCS NOTES A/5-10, 826-834, S89°49'22"E, 0.08', ON THE CENTERLINE OF 17TH ST. HELD N89°49'22"W, 0.52' FROM C.S.A. 3 1/2" BR. DISK, W/CROSS, IN WELL (R-2), DN. 1.7', ACC. AS THE POSITION OF THE S.W. COR. SEC. 2, T.5S., R.10W.

DETAIL A
NO SCALE



DETAIL L
NO SCALE



CURVE DATA

MEASURED	
H	Δ = 48°12'41"
	R = 540.00'
	L = 454.38'
I	Δ = 55°11'57"
	R = 540.00'
	L = 520.24'
	T = 282.30'
J	Δ = 6°59'16"
	R = 540.00'
	L = 65.86'

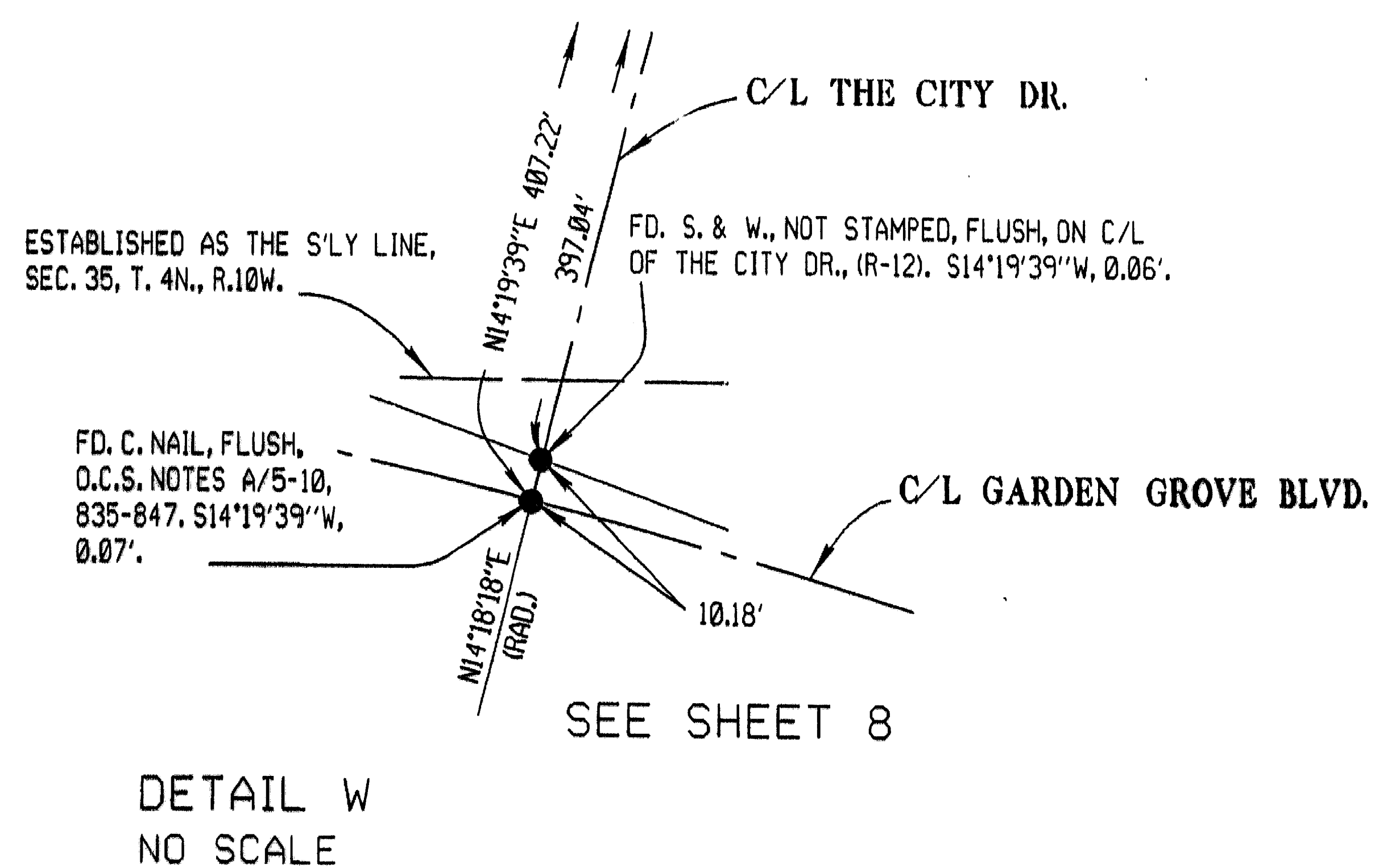
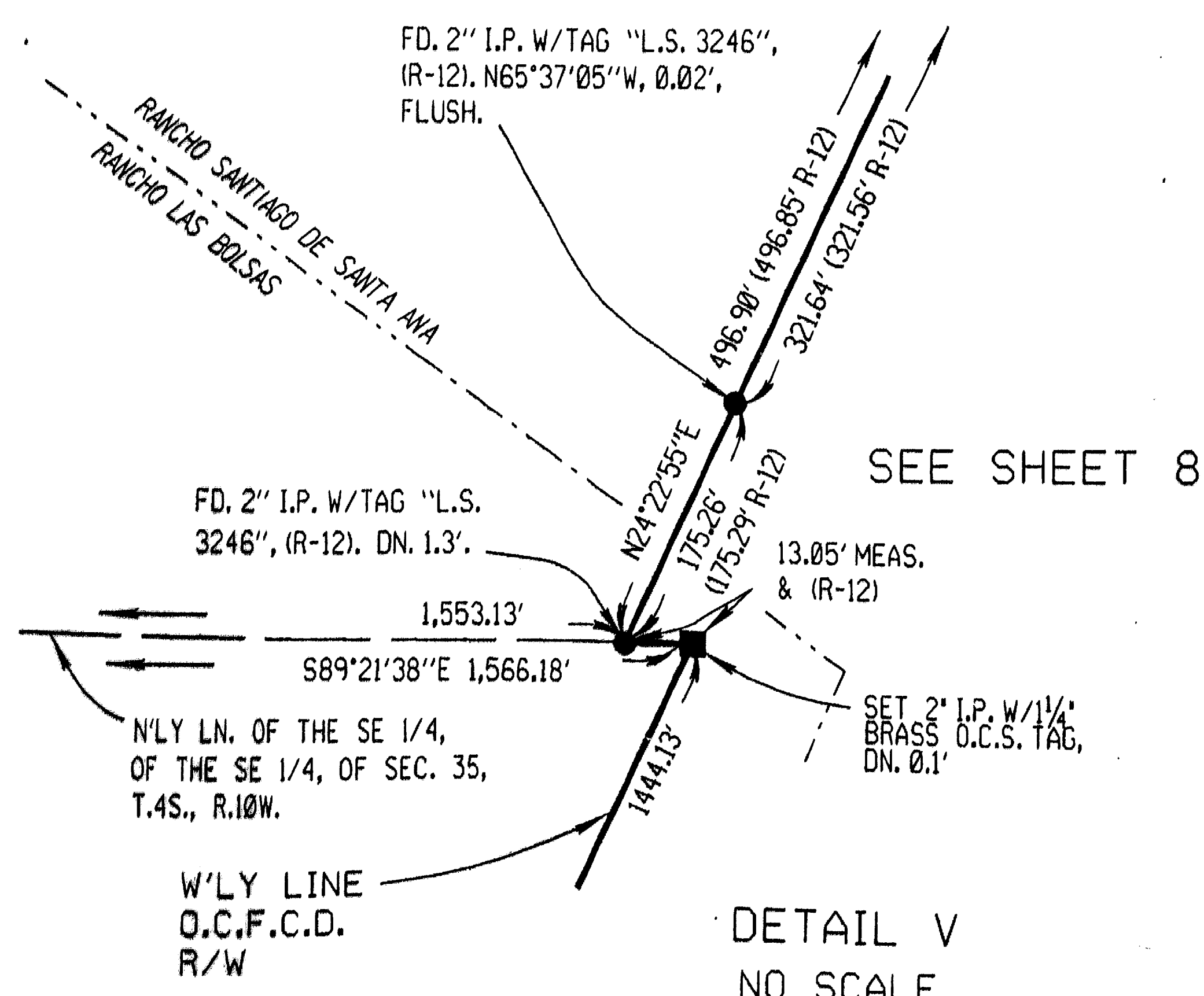
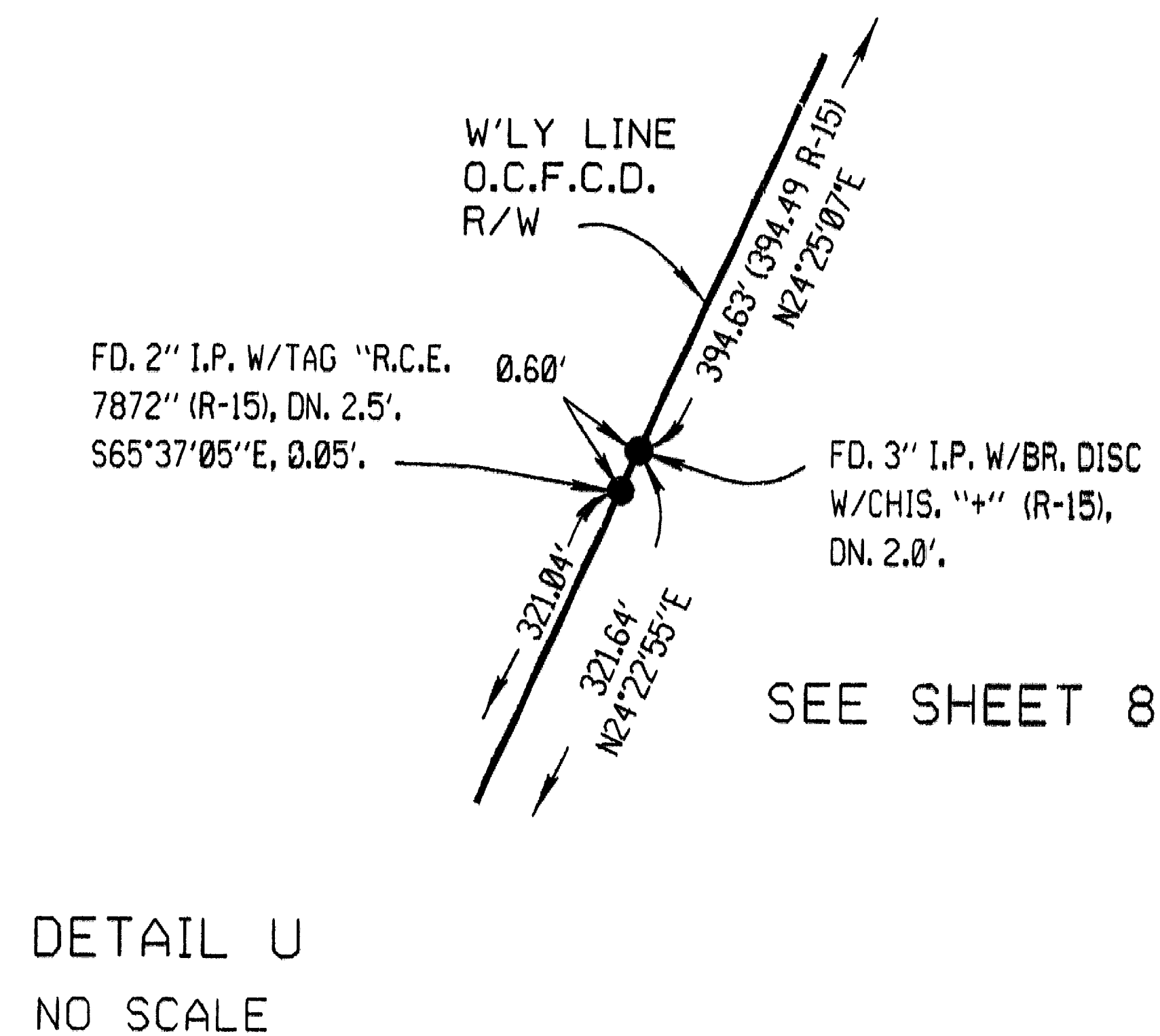
MEAS. & (R-7)

Δ = 6°59'14"

R = 540.00'

L = 65.85'

(R-7)



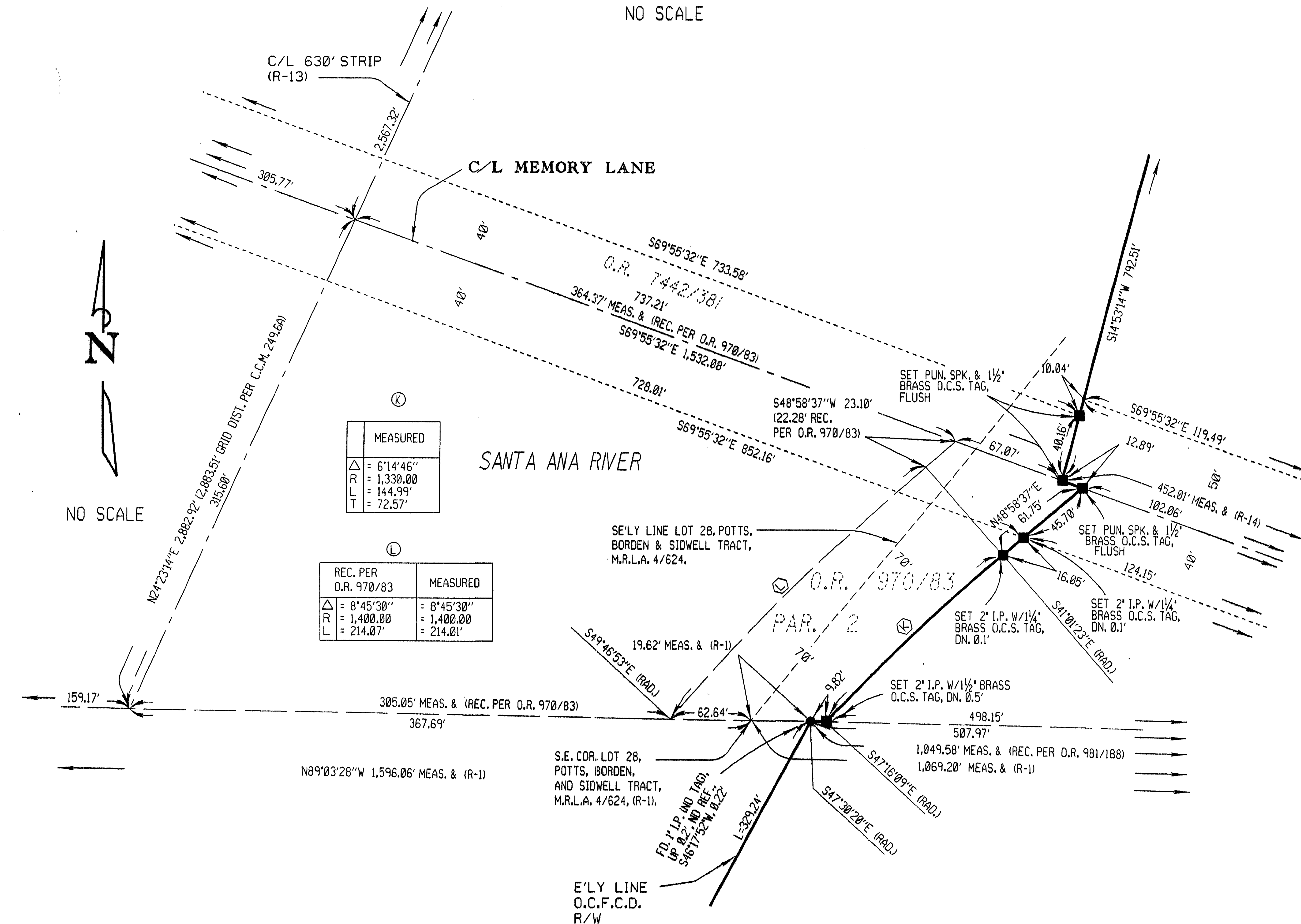
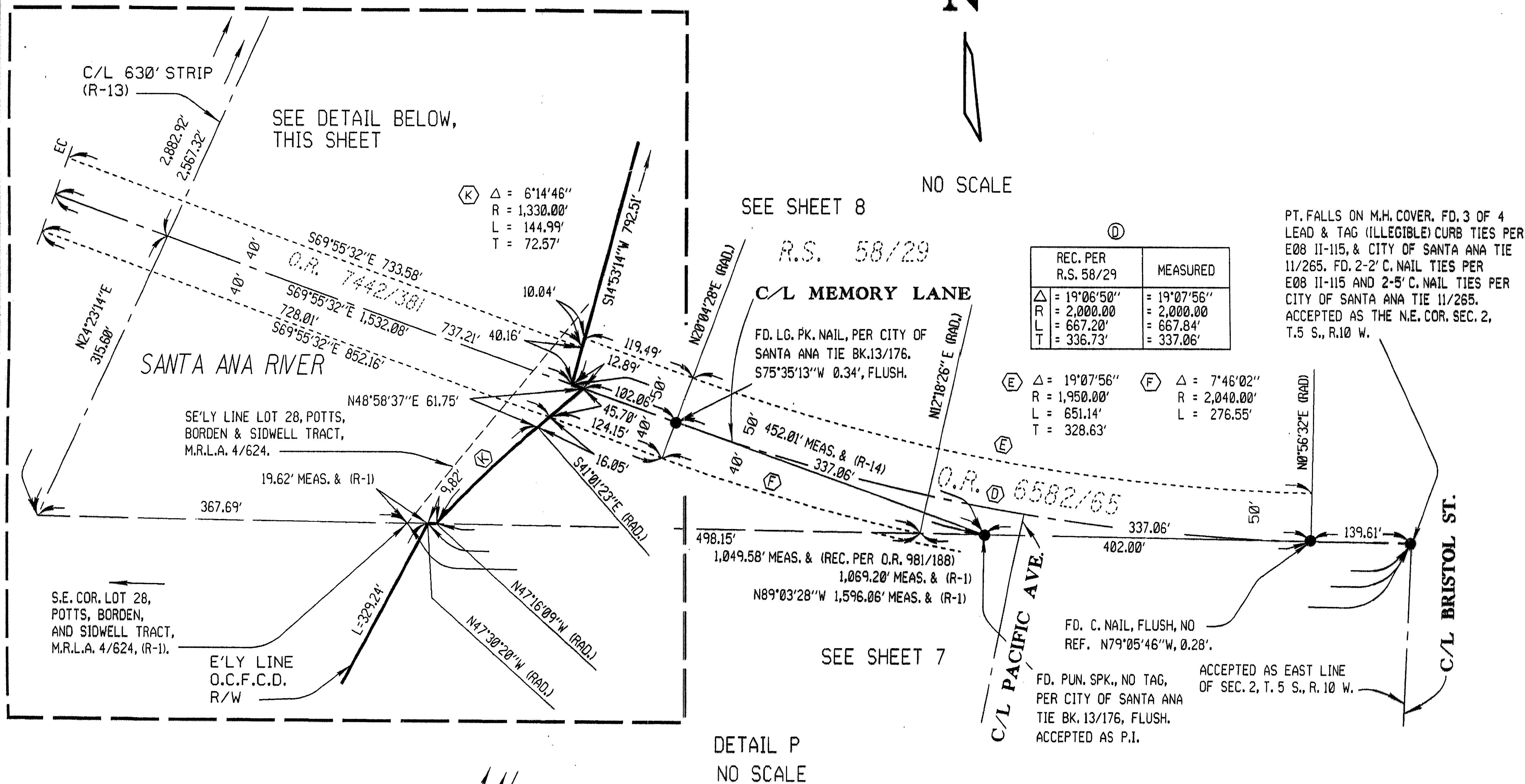
RECORD OF SURVEY 93-1050

IN THE CITIES OF SANTA ANA AND ORANGE IN
THE COUNTY OF ORANGE, STATE OF CALIFORNIA

DATE OF SURVEY: FEBRUARY, 1991-APRIL, 1994

MICHAEL B. EMMONS P.L.S. 5899

SEE SHEET 1 FOR BASIS OF BEARINGS, MONUMENT
NOTES, AND SURVEYORS NOTES



RECORD OF SURVEY 93-1050

IN THE CITIES OF SANTA ANA AND ORANGE
IN THE COUNTY OF ORANGE, STATE OF CALIFORNIA

DATE OF SURVEY: FEBRUARY 1991-APRIL 1994

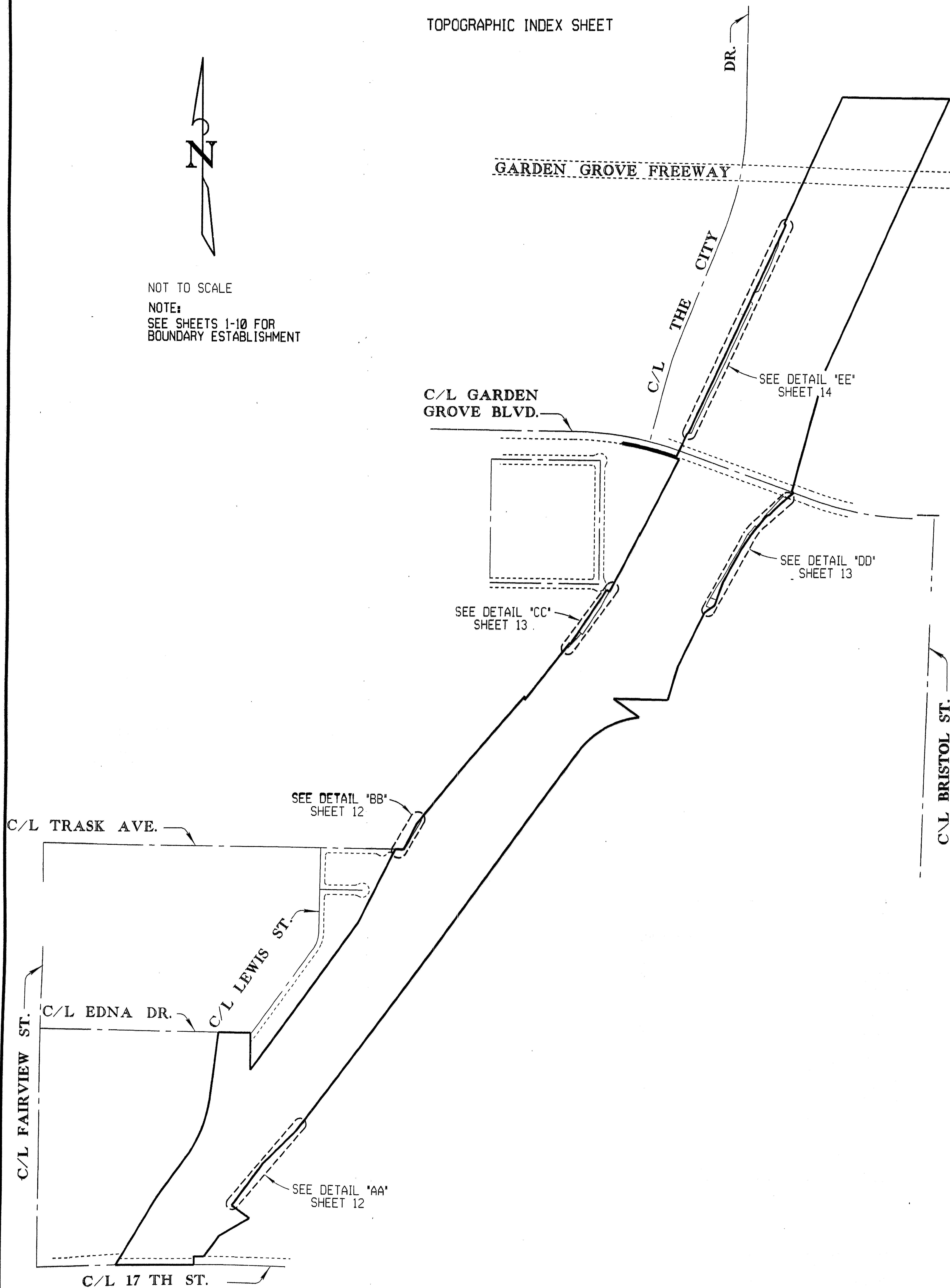
MICHAEL B. EMMONS P.L.S. 5899

TOPOGRAPHIC INDEX SHEET



NOT TO SCALE

NOTE:
SEE SHEETS 1-10 FOR
BOUNDARY ESTABLISHMENT



SEE SHEET 1 FOR BASIS OF BEARINGS,
MONUMENT NOTES, AND SURVEYOR'S NOTES

MICHAEL B. EMMONS P.L.S. 5899

SEE SHEET 1 FOR BASIS OF BEARINGS,
MONUMENT NOTES, AND SURVEYOR'S NOTES

152 18

RECORD OF SURVEY 93-1050

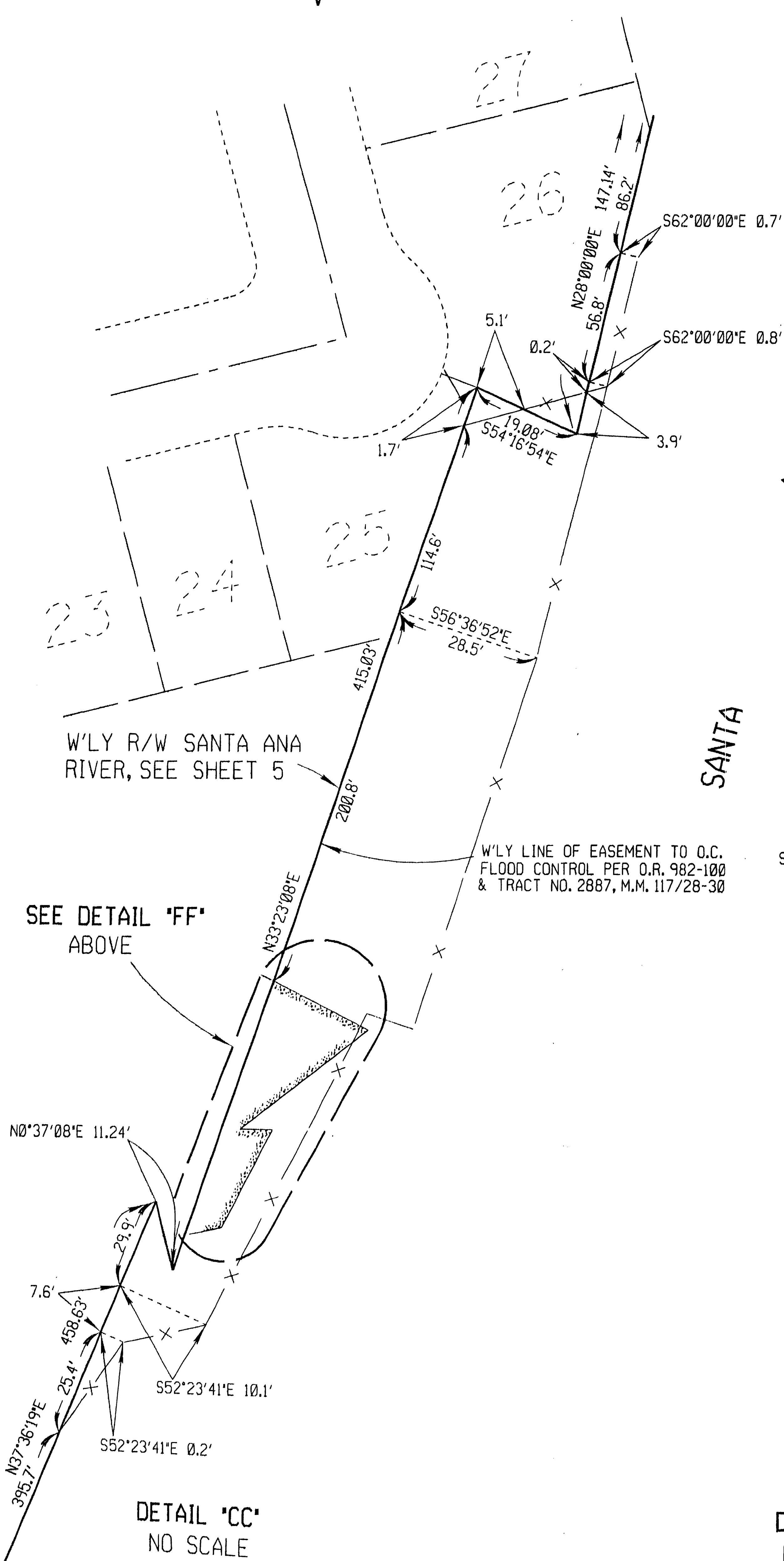
IN THE CITIES OF SANTA ANA AND ORANGE
IN THE COUNTY OF ORANGE, STATE OF CALIFORNIA

DATE OF SURVEY: FEBRUARY 1991 - APRIL 1994

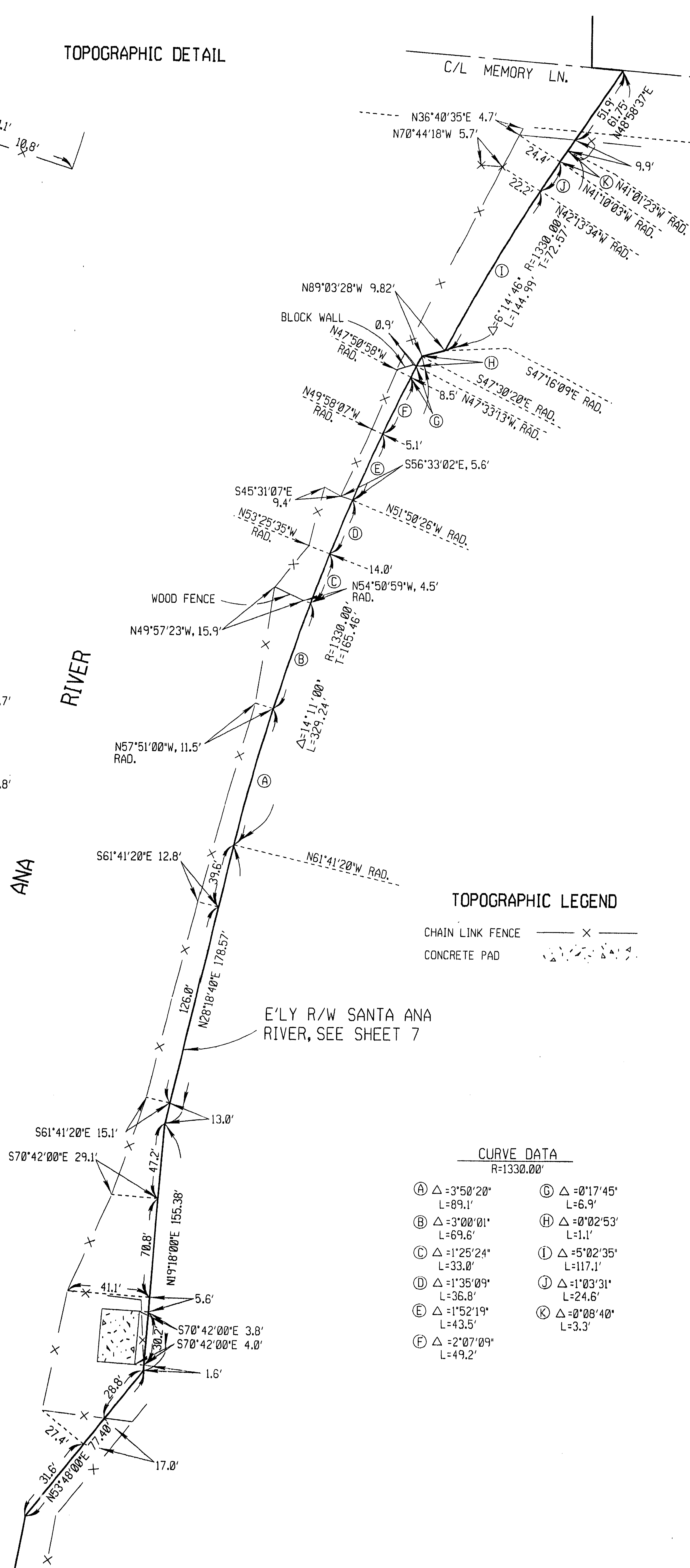
MICHAEL B. EMMONS P.L.S. 5899

NOT TO SCALE
NOTE:
SEE SHEETS 1-10 FOR
BOUNDARY ESTABLISHMENT

DETAIL 'FF'
NO SCALE



TOPOGRAPHIC DETAIL



TOPOGRAPHIC LEGEND

CHAIN LINK FENCE — X —
CONCRETE PAD — [Symbol] —

CURVE DATA

(A) $\Delta = 3^\circ 50' 20''$ L = 89.1'	(G) $\Delta = 0^\circ 17' 45''$ L = 6.9'
(B) $\Delta = 3^\circ 00' 01''$ L = 69.6'	(H) $\Delta = 0^\circ 02' 53''$ L = 1.1'
(C) $\Delta = 1^\circ 25' 24''$ L = 33.0'	(I) $\Delta = 5^\circ 02' 35''$ L = 117.1'
(D) $\Delta = 1^\circ 35' 09''$ L = 36.8'	(J) $\Delta = 1^\circ 03' 31''$ L = 24.6'
(E) $\Delta = 1^\circ 52' 19''$ L = 43.5'	(K) $\Delta = 0^\circ 08' 40''$ L = 3.3'
(F) $\Delta = 2^\circ 07' 09''$ L = 49.2'	

DETAIL 'DD'
NO SCALE

SEE SHEET 1 FOR BASIS OF BEARINGS,
MONUMENT NOTES, AND SURVEYOR'S NOTES

RECORD OF SURVEY 93-1050

IN THE CITIES OF SANTA ANA AND ORANGE
IN THE COUNTY OF ORANGE, STATE OF CALIFORNIA

DATE OF SURVEY: FEBRUARY 1991-APRIL 1994

MICHAEL B. EMMONS P.L.S. 5899

TOPOGRAPHIC DETAIL

NOT TO SCALE
NOTE:
SEE SHEETS 1-10 FOR
BOUNDARY ESTABLISHMENT

TOPOGRAPHIC LEGEND

CHAIN LINK FENCE X — X

LIGHT POLE, STEEL

W/LY R/W SANTA ANA
RIVER, SEE SHEET 8

W/LY R/W SANTA ANA
RIVER, SEE SHEET 8

