Ck'd by	Survey of Geodetic Control	F. B 2457 PG. 5
No.	JN 0301.00 Tape Std °F	
Work	Surveyed by DREIER & GUIZADO	
Checked	Notes A.C. GUIZADO Date 12-61	
	Indexed H. E. OTT JUN 12 '62	

L. A. Co. Survey Control System

TRIANGULATION
STATIONS

SAN FERNANDO
TO
PALMDALE

J.N. 0301.00

DEC '63
E. WILSON
BAZEN
McKNIGHT
MATHER
JONES
BOURDEAU

C '61
uizado A.C
ITH R.D.
YERS K
LIDDEN
YBRAND

DREIER
MOODY
VALDEZ
WORKMAN
SMITH N
RODRIQUEZ RR

Microfilmed Nov. 85

F. B. 2457 PG. 6

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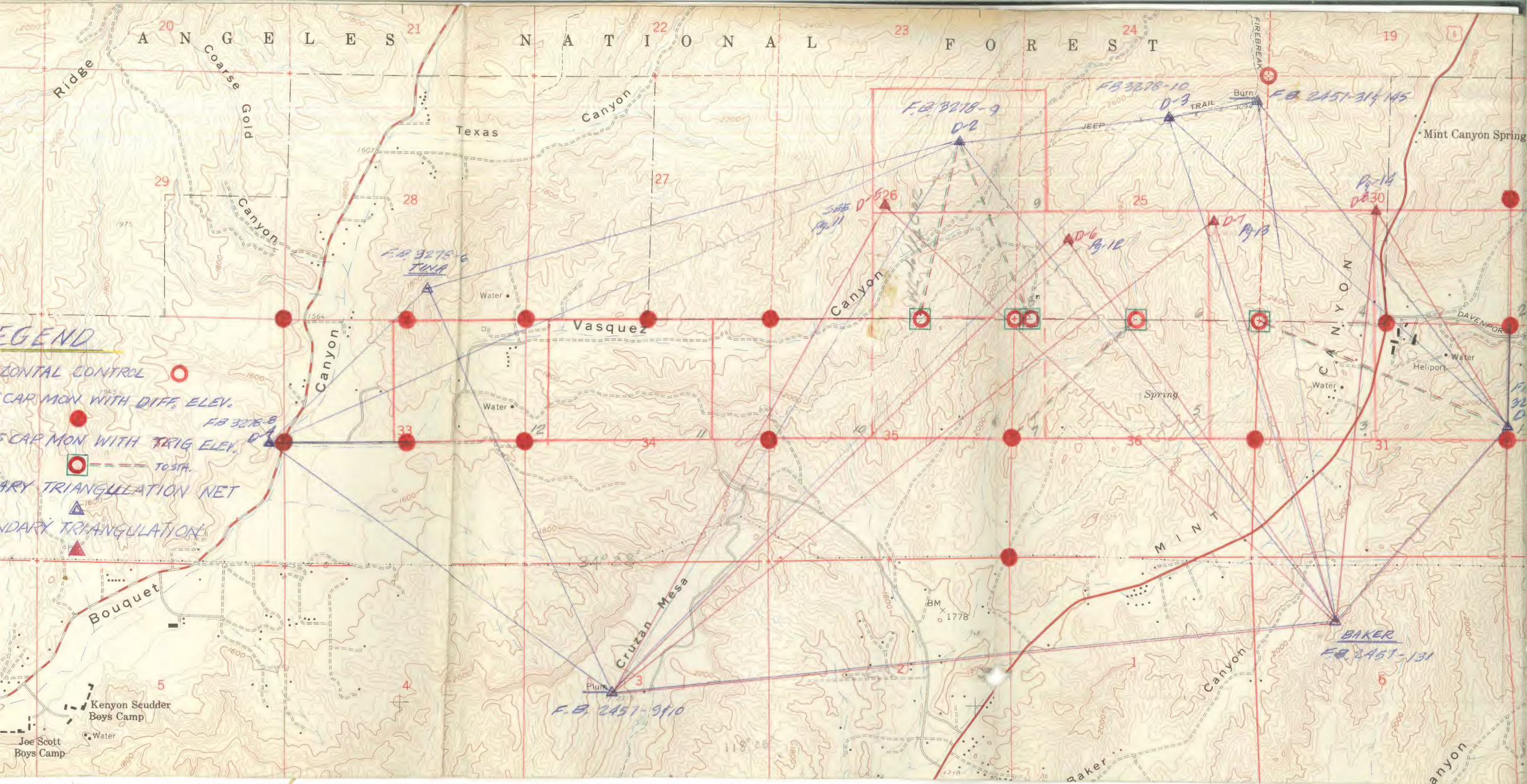

ANGELES NATIONAL FOREST
Ridge
Coarse Gold
Canyon
Texas
Canyon
Vasquez
Canyon
Bouquet
Cruzan Mesa
MINT CANYON
Mint Canyon Spring
Burn
TRAIL
JEEP
FIREBREAK
DAVENPORT
Heliport
Water
Spring
Plum
BM 1778
Kenyon Scudder Boys Camp
Joe Scott Boys Camp
Baker
Canyon
EGEND
ZONTAL CONTROL
CAR MON WITH DIFF. ELEV.
CAR MON WITH TRIG ELEV.
TO STA.
ARY TRIANGULATION NET
NDARY TRIANGULATION
F.B. 3278-6
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Date	Indexed

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76F3095 CE # 310 3-61

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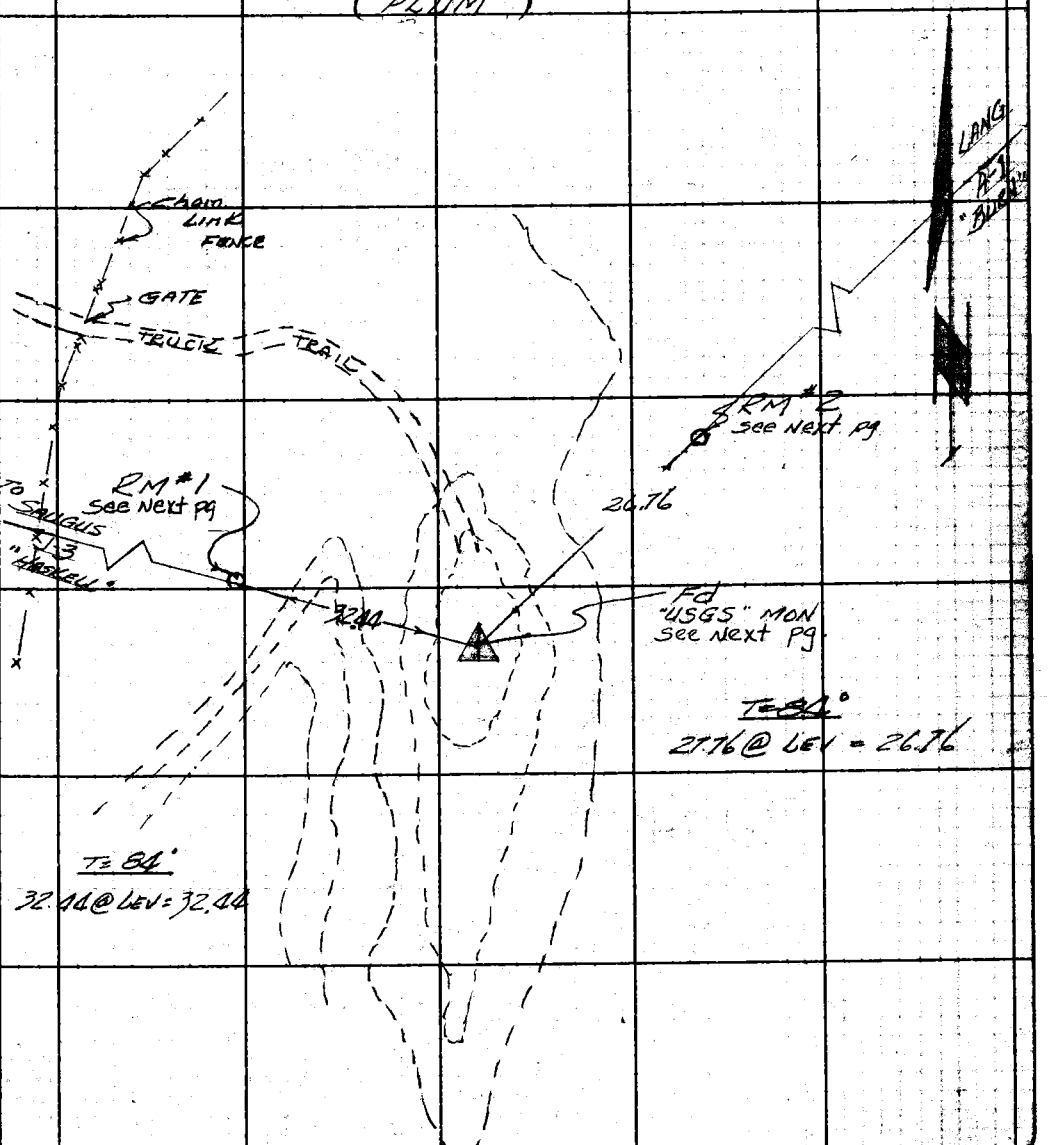
Date	Indexed H. E. OTT	

LA COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

HUMPHREYS G-5

("PLUM")



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765095 CE #247—7-59

F. B. 2457 PG. 10

DESCRIPTIONS

THIS TRIANGULATION STATION IS IN LOS ANGELES COUNTY, ON A PROMINENT RIDGE OF THE CRUZAN MESA, APPROXIMATELY 75 Ft ± WEST OF CENTER OF SECTION 3, T4N R15W

TO REACH THIS STATION, START AT THE INTERSECTION OF SIERRA HWY (HWY #6) & VASQUEZ CANYON RD, THENCE GO N'LY ALONG VASQUEZ CANYON RD 1.60 MILES TO A DIRT ROAD ON LEFT SIDE OF VASQUEZ CANYON RD, FOLLOW DIRT RD. 0.35 MI. TO DOUBLE GATE AT RANCH HOUSE, GO THROUGH GATE 0.75 MILE TO GATE ON RIGHT TURN RT. THEN 0.05 THROUGH ANOTHER GATE, THEN 0.20 MI TO SADDLE ON RIDGE, TURN SHARP LEFT ~~TO A GATE~~ and walk ~~THENCE~~ 0.10 MI TO STATION

STATION MARK: FD A 4" BRASS CAP MON. MKD "U.S. GEOLOGICAL SURVEY IN COOPERATION WITH THE STATE & LOS ANGELES COUNTY" MONUMENT IS 3" ABOVE GROUND

REFERENCE MARK NO 1 SET A STD 4" BRASS CAP MON & IRON PIPE IN CONCRETE STAMPED "RM NO 1 Humphrey G-5 "PLUM" 1961 SET BY LA CO ENGR RE 5869" ON LINE TO HASKELL SAUGUS J-3"

REFERENCE MARK NO 2 SET SAME AS RM #1 EXCEPT MK'D RM NO 2 & ON LINE TO "BURN" LANG A-1

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Office Work	Surveyed by A.C. GUIZADO
Checked	Notes RG & ACG Date 12-21-61
Date	Indexed H. E. OTT [illegible] 2-52

F. B. 2457 PG. 11

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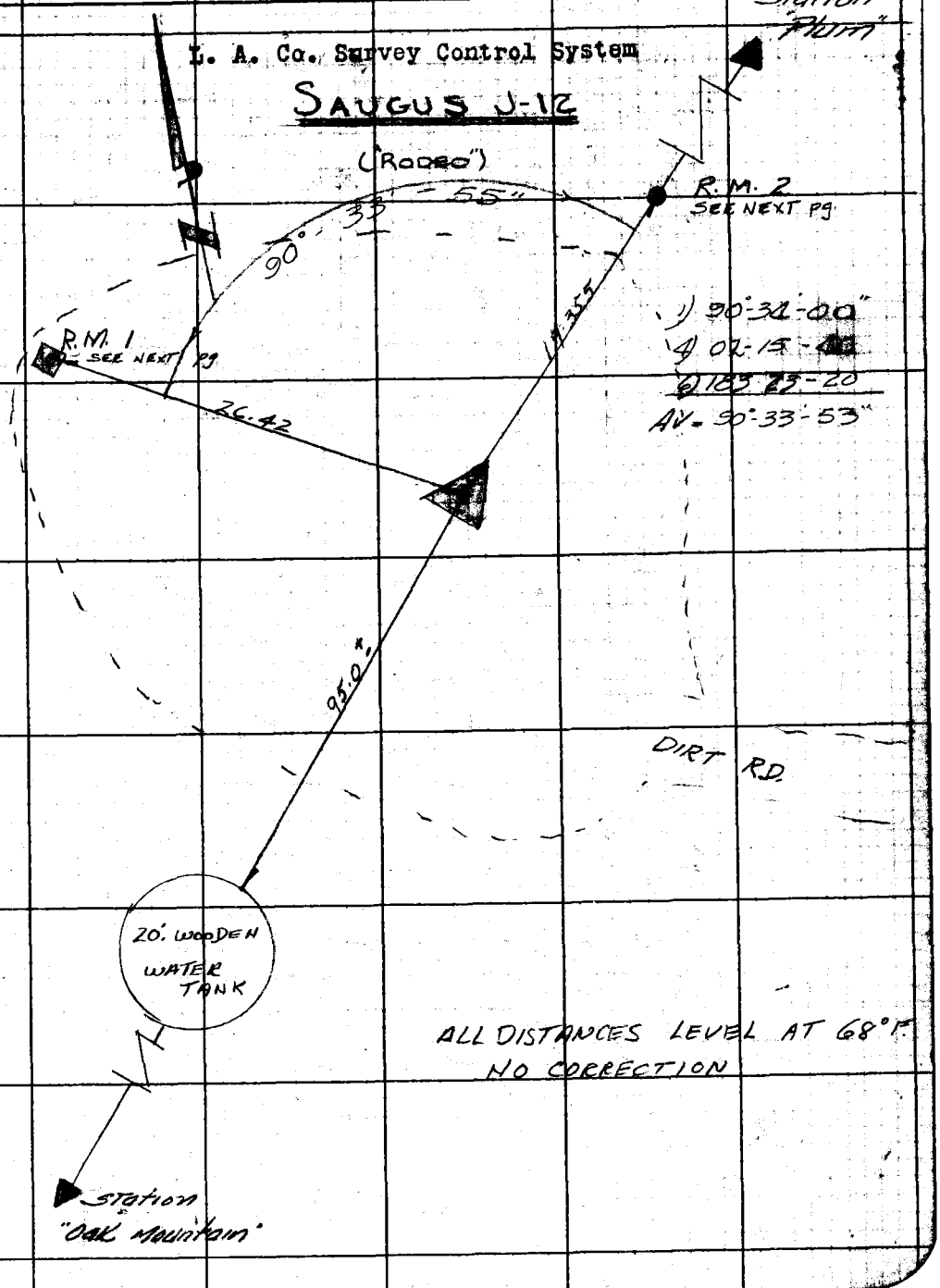
L. A. Co. Survey Control System

SAUGUS J-12

("RODEO")



1) 90°-34'-00"
4) 02-15-[illegible]
6) 183 23-20
AV - 90°-33'-53"

ALL DISTANCES LEVEL AT 68°F
NO CORRECTION

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763098 CE #247—7-53

DESCRIPTIONS

F. B. 2157 Pg. 12

SAUGUS J-12

THIS TRIANGULATION STATION IS IN LOS ANGELES COUNTY ON THE PROPERTY OF BERMITE POWDER CO. 22116 W. SOLEDAD CANYON RD. SAUGUS.

THIS STATION CAN BE REACHED FROM THE INTERSECTION OF BOUQUET & SOLEDAD CANYON RD'S. GOING E'LY ON SOLEDAD CAN. RD. 1.2 MI TO 22116 W. ENTRANCE TO POWDER CO. CONTACT GUARD FOR PERMISSION TO ENTER PREMISES. FROM GATE FOLLOW ROAD PAST ADM. BLDGS. 0.45 MI. BEAR RT. & THEN SHARP LEFT. 0.20 MI. SHARP RT. TURN UP HILL. 0.35 MI. THRU WIRE GATE BEAR LEFT. 0.25 MI. TO DIRT RD. TURN LEFT 0.10 MI TO TOP OF KNOLL.

STATION MARK. A STD. 4" BRASS CAP MARKED U.S. GEOLOGICAL SURVEY B.M. SET IN 2.0 BOULDER 12" UP.

REFERENCE MARK #1 SET L.&T. & C.ENG. TAG. IN CONC. ABOTMENT 2.0 SQUARE UP 12"

REFERENCE MARK #2 A STD. 4" BRASS CAP IN CONC. MON. MARKED L.A. CO. ENGR. RE 5869. R.M. 2 RODEO. UP 12" FROM GROUND. ON LINE TO STA "PLUM" HUMPHREY'S G.5

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Checked	Notes ACG Date 12-21-61
Date	Indexed H. E. OTT Jan 1 2-62

F. B. 2457 PG. 13

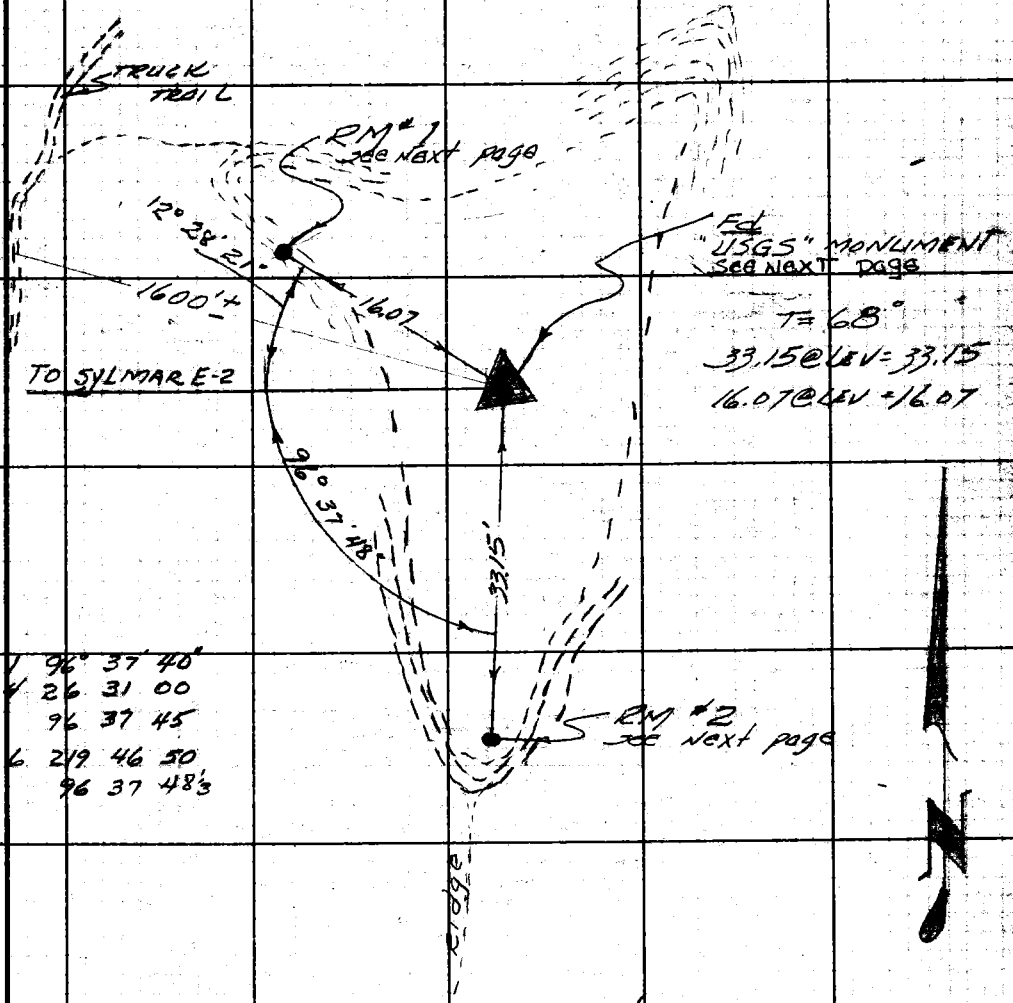
L.A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

SYLMAR I-2

("HORSE")

1 12° 28' 30"
4 49 53 20
12 28 20
6 74° 50' 10"
12 28 21⅓



1 96° 37' 40"
4 26 31 00
96 37 45
6 219 46 50
96 37 48⅓

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76809S CE #247—7-53

F. B. 2457 PG. 14

DESCRIPTIONS

SYLMAR I-2
("HORSE")

THIS TRIANGULATION STATION IS IN LOS ANGELES COUNTY BETWEEN SOLEDAD CANYON & PLACERITA CANYON ON TOP OF A KNOB ON WEST SIDE OF SAND CANYON, ABOUT 350'± SSE OF THE 1/4 CORNER BETWEEN SECTIONS 34 & 35, T4N R15W

TO REACH this station from the intersection of Soledad Canyon Rd & Sierra Hwy (US #6) drive E'ly along Soledad Cn. Rd 2.30 miles to Sand Cn Rd, thence S'ly 1.75 miles along Sand Cn Rd, to a dirt rd on right side (address on mailbox 27211-27215), go W'ly along dirt rd 0.80 mile to fork in rd, Bear right 0.15 mile to wire gate ("L" Key), go 0.30 mile to another wire gate (No Key) proceed 0.15 mile to wood gate ("L" key), Then continue on dirt rd 0.45 mile to saddle, Park vehicle & Follow well defined path to station on top of knob 160'±.

STATION MARK Fd a standard 4" Brass Cap marked "U.S. GEOLOGICAL SURVEY/" In Cooperation with the State & L.A. County." Flush with ground

REFERENCE MARK NO 1 SET A STD CO. ENGR. CAP & PRECAST MON. Stamped "SYLMAR I-2 RM #1 RE 5869" FLUSH WITH GROUND (TO "RODEO"?)

REFERENCE MARK NO 2 SAME AS ABOVE BUT STAMPED "RM NO 2". (TO MAY?)

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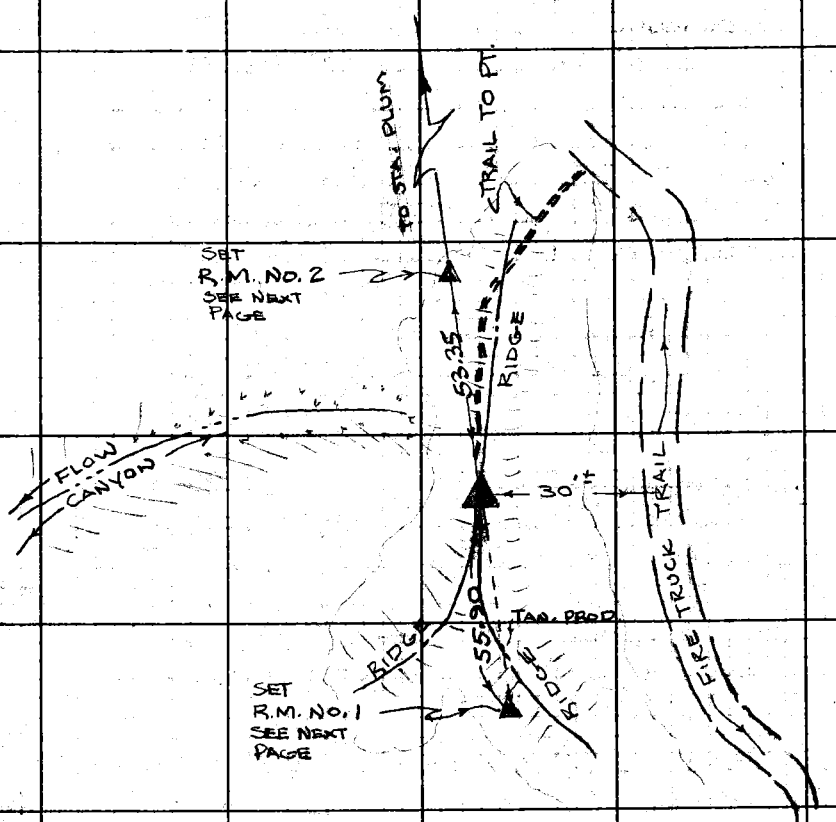
Checked	Notes K. MYERS Date 12-27-61
Date	Indexed H. E. OTT JUN 1 2 '62

F. B. 2457 PG. 15

L.A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

SYLMAR E-2



ALL MEAS. @ 72°F. NO CHANGE

R.M. Nº1
56.78 @ 10°-02' = 55.91
56.91 @ 10°-43' = 55.90

R.M. Nº2
54.02 @ 9°-02' = 53.35
53.88 @ 8°-04' = 53.35

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765098 CE #247—7-53

F.B. 2457 PG. 16

DESCRIPTIONS

SYLMAR E-2

THIS TRIANGULATION STATION IS IN LOS ANGELES COUNTY, IN THE SAUGUS-NEWHALL AREA, ON A PROMINENT RIDGE EAST OF SIERRA HWY. IN THE N.W. 1/4 OF SEC. 33, T4N, R15W

THIS STATION CAN BE REACHED FROM THE INTERSECTION OF SOLEDAD CYN. RD. & SIERRA HWY. BY GOING S'LY ON SIERRA HWY. 2.1 MI. TO FIRE TRUCK TRAIL ON LEFT SIDE OF SIERRA HWY. TURN LEFT OR E'LY (GATE "L" KEY NEEDED) FOLLOW TRUCK TRAIL 1.6 MI. TO ANOTHER GATE ("L" KEY NEEDED) CONTINUE 0.1 MI. TO SYLMAR E-2 ON RIGHT SIDE OF FIRE TRUCK TRAIL.

NOTE: ROUTE DESCRIPTION VOID. SEE NEW ROUTE AT Bottom of Pg. 19-Aug. 68 [illegible]

STATION MARK: SET STD. 4" BRASS CAP MARKED "SYLMAR E-2" 1961 SET BY L.A. CO. ENGR. R.E. 5869 UP 8"

REFERANCE MARK #1: SET A STD. 4" BRASS CAP UP 9" & STAMPED R.M. #1 1961 SET BY LA CO ENGR RE. 5869, SET ON PROD. TO STA. PLUM. HUMPHREY G-5

REFERANCE MARK #2 SET A STD. 4 BRASS CAP SAME AS RM#1, SET ON LINE TO STA. PLUM. HUMPHREY G-5

NEW ROUTE: (10-7-71 THIS ROUTE CLOSED BY FRWY, G.E.D.)

From the intersection of Sierra Hwy. (Route 14) with Soledad Canyon (Solemint Junction) proceed South'ly 1.6 mi. on Sierra Hwy to Friendly Valley Parkway, turn left (East'ly) on Friendly Valley Parkway, and continue up-grade 0.3 mi. to Green Mtn. Dr., Turn right and up-grade 0.5 mi. to Mountain Pass Road, turn left (up-grade) 0.1 mi. to Gold stream way, turn left and drive 0.1 mi. to Cul-de-Sac and Large (Steel) water storage tank. Turn left & drive on the South side of the tank, then continue on Fire truck trail 0.6 mi. to Cable gate (L-Key), Continue 0.3 mi. to a gate (L-Key), Continue 0.1 mi. on Dirt Rd. Park & Hike up small ridge on right approx. 300' to Station.

19-Aug-68 [illegible] Randall

(10-7-71) TO REACH STATION FROM PLACERITA CN. RD AND ANTELOPE FRWY. PROCEED ELY ON " " 3.65 MI. PAST PARK TO A GATE ON LEFT (W.) BY A LARGE RAVINE WITH GRASSLAND, GO N'LY ON RANCH ROAD 0.6 MI TO TOP OF MAIN RIDGE, GO LEFT ON FIRE TRUCK ROAD (W'LY) 1.85 MI. TO STATION

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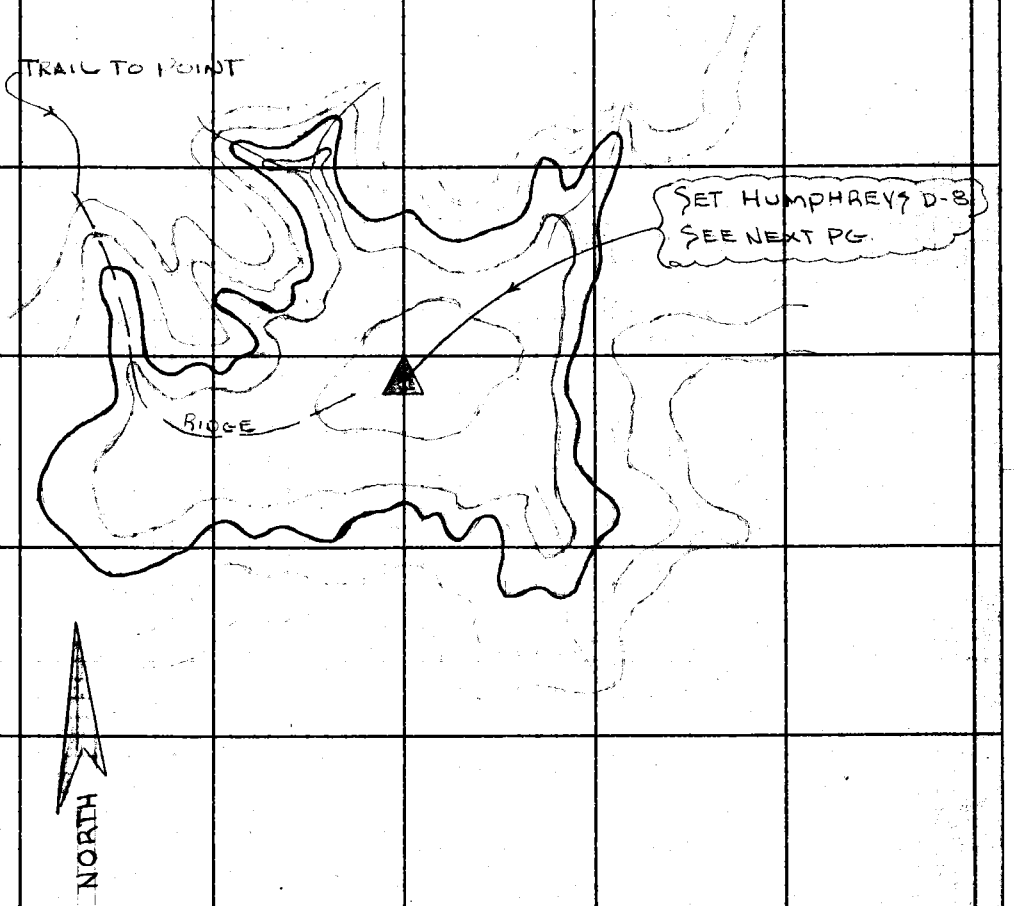
Checked	Notes K. MYERS Date 5-15-62
Date	Indexed H. E. OTT JUN 1 2 '62

L. A. Co. Survey Control System

TRIANGULATION STATION

HUMPHREYS D-8



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76F3095 CE # 310 3-61

F. B. 2457 PG. 18

DESCRIPTION

HUMPHREYS D-8

THIS TRIANGULATION STATION IS IN LOS ANGELES CO IN THE SAUGUS-NEWHALL AREA, SOUTH OF PLUM CANYON, 500± ft WEST OF S.E. CORNER OF SECTION 8 R15W T4N ON A PROMINENT PEAK

TO REACH THIS STATION FROM THE INTERSECTION OF SOLEDAD CYN RD & BOUQUET CYN RD JUNCTION GO EASTERLY ALONG SOLEDAD CYN RD, 3⅜ MILES TO CAMP PLENTY RD, TURN LEFT OR NORTH ALONG CAMP PLENTY RD 0.7 MILES TO INT OF CAMP PLENTY Rd & CEDAR CREEK ST, PROCEED NORTH 0.7 MI ALONG DIRT RD TO TOP OF PLATEAU, PROCEED N'ELY ALONG WELL DEFINED TRACKS 1.4 MI to A SLIGHT SADDLE IN RIDGE - PROCEED ON FOOT ALONG RIDGE E'LY APPROX 1320'± to PEAK & STATION

STATION MARK SET A STD. CO ENGR. 4" BRASS CAP PRECAST MONUMENT MK'D, "HUMPHREY D-8, 1962 L.A. CO. ENGR RE 5869" up ABOUT 4"

REFERENCE MARK — NONE SET

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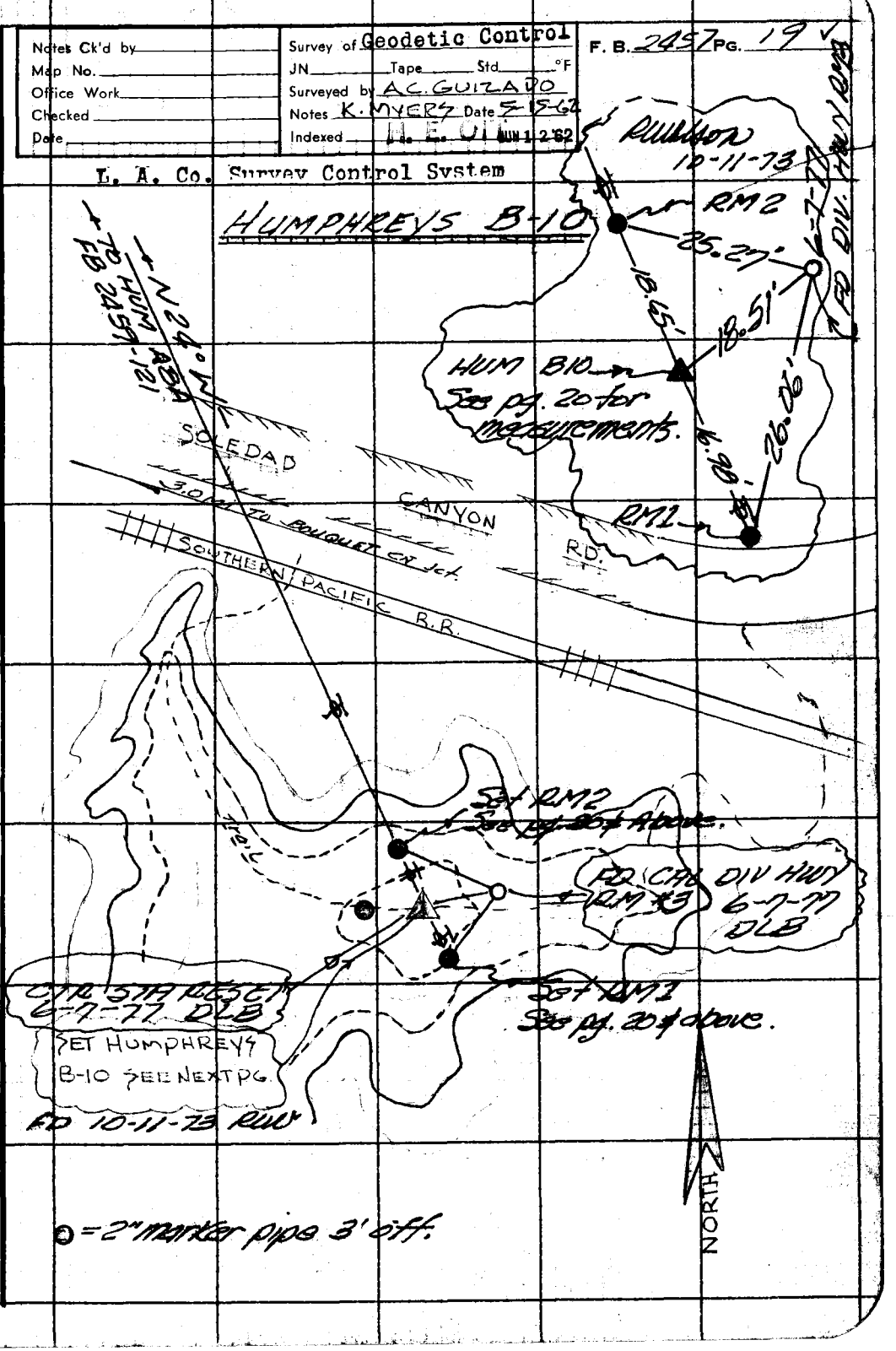


76F3085 CE # 310 2-61

F. B. 2457 Pg. 20

DESCRIPTION

HUMPHREYS B-10

THIS TRIANGULATION STATION IS IN LOS ANGELES CO IN THE SAUGUS-NEWHALL AREA ABOUT 400-500 ft SO. OF SOLEDAD CYN Rd, ON THE MOST E'LY RIDGE OF TWO PROMINENT RIDGES WHICH IS APPROX. 500 ft N'WLY OF 1/4 COR 19/20 T4N R15W

1800'± S & 400'± W of NE Cor. Sec 19 T4N R15W
RWW 10-11-73

TO REACH THIS STATION FROM THE JUNCTION OF SOLEDAD & BOUQUET CYN Rd's, GO E'LY ALONG BOUQUET CYN Rd, 3.0 MI TO THE AREA OF HONBY & THE S.P.R.R. MILEAGE SIGN 45-35 PROCEED ON FOOT ALONG EITHER RIDGE TO TOP OF DRAW & RIDGES & STATION

CAN BE DRIVEN TO WITH 4 WHEEL DRIVE FROM E'LY END OF RIDGE STARTING NEAR R.R.

RESET → 1977 FROM Φ RM 1 & 2

~~STATION MARK SET [illegible]~~

4" BRASS CAP PRECAST MONUMENT MK'D "HUMPHREYS B-10 ~~1962~~ ~~RESET~~ 1977 LACO ENGR RE ~~5869~~ 22726" ~~UP ABOUT 6"~~ dn 2"
(DL BURKHOLDER 6-7-77)

REFERENCE MARKS — NONE SET

RM 1 & RM 2 Set 10-11-73 RWWilson

RM 1: A 4" L.A. CO. Sur. Cont. Sys. brass Ref. mark disc stamped "HUMPHREY B10 RM 1 1973 RE 7078" on line prod. from HUM A8A up 4" & Set in an 8" conc. post.

RM 2: Same as RM 1 except stamped "RM 2" and on line to HUM A8A.

16.98' @ 76° = 16.98' 5.174m = 5.174m = 16.975'
18.65 @ 76° = 18.65' 5.683m = 5.683m = 18.645'

RM 3: CAL DIV. HWY 4" DISC STAMPED "HUMPHREYS B10 1962 NO. 3 1973"
FD 6-7-77 RWW

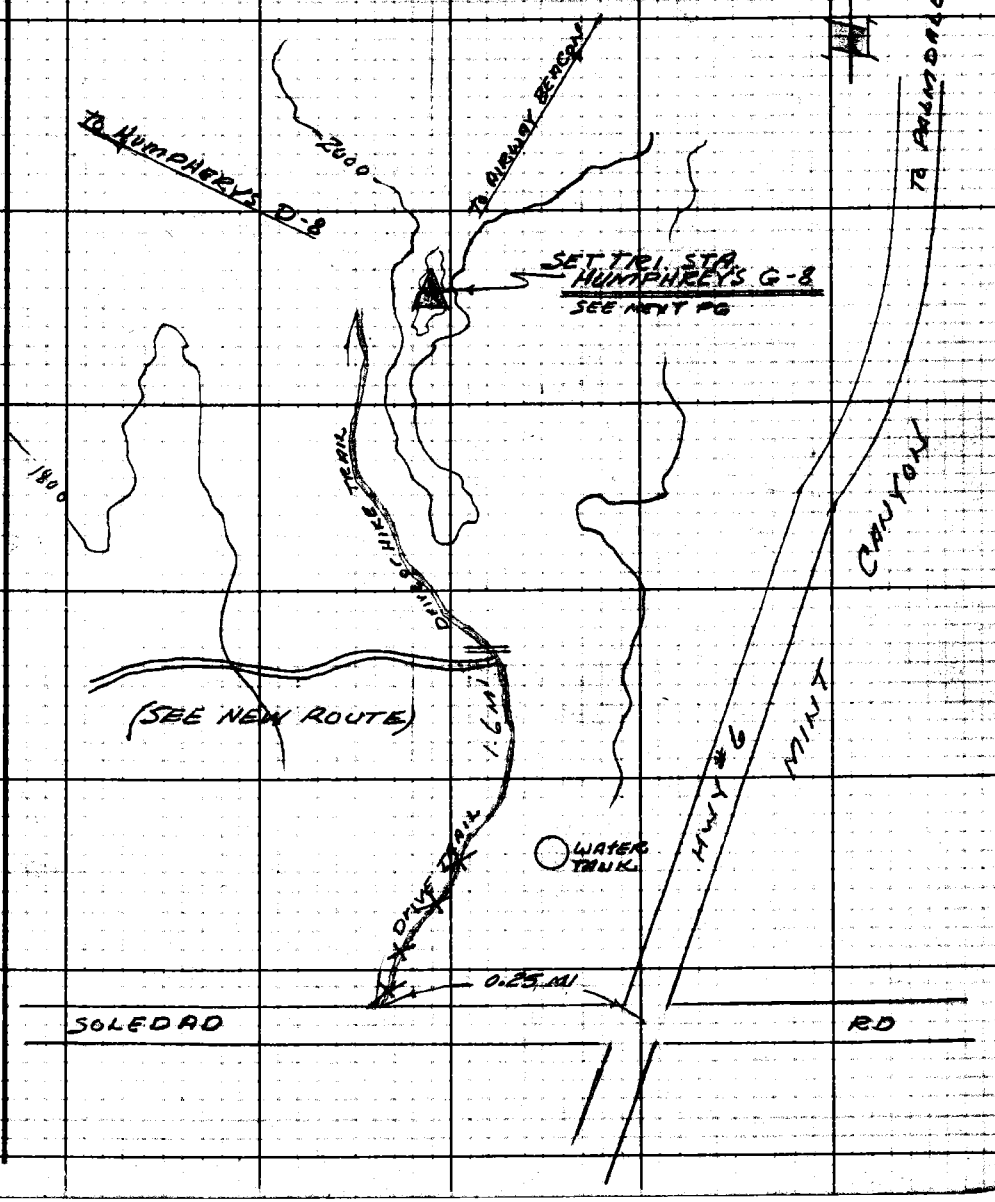
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.
Do not extend this side of this line.
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN0301.00 Tape Std. °F
Office Work	Surveyed by G.E. DREIER
Checked	Notes MOODY Date 5-62
Date	Indexed JUN 1 '62

F. B 2457 PG. 27

L. A. Co. Survey Control System

TRIANGULATION STATION
HUMPHREYS G-8



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

Do not extend notes this side of this line.

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

763098 CE #247—7-53

F. B. 265 / Pg. 22

STATION DESCRIPTION
TRI. STA.
HUMPHREYS G-8

THIS STATION IS IN THE COUNTY OF LOS ANGELES, IN MINT CANYON WEST SIDE OF HWY #6, ABOUT THE 2040 FOOT ELEVATION & IN THE N.W AREA OF SEC 15, T4N, R16W.
(TO REACH THIS STATION FROM THE INTERSECTION OF SOLEDAD RD & HWY #6 GO WEST ON SOLEDAD RD 0.25 MI. TO DIRT RD NORTHLY, STAY ON DIRT THRU IRON GATE & TO STATION (GOOD LUCK) approx 1.6 mi.)
THIS ROUTE DES. NOT GOOD -
See Below RCWilson
12-63

STATION MARK SET A STD PRE-CAST MON FLUSH STAMPED HUMPHREYS G-8
L.A. CO. ENGR., 1962, R.E. 5869

REFERENCE MARK SET NONE

NEW ROUTE
From the int. Soledad Cyn Rd. & White Cyn Rd. Travel 0.8 mile up White Cyn Rd. To Rainer - thence rt. to Walnut Springs; lft to Feldbrige; Rt. to Delight; lft. to end of Delight; thence lft. 500'S To the N.E. Cor. Tract; thence Rt over traveled track to Fire Gate (0.15M) Thence up dirt rd. 0.10 mile to top & Saddle; thence lft. along top of ridge 0.40 mile to base of steep ridge. Thence (4 wheel) up ridge & out traveled track 0.55 mile to station.

R.C. Wilson
12-63

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

Do not extend notes this side of this line.

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

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

Survey of GEODETIC CONTROL
JN 0301.00 Tape Std °F
Surveyed by G.E. DREIER
Notes G.E.D Date 5-24-63
Indexed H. E. OTT JUN 12 '62

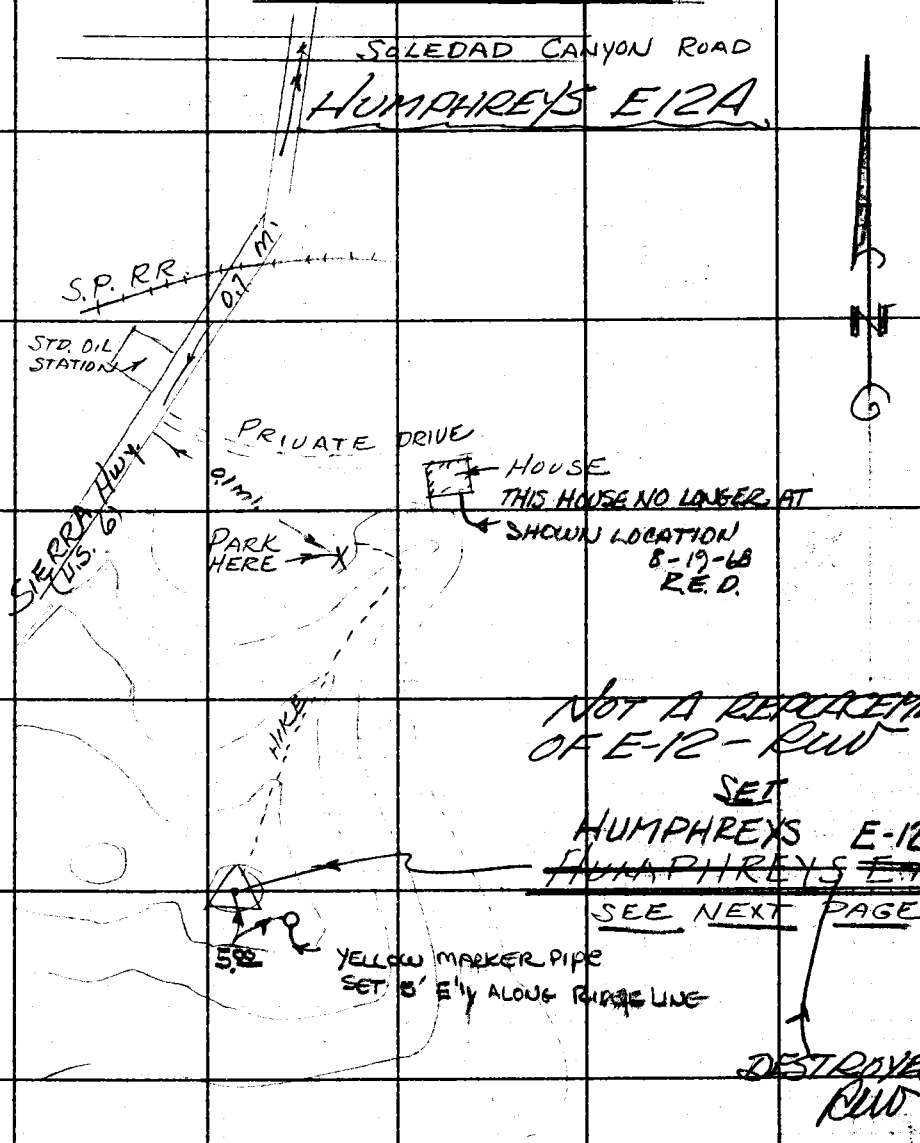
F. B. 2457 PG. 23✓

L.A.CO. SURVEY CONTOL SYSTEM TRIANGULATION

STATION HUMPHREYS E-12

SOLEDAD CANYON ROAD

HUMPHREYS E12A



HUMPHREYS E12A NOT RECOVERED
PROBABLY DESTROYED BY FRWY CONST.
1A-7-71 G.E.D

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

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

76F3095 CE # 310 3-61

F. B. 2457 PG 24

TRIANGULATION STATION

HUMPHREYS E-12

THIS STATION IS IN LOS ANGELES COUNTY ABOUT 0.7 MI. SOUTH OF THE INTERSECTION OF SIERRA HWY. AND SOLEDAD CANYON ROAD. TO REACH STATION FROM ROAD INTERSECTION GO SLY 0.7 MI. AND TURN LEFT (OPPOSITE STD. OIL SERV. STATION) ON PRIVATE DRIVEWAY GO 0.1 MI. S.ELY AND PARK (SWLY OF HOUSE) HIKE (5 OR 6 MIN.) UP RIDGE TO SUMMIT OF LOW HILL & STATION

STATION MARK SET STD. PRECAST COUNTY ENGR. MON. STAMPED "HUMPHREYS E-12 1962 R.E. 5869" UP 4 INCHES

THIS STATION MARK DESTROYED 8-19-68 R.E.D.

STATION MARK

A 4" L.A. CO. SUR. CON. SYSTEM BRASS TRIANGULATION DISC STAMPED "HUMPHREYS E 12 A 1968 RE 5869" SET IN A 6" CONC. POST & DOWN 2½"

8-19-68 R.E.D.

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

Do not extend this side of this line.

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

Notes Ck'd by R. J. MITCHELL	Survey of GEODETIC CONTROL	F. B. 2457	Pg. 25 ✓
Map No.	JN 9301.00 Tape 127 Std 84 °F		
Office Work R. J. MITCHELL	Surveyed by W. D. BAY		
Checked	Notes J. BAZEN Date 3/29/63		
Date	Indexed C. J. GALLI APR 1 9 63		

L.A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

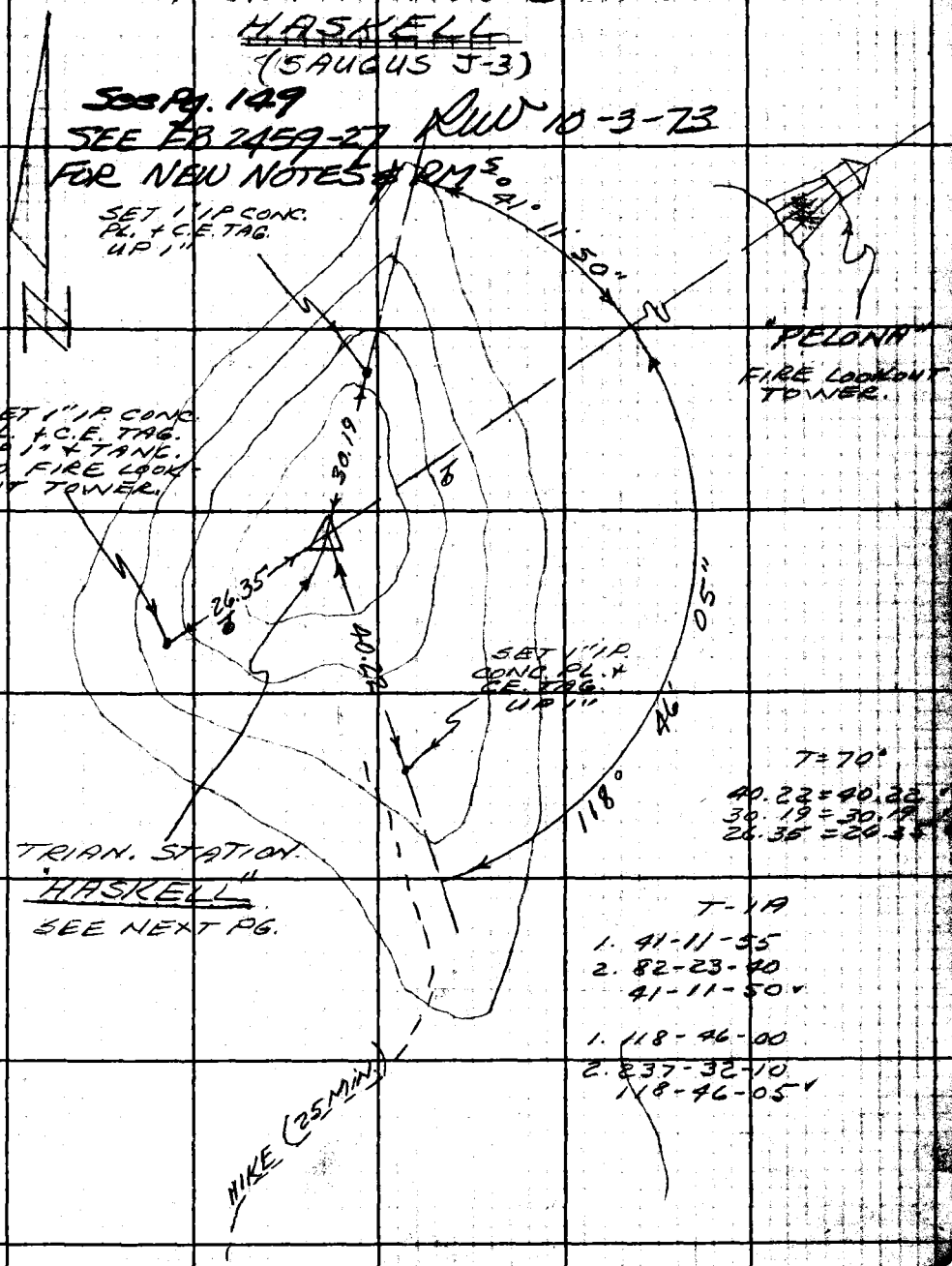
HASKELL

(SAUGUS J-3)

See Pg. 149

SEE FB 2459-27 RWS 10-3-73

FOR NEW NOTES & RMS



T = 70°

40.22 = 40.22

30.19 = 30.19

26.35 = 26.35

T-1A

1. 41-11-55
2. 82-23-40
41-11-50 ✓

1. 118-46-00
2. 237-32-10
118-46-05 ✓

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

Do not extend this side of this line.

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

76F3095 CE #310 6-62

F. B. 2457 PG. 26

L.A. CO. SURVEY CONTROL SYSTEM
TRIANGULATION STATION
"HASKELL"
(SAUGUS J-3)

THIS STATION IS IN THE COUNTY OF LOS ANGELES, (R16W - T5N) N.W. 1/4 OF SEC 36. ON TOP OF HIGHEST HILL IN AREA. THIS STATION IS A HIKE STATION AND CAN BE REACHED BY DRIVING N'LY FROM BOUQUET CN RD. ON SAN FRANCISQUITO CN. RD 1.7 MI. TO PAVED RD. LEADING RT. UP DRY CN., FOLLOW THIS RD. 0.5 MI. TO TRANSMI. LINES (NOT SHOWN ON 1947 AERIAL QUAD SHEET) TAKE SERVICE RD. FOR TRANS. LINE E'LY 1.2 MI. TO FORK IN RD. (AFTER PASSING THRU 4 GATES) + TAKE LEFT FORK 0.05 MI. PARK VEHICLE + HIKE DOWN RIDGE ON LEFT OF RD. THEN UP TO STATION (25 MIN. HIKE)

See Pg 149 - New Route

STATION MARK:

FD. A STD. 2" "U.S.G.S. IN CO-OP WITH THE STATE" BRASS CAP MON. SET IN A 6" CONC. CYLINDER UP 2" + STAMPED AS FOLLOWS:

LOS ANGELES COUNTY
LN17-8-7
△
HASKELL
1928

REFERENCE MARKS:

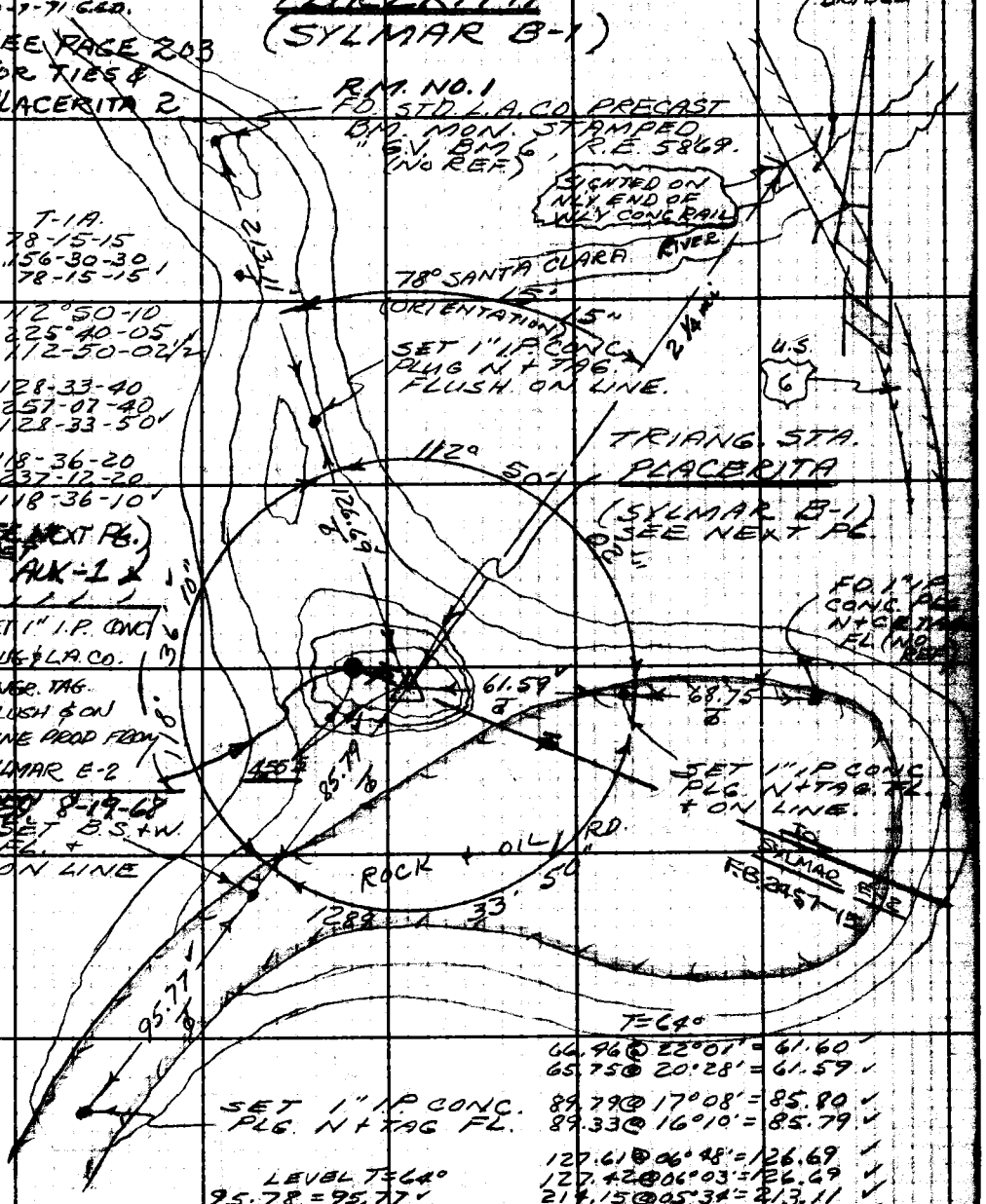
NONE SET OTHER THAN 1" IP's SET PER SKETCH.

LOS ANGELES COUNTY ENGINEER
403 Los Angeles County Engineering Bldg.
PLEASE RETURN TO
Do not extend this side of this line.
Note: Any Additions or Changes on This Sheet Must Be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by R. J. MITCHELL	Survey of GEODETIC CONTROL	F. B. 2457 Pg. 27
Map No.	JN 0301.00 Tape 127 Std 84 °F	
Office Work R. J. MITCHELL	Surveyed by W. D. BAY	
Checked	Notes J. BAZEN Date 3/29/63	
Date	Indexed R. J. GALLI APR 1 /63	

L.A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION PLACERITA (SYLMAR B-1)



T=64°

66.46 @ 22°01' = 61.60
65.75 @ 20°28' = 61.59
89.79 @ 17°08' = 85.80
89.33 @ 16°10' = 85.79
127.61 @ 06°48' = 126.69
127.42 @ 06°03' = 126.69
214.15 @ 05°34' = 213.11
214.29 @ 05°55' = 213.12

LEVEL T=64°
95.78 = 95.77
68.76 = 68.75

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.
Do not extend this side of this line.
PLEASE RETURN TO LOS ANGELES COUNTY ENGINEER 403 LOS ANGELES COUNTY ENGINEERING BLDG.
76F3095 CE #310 6-62

F.B. 2457 PG. 28

L.A. COUNTY SURVEY CONTROL SYSTEM.
TRIANGULATION STATION

PLACERITA
(SYLMAR B-1)

THIS STATION IS IN THE COUNTY OF LOS ANGELES, (R-15W - T4N) S.E. 1/4 OF SEC. 30. + IS LOCATED IN THE N'LY PART OF THE QUIGLEY OIL FIELDS. THIS STA. CAN BE REACHED BY TRAVELING N'LY ON HWY 6; FROM THE INTERSECTION OF HWY 6 + PLACERITA CN RD. 1.0 MI. TO PAVED RD, ON W. SIDE OF HWY MARKED BY SIGN STATING "SO. CAL GAS CO., QUIGLEY STATION." TRAVEL WLY ON PAVED RD. 0.25 MI. TO ROCK + OIL RD., TURN RT. + DRIVE 0.25 MI. TO STA. WHICH IS ON A SMALL NOB 20' TO THE LEFT OF RD. + 100' FROM END OF RD.

STATION MARK:
FD. A STD. A" "U.S.G.S. IN CO-OP WITH THE STATE" BRASS CAP MON SET IN CONC. + STAMPED, "LOS ANGELES COUNTY." (NO NAME FOUND) (FD. DESTROYED 10-7-71 GED)

REFERENCE MARKS:
NONE SET, OTHER THAN 1" I.P.'S AS PER SKETCH.

SYLMAR B-1 AUX 1

STATION MARK: A 1" I.P. CONC. CENTER L.A. CO. ENGR. TAG "FLUSH" (AUX 1) 8-19-68 R.E.B.

SYLMAR B-1 AUX 2 (PLACERITA 2) SEE F.B. 2457-203

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

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

Survey of GEODETIC CONTROL
JN 0301.00 Tape 0120 Std 68 °F
Surveyed by A.C. GUIZADO
Notes K. MYERS Date 1-2-62
Indexed R. J. GALLI OCT 4

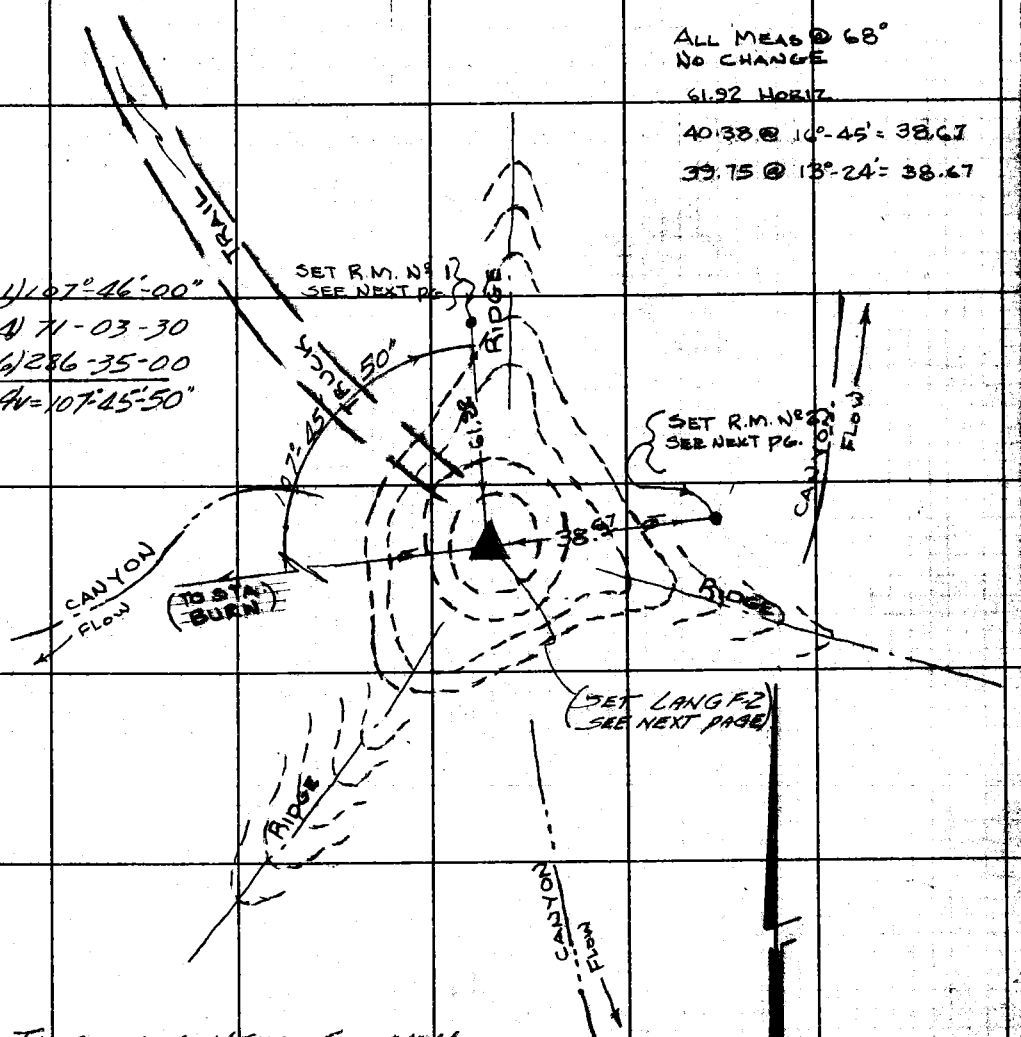
F. B 2457 PG. 27

LA COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

LANG F-2

("DARLING")



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

Do not extend notes this side of this line.

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

763095 CE #247 7-59

F.B. 2457 PG. 30

DESCRIPTIONS

LANG F-2

THIS TRIANGULATION STATION IS IN LOS ANGELES COUNTY. IT IS 1.5 MI.± WEST OF AGUA DULCE CYN. ROAD & 0.5 MI.± SOUTH OF DARLING RD. IN T 5 N R 14 W NEAR NE COR OF SW 1/4 OF SEC 28

THIS STATION CAN BE REACHED FROM THE INT. OF CALIF. U.S. HWY Nº 6 & AGUA DULCE CANYON RD. HENCE ALONG AGUA DULCE CANYON RD. 1.8 MI.± TO DARLING RD. TURN RIGHT ON DARLING RD. 1.0 MI.± TO END OF PVM'T. AND START OF DIRT RD. THEN 700'± ON DIRT RD. SHARP LEFT TURN THEN 500'± A SHARP LEFT TURN THEN 0.45 MI.± A SHARP LEFT TURN. HENCE 0.3 MI.± TO TOP OF SHARP KNOLL.

STATION MARK: SET A STANDARD 4" BRASS TRIANGULATION MARK & IRON PIPE IN CONC, UP 6" ABOVE GROUND & STAMPED "LANG F-2, 1962 LA CO. ENGR. RE 5869 DARLING."

SUB-SURFACE MARK: NONE SET

REFERENCE MARK Nº 1: SET A STANDARD 4" BRASS REFERENCE MARK & IRON PIPE IN CONC, up about 8" ϕ, in CENTER OF CLUSTER OF ROCKS, STAMPED "LANG F-2 1962, RM Nº 1, LA CO ENGR RE 5869 DARLING"

REFERENCE MARK Nº 2: SET SAME AS FOR Nº 1, only stamped "RM Nº 2." ON PROD TO STA "BURN" LANG A-1

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

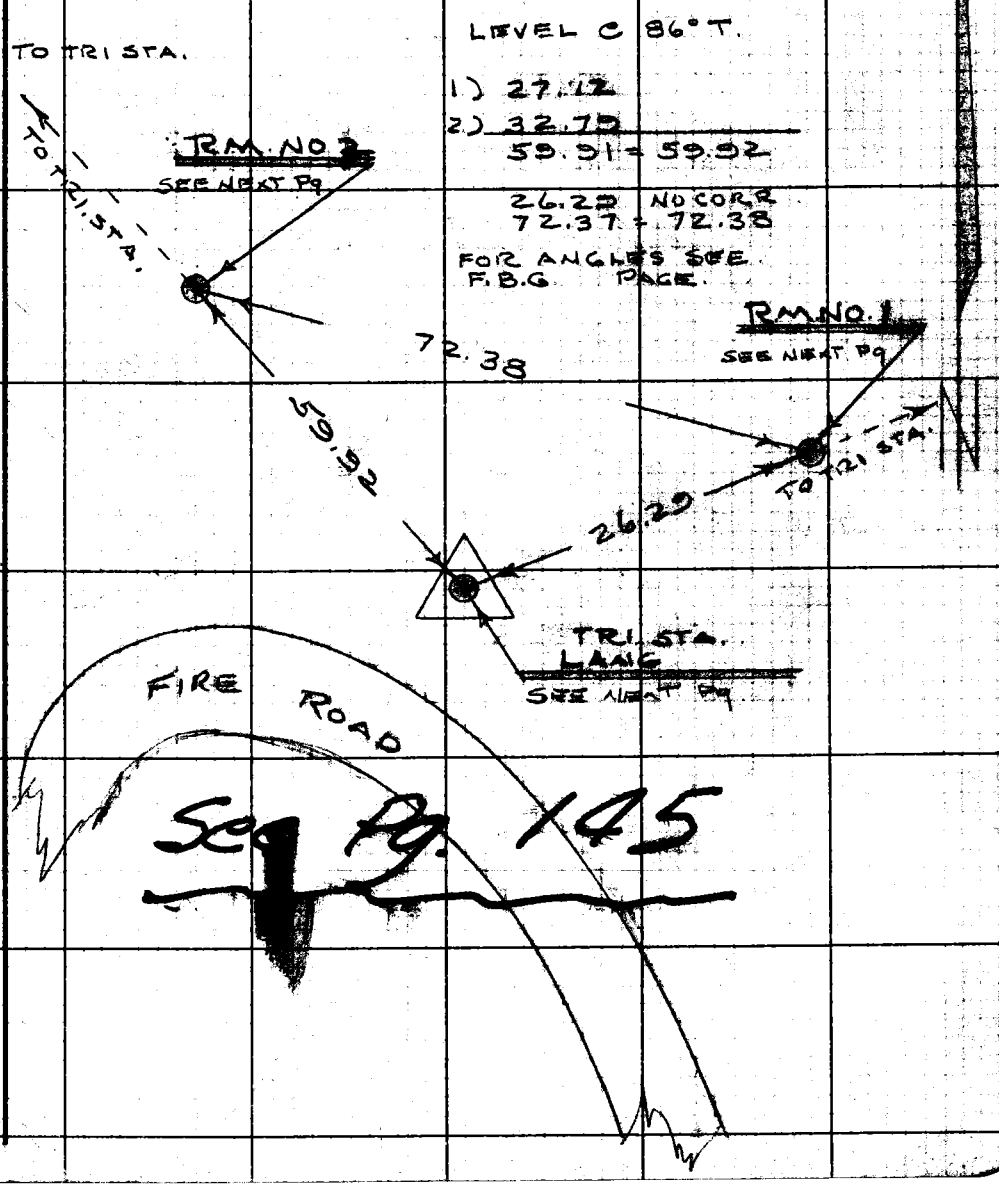
Do not extend notes this side of this line.

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

Notes Ck'd by	Survey of GEODETIC CONTROL	F.B. 2457 PG. 31
Map No.	JN0301.00 Tape 0120 Std 68 °F	
Office Work	Surveyed by A.C.G.	
Checked	Notes R.D.S. Date 4-23-62	
Date	Indexed E. J. GALLI DEC 10 '63	

L.A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STA.
LANG A-1
(BURN)



See Pg. 145

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

Do not extend notes this side of this line.

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

763099 CE #247—7-59

F.B. 2457 PG. 32

STATION DESCRIPTION
TRIANGULATION STA.
LANG A-1
(BURN)

THIS STATION IS IN L.A. COUNTY ON THE SUMMIT OF A HIGH MOUNTAIN IN NE COR OF SEC 25 R15W T5N

TO REACH THIS STATION FROM THE JUNCTION OF SOLEDAD CYN. RD & BOUQUET CYN. RD. GO NORTHEASTERLY ALONG BOUQUET CYN. RD 05.3 MILES TO VASQUES CYN. RD. TURN RIGHT, THENCE 0.6 MILE AND TURN LEFT. THENCE 0.2 MILE & TURN RIGHT. THENCE 0.1 TURN LEFT ACROSS CATTLE-GUARD. THENCE 0.3 MILE THROUGH WOODEN GATE (FIRE (L) LOCK). THENCE 02.7 MILES ALONG DIRT ROAD TO A FIRE ROAD ON THE RIGHT. THENCE 02.2 MILES TO THE SUMMIT AND STATION.

STATION MARK FOUND U.S.G.S. STATION BURN STD 4" BRASS CAP IN A LARGE ROCK & STAMPED "IN COOPERATION WITH LOS ANGELES COUNTY. "BURN" 1929

REFERENCE MARK NO. 1 SET STD 4" BRASS REF CAP IN CONC & STAMPED: "LANG A-1 R.M. 1 L.A. CO. ENGR. 1961 R.E. 5869

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

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

Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN0301.00 Tape #141 Std. 84 °F
Office Work PAW	Surveyed by A. C. GUIZADO
Checked	Notes K. MYERS Date 12-20-61
Date	Indexed C. J. GALLI DEC 10 '63

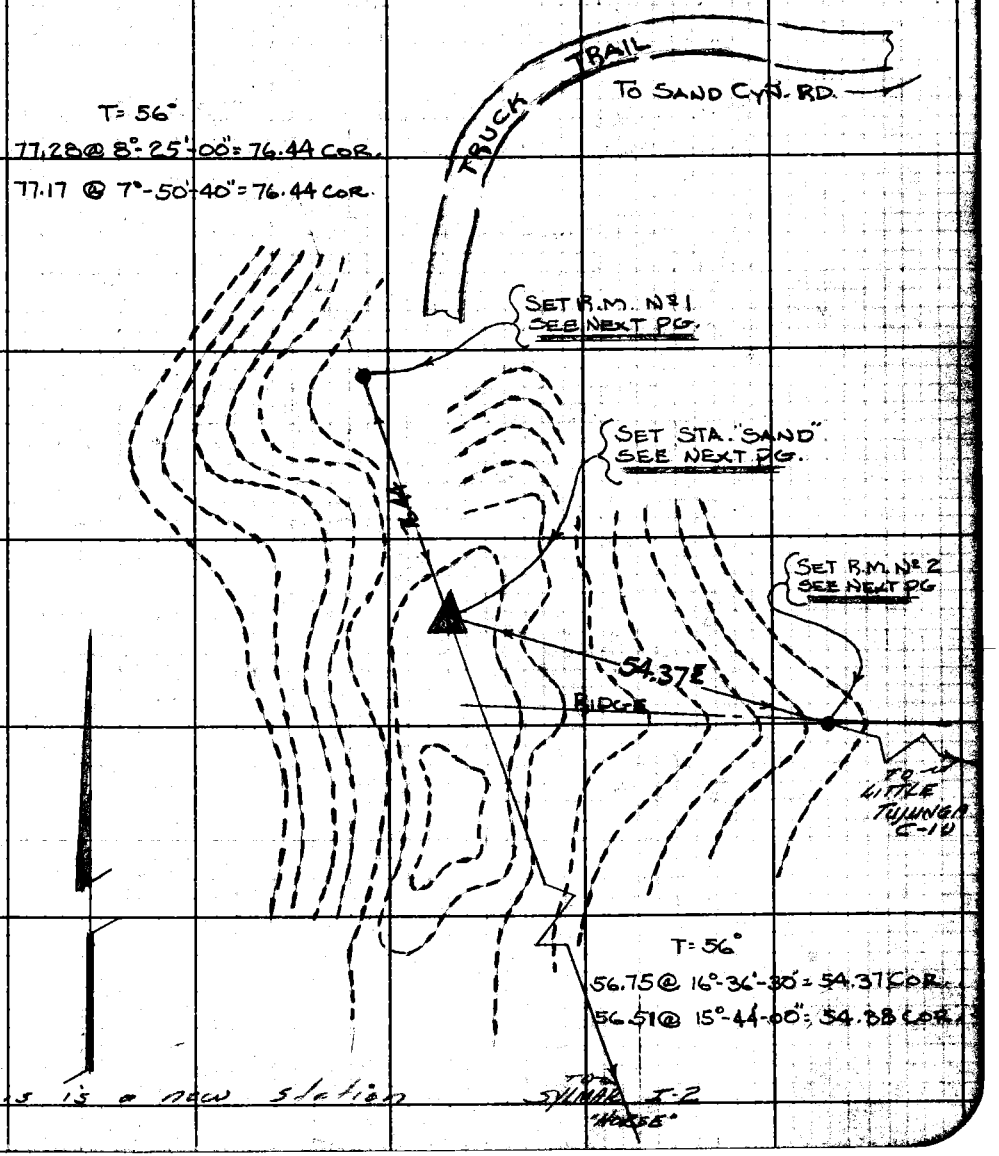
F. B 2457 PG. 33 ✓

L.A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

HUMPHREYS J-78

("SAND")



This is a new station

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

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

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY ENGINEER
1100 LOS ANGELES COUNTY ENGINEERING BLDG.

763098 CE #247—7-53

F.B. 2457 PG. 34

DESCRIPTIONS

HUMPHREYS J-78

THIS TRIANGULATION STATION IS IN LOS ANGELES CO. IN SAND CYN. ON THE WEST SIDE, ON A PROMINENT RIDGE BETWEEN MINT CYN. & SAND CYN. & JUST S.E. OF THE CTR. OF SEC. 11, T4N, R15W

TO REACH THIS STATION GO FROM THE INTERSECTION OF SIERRA HWY & SAND CYN. RD., GO 0.6 MI.± S'LY ON SAND CYN. RD. TO TRUCK TRAIL ON RT. SIDE OF RD. THEN FOLLOW DIRT RD. FOR 0.3 MI.± TO STATION.

STATION MARK: SET A STD 4" BRASS CAP MON. MARKED "SAND" 1961 SET BY L.A. CO. ENGR. B.E. 5869 UP 8"

REFERANCE MARK #1: SET A STD. 4" BRASS CAP MON. UP 4" & MARKED R.M. Nº 1, 1961 SET BY L.A. CO. ENGR. B.E. 5869" TANGENT TO SYLMAR I-2 'HORSE'

REFERANCE MARK #2: SET A STD. 4" BRASS CAP. MON SAME AS R.M. Nº 1. ON LINE TO LITTLE TUNJUNGA C40

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

Do not extend notes this side of this line.

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

Notes Ck'd by	Survey of GEODETIC CONTROL	F. B. 2457 PG. 351
Map No.	JN0301.00 Tape Std 68 °F	
Office Work	Surveyed by A.C. GUIZADO	
Checked	Notes K. MYERS Date 1-5-62	
Date	Indexed E. J. GALL DEC 1 0 63	

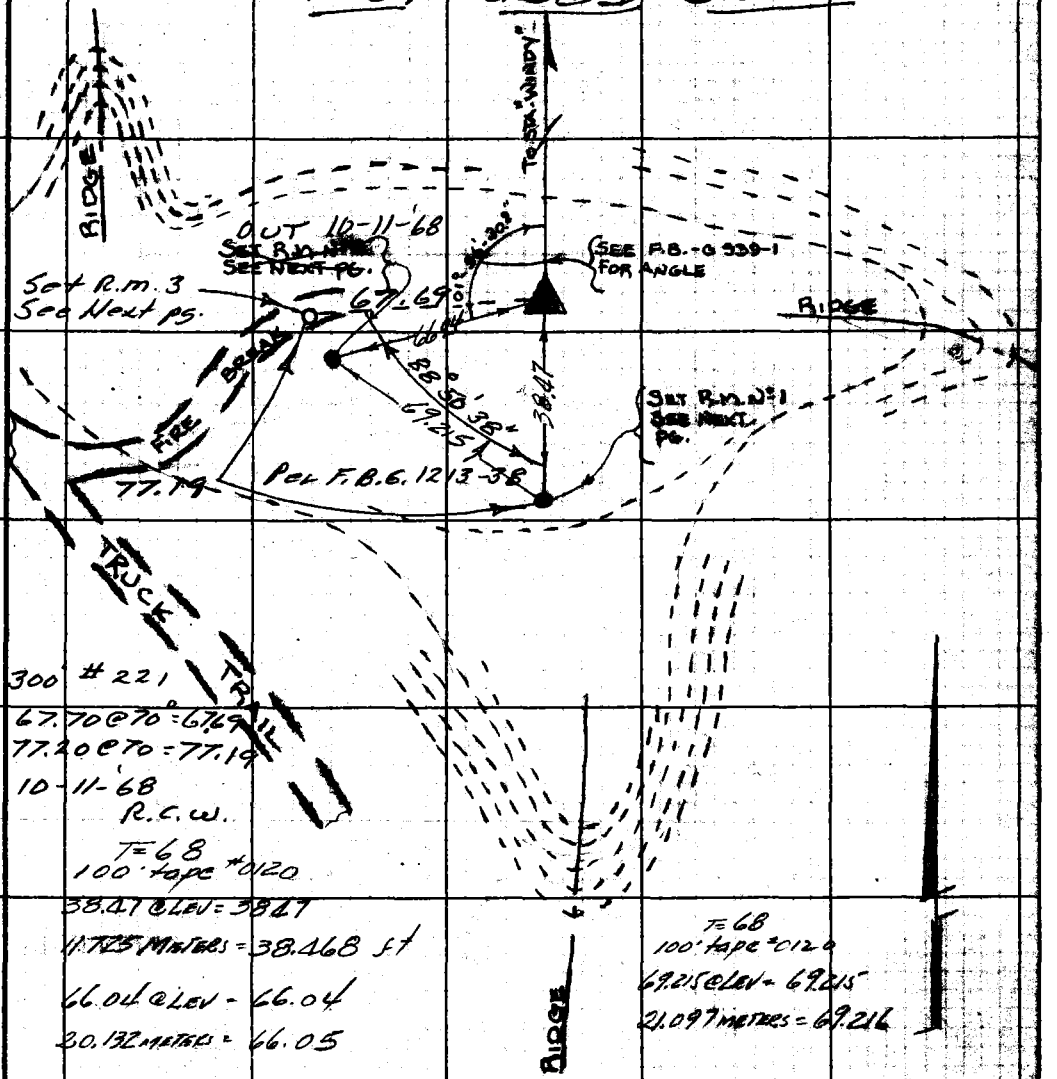
L.A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

TRAIL CANYON. D-1

~~"SNOW"~~

NOT USGS SNOW



300' #221

67.70 @ 70° = 67.69

77.20 @ 70 = 77.19

10-11-68

R.C.W.

T=68

100' tape #0120

38.47 @ LEV = 38.47

11.725 METERS = 38.468 ft

66.04 @ LEV = 66.04

20.132 METERS = 66.05

T=68

100' tape #0120

69.215 @ LEV = 69.215

21.097 METERS = 69.216

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

Do not extend notes this side of this line.

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

763098 CE #247—7-53

F.B 2457 PG. 36

DESCRIPTIONS

TRAIL CANYON D-1

THIS TRIANGULATION STATION IS IN LOS ANGELES COUNTY ON A PROMINENT RIDGE BETWEEN INDIAN CYN. & LONETREE CYN. & ABOUT 0.5 MI± S.E. OF QUAIL SPRING. IT IS LOCATED ABOUT 800'± N. OF THE S.E. COR. OF SEC. 30 T4N, R.13W.

THIS STATION CAN BE REACHED FROM THE INTERSECTION OF HWY Nº 6 & PLACERITA CYN. RD. GO ELY ALONG PLACERITA CYN. RD. TO SAND CYN. RD. THEN TURN RIGHT ON SAND CYN. RD. TRAVEL FOR 3.0 MI.± (IN THE DIRECTION OF BEAR CYN. DIVIDE) MAKE A SHARP LEFT TURN ON SANTA CLARA TRUCK TRAIL (WINDING PAVED RD.) THEN TRAVEL 6.3 MI.± BEAR RIGHT OFF OF PAV'MT. ON A DIRT. THEN TRAVEL 3.8 MI.± @ BEND IN RD. BEAR LEFT UP RIDGE FOR 0.1 MI± TO STATION.

STATION MARK: SET A STD. 4" BRASS CAP MON. MARKED "TRAIL CYN. D-1 1962 SET BY L.A. CO. ENGR. R.E. 5869 UP 8"

REFERANCE MARK #1: SET A STD. 4" BRASS CAP MON. & MARKED R.M. Nº 1 1962 SET BY L.A. CO. ENGR. R.E. 5869 UP 10" WITH ROCKS PILED AROUND IT. TANGENT TO SLEEPY VALLEY L-15 "WINDY"

REFERANCE MARK #2: SET A STD. 4" BRASS CAP MON. SAME AS R.M. Nº 1

R.M. #3 A 2½" brass County Engineer disc in a 6" conc. post up 5" & stamped "TRAIL CYN D1 R.M 3 1968 RE 5869"

10-11-68 R.C.W.

RETURN TO LOS ANGELES COUNTY ENGINEER 900 Los Angeles County Engineering Bldg.

Do not extend notes this side of this line.

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

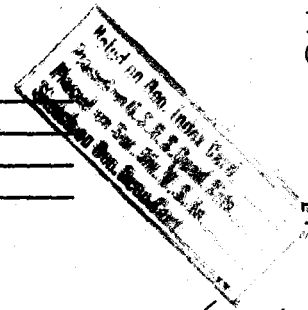
ADD. DATA ON BACK TO FIELD NOTES.

RECOVERY REPORT
DEPARTMENT OF COUNTY ENGINEER--SURVEY DIVISION

STATION NAME: TRAC CN D-1 BM ____ TRIANG. X TRAVERSE ____

FOUND STA.MARK X CONDITION: GOOD X UNCERTAIN* ____ DAMAGED ____
STA.MARK NOT FOUND ____ SEARCH: COMPLETE ____ INCOMPLETE ____ OBVIOUSLY GONE ____
STA.MARK REPLACED ____ FIELD BOOK ____ PAGE ____

STA.DESCRIPTION:
ADEQUATE
NEEDS REVISION ____
NEW MARK ____
NEW ROUTE ____
NEW TIES ____



REF.MARK NO.	1	2	3	4
CONDITION:				
GOOD	X	OUT	SET	
UNCERTAIN*				
DAMAGED				
NO SEARCH				
TIES:				
PER RECORD	38.47 Rec.			
NOT RECORD	38.475 meas			
NO CHECK				

STATION RECOVERED IN CONJUNCTION WITH:

JOB NAME: Geodetic Control

JOB NUMBER: 0301-00

CHIEF OF PARTY R. Wilson

DATE 10-10-68

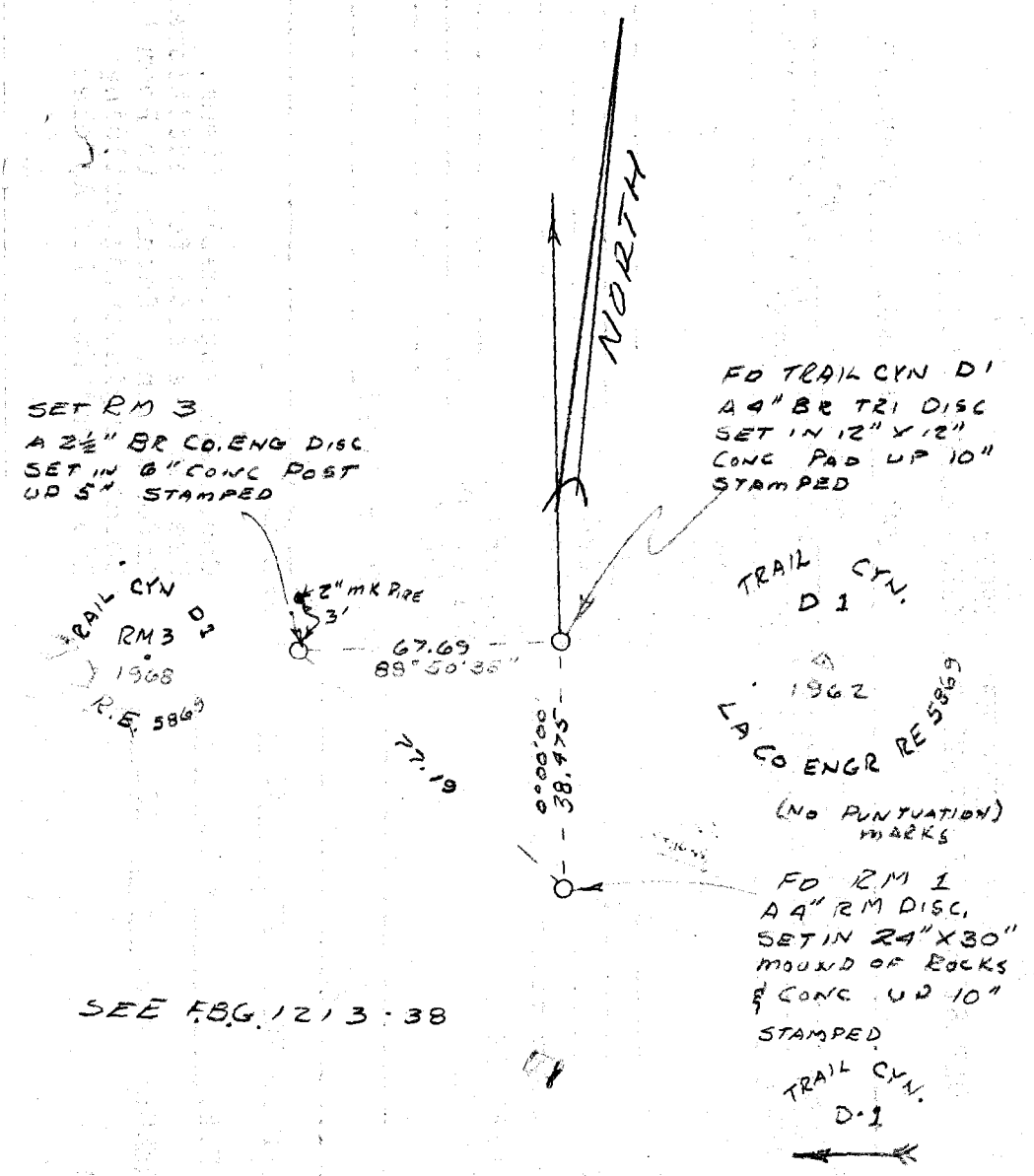
MADE SURVEY TIE TO JOB: YES ____ NO X

*EXPLAIN See Back

TIE SHOWN IN F.B. ____ PAGE ____

STATION REFERENCE: F.B 2457 PAGE 35

Check all applicable items.
Use reverse side for additional information. Return to Room 432 County Engineering Building 108 W. 2nd St., Los Angeles



SEE F.B.G. 1213-38

SUMTR # M3 T=70°

11.727 @ Lev = 38.474 = 38.474
23.530 " = 77.198 = 77.188
20.636 = 67.703 = 67.693

300' # 221

38.475 @ Lev = 38.475
77.20 " = 77.19
67.70 " = 67.69

Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 0301.00 Tape 0120 Std. 68 °F
Office Work RAW	Surveyed by A.C. GUIZADO
Checked	Notes K. MYERS Date 12-28-61
Date	Indexed E. J. GALLI OCT 4 '63

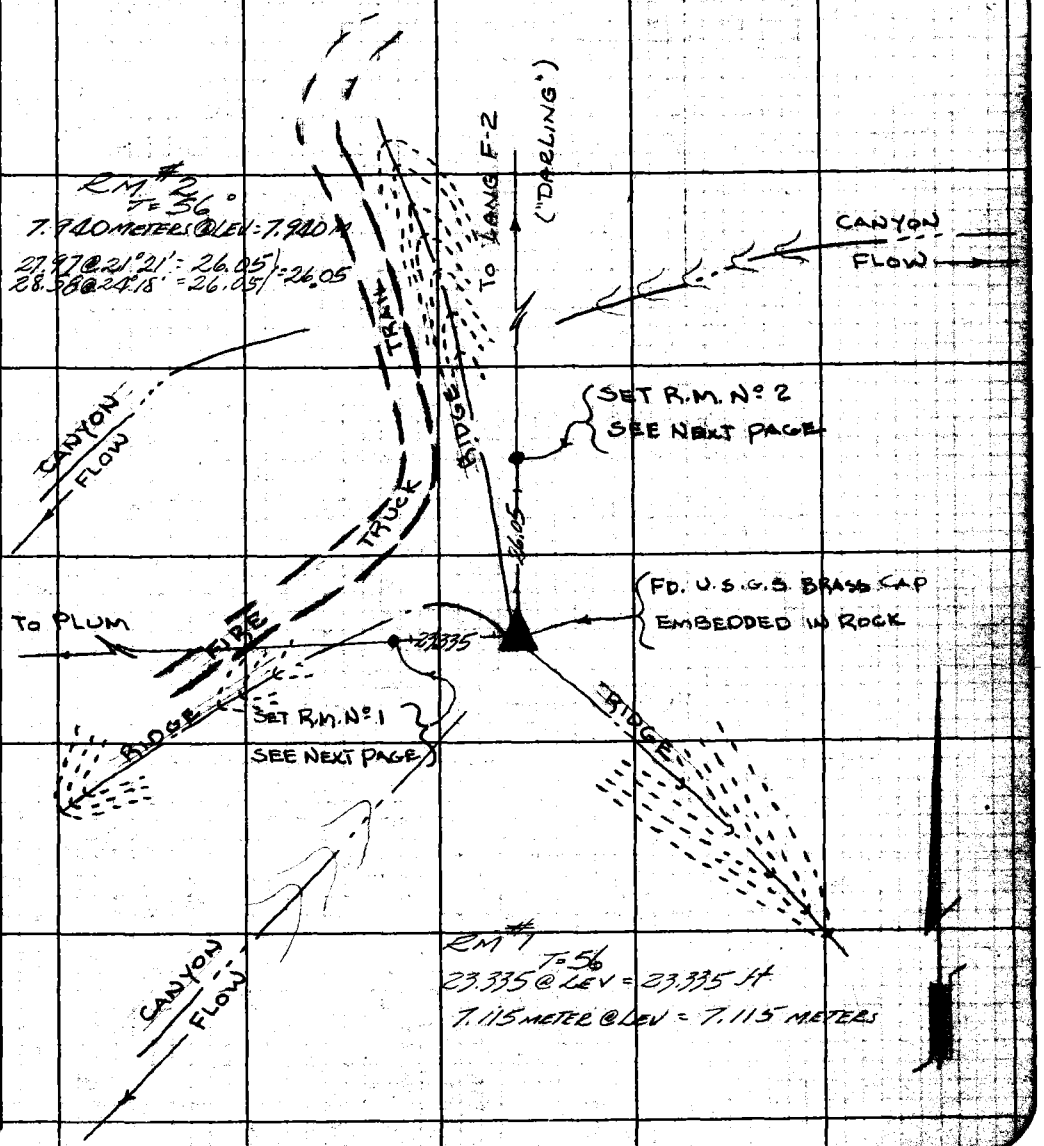
F. B 2457 PG.

LA. COUNTY SURVEY CONTROL SYSTEMS

TRIANGULATION STATION

LANG G-7

("AGUA DULCE")



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

Do not extend notes this side of this line.

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

Make Geo. Index Card
Plot U.S.G.S. Signed Site
Placement Bar. Div. W.S. No.
Sketch on Geo. Desc. Card

76309S CE #247—7-53

B.B. 2457 PG. 38

DESCRIPTIONS

LANG G-7

THIS TRIANGULATION STATION IS IN LOS ANGELES COUNTY, IT IS APROX. 2.8± MI EAST OF LANG RR. STA. & 0.5± MI. NORTH OF SOLEDAD CANYON RD. IN T4N R14W NEAR S.W. COR. OF N.W. ¼ OF SEC. 10

THIS STATION CAN BE REACHED FROM THE INTERSECTION OF SOLEDAD CANYON RD. & CALIF. U.S. HWY #6, EASTERLY ALONG SOLEDAD CANYON RD. 5.7 MI± (OLD HWY) TURN LEFT ON THE MOST EASTERLY DIRT RD. 0.3 MI.± TO A DIRT RD. TURN RIGHT 0.1 MI± TO A "Y" IN THE ROAD. BEAR LEFT ON WINDING, STEEP RD. 1.2 MI± TO TOP OF RIDGE, SHARP LEFT TURN. HENCE ALONG RIDGE IN AN EASTERLY DIRECTION 1700'± TO TOP OF KNOLL WITH SHARP RAZER BACK RIDGE TO THE SOUTH (4 WHEEL DRIVE VEHICLE COULD BE USED FOR LAST 1700') (STD. SURVEY TRUCK O.K.)

RCW 9-28-63

STATION MARK: FD. U.S.G.S. STD. B. CAP MON. MARKED: (U.S. GEOLOGICAL SURVEY - B.M.-) FLUSH

REFERANCE MARK Nº1: SET A STD. 4" BRASS CAP MON. FLUSH & STAMPED R.M. Nº1 1961 SET BY LA. COUNTY ENGR. R.E. 5869 SET ON LINE TO STA. PLUM. HUMPHREY G-5

REFERANCE MARK Nº2: SET A STD. 4" BRASS CAP SAME AS R.M. Nº1, SET ON LINE TO STA. DARLING LANG F-2

RETURN TO LOS ANGELES COUNTY ENGINEER 900 LOS ANGELES COUNTY ENGINEERING BLDG.

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Notes Ck'd by	Survey of Geodetic Control
Map No.	JN 0301.00 Tape Std. °F
Office Work	Surveyed by A.C. GUIZADO
Checked	Notes R. GLIDDEN Date 12-20-61
Date	Indexed [illegible] J. GAIN DEC 10 63

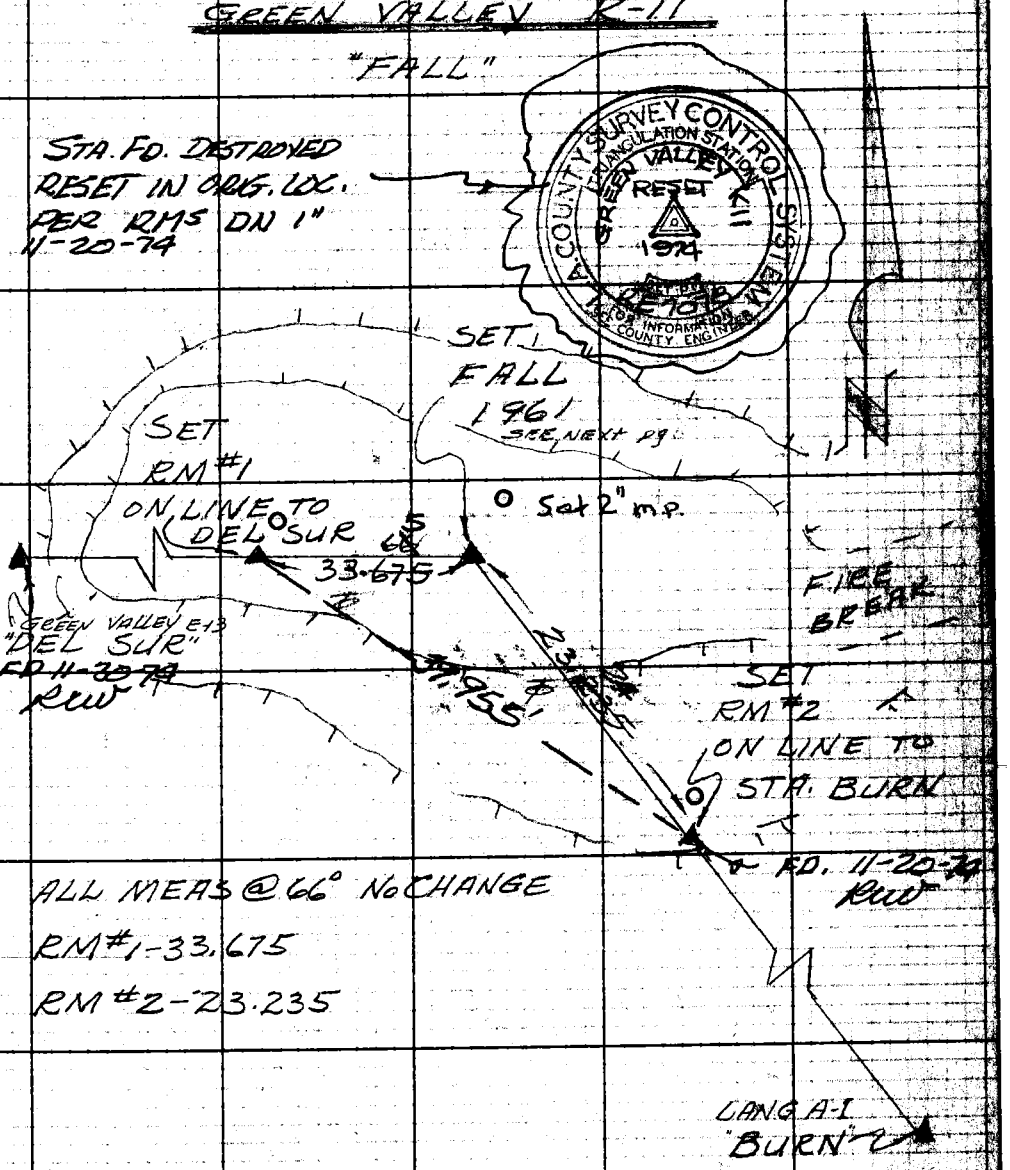
F.B. 2457 Pg. 39

L.A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

GREEN VALLEY K-11

"FALL"



ALL MEAS @ 66° NO CHANGE

RM #1 - 33.675

RM #2 - 23.235

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

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

76F3098 CE #247—3-67

F.B. 2457 PG. ~~37~~ 40

DESCRIPTIONS

THIS TRIANGULATION STATION IS IN LOS ANGELES COUNTY. ON A RIDGE LYING IN A SWLY DIRECTION APPROX 0.3 MI± E. OF MYSTIC CYN., 0.7 MI± W. OF FALL CYN. & 1.8 MI± N. OF TEXAS CYN. IN THE N.W. COR. OF SECTION 12, T5N, R14W.

TO REACH THIS STATION STARTING AT THE JUNCTION OF BOQUET & SOLEDAD CANYON RD'S HENCE N'LY ON BOQUET CYN. RD. 9.5 MI.± TO ROCK QUARRY ON LEFT SIDE OF RD, TURN RIGHT OR E'LY, ASCENDING ON WINDING DIRT RD. 1.7 MI± TO SHARP LEFT TURN IN SADDLE. THENCE 2.8 MI± TO SADDLE, TURN RIGHT ON FIRE BREAK. THENCE 1.1 MI± ALONG FIRE BREAK TO TOP OF KNOLL AND STA. FALL.

~~STATION MARK: SET A STD. 4" BRASS CAP MON. MARKED FALL 1961 SET BY L.A. CO. ENGR. R.E. 5869 UP 8"~~

REFERANCE MARK Nº1: SET STD. 4" BRASS CAP MON. MARKED R.M. #1 SET BY L.A. CO. ENGR. R.E. 5869, 1961 UP 8" SET ON LINE TO STA. DEL SUR. GREEN VALLEY E-13

REFERANCE MARK Nº2: SET STD 4" BRASS CAP MON. SAME AS R.M. Nº1. SET ON LINE TO STA. BURN. LANG A-1

STATION MARK:
A 4" L.A. CO. SUR. CONT. SYS. BRASS TRIANG. STA. DISC STAMPED "GREEN VALLEY K11 RESET 1974 RE 7078" SET IN A 6" CONC. POST DN 1".
RWC 11-20-74

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

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Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 0301.0 Tape 0120 Std. 68 °F
Office Work	Surveyed by A.C. GUIZADO
Checked	Notes R. GLIDDEN Date 12-20-61
Date	Indexed E. J. GALLI OCT 4 '88

F.B. 2457 Pg. 41

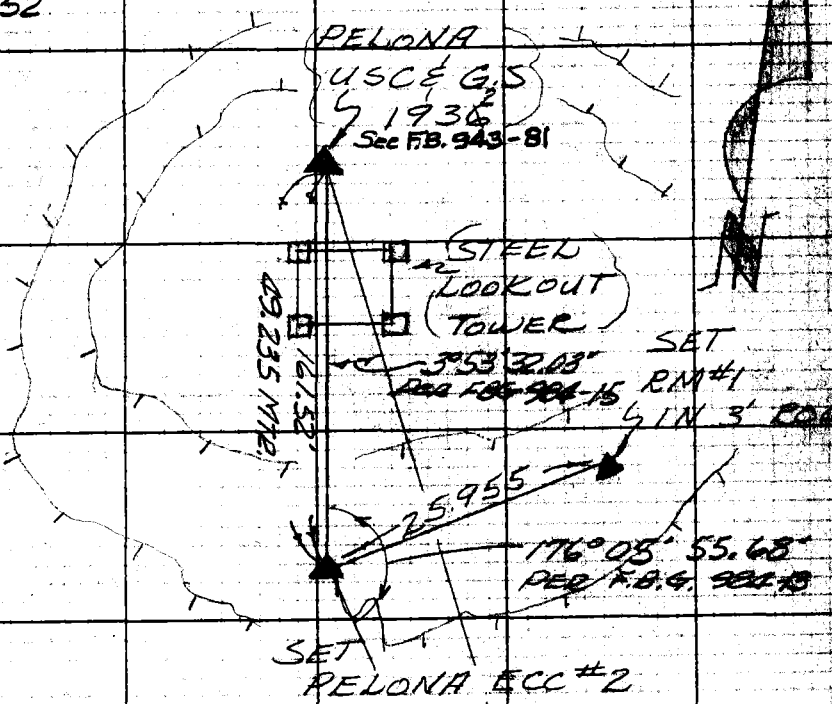
LA COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

PELONA ECC #2

88.48 @ L @ 59°
42.31 @ L "
30.74 @ L "
161.53
− 01
161.52'

~~BOUQUET RES. F-5~~
~~BOUQUET RES. F-5 ECC 2~~
SLEEPY VALLEY C-8
See Pg 43 &
SLEEPY VALLEY C-8 ECC #2



ALL MEAS. @ 59°
26.969 MTR
12.894 "
9.373 "
49.238 = 161.54' @ 59 = 161.53'
161.53' = 49.235 MTR.

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

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

76F3098 CE #247—8-57

F.B. 2457 PG. 42

DESCRIPTIONS

THIS TRIANGULATION STATION IS IN LOS ANGELES COUNTY, 14 MI. WEST AND 1.5 MI. SOUTH OF PALMDALE, ON MOST WESTERLY HIGH POINT OF SIERRA PELONA MOUNTAIN RANGE. ABOUT 3 MI. WEST OF HEAD OF MINT CANYON, AND 2 MI. WEST OF WHERE FOREST SERVICE TRAIL FROM MINT CANYON TO BOQUET CANYON CROSSES SUMMIT OF THE RANGE. T6N, R14W, APPARENTLY IN THE SOUTHWEST QUARTER OF SECTION 34.

TO REACH THIS STATION GO FROM THE STORE AT LAKE HUGHES. GO E. ON THE PAVED HWY KNOWN AS PINE CYN. RD. FOR 4.4 MI. TURN RIGHT(S) AT SAN FRANCISQUITO CYN. RD. AND GO 3.5 MI. TO A JUNCTION WITH SPUNKY CYN. RD. AT THE STORE OF O.P. SMITH, AT EL VERDE, TURN LEFT AND GO 5.2 MI. TO BOQUET CYN. RD., TURN LEFT AND GO 0.7 MI., TAKE RIGHT FORK AND GO 1.0 MI. TO A FORK THAT LEADS [illegible] TO THE RIGHT IN AN ANGLE OF 170°, GO 0.7 MI. TO A CLOSED GATE (NOT LOCKED); CONTINUE ON THE SAME RD. FOR 2.5 MI. TO A LOCKED GATE (FOREST SERVICE), GO 2.8 MI. TO THE TOP OF A RIDGE, TAKE RIGHT FORK AND GO 0.6 MI., LEAVE THE RD. AT THIS POINT, AND GO LEFT FOR 0.2 MI. UP THE RIDGE TO THE STATION. TRUCK CAN BE DRIVEN TO HIGHEST POINT OF THE SIERRA PELONA. ECC #2 JUST S. OF STA. PELONA.

STATION MARK: SET A STD. 4" BRASS CAP MON. MARKED PELONA ECC. #2 1961 SET BY LA. CO. ENGR. R.E. 5869 UP 8"

REFERANCE MARK Nº1: SET STD. 4" BRASS CAP CEMENTED IN ROCK APPROX. 3' IN DIA. MARKED R.M. Nº1 1961 SET BY L.A. CO. ENGR. R.E. 5869 UP 6"

REFERANCE MARK Nº2: FD. STD. 4" BRASS TABLET (USGS) SET IN A 6" POST FLUSH WITH GROUND SURFACE. MARKED "LIMT PELONA.

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

Survey of GEODETIC CONTROL
JN 0000.00 Tape 0193 Std. 68 °F
Surveyed by AC GUIEMDO
Notes ACG Date 1/27/64
Indexed R. J. GALLI FEB 5 '64

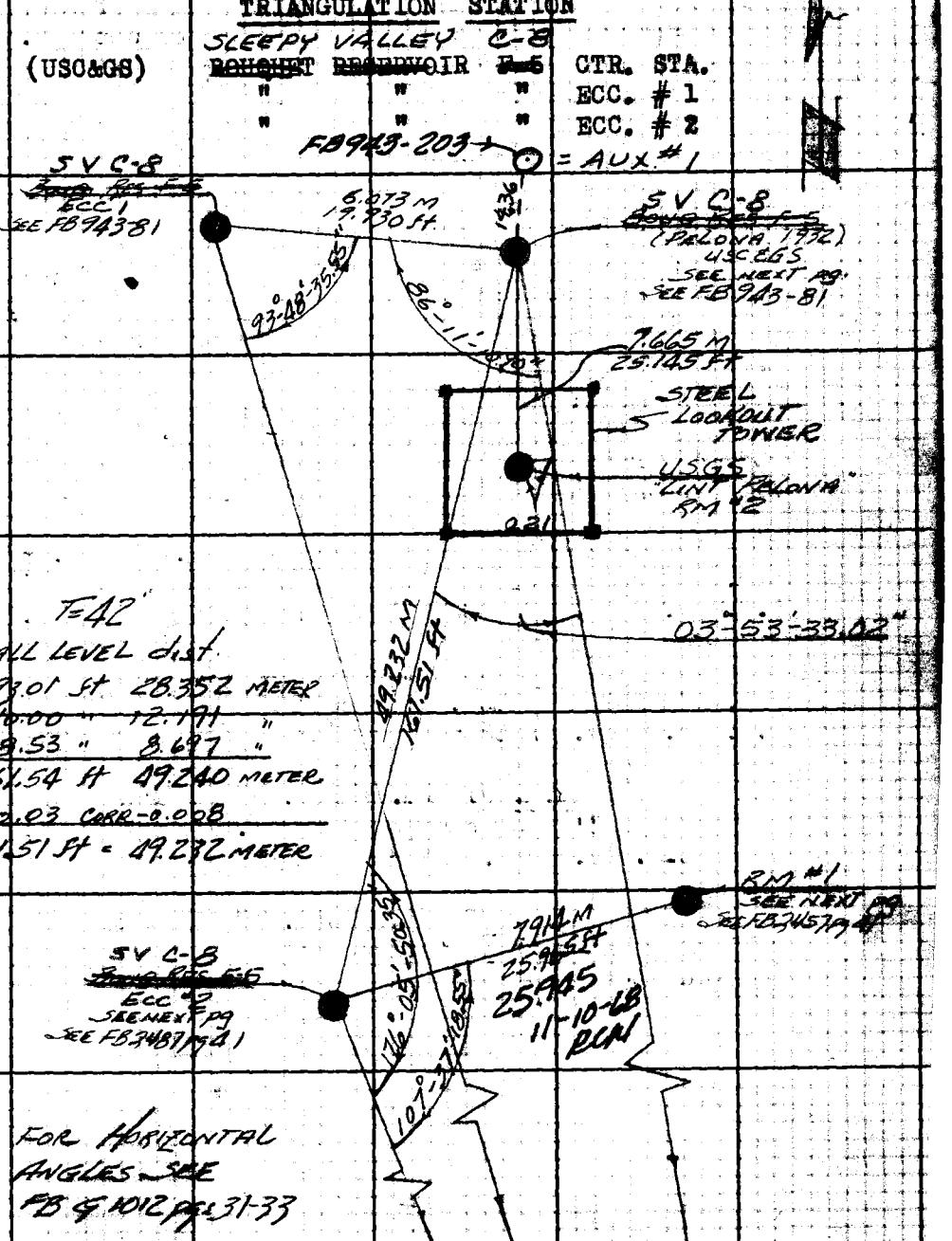
F. B. 2457 PG. 33

LOS ANGELES COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

SLEEPY VALLEY C-8

(USC&GS) ~~BONQUET RESERVOIR~~ ~~T-5~~ CTR. STA.
" " " ECC. # 1
" " " ECC. # 2



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PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

Place on Geo. Index Card
U.S.C.&G.S. Quad. Sht.
Place on Sur. Div. # S. No.
sketch on Geo. Desc. Card

70F3095 CE #310 6-62

F.B. 2457 PG. 44

Descriptions

This triangulation station is in Los Angeles County, 14 mi., west and 1.5 mi. south of Palmdale, on most westerly high point of Sierra Pelona mtn. range, about 3 mi west of head of Mint Cyn and 2 mi west of where forest service trail from Mint Cyn. to Bouquet cyn. crosses summit of range. T6N R14W approx in the southwest quarter of section 34

To reach this station----See FB 943 pg 81
FB2457 pg 42

Station marks: SLEEPY VALLEY C-8
~~Bouquet Reservoir F-5~~ Fd. a USC&GS std. 4" brass tablet stamped "PELONA 1932" flush with ground in a 10" concrete square.

SLEEPY VALLEY C-8
~~Bouquet Reservoir F-5~~ Ecc. #1 Fd. a std. 4" brass tablet stamped ""PELONA"ECC. #1 1961 L.A. Co. Engr. RE 5869" flush with ground surface.

SLEEPY VALLEY C-8
~~Bouquet Reservoir F-5 Ecc.~~ #2 Fd. a std. 4" brass cap mon. stamped "PELONA ECC. #2 1961 L.A. Co. Engr. RE 5869" in a 12" concrete square, up 8"

R.M. #1 Fd. a std. 4" RM brass cap cemented in 3' rock stamped " RM 1 PELONA ECC. #2 1961 L.A. Co. Engr. RE5869" Rock up 6"

R.M. #2 Fd. a std. 4" USGS brass tablet set in a 6" post flush with ground surface stamped "Lint Pelona"

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#1-#2 TO GUIZ.

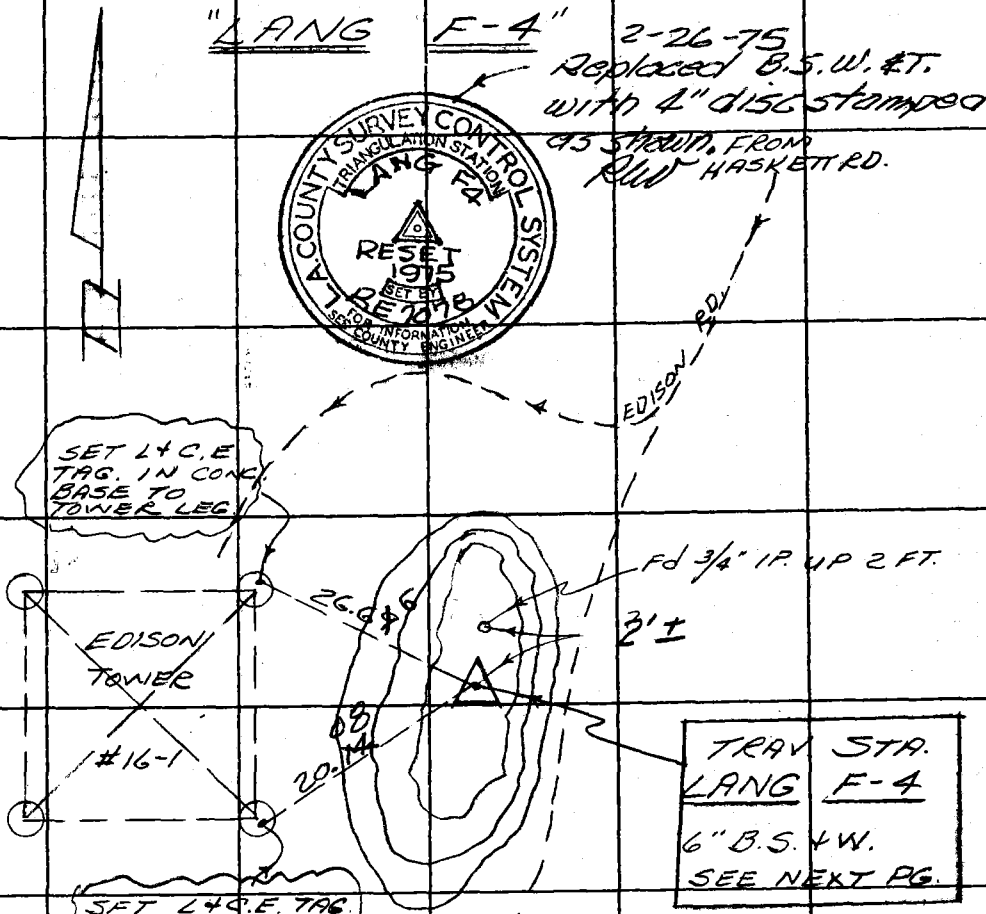
Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 0301.00 Tape Std °F
Office Work	Surveyed by R. WILSON
Checked	Notes J. BAZEN Date 8-25-63
Date	Indexed G. J. GALLI 1964 '63

F. B. 2457 Pg. 45

Noted on Geo. Index Card
Placed on S.G.S. Quad. Sht.
Placed on Geo. Div. W.S. Bd.
Sketch on Geo. Desc. Card

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
"LANG F-4"

2-26-75
Replaced B.S.W. & T. with 4" disc stamped as shown. FROM HASKETT RD.
RWW



T=68°
① 30.30 @ 28°15' = 26.69
② 29.77 @ 26°17' = 26.70
T=68°
① 26.62 @ 40°50' = 20.14
② 25.76 @ 38°33' = 20.15

SLANT MEAS. @ 68° T
29.43 (de=12.47) = 26.66
25.37 (de=15.50) = 20.08
de = diff. in elevation.
RWW 2-26-75

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE # 310 3-61

F. B. 2457 PG. 46

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION

LANG F-4

THIS STATION IS IN THE COUNTY OF LOS ANGELES IN THE LANG QUAD NEAR THE AGUA DULCE CANYON AREA & IS IN THE NLY PORTION OF SEC 4 OF R14W-T4N. ON TOP OF LARGE OUTCROP OF ROCKS NEAR TRANS. TOWER. THIS STA. CAN BE REACHED BY TRAVELING N'LY ON U.S. HWY. 6 FROM SOLEDAD CANYON ROAD, TO DAVENPORT RD, TURN RT. & TRAVEL E'LY 2.6 MI. TO HASKETT RD, TURN RT. & TRAVEL 0.35 MI. TO END OF PAVMT., TURN RT. & TRAVEL 0.1 MI. THEN TURN LT., TRAVEL 0.4 TURN SHARP RT., TRAVEL 0.45 TURN SHARP LEFT & PROCEED 0.1 MI. TO TOWER.

STATION MARK

SET A LG. B.S.W&T IN LG. ROCK & STAMPED WASHER "LANG - F-4"

REFERENCE MARKS

NONE SET OTHER THAN L&TAG.
TIES AS SHOWN ON PRECEEDING PG.

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403 Los Angeles County Engineering Bldg.
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Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN0301.00 Tape 0120 Std 68 °F
Office Work	Surveyed by A.C. GUIZADO
Checked	Notes K. MYERS Date 4-24-62
Date	Indexed E. J. GALLI OCT 4 '62

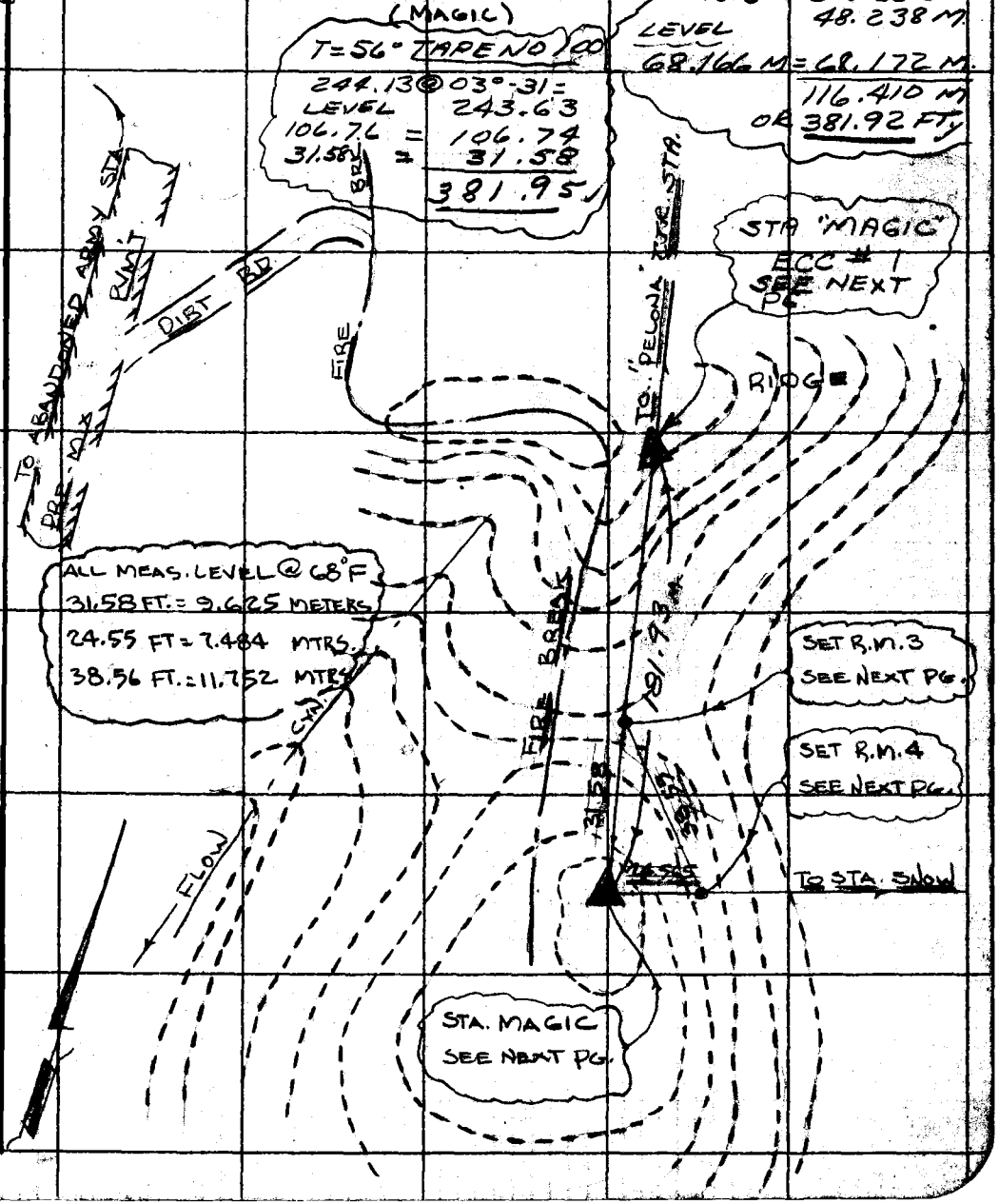
F. B. 2457 PG. 47

L.A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

LITTLE TUJUNGA J-2

(MAGIC)



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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3095 CE # 310 3-61

F. B. 2457 PG. 48

DISCRIPTIONS

TRIANGULATION STATION

LITTLE TUJUNGA J-2

(MAGIC)

THIS TRIANGULATION STATION IS IN LOS ANGELES CO. ABOUT 12 MILES EAST OF NEWHALL. IT IS ON THE MOST SOUTHERN SUMMIT OF MAGIC MTN & ABOUT 0.5 MI. EAST OF BATTERY B OF U.S. ARMY ARTILLERY ADC INSTALLATION (R14W - T4N) APPROX IN THE CTR OF SEC. 35. THIS STATION CAN BE REACHED BY TRAVELING S'LY FROM THE INTERSECTION OF SAND CN RD. + PLACERITA CN RD. 6.9 MI. TO PAVED RD ON THE LEFT, TURN LEFT + PROCEED E'LY 6.9 MI. TO CHAIN LINK GATE. TURN LEFT THROUGH GATE + PROCEED N'LY 0.3 MI TO TOP OF RIDGE TURN RT ONTO DIRT ROAD + PROCEED ALONG SAME 0.3 MI TO FIRE BRK. TURN RT + PROCEED 0.3 M. TO STA.

Per New Route See Recovery Report Dated 10-7-65

STATION MARK:

FD. A STD. U.S.C. + G.S. 4" BRASS CAP TRIAN. MON. SET IN CONC FLUSH + STAMPED, "MAGIC" 1958."

"MAGIC" ECC. #1 - SET A STD. 4" BRASS CAP TRIAN. MON IN CONC. UP 3" + STAMPED "MAGIC ECC. 1, LITTLE TUJUNGA J-2 1963 R.E. 5869" + PROTECTED WITH YELLOW M. PIPE.

REFERENCE MARKS:

R.M.S. No's. 1 + 2 HAVE BEEN DESTROYED

R.M #3 - SET A STD. 4" BRASS CAP R.M. MON IN CONC. UP 2" + STAMPED, "MAGIC R.M 3., L.A. CO. ENGR 1962 R.E. 5869."

R.M. #4 - SAME EXCEPT R.M. #4.

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Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 0301.09 Tape 0137 Std 68 °F
Office Work RCW	Surveyed by R. WILSON
Checked	Notes J. BAZEN Date 8-23-63
Date	Indexed C. J. GALLI OCT 4 '63

F. B. 2497 PG. 49

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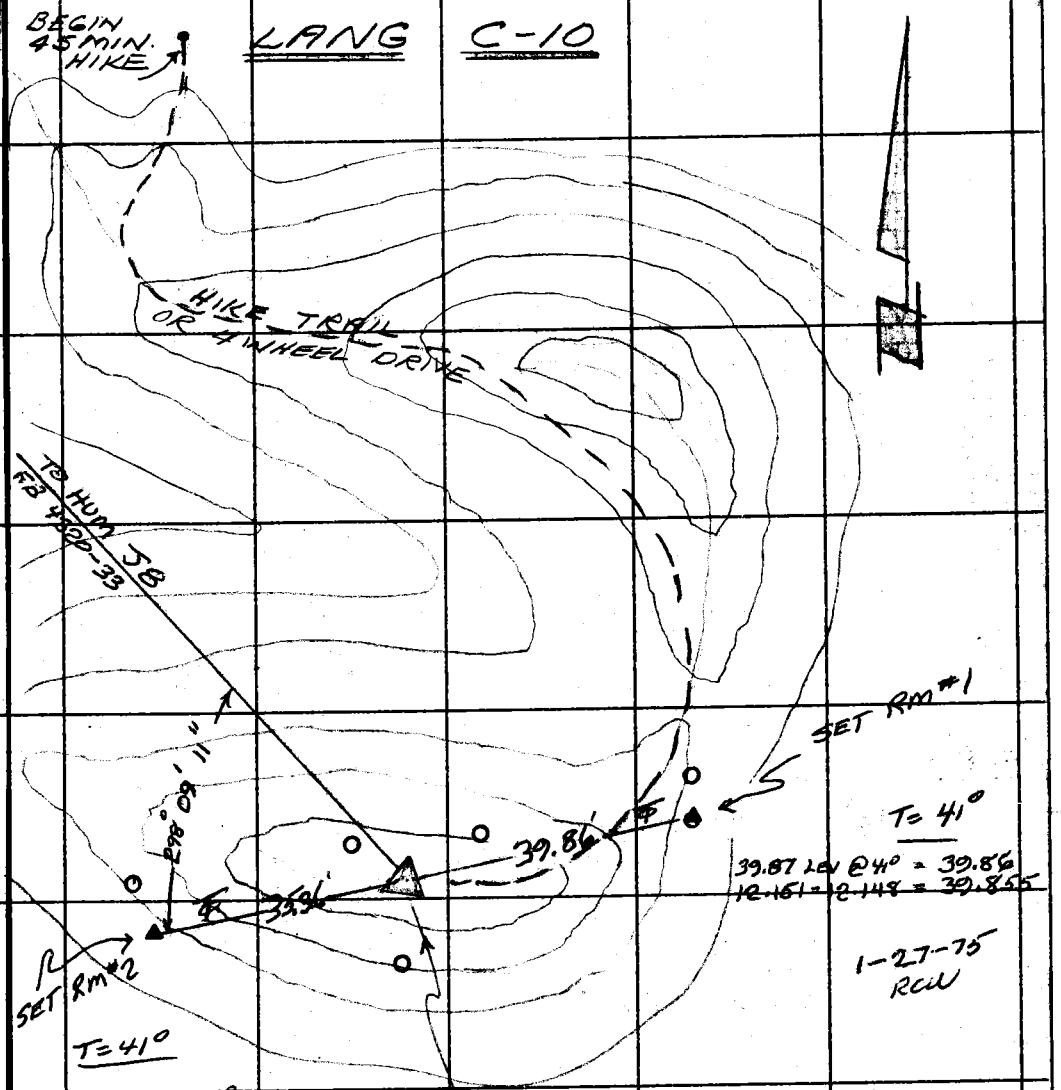
403 LOS ANGELES COUNTY ENGINEERING BLDG.

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LANG C-10



39.87 LEV @ 41° = 39.86
12.151 = 12.148 = 39.855

1-27-75
RCW

35.37 LEV @ 41° = 35.36
10.781 = 10.778 = 35.36

TRIANG. STA.
LANG C-10

DIRECTIONS PER FBG 1380-42 SEE NEXT PG.

O = 2" MP 300' TAPE # 139 50M TAPE # M3

76F309S CE # 310 3-61

F. B. 2457 PG. 50

L.A COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LANG C-10

THIS STATION IS IN THE CO. OF LOS ANGELES IN THE SOLEDAD CN. AREA. N.E. 1/4 OF SEC 19 R14W - T4N + ON A HIGH HILL OVERLOOKING THE NEW ANTELOPE FREEWAY. + IS 1 MI± SOUTH OF FREEWAY. THIS STA. CAN BE REACHED BY TRAVELING E'LY FROM U.S. HWY 6 ON SOLEDAD CANYON ROAD TO LANG STA. RD. TURN RT + TRAVEL 0.3 MI., TURN RT AFTER CROSSING R.R. TRACK + FOLLOW DIRT RD S.W'LY ALONG TRACK ALWAYS BEARING LEFT ABOUT 0.7 MI TO END OF DIRT RD. @ BASE OF FIRE BREAK. PROCEED S'LY ON FOOT TO STA.

STATION MARK

SET A STD. 4" PRECAST TRIANG. MON IN CONC. + UP 6" + STAMPED "LANG C-10 1963 L.A. CO. ENGR. R.E. 5869."

REFERENCE MARK

NOTHING SET

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403 Los Angeles County Engineering Bldg.
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Notes Ck'd by
Map No.
Office Work
Checked
Date

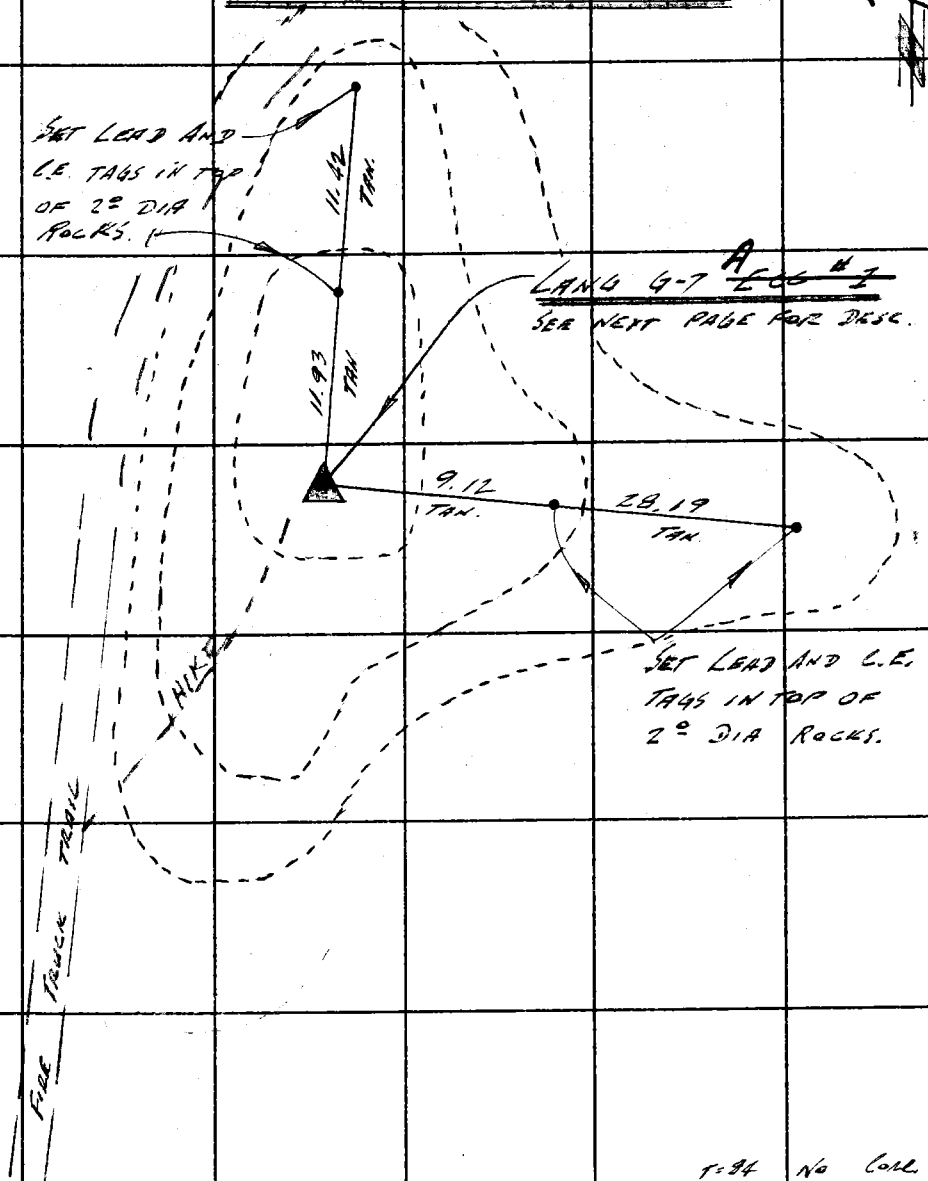
Survey of GEODETIC CONTROL
JN 030100 Tape 141 Std 84 °F
Surveyed by C.L. LIND
Notes LIND Date 8-13-63
Indexed ~~C. J. GALLI~~ ~~C. J. GALLI~~ OCT 4 '63

F. B. 2457 PG. 51

L.A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

LANG G-7 A ~~ECC. #1~~



T=94 No Cont.

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

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3085 CE # 310 3-61

F. B. 2457 PG. 52

DESCRIPTIONS

"A"

LANG G-7 ~~ECC. #1~~

THIS TRIANGULATION STATION IS IN LOS ANGELES COUNTY. ± 2° MI. EAST OF LANG R.R. STATION AND ± 0.5 MI. NORTH OF SOLEDAD CANYON ROAD. THIS STATION CAN BE REACHED FROM THE INTERSECTION OF SOLEDAD CANYON ROAD. AND CALIF. U.S. HIGHWAY 6, EASTERLY ALONG SOLEDAD CYN. ROAD. 5.7 MILES (OLD ROAD) TURN LEFT ON THE MOST EASTERLY DIRT ROAD 0.3 ± MILE TO A DIRT ROAD. TURN RIGHT 0.1 MILE TO A "Y" IN THE ROAD. BEAR LEFT ON WINDING STEEP RD 1.2 MILES TO TOP OF RIDGE SHARP LFT HENCE ALONG RIDGE IN A NORTH EASTERLY DIRECTION ± 2700 FEET TO THE TOP OF A KNOLL. THIS STATION IS APPROX. 1000 FEET N-ELY OF ~~THE CENTER STATION~~ LANG G-7 (AGUA DULCE).

T4N R14W SEC 10 (~~15 MIN. HIKE~~) 3 MIN. HIKE

STATION MARK

SET A STD L.A. COUNTY ENGRS. BRASS TRAVERSE DISK STAMPED, LANG G-7A ~~(AGUA DULCE)~~ ~~ECC. #1~~ L.A. CO ENGR. RE5869 1963, IN THE TOP OF A 2° DIA. ROCK 6" ABOVE GROUND LEVEL.

OBLITERATED STAMPINGS LINDOUT AND ADDED A 5-24-65 "G.E.D"

REFERENCE MARKS.

SEE LEAD AND TAG TIES ON PRECEEDING PAGE.

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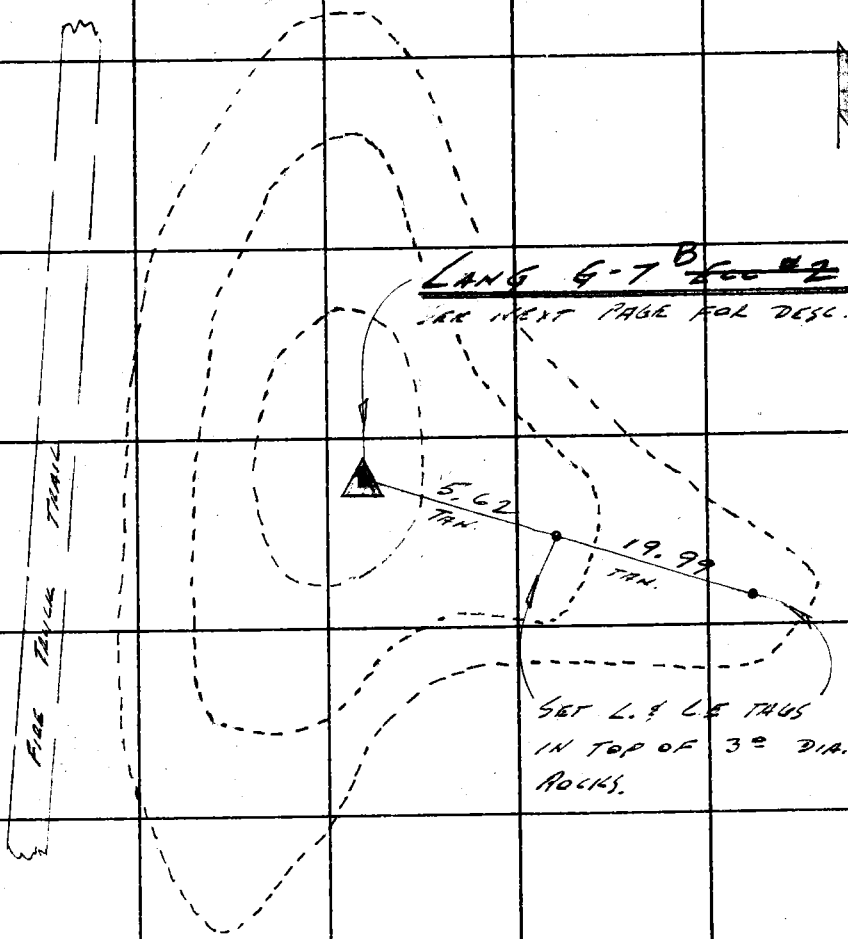
Notes Ck'd by	Survey of GEODETIC CONTROL	F. B. 2457 PG. 53
Map No.	JN 0301.00 Tape 141 Std 84 °F	
Office Work	Surveyed by C.K. LIND	
Checked	Notes LIND Date 8-23-63	
Date	Indexed C. J. GALLI OCT 4 '63	

LA COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

LANG 6-7B ~~ELC #2~~



T=84 1/0 CORR.

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

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

76F309S CE # 310 3-61

F. B. 2457 PG 54

DESCRIPTIONS

LANG G-7 B ~~ELL. # 2~~

THIS TRIANGULATION STATION IS IN LOS ANGELES COUNTY APPROX. 2° MILES EAST OF LANG R.R. STATION AND ± 0.5 MILE NORTH OF SOLEDAD CANYON RD. T4N R14W SEC 10

THIS STATION CAN BE REACHED FROM THE INTERSECTION OF SOLEDAD CYN. RD. AND CALIF. U.S. HWY. # 6, ELY ALONG SOLEDAD CYN. RD. 5.7 MILES (OLD ROAD) TURN LEFT ON THE MOST ELY. DIRT ROAD 0.3 MILE TO A DIRT ROAD TURN RIGHT 0.1 MILE TO A "Y" IN THE ROAD BEAR LEFT ON WINDING STEEP ROAD 1.2 MILES TO TOP OF RIDGE. HENCE ALONG RIDGE IN A S.W.LY DIRECTION ± 1000 FEET TO THE TOP OF A HIGHEST KNOLL. (5 MIN. HIKE)? 50 FT.

STATION MARK

FOUND A 1" STEEL ROD WITH A "△" STAMPED IN ITS TOP, DN 3" NO REF.

REFERENCE MARKS.

SEE L.& TAG TIES ON PRECEEDING PAGE.

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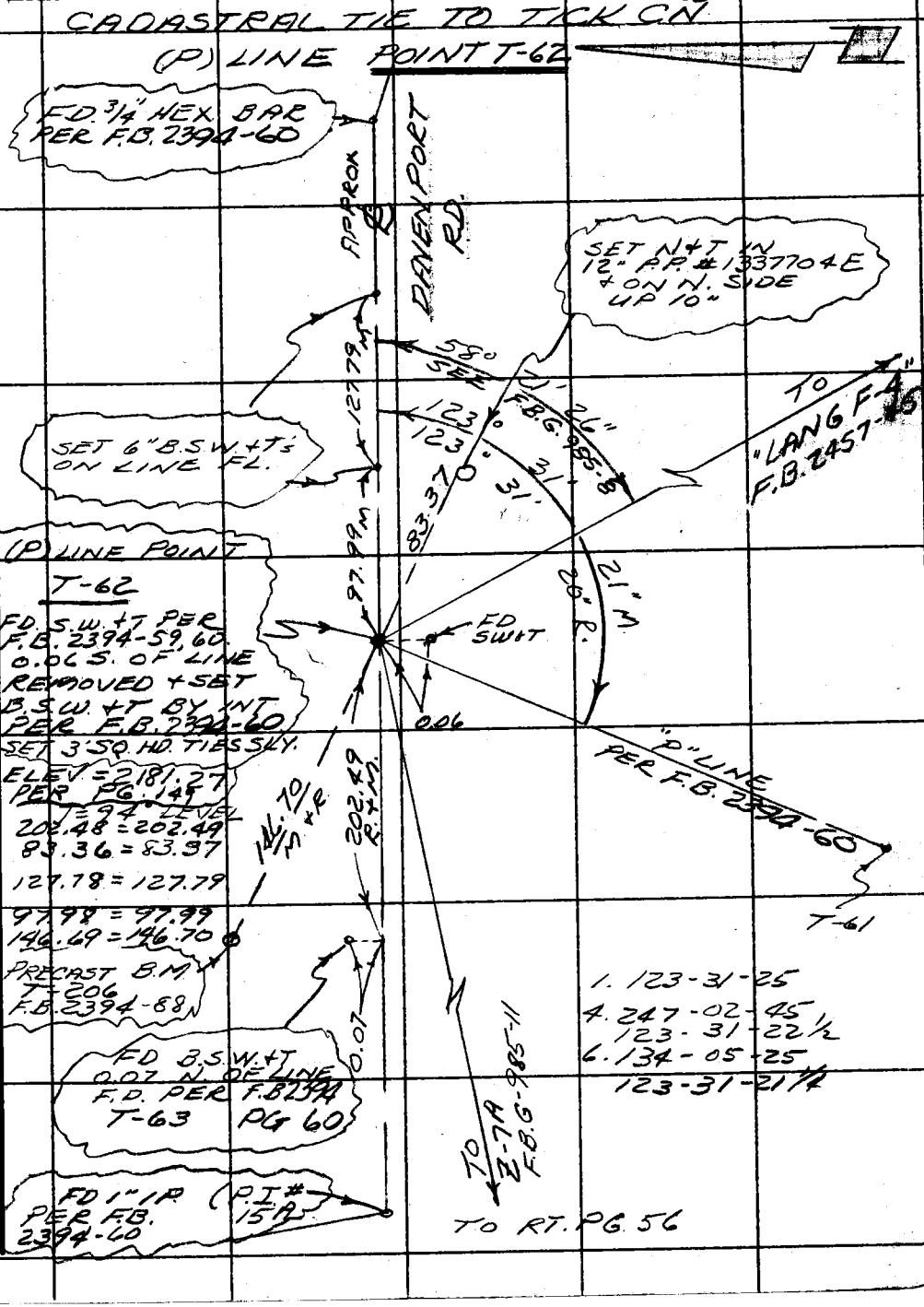
Notes Ck'd by	Survey of CADASTRAL TIES	F. B. 2457 PG. 55
Map No.	JN 020200 Tape 100 Std. 84 °F	
Office Work	Surveyed by R.C. WILSON	
Checked	Notes J. BAZEN Date 9-11-63	
Date	Indexed C. J. GALLI OCT 4 '63	

CADASTRAL TIE TO TICK CÑ



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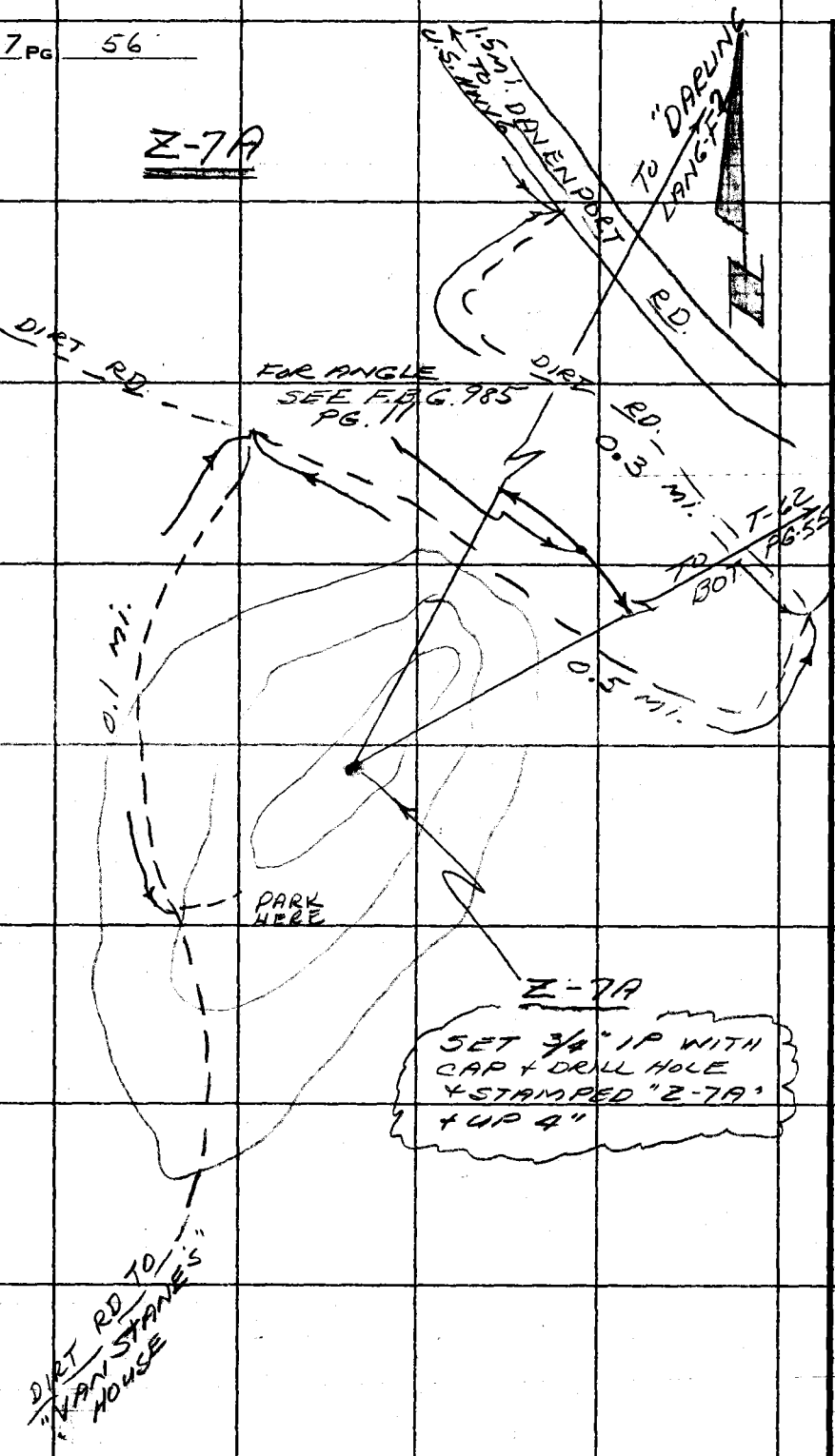
76F309S CE # 310 3-61

F. B. 2457 PG 56

Z-7A



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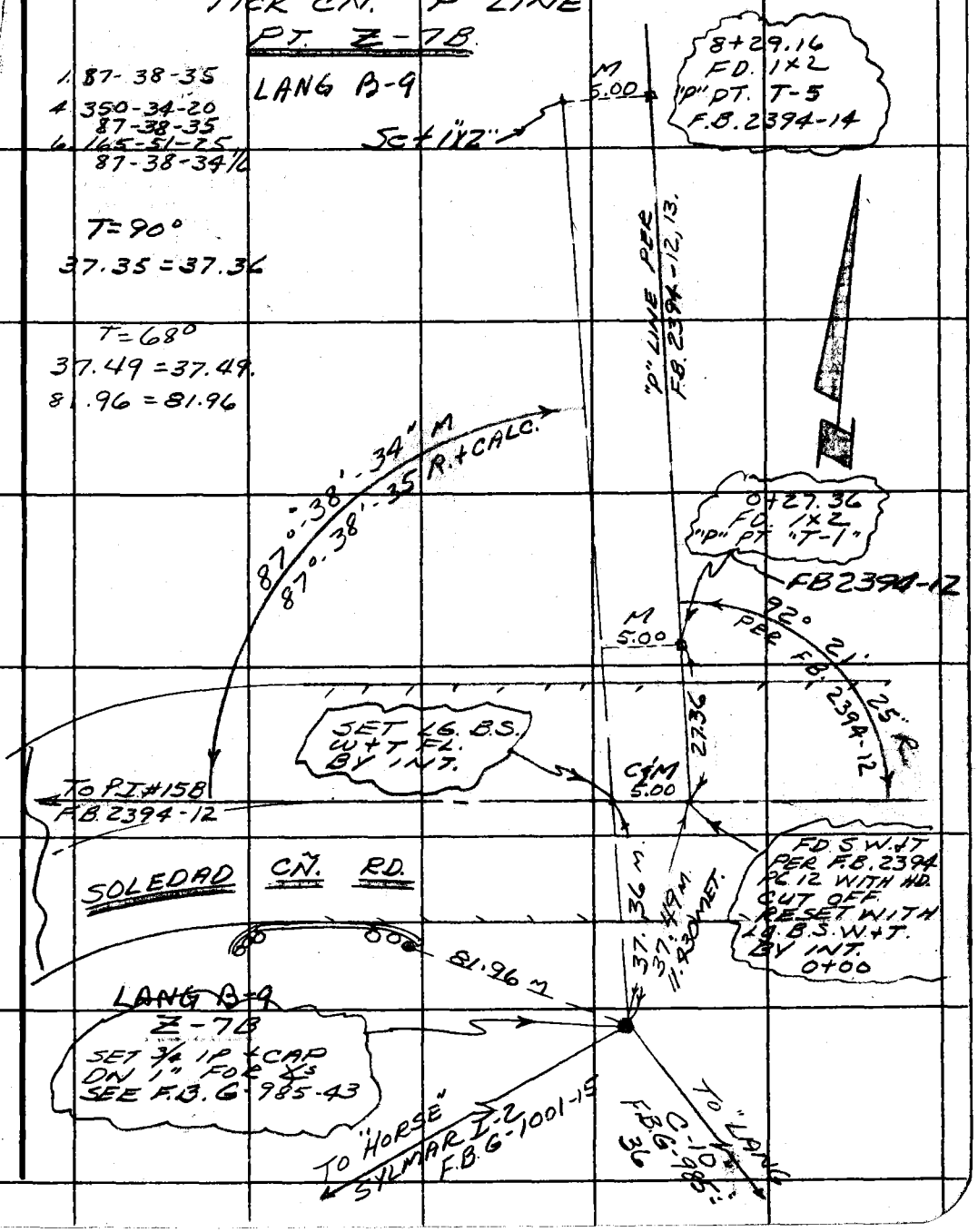
Notes Ck'd by	Survey of CADASTRAL TIES	F. B. 2457 PG. 57
Map No.	JN 0202.00 Tape 0137 Std 68 °F	
Office Work	Surveyed by R.C. WILSON	
Checked	Notes J. BAZEN Date 9-12-63	
Date	Indexed E. J. GALLI	



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76F3095 CE # 310 3-61

F. B. 2457 PG 58

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Notes Ck'd by	Survey of CADASTRAL TIES
Map No.	JN 0202.00 Tape 0137 Std 68 °F
Office Work	Surveyed by WILSON, R.C.
Checked	Notes J. BAZEN Date 9-11-63
Date	Indexed C. J. GALLI

F. B 2457 PG. 59

Indexed on Back of Index Card ✓
Plotted on ... Quad Sht.
Plotted on ... Map, U.S. No.
Sketch on Back, Index Card

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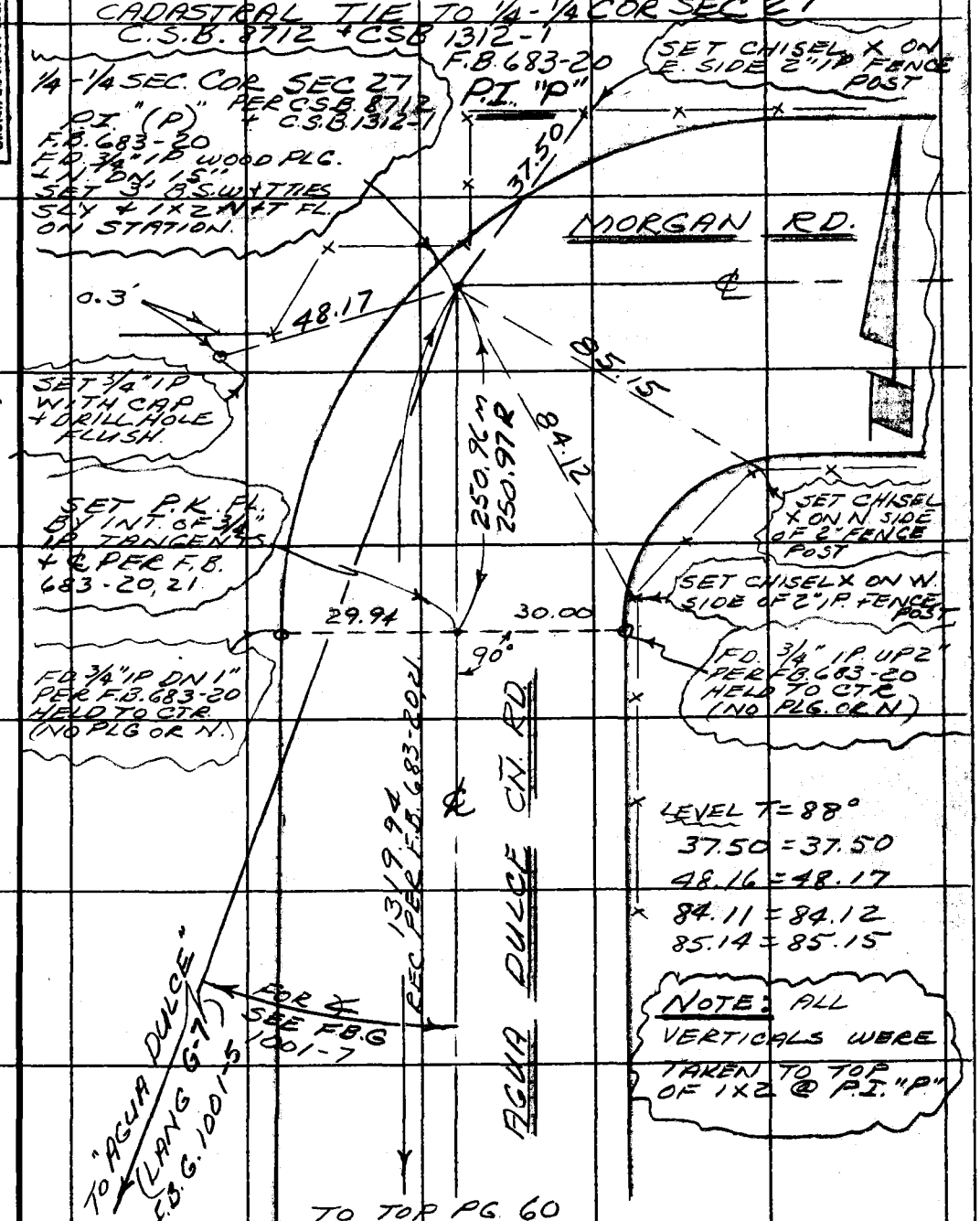
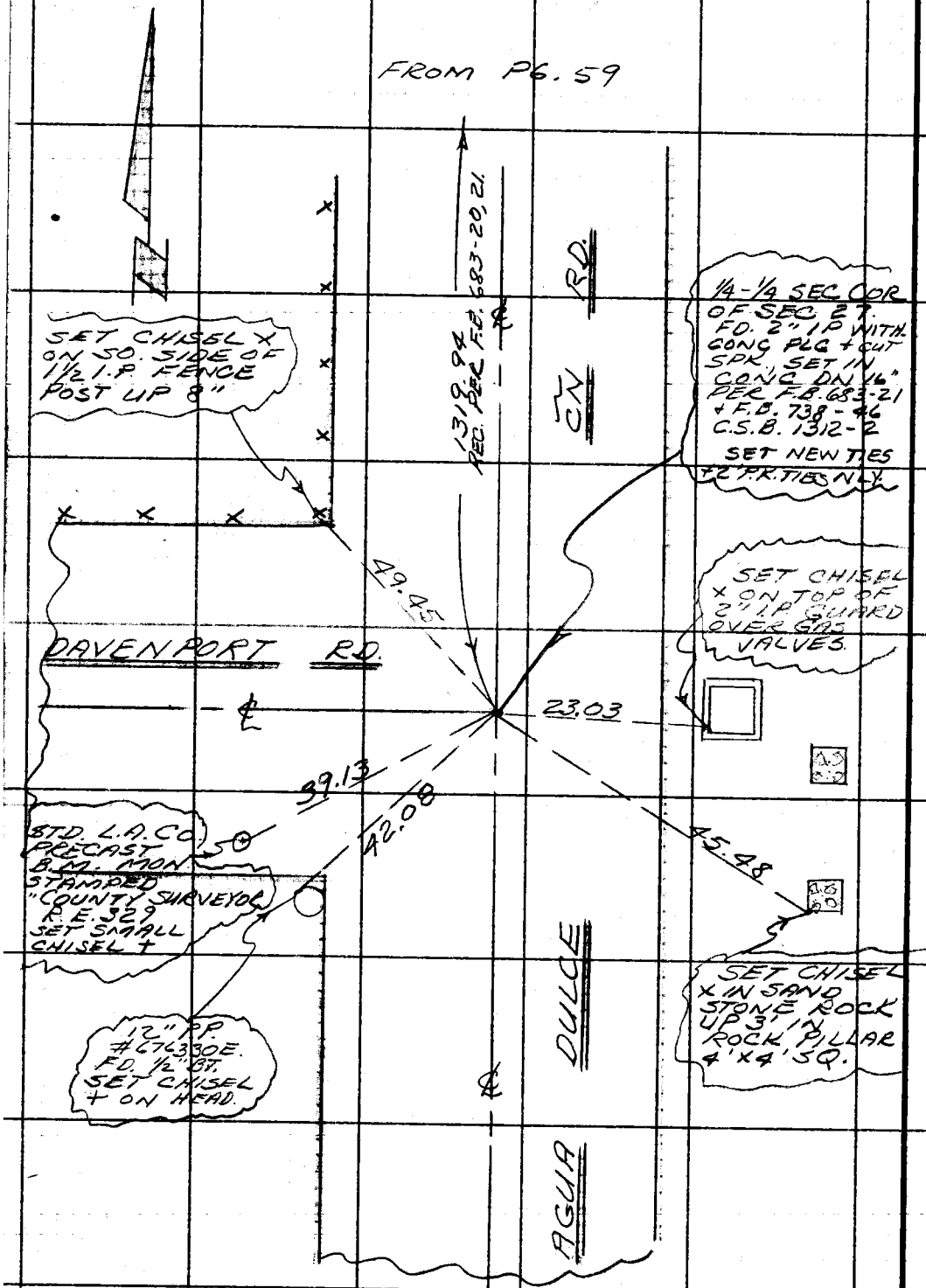
76F3089 CE # 310 3-61

CADASTRAL TIE TO 1/4-1/4 COR SEC 27
C.S.B. 8712 + CSB 1312-1
F.B. 683-20



F. B. 2457 PG 60



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

Survey of AGUA DULCE CN
JN 0202.00 Tape 100 Std 84 °F
Surveyed by RC Wilson
Notes RCW Date 9-27-63
Indexed R. J. GALLI OCT 1 '63

F. B. 2457 PG. 61

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

0202.00

CAD TIES @ SOUTH
END AGUA DULCE CYN RD.
AT INTERSECTION OF
SOLEDAD CY'N ROAD
AND LOCATION OF ⊡ STA
CALLED "P.I. 49-S NEW"

SEPT 26-27 1963

(SEE F.B. G-1001 31-38
FOR TIE TO △ STA P.I. 49-S)

RC WILSON
J BAZEN ⊼
T McKNIGHT HC
R MATHER HC

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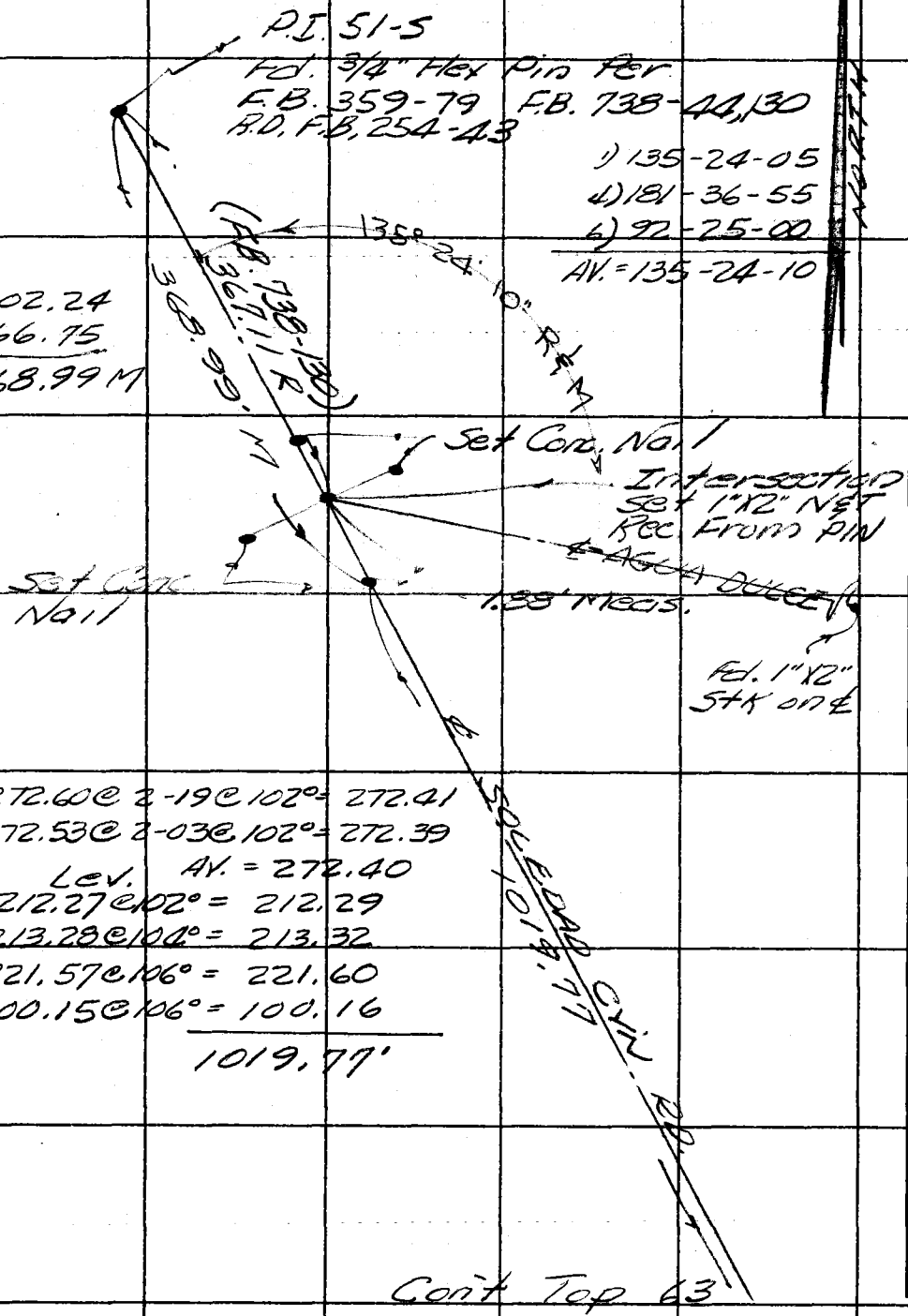
76F309S CE # 310 3-61

F. B. 2457 PG. 62

166.73 @ L @ 102° = 166.75
203.59 @ 6-42 @ 102° = 202.24
203.86 @ 7-17 @ 102° = 202.24



272.60 @ 2-19 @ 102° = 272.41
272.53 @ 2-03 @ 102° = 272.39
Lev. AV. = 272.40
212.27 @ 102° = 212.29
213.28 @ 104° = 213.32
221.57 @ 106° = 221.60
100.15 @ 106° = 100.16
1019.77'

Con't Top 63

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Notes Ck'd by	Survey of AGUA DULCE	F. B. 2457 PG. 63
Map No.	JN 0202.00 Tape 100 Std 84 °F	
Office Work	Surveyed by RC Wilson	
Checked	Notes RCW Date 8-7-63	
Date	Indexed E. J. GALLI	

Cont Bott 62

P.I. 50-5
Reset 1"X2" Stk From Tan
Tie Per Rd. Dept. F.B. 254-45
Rd. Dept. Fd. orig. 2"X2" Stk
@ P.I. Per. F.B. 359-78 & CSB-
145-5 & Set Ties as shown
per R.D.F.B. 254-45
1) 116-28-00
4) 105-52-00
6) 338-48-00
AV= 116-28-00

NORTH

SOLEDAD CN
1019.77
RD

116° 28' 00" Meas.
116° 27' 40" Record
Per F.B. 359-78
R.D. F.B. 254-45

Cont Lft 64

0.07' Fd. 2"X2" & Tk.
66.39'
0.05'
0.05'
0.50'
Fd. 1"X2" No Nail
0.07'
0.60'
Fd. S.W. & Tin

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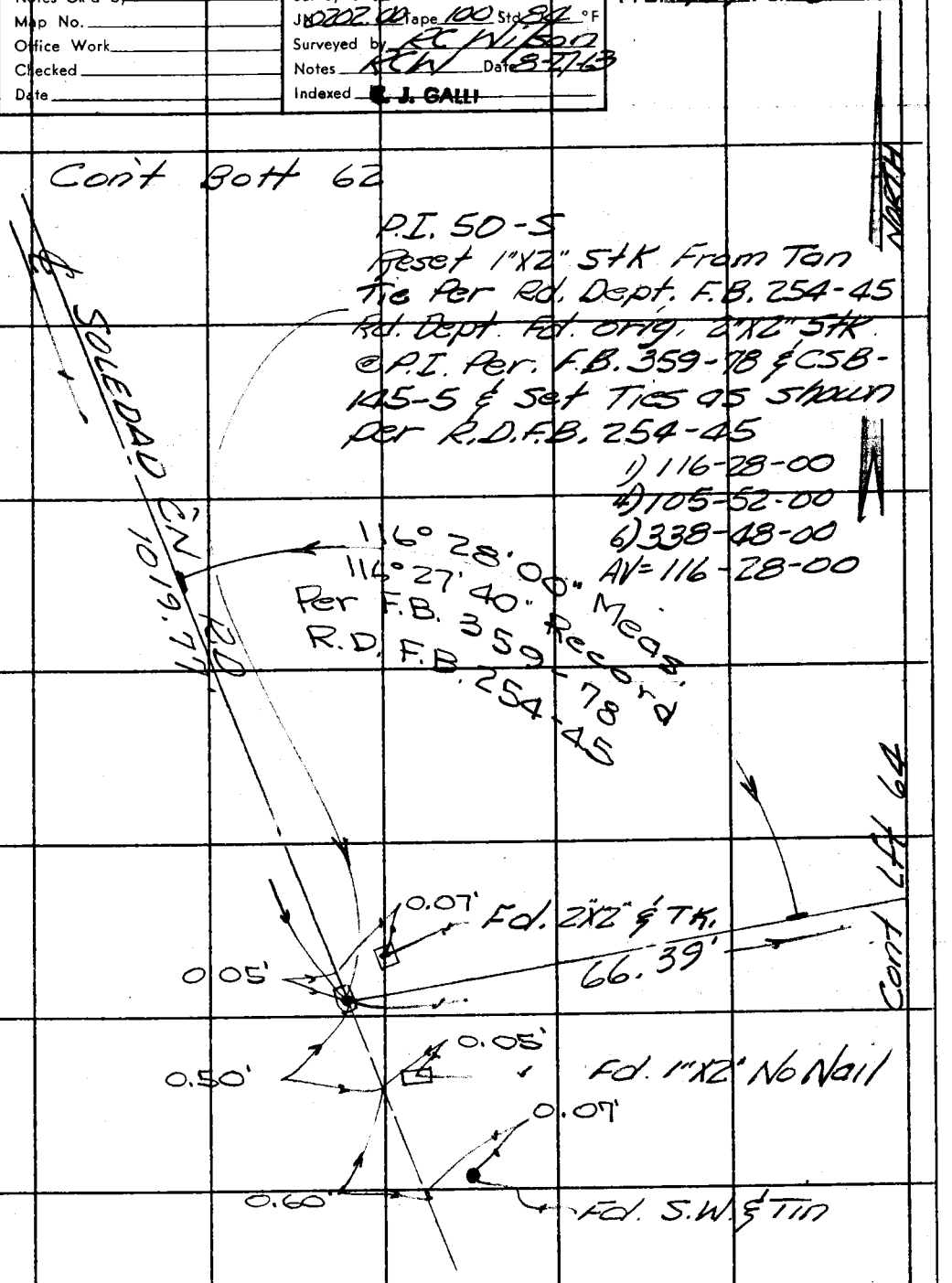
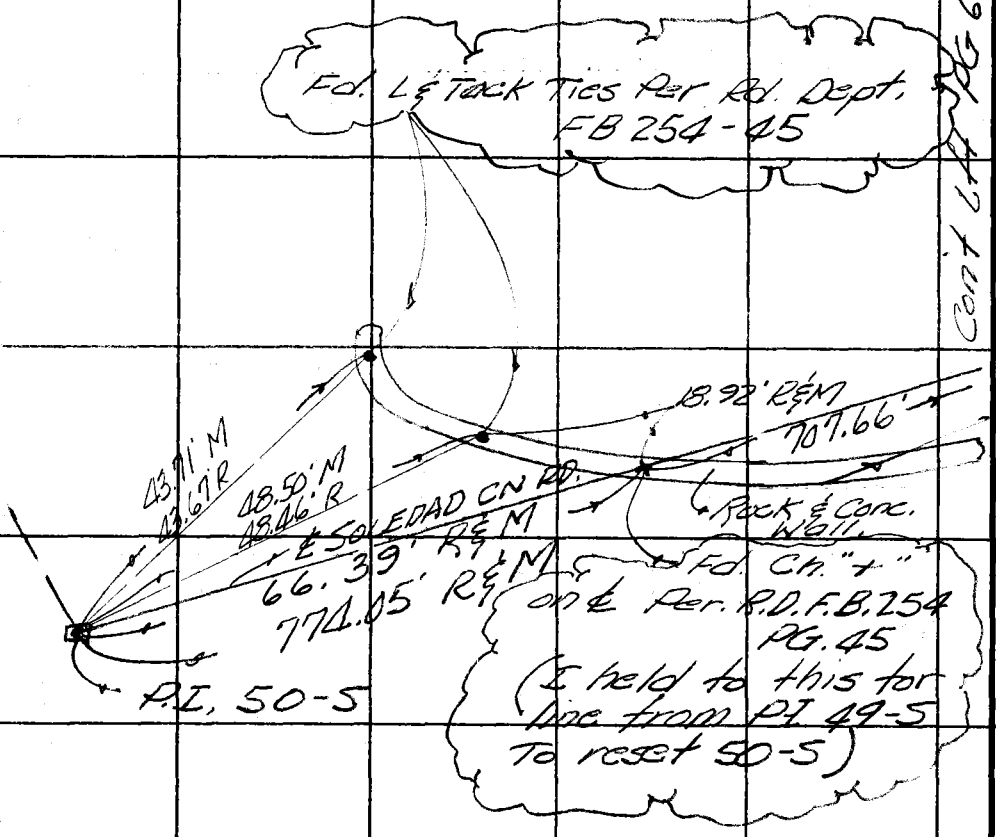
Placed on S.G.S. Quad. Shts.
Placed on Div. W.S. No.
Sketch on Geo. Desc. Card

76F3095 CE # 310 3-61



F. B 2457 PG 64

148.68 @ 4-33 @ 72° = 148.20
133.34 @ L @ " = 133.33
135.43 @ L @ " = 135.42
145.66 @ L @ " = 145.65
145.04 @ L @ 100° = 145.06
707.66'



66.38' @ L @ 100° = 66.39'

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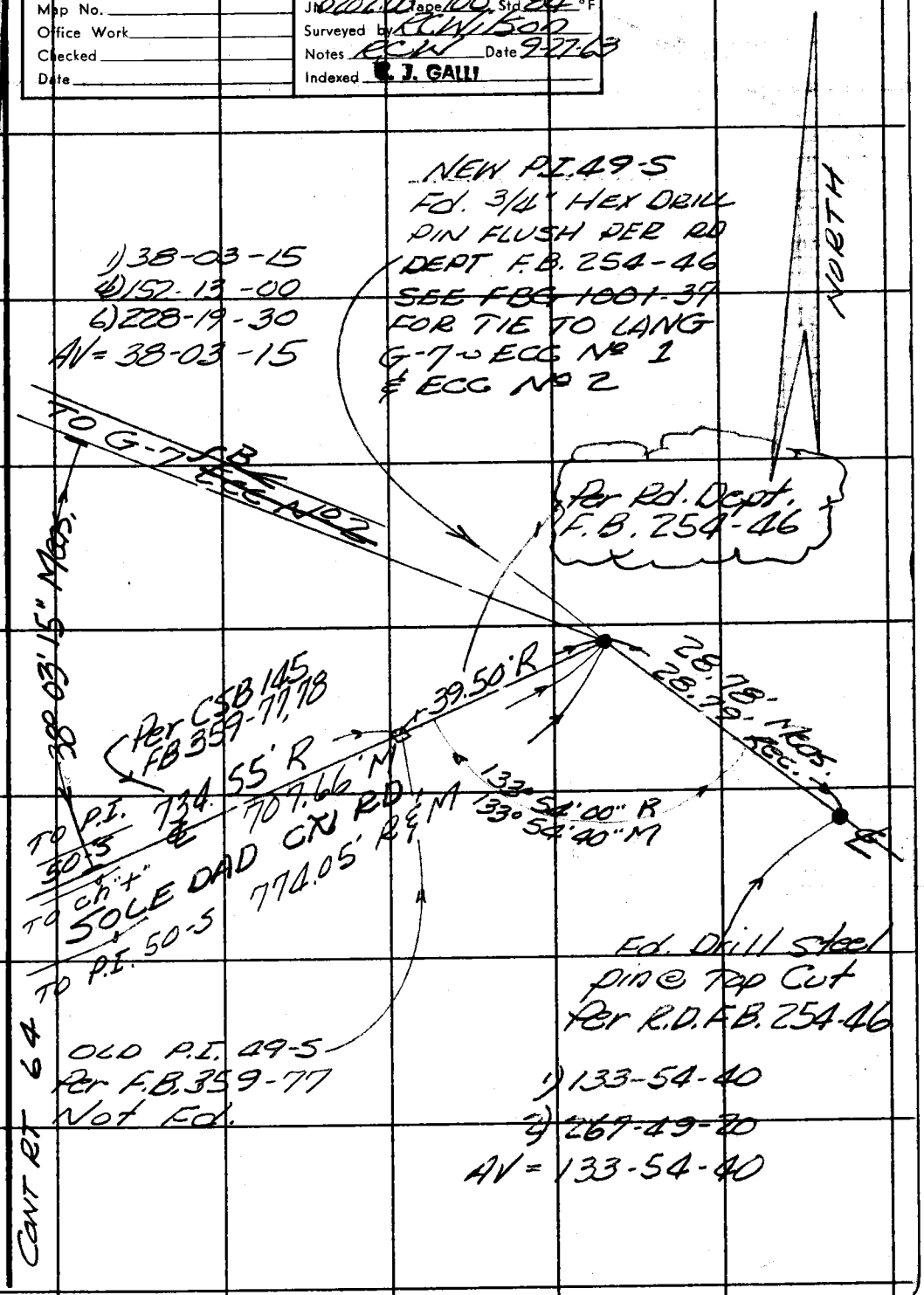
Notes Ck'd by	Survey of AGUA DULCE	F. B. 2457 PG. 65
Map No.	Jt. 0202.00 Tape 100 Std 84 °F	
Office Work	Surveyed by RCW/Bon	
Checked	Notes RCW Date 9-27-63	
Date	Indexed R. J. GALLI	



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76F309S CE # 310 3-61

F. B 2457 PG 66

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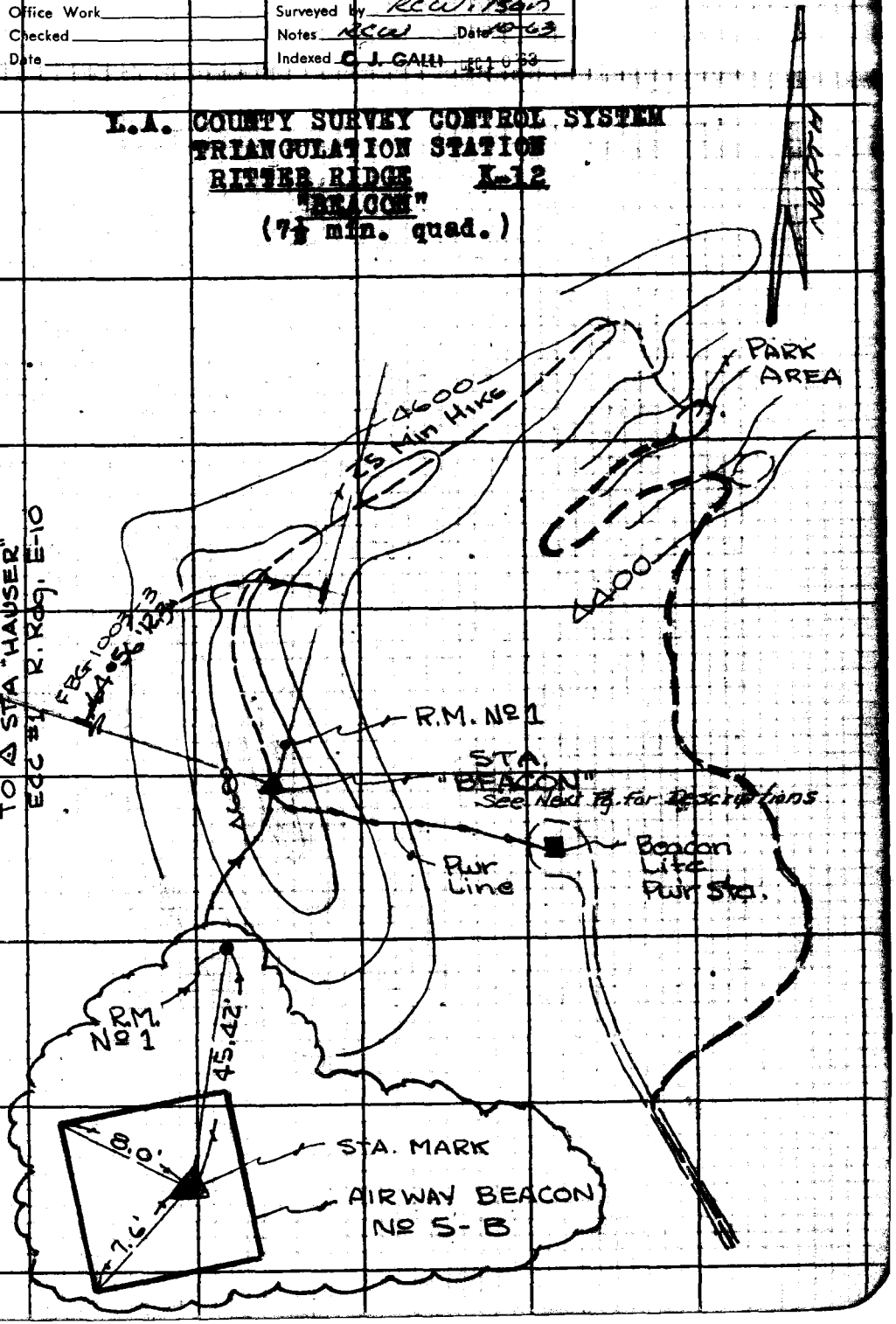
Notes Ck'd by	Survey of Geo. Cont	F. B. 2457 PG. 67
Map No.	JN 0301.00 Tape Std °F	
Office Work	Surveyed by RCW Wilson	
Checked	Notes RCW Date 10-63	
Date	Indexed C. J. GALLI DEC 1 0 63	

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
RITTER RIDGE K-12
"BEACON"
(7½ min. quad.)



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76F3095 CE #310 6-62

F. B. 2457 PG. 68

THIS TRIANGULATION STATION is located in Los Angeles County at the airway beacon 2½ miles North and West from the Vincent Fire Station in the SW ¼ of section 8 T5N R12W.

TO REACH THIS STATION from the Vincent Cafe take a dirt road to the north called the "Peacefull Valley Road". Travel in a northerly direction taking all left forks in the main r road 1.80 miles to a gate over the road with a sign "Peacefull Valley", thence travel 0.30 miles and take the left fork; thence straight 0.50 miles to a junction from the south; thence straight 0.20 miles to a Y; take the left fork and travel toward the Airway Beacon Power House 0.35 miles to a dirt traveled track to the right; thence right over this traveled track 0.70 miles to a graded parking area; (there is an old ruined shack at this graded flat) Then proceed by foot up the ridge to the north to the top; thence follow the ridge in a south westerly direction to the Airway Beacon and the station. (25 min. Hike)

STATION MARK: Set a std. precast County Engineer Mark under the Airway Beacon tower stamped "COUNTY ENGINEER R.K. 5869 TRIAG. STA. BEACON A.R. K-12" [redacted] RW

REFERENCE MARK: Found a precast monument in a northerly direction stamped "U S GEOLOGICAL SURVEY L A COUNTY S 1929" 45.42' from the station which lays from Station Hauser Ecc. #1 64° 56' 12.3"

PER FBG 1003-3

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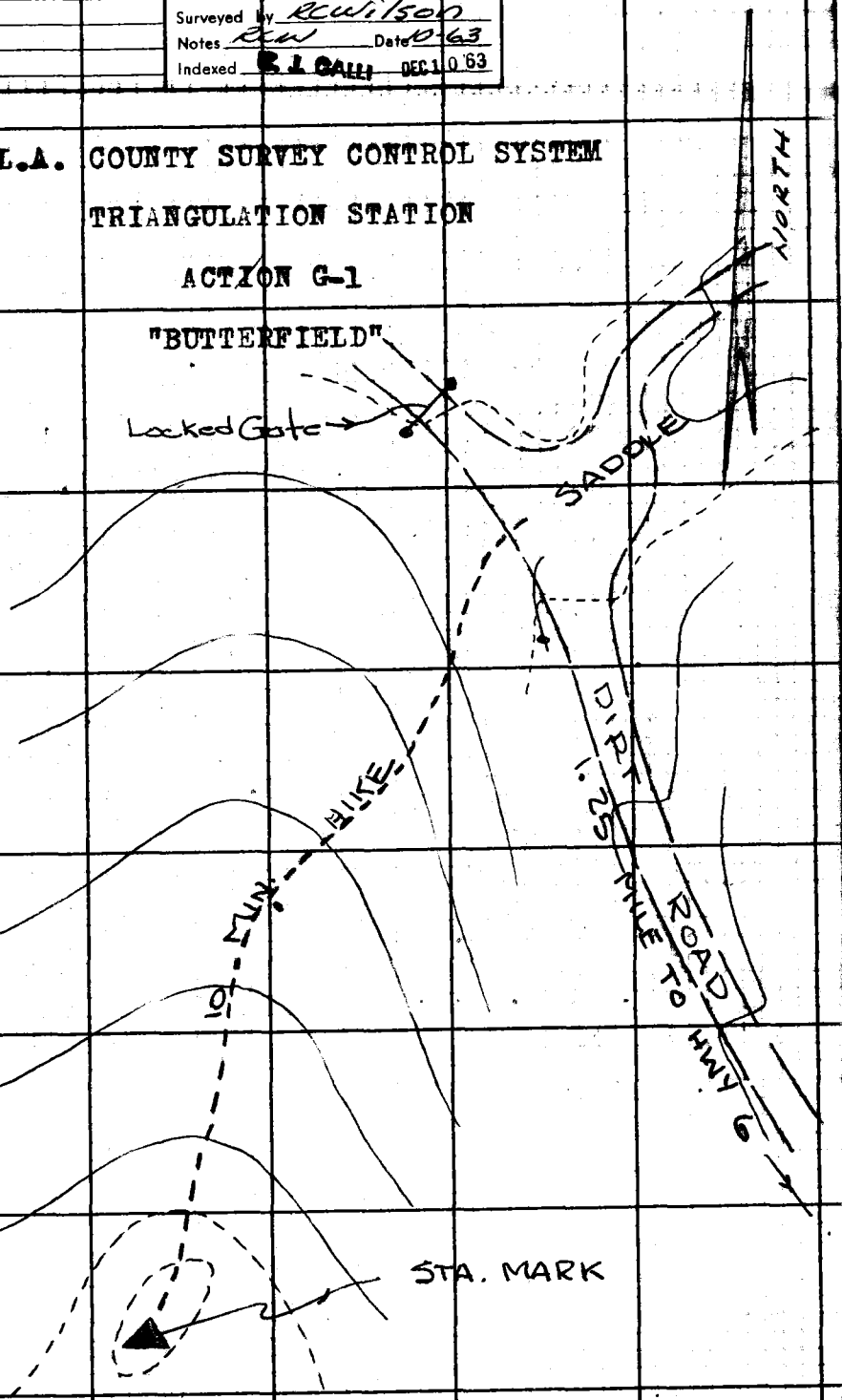
Notes Ck'd by	Survey of Geo. Cont	F. B. 2457 PG. 69
Map No.	JN 0301.00 Tape Std °F	
Office Work	Surveyed by RCWilson	
Checked	Notes RCW Date 10-63	
Date	Indexed R. J. GALLI DEC 10 '63	

L.A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

ACTION G-1

"BUTTERFIELD"



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76F3095 CE #310 6-62

F. B. 2457 PG. 70

THIS TRIANGULATION STATION is in Los Angeles County on a prominent knob ¾ of a mile north of the Vincent Fire Station, and is located in the SW ¼ of Section 21, T5N R12W

TO REACH THIS STATION travel 0.20 mile west on Hwy 6 from the Vincent Fire Station, to a dirt road to the north; thence n'ly 0.60 mile to a Y in the road; turn right and travel 0.30 mile to a Y; take the left fork passing a water tank 0.35 mile to the top and a saddle. Hike in a S w'ly direction up the ridge (10 min.) tot the top and the station.

STATION MARK Set a std 4" Brass triangulation mark set in conc. stamped "Butterfield" "L.A.Co. Engr. R.E. 5869 1963" "Acton G-1" AND IS PROTECTED BY A YELLOW MARKER PIPE 5' SLY.

Ref. Marks none set

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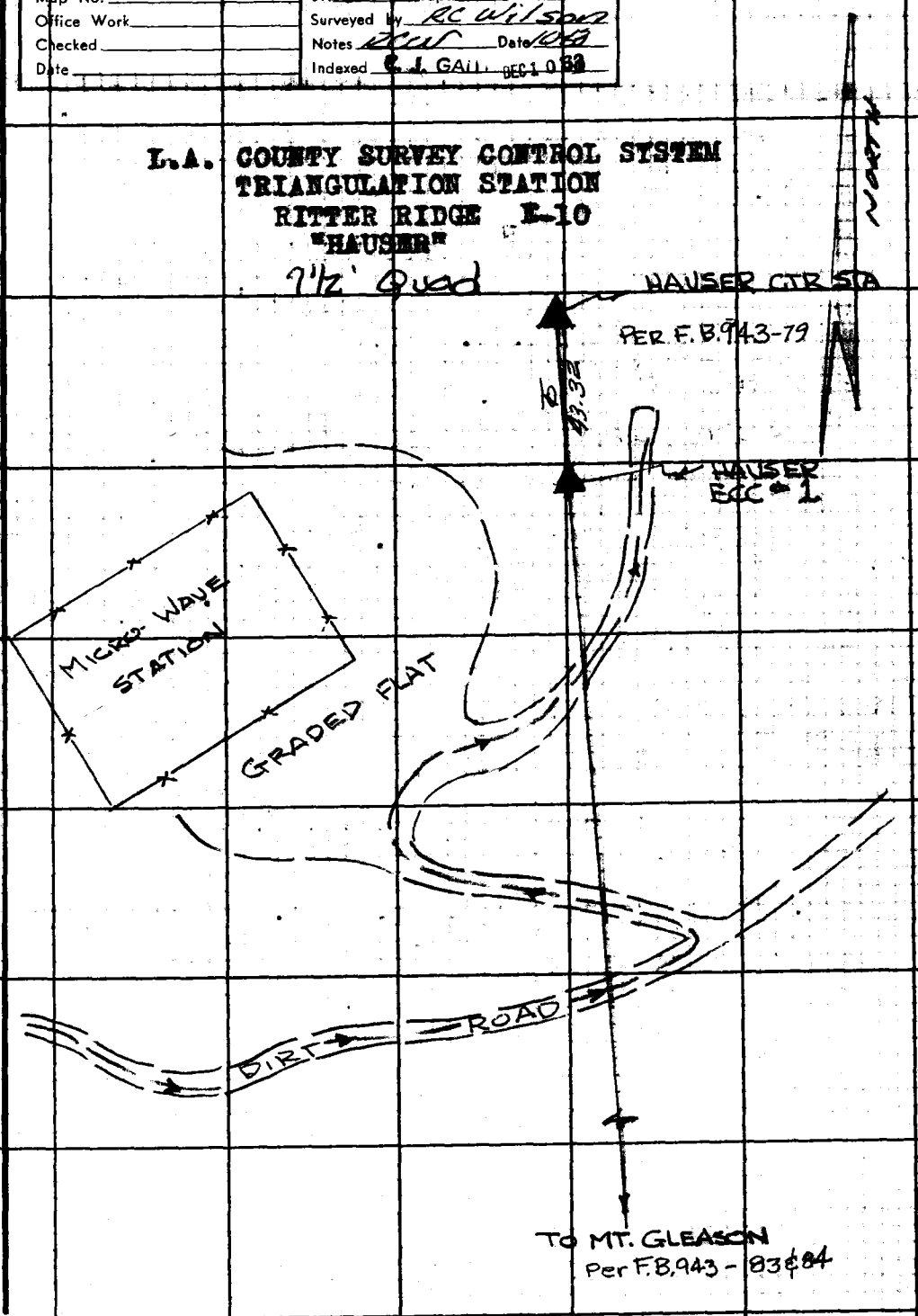
Map No.	JN 0301.00 Tape Std °F	
Office Work	Surveyed by RC Wilson	
Checked	Notes RCW Date 10/83	
Date	Indexed C. J. GAIL DEC 1 0 83	

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
RITTER RIDGE E-10
"HAUSER"

7½' Quad



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76F309S CE #310 6-62

F. B. 2457 Pg. 72

THIS TRIANGULATION STATION is in Los Angeles County 600' east of a Telephone Co Relay Sta. near the center line of section 2 between the nw and sw ¼s T5N R13W in the Sierra Pelona Range.

TO REACH THIS STATION from the intersection of US Highway 6 and Palmdale Avenue, Palmdale: Travel West on Palmdale Ave XXXXXit changes in name to Pine Gyn Rd.)5.1 miles to a locked gate on on the left (L key) Pass thru the gate and travel in a s'ly direction 0.70 miles to the top of the ridge and a saddle(there is a steel gate at this point) turn left on the main dirt road 1.5 miles to a cattle crossing gate(near a house) turn right and follow the road past a barn and thru XXX another open gate; Thence 2.8 miles up the road to a Y at the crest and at a saddle; turn left and follow the road up the mountain 2.4 miles to the dirt road that leads to the microwave station; continue east about ¼ of a mile to a road up the hill on the east side of the microwave station; follow this road to the top and turn sharp right and follow a traveled track 500' to the station.

STATION MARK: Found a std. U.S.C.&G.S. disk set in conc. stamped "Hauser 1938"

ECC. NO 1: Found a std. Co. Engr. Triangulation 4" brass disk set in conc. and stamped "Hauser Ecc #1 1961 LA County Engineer RE 5869"

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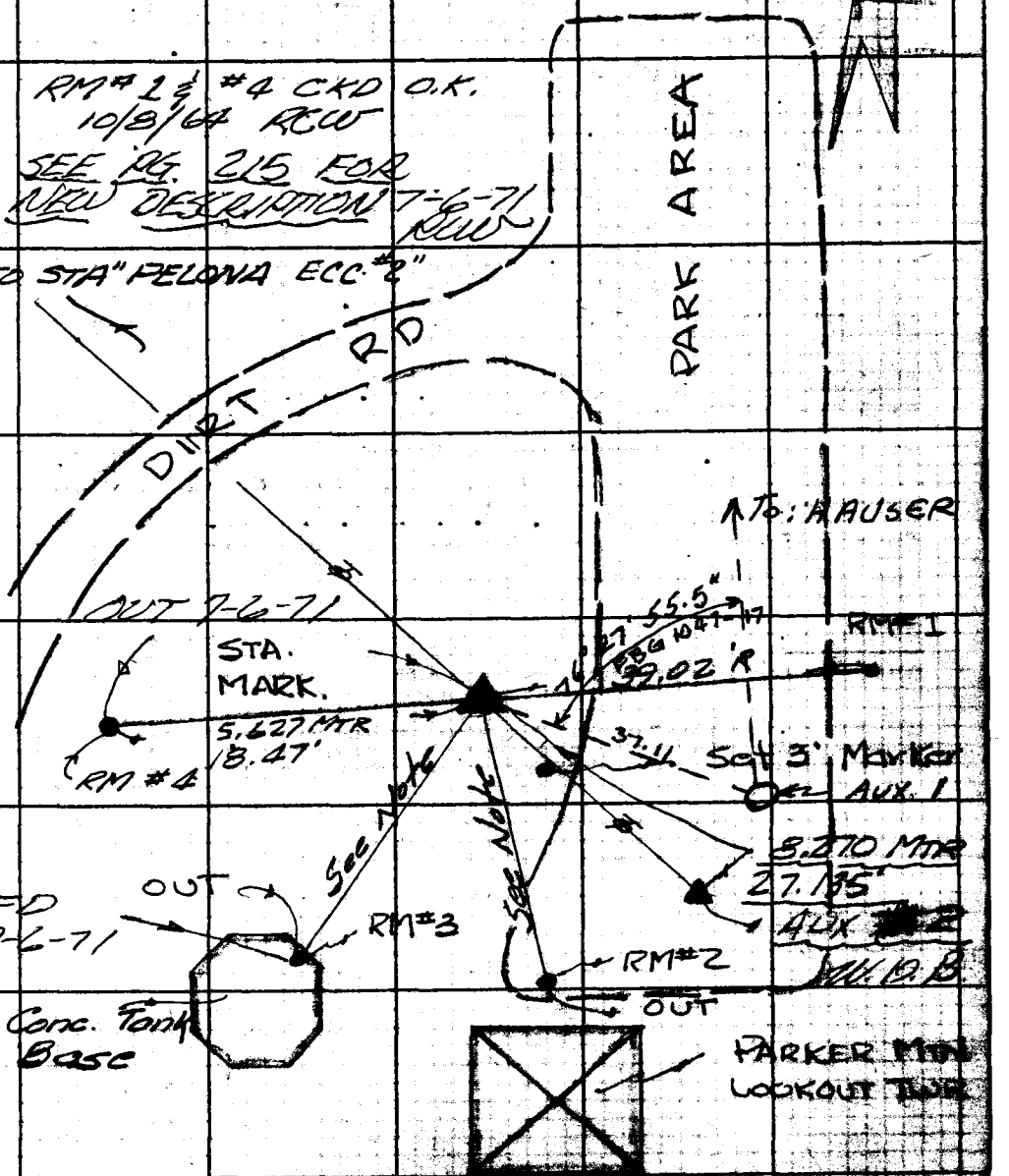
Notes Ck'd by	Survey of GEO. CONT	F. B. 2457 Pg. 73
Map No.	JN 0301.00 Tape Std °F	
Office Work	Surveyed by RCW, Ison	
Checked	Notes RCW Date 10-63	
Date	Indexed R.L. GALLI DEC 10 '63	

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
RAVENNA J-5
"PARKER"



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76F3095 CE #310

F. B. 2459 PG. 74

THIS TRIANGULATION STATION is in Los Angeles County at the Parker Mountain Lookout Station and is located in the NW ¼ of section 2, ~~T5N~~ T4N R13W

TO REACH THIS STATION from the intersection of US Highway 6 and the Crown Valley Road: Travel south on the Crown Valley Road 1.55 miles to the intersection of Escondido Cyn Rd (Syracuse Avenue); turn right and travel 0.30 miles to Hubbard Rd (Dirt); turn left and travel 2.1 miles to a Y; take the left fork and travel 0.50 miles to the top of the ridge and a saddle; take the left fork and pass thru a locked cable gate (L key) ; thence 2.10 miles up the dirt road to the lookout tower. The station is 35' n'ly from the north face of the tower.

See pg 218 RCW 2-5-75

STATION MARK: ~~Found a std. U.S.C.&G.S. brass disk stamped "Parker 1940" cemented in the end of a 3" dia. cast iron soil pipe 6" above grd.~~ NOW ENCASED IN A 12" SQ. CONC BLOCK UP 6"

RM NO 1: Found a std. U.S.C.&G.S. ref. disk set in a boulder, about 7' lower in elevation than the station stamped "Parker 1940"

RM NO 2: This mark has been hit and is laying on its side to the south. THIS MARK GONE 10-25-63 RCWilson

RM NO 3: Unable to locate this mark. The water tank base at the tower site may be new. RCW FD 7-6-7 SEE PG 215

RM NO 4; SET PRECAST L.A. CO. SUR. CONT. 4" BRASS ~~MARK~~ TOPLINED PROD. FROM 7 R.M. NO 1 STAMPED "RM 4 PARKER 1963" RCW 10/8/64

AUX ~~[illegible]~~ NO 2 - SET CO. ENGR PRECAST MON. IN 12"X12" CONC. PAD ON LINE PROD. FROM STA. PELONA STAMPED "COUNTY ENGINEER RE 5869 PARKER ~~[illegible]~~" DESTROYED 2-5-75 RCW AUX. ~~[illegible]~~ 2" RCWilson

~~AUX 1 IS A 2" I.P., CONC. PLUG & LG. BT. SPK. IN A 12" ROUND CONC. PAD, FLUSH. PAD IS SCRIBED "TRICK DEAL"~~

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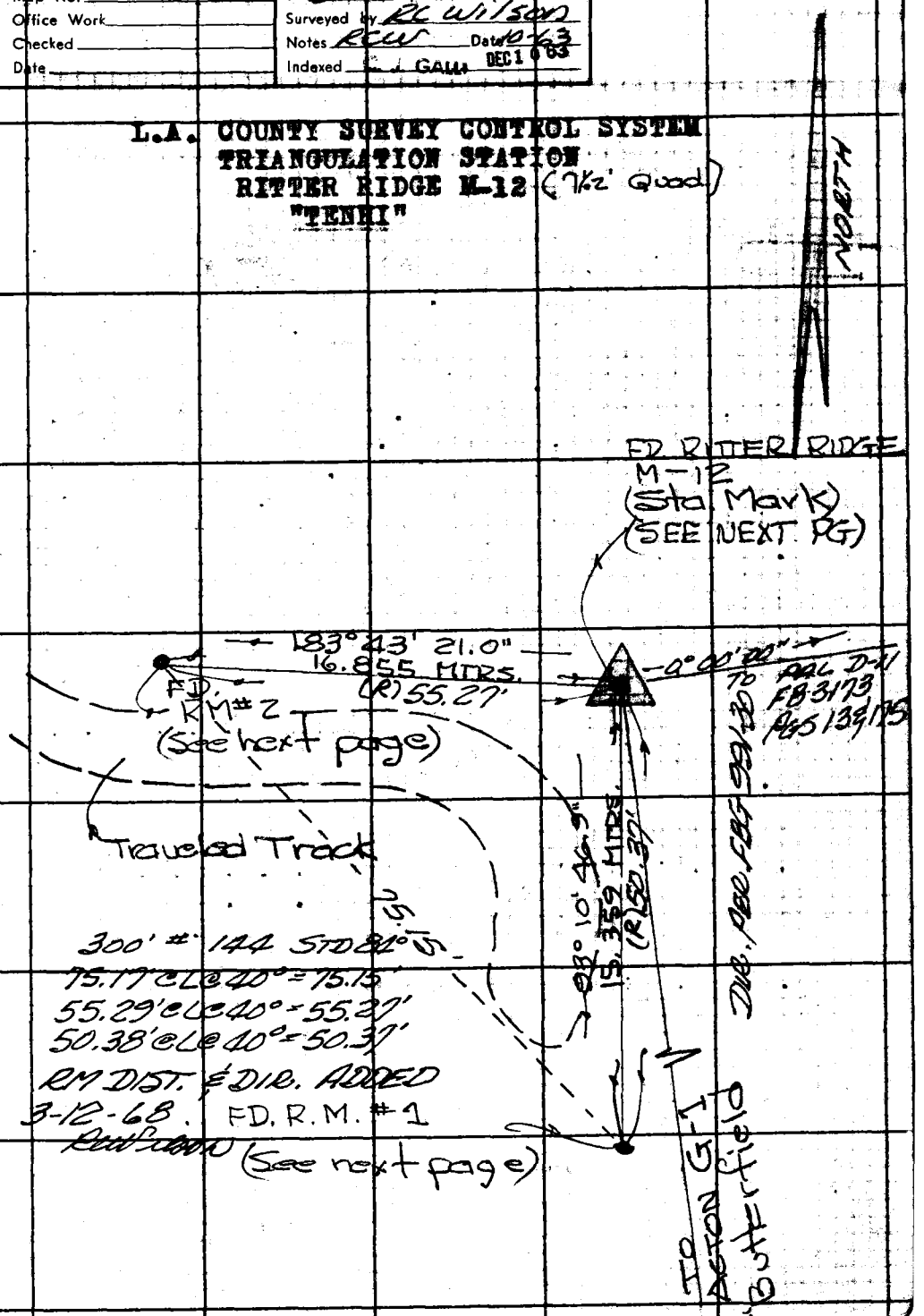
Notes Ck'd by	Survey of GEO. CONT.	F. B. 2457 Pg. 75
Map No.	JN 0301.00 Tape Std °F	
Office Work	Surveyed by RC Wilson	
Checked	Notes RCW Date 10-63	
Date	Indexed [illegible] GALLI DEC 1 0 63	

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
RITTER RIDGE M-12 (7½' Quad)
"TENHI"



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76F3095 CE #310 6-62

F. B. 2457 PG. 76

THIS TRIANGULATION STATION is in Los Angeles County and is located on the Palmdale side of a large dome shaped knob 8½ miles n'wly from the Vincent Cafe, in the SW ¼ of section 9 T5N R12W.

TO REACH THIS STATION from the Vincent cafe, take a dirt road to the north called the " "Peacefull Valley Rd". Travel n'ly taking all left forks in the main road 1.80 miles to a gate over the road with a sign "Peacefull Valley" thence travel 0.30 miles and take the left fork, thence straight 0.50 miles to a junct. from the south, thence 0.20 miles to a Y; take the right fork and travel 0.10 miles to a Y; take the left fork and travel 0.40 miles to a T intersection; take the ~~xk~~ left road and travel 0.70 miles to the top of the road and a saddle; take the road to the right and travel up the hill to the Edison Towers; thence left up the ridge over a traveled track 0.45 miles to the station.

STATION MARK: Found a 4" brass U.S.C.& G.S. triangulation station mark set in a 10" conc. sq. stamped "TENHI" "1938" 6" above ground.

REFERENCE MARKS:
R.M.NO.1; Found a 4" Brass U.S.C.&G.S. reference mark set in a 10" conc. sq. stamped "TENHI NO 1 1938" 6" above ground.

R.M. No. 2; Same as #1 except stamped "TENHI NO 2 1938"

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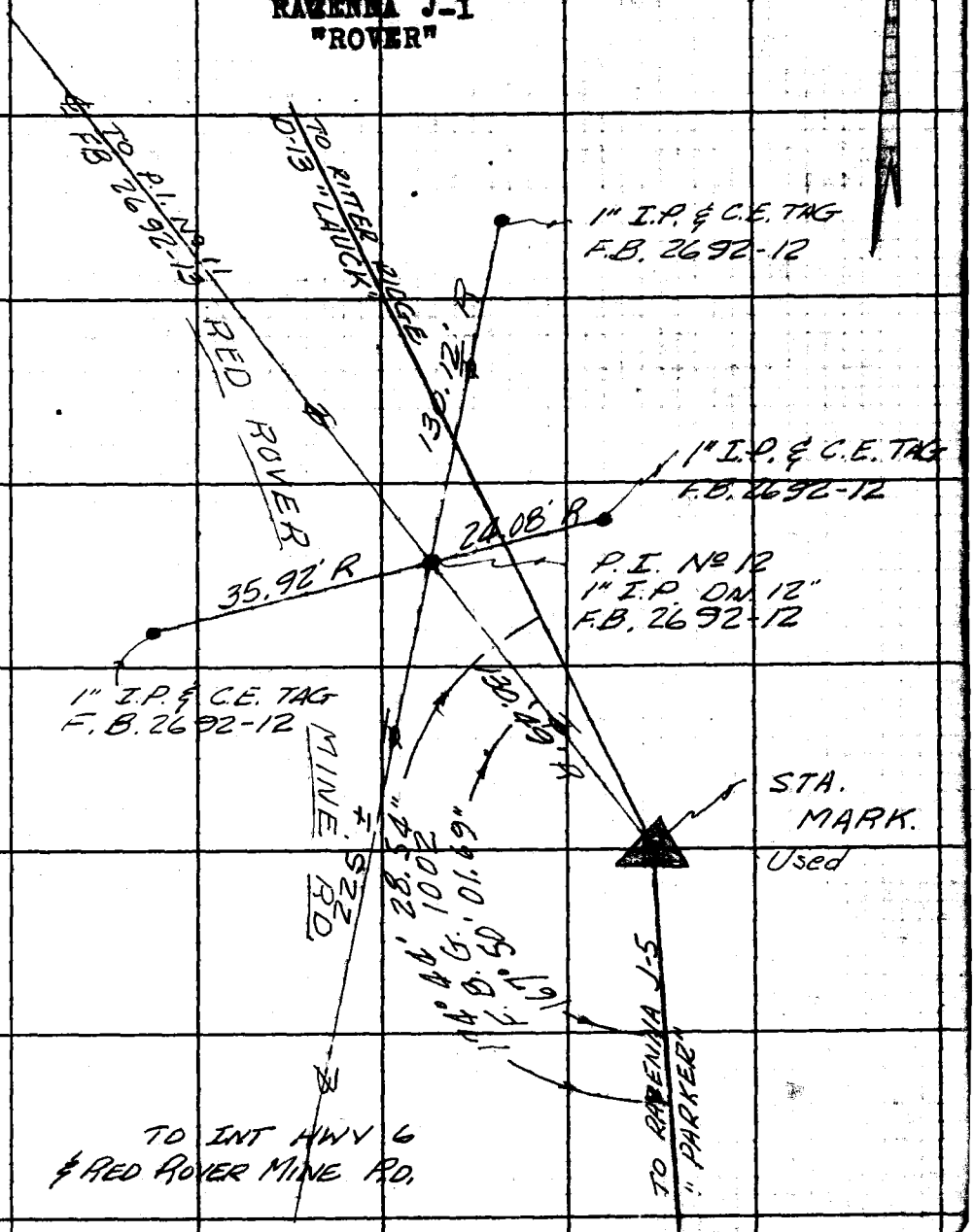
Notes Ck'd by	Survey of RED ROVER RD	F. B 2457 PG. 77
Map No.	JN 095.24 Tape Std °F	
Office Work	Surveyed by RC Wilson	
Checked	Notes RCW Date 10-63	
Date	Indexed R. J. GALLI DEC 10 '63	

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
RAVENNA J-1
"ROVER"



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

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Not Geo. Index Card
Plan U.S.G.S. Quad. Shts.
Placed on Sur. Div. W.S. No.
Sketch on Geo. Desc. Card

76F3095 CE #310 6-62

F. B. 2451 PG. 78

THIS TRAVERSE STATION is in Los Angeles County near the intersection of US Hwy 6 and Red Rover Mine Road, and is located in the SW¼ of section 23 T5N R13W

STATION MARK: Found a 1" I.P. and C.E. Tag flush on the center line prod. from the North of Red Rover Mine Rd. Per County Engineer Field Book 2692 Page 12.

TO REACH THIS STATION from the intersection of US Hwy 6 and Red Rover Mine Road; Travel North on Red Rover Mine Rd. about 175' from the intersection. The station is to the right and about 30' from the edge of the pavement.

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Notes Ck'd by	Survey of RED ROVER RD
Map No.	JN 0095.24 Tape Std °F
Office Work	Surveyed by RC Wilson
Checked	Notes RCW Date 10-63
Date	Indexed E. J. GALLI DEC 10 63

F. B. 2457 Pg. 79

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

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
* RITTER RIDGE D-13
"LAUCK"

COUNTY ENGINEER TRAV. STA. R.R. "D-13" LAUCK R. E. 5869

7½ MIN. QUAD.

TO "HAUSER" ECC #1 RITTER RIDGE E-10 F.B. 2457-71 943-79

NORTH

SECTION LINE

* See Pg. 90 for tie to ¼ Sec. Cor. RCW 2-27-75

STA. MARK

SEC 15

SEC 14

¼ SEC. COR.

FD RM1

FD RR D13 25.22'

(See pg. 80)

29.73'

21.48'

10 MIN. HIKE

(SADDLE)

4 Wheel Drive

* SEE FB 4320-51 FOR NEW STA. NOTES. RCW 2-27-75

FD RM2 2-27-75

TO "ROVER" RAVENNA J-1 Pg 77

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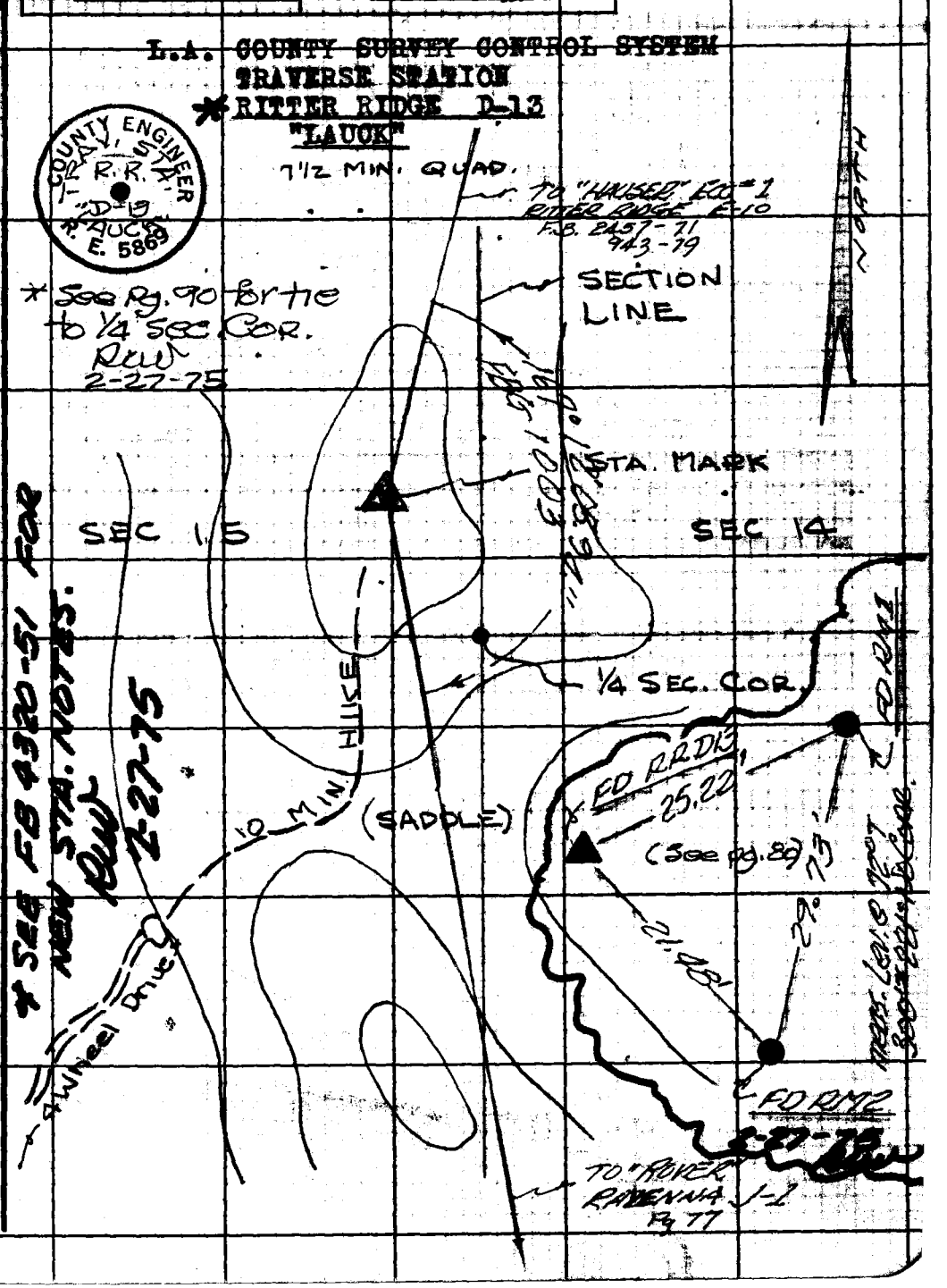
76F3095 CE #310 6-62



F. B 2457 PG. 80

THIS TRAVERSE STATION is located in Los Angeles County on a high knob ¼ of a mile north of the Red Rover Mine (Abd) 3068'± north and 150'± west of the ¼ section corner between sections 14 and 15 T5N R13W.

TO REACH THIS STATION from the intersection of Red Rover Mine Road and U. S. Hwy 6 travel westerly on Hwy 6 1.2 miles to a dirt road to the right. There is a sign (White, black letters) "ACREAGE FOR SALE BY OWNER GL 8-6858" four feet sq. at the edge of the road. Take the dirt road to the east and travel 0.[redacted] miles to a road to the north; thence north 0.[redacted] miles to a traveled track to the east; thence east over this traveled track 0.[redacted] miles to the [redacted] top of the knob and the station. (graded rd, upgrade)

STATION MARK: Set a std County Engineer pre-cast monument stamped " COUNTY ENGINEER RE 5869 TRAV. STA. LAUCK [redacted] " RR D-13" (A 12"x12" conc. pad has been poured around 8" conc post.) 2-27-75 RWWilson

REFERENCE MARKS: 2-27-75 RWW

RM 1: A 4" CADH REF. MARK DISC STAMPED "RITTER RIDGE D-13 1965 NO 1 1975" SET IN A 12"x12" CONC. PAD UP 4" ABOVE GRD.

RM 2: SAME AS RM 1, EXCEPT STAMPED "NO 2"

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Notes Ck'd by	Survey of MTN SPGS RD	F. B. 24-57 Pg. 81 ✓
Map No.	JN 0075.78 Tape Std °F	
Office Work	Surveyed by R C Wilson	
Checked	Notes RCW Date 10-7-63	
Date	Indexed J. GALL DEC 10 '63	

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Do not extend this [illegible] of this [illegible]

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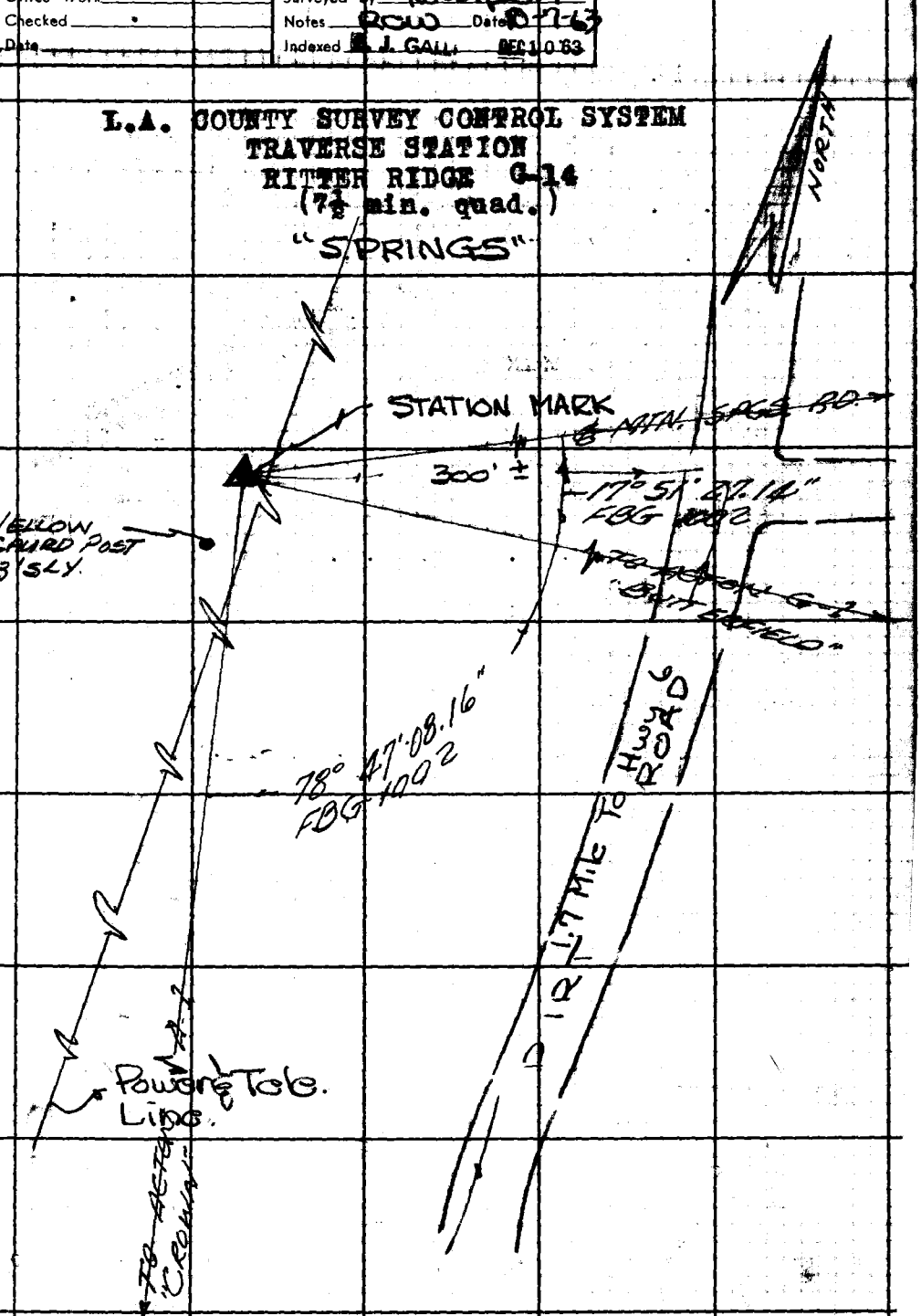
L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
RITTER RIDGE G-14
(7½ min. quad.)



76F3095 CE #310 6-62

F. B. 2457 Pg. 82

THIS TRAVERSE STATION IS LOCATED in Los Angeles County in the SE ¼ of section 13
T5N R13W

TO REACH THIS STATION from the intersection of U. S. Hwy #6 and the Crown Valley Road travel North 1.0 miles to a dirt road to the right; thence proceed on the main traveled dirt road in a northeasterly direction 0.70 miles to a Y in the road; thence a hard left turn for 300' to the station. The station is on a power and telephone pole line.

STATION MARK: Found a standard pre-cast County Engineer Bench Mark on the "P" line of the Mountain Springs Road per County Engineer Field Book 2631 Page 94
Stamped "L.A.CO.ENGR. R.E. 5869 M.S. 4"

REFERENCE MARKS:

NONE SET

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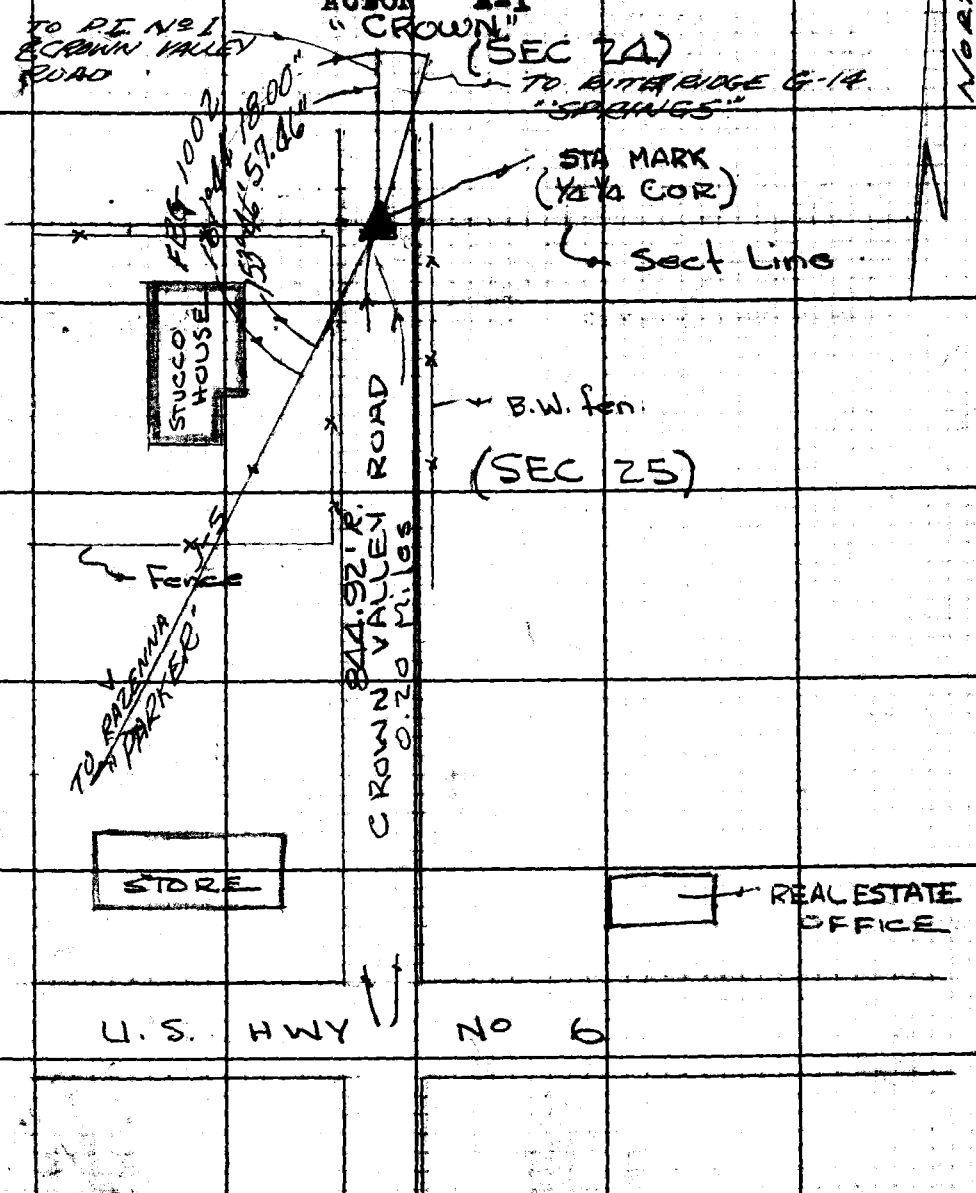
Notes Ck'd by	Survey of CROWN VALLEY RD
Map No.	JN 0095.23 Tape Std °F
Office Work	Surveyed by RC Wilson
Checked	Notes RCW Date 10-8-63
Date	Indexed E. J. GALLI DEC 1 0 '63

F. B 2457 PG. 83

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
ACTON A-1



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

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76F3095 CE #310 6-62

F. B. 2457 Pg. 84

THIS TRAVERSE STATION is in Los Angeles County on the south line of section 24 T5N R13W at the intersection of Crown Valley road and the section line. Replaced L.B.S.W.&T. per Co Engr Field Book 2692 Page 208

TO REACH THIS STATION travel north on Crown Valley road from the intersection of ULS. Hwy #6 0.20 miles. The station is located in the middle of the paved road.

Station Mark; Found a std 4" pre-cast mon. stamped "TRAVERSE STATION L.A. CO. ENGR. H.E. 5869 1963" "ACTON A-1" set down in the pav't and protected by a cap and 6" well. per Co. Engr. FB 2692 Pg. 208

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Notes Ck'd by	Survey of SANTIAGO RD	F. B 2457 Pg. 85
Map No.	JN 0095.25 Tape Std °F	
Office Work	Surveyed by RC Wilson	
Checked	Notes RCW Date 10-63	
Date	Indexed C. J. GALLI DEC 1 0 63	

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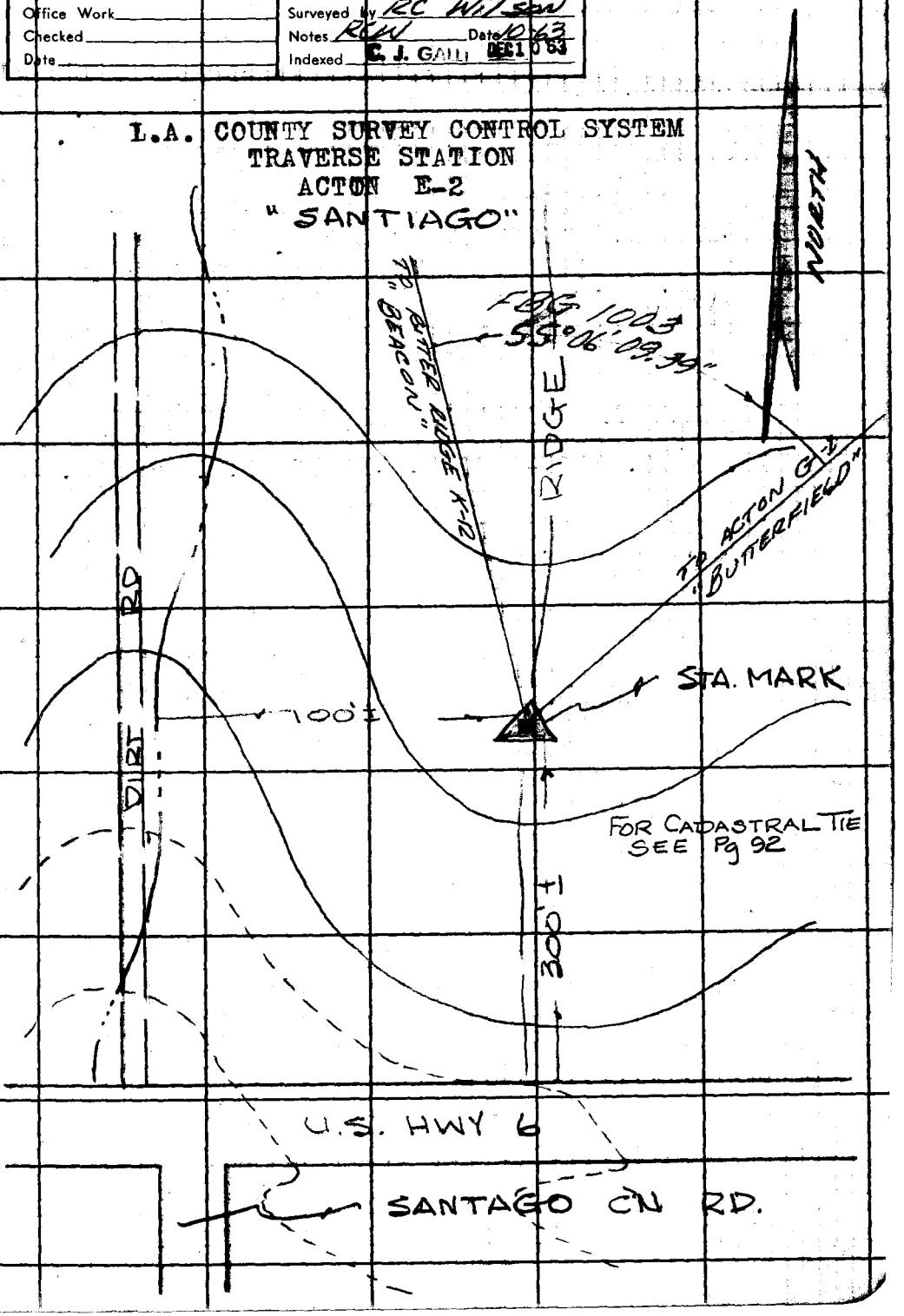
Placed on U.S.G.S. Quad. Shts.
Placed on Sur. Div. W.S. No.
Sketch on Geo. Desc. Card

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
ACTON E-2
"SANTIAGO"



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76F3095 CE #310 6-62

F. B. 2451 PG. 86

THIS TRAVERSE STATION is located in Los Angeles County 300' N'ly from H'wy 6 at Santiago Rd. on top of a small ridge 100' east of a drain, in the NW ¼ of section 29 T5N R12W

TO REACH THIS STATION from the Vincent Fire Station travel west on H'wy 6 2.30 miles to the intersection of Santiago Rd and H'wy 6. The station is on a small knob 300' north and 100' east of the intersection and is protected with a yellow marker pipe.

STATION MARK Found a std County Engineer pre-cast bench mark monument stamped "L.A. CO. ENGR. R.E. 5869-1963-N.C. 1000" F.B. 2902 Pg. 22

REF. MARKS Not Set

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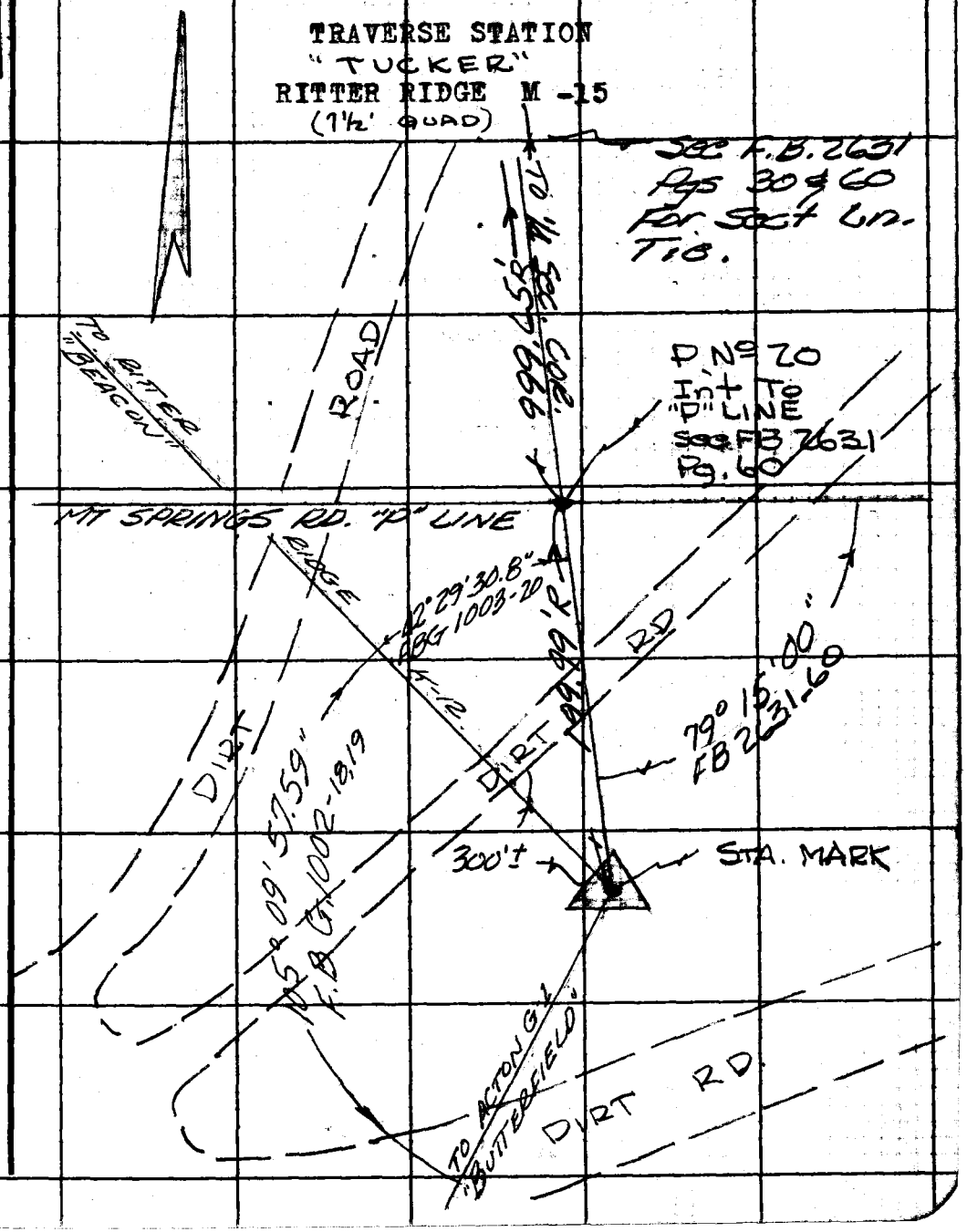
Notes Ck'd by	Survey of SANTIAGO RD	F. B. 2457 Pg. 87
Map No.	JN 009525 Tape Std °F	
Office Work	Surveyed by RC Wilson	
Checked	Notes RCW Date 10-63	
Date	Indexed C. J. GALLI DEC 1 0 '63	

L. A. COUNTY SURVEY CONTROL SYSTEM

TRAVERSE STATION
"TUCKER"
RITTER RIDGE M -15
(1½' QUAD)



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76F309S CE #310 6-62

F. B 2457 PG 88

THIS TRAVERSE STATION is located in Los Angeles County and is 2 miles N W'ly from the Vincent Cafe. It is located in the N.W. $\frac{1}{4}$ of section 21 T5N R12W

TO REACH THIS STATION from the Vincent Cafe take the Peaceful Valley Rd to the North West and travel 1.75 miles, taking all left forks in the road and staying on the Peacefull Valley Rd. to a sign over the road "Peacefull Valley". Take a traveled track to the left and travel 0.30 mile to the station. It is marked with a white marker pipe.

STATION MARK: FOUND A std County Engineer Bench Mark Monument stamped "L.A. Co. Engr. RE 5869" "B.M. M.S.-2" County Engineer Field Book 2631 Page 60

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Notes Ck'd by	Survey of RED ROVER MINE RD F. B. 2457 PG. 89
Map No.	JN 0095.24 Tape 197 Std 84 °F
Office Work	Surveyed by JS COATES
Checked	Notes JSC Date 10-25-63
Date	Indexed C. J. GALLI DEC 1 0 '63

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76F3095 CE #310 6-62

J.N. 0095.24

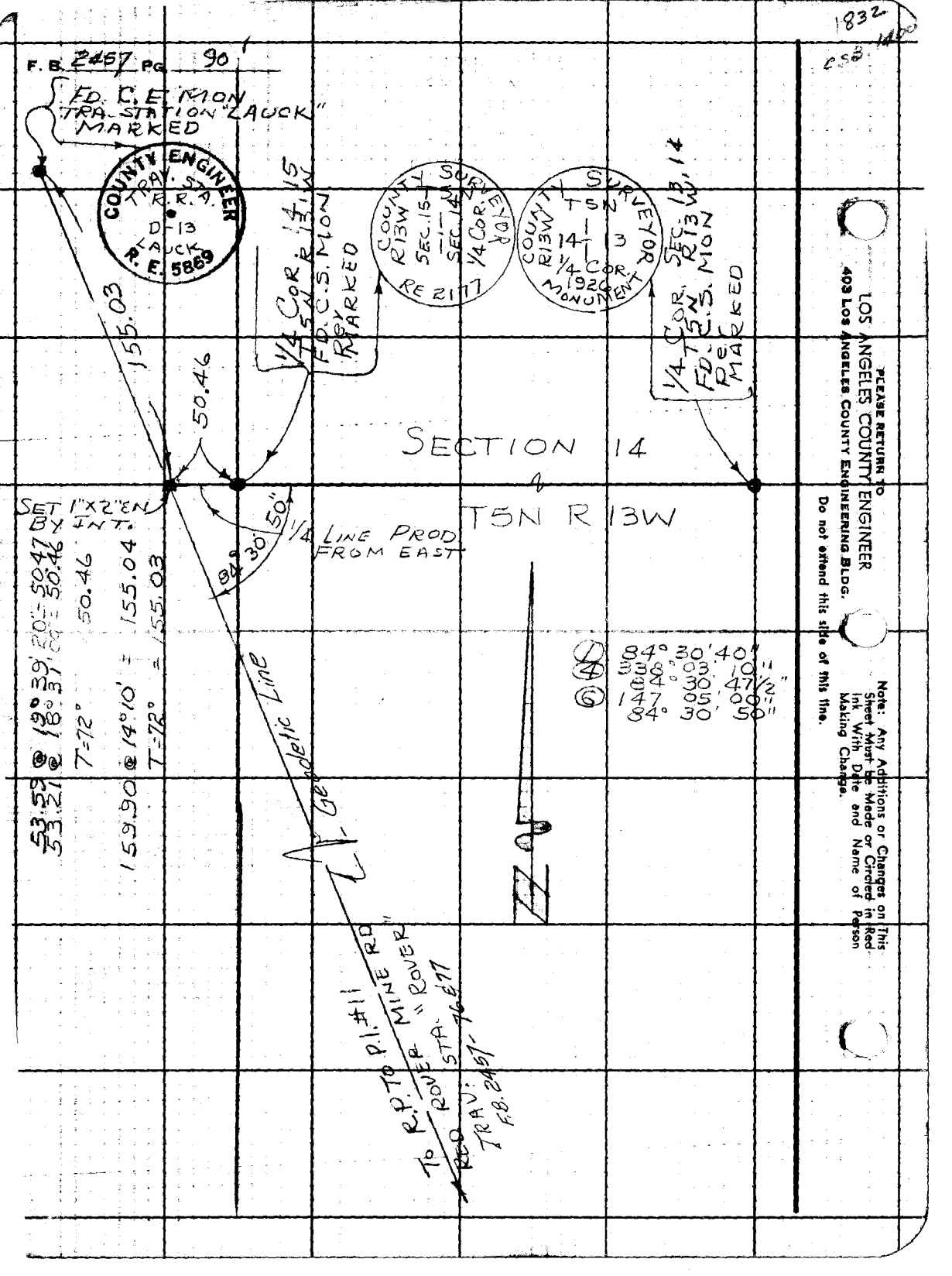
RED ROVER MINE RD.

TIES TO

STATE COODINATE SYSTEM

ZONE 7

COATES
VAN NESS
HUBBARD
MITCHELL
CHERRY


1832
CSB 1400
F. B. 2457 PG. 90
FD. C.E. MON
TRA. STATION "LAUCK"
MARKED
COUNTY ENGINEER
TRAV. STA.
R.R.A.
D-13
LAUCK
R.E. 5869
155.03
50.46
1/4 COR. 14, 15
T5N R13W
FD. C.S. MON
REY
MARKED
COUNTY SURVEYOR
R13W
SEC. 15
SEC. 14
1/4 COR.
RE 2177
COUNTY SURVEYOR
T5N
R13W
14
13
1/4 COR.
1926
MONUMENT
1/4 COR. SEC. 13, 14
T5N R13W
FD. C.S. MON
REY
MARKED
SECTION 14
T5N R13W
SET 1"X2"EN
BY INT.
84° 30' 50"
1/4 LINE PROD
FROM EAST
53.59 @ 19° 39' 20" = 50.47
53.21 @ 18° 31' 00" = 50.46
T=72° 50.46
159.90 @ 14° 10' = 155.04
T=72° = 155.03
Geodetic Line
① 84° 30' 40"
④ 338° 03' 10"
84° 30' 47½"
⑥ 147° 05' 00"
84° 30' 50"
N
TO R.P. TO P.I. #11
MINE RD
ROVER "ROVER"
RED STA.
TRAV: F.B. 2457-76 & 77
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Notes Ck'd by	Survey of SANTIAGO RD	F. B. 2457 PG. 91
Map No.	JN 0095.25 Tape 197 Std 84 °F	
Office Work	Surveyed by J S COATES	
Checked	Notes JSC Date 10-24-63	
Date	Indexed E. J. GALLI DEC 10 63	

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Placed on Cur. Div. W.S. No.
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0095.25

SANTIAGO RD.

TIES TO

STATE COORDINATE SYSTEM

ZONE 7

COATES
VAN NESS
HUBBARD
MITCHELL
CHERRY

76F3095 CE #310 6-62

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Profile No.	Notes Red	Plotted	Job No. 202.00	Division No. 11	F.B. 2457 Pg. 93
	Date	Date	Survey of CADASTRAL MAPPING		
X-Sec. No.	Notes Chkd.	Checked	Survey by WILSON	Notes WILSON	Date 11-6-63
	Date	Date	Map No.	Indexed B. J. GALLI	Date FEB 9 '64

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STATION	B.S.	H.I.	F.S.	ELEV.	
					"CADASTRAL TIE LEVELS" FROM BM #202-52 PER. F.B. 2878-168 TO
					NEW P.I. # 49-S PER. PG. (Z-7 D)
			11-63		
		Wilson			
		Bozen			
		Mather			
	McKnight				

76-L298 CE 307 3-61

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	LAC. [illegible] 202-52
BM # 202-52	2 28	1960 16		1957 877	PER (U.S.C. & G.S. EL. est. 1955)
TP	4 56	1957 31	7 41	1952 75	Fd. 2" Brass Cap C.S. mon. set
TP	11 10	1968 24	0 17	1957 14	in conc. H.W. to R.R. Bridge # B-790
TP	8 71	1976 33 53	0 42	1967 82	on Soledad Cn Rd.; 12.3' N. of ℄
TP	10 07	1985 04 24	1 36	1974 97 5 17	& @ N'ly end of headwall near
					℄ Pt - Stamped "Elev. = 1958.104
				1983.85 Adj.	R.E. 2177" Per. F.B. 2878-168, 169
2-7D	1 55	1985 30 50	1 29	1983 75 95	New P.I. # 49-S ~ 3/4" HEX
TP	1 44	1976 40 68	10 34	1974 96 5 16	Drill Rod - PG. -
TP	0 89	1968 70 90	8 59	1967 81 8 01	
TP	0 18	1957 32 52	11 56	1957 14 34	
TP	7 34	1960 10 30	4 56	1952 76 96	
B.M.			2 22	1957 88 8 08	ELEV. 1957.88 - See line 1

Job No. 2457 Pg. 94 Division No. 11 Notes Red ✓ Plotted ✓ Profile
Survey of CADASTRAL MAPPING Date Date No. X-Sec.
Survey by RCW Notes RCW Notes Chkd RJM Checked
Indexed Date Date 2/6/64 Date No.

Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 0301.00 Tape 0120 Std. 68° °F
Office Work	Surveyed by A.C. GUIZADO
Checked	Notes R. GLIDDEN Date 12-19-61
Date	Indexed C. J. GALLI DEC 1 0 [illegible]

F. B 2457 PG. 95

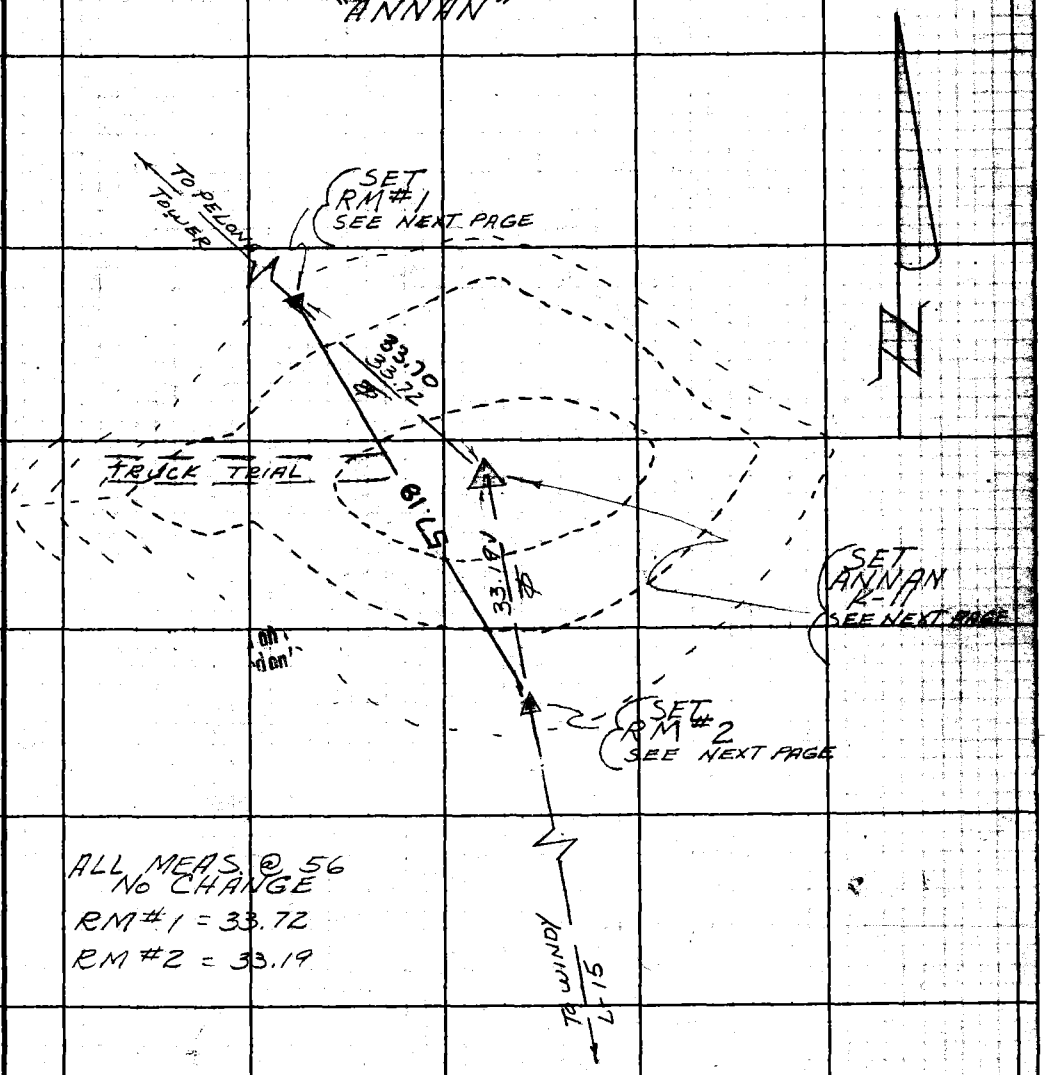
Noted [illegible] Index Card
Placed [illegible] C.G.S. Quad Shts.
Placed [illegible] Div. W.S. No.
Sketch on Geo. Desc. Card

I.A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

SLEEPY VALLEY K-11

"ANNAN"



ALL MEAS. @ 56
NO CHANGE
RM #1 = 33.72
RM #2 = 33.19

INFO. IN RED ON THIS PG. & ALL DATA ON PG. 96 WAS ADDED 2/4/75 BY R.C. WILSON

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763098 CE #247—7-53

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F.B. 2457 PG. 96

SLEEPY VALLEY K11

300' TAPE Nº 139 — MEASUREMENTS — 50 MTR. M3

LEV. @ 48°

33.705' = 33.695'
15.68' = 15.68'
15.52 = 15.52
31.20'

38.19' = 38.18'
18.985' = 18.99
57.17

10.275M = 10.273M = 33.70'
4.730M = 4.730M = 15.52'
4.777M = 4.777M = 15.67'
31.19

11.644M = 11.641M = 38.19'
5.794M = 5.794M = 19.00
57.19

AREA: THIS TRIANG STA. IS IN THE SIERRA PELONA VALLEY AREA OF L.A. CO. IN THE VICINITY OF HAUSER CYN. ADJACENT TO THE ANNAN RANCH. IT IS 400'±S & 300'±W OF THE N.E. COR. OF SEC. 12, T5N, R14W. SEE US G.S. 7.5' SHEET SLEEPY VALLEY, CALIF. QUAD.

ROUTE: FROM ITS JUNCTION WITH SIERRA HWY TRAVEL NLY. ON ANTHONY RD. 0.6 MILE TO PAVEMENTS END, PROCEED ON DIRT RD. 1.0 MILE TO A DIRT RD ON THE LEFT. FOLLOW THIS S.WLY ASCENDING 0.9 MILE TO TRAV. TRACKS ON THE LEFT. FOLLOW THESE WLY. ALONG THE TOP OF RIDGE 0.2 MILE TO THE STA. SITE.

STATION MARK: A 4" L.A. CO. SUR. CONT SYS. BRASS TRIANG. STA DISC STAMPED "ANNAN 1961 LA CO ENGR R.E. 5869". SET FLUSH IN A 12"x12" CONC. PAD WHICH IS 6" ABOVE GRD.

REFERENCE MARKS

RM 1: A 4" LA CO. SUR CONT. SYS. BRASS REFERENCE MARK DISC STAMPED "RM 1 1961" SET FLUSH IN A 8" CONC. SLEEVE 3" ABOVE GRD.

RM 2: IDENTICAL TO RM 1 EXCEPT STAMPED "RM 2". SET FLUSH IN A 8" CONC. SLEEVE 3" ABOVE A 15"x15" CONC. PAD WHICH IS 2" ABOVE GRD.

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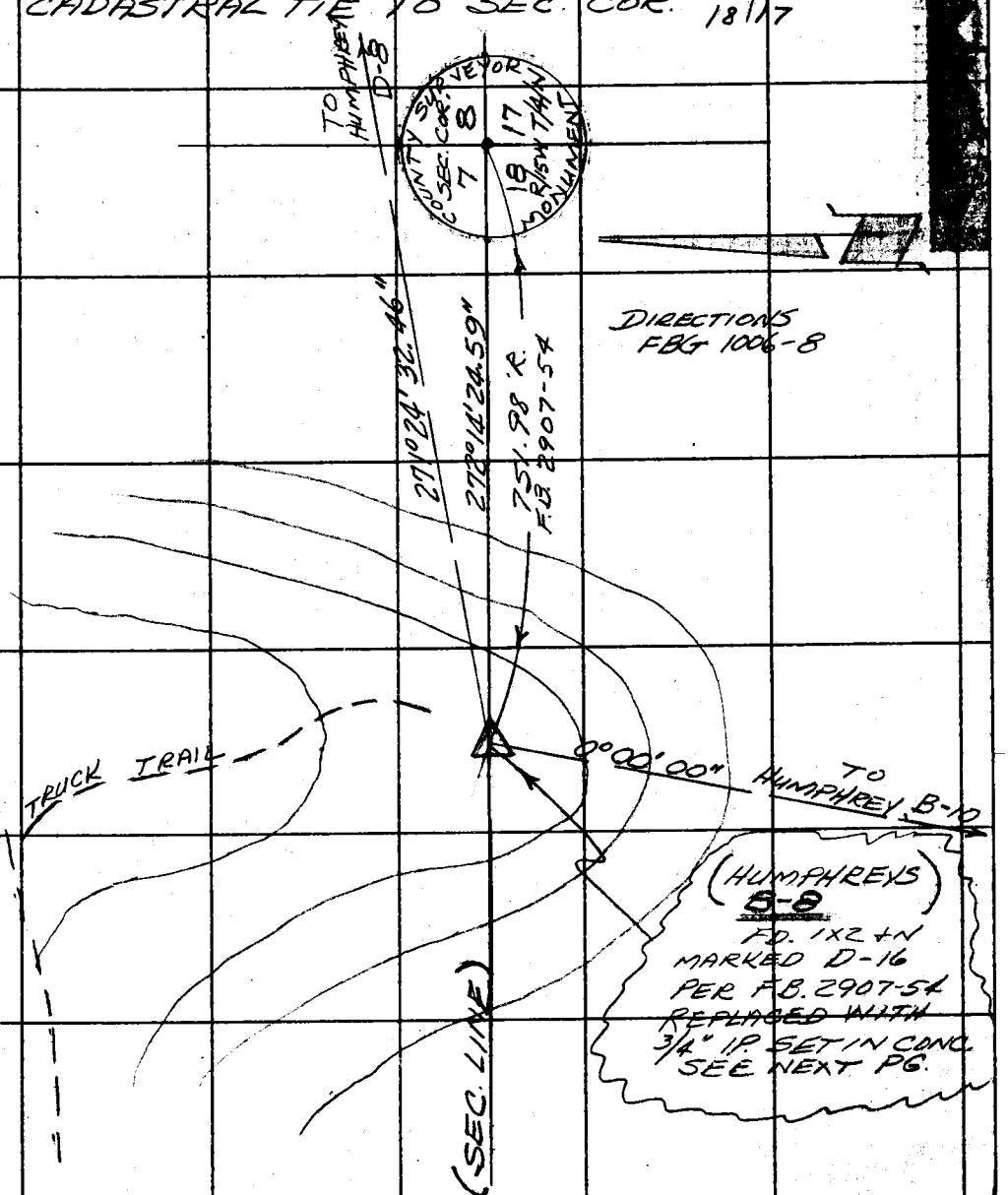
Notes Ck'd by
Map No.
Office Work FORD
Checked
Date

Survey of CADASTRAL TIES
JN 0202.00 Tape 0180 Std 84 °F
Surveyed by R.C. WILSON
Notes J. BAZEN Date 10-1-63
Indexed J. GALLI FEB 5 '64

F. B. 2457 PG. 97

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

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
"HUMPHREYS B-8"
CADASTRAL TIE TO SEC. COR. 7/8 18/17



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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE # 310 3-61

F. B. 2457 PG. 98

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
"HUMPHREYS B-8"

THIS STATION IS IN THE COUNTY OF LOS ANGELES, AND IS ON THE SEC. LINE BETWEEN SEC. 7 + 18 (R/15/W - T/4/N) IN THE SOLEDAD CN. AREA. THIS STATION CAN BE REACHED FROM THE SETTLEMENT OF HONBY BY TRAVELING 0.3 MI. N'LY FROM SOLEDAD CN. RD. ON RUETHER AVE., THEN LT. ON SANTA CLARA ST 1 BLK., THEN RT 0.15 MI. TO CONC. PLANT OFFICE, THEN LT. UP DIRT RD + FOLLOWING DIRT RD. (PASSING AN ABANDONED HOUSE) 0.55 MI. TO TOP OF HILL TO A CABLE GATE., TURN LT. AROUND GATE + TRAVEL ALONG TOP OF GRAVEL PIT 0.15 MI. THENCE TURN LT. UP STEEP HILL THEN RT. ALONG FENCE + FOLLOW DIRT RD. 0.7 MI., TURN RT. OFF DIRT RD. + TRAVEL 300'± S.EL'Y TO STATION.

STATION MARK
REPLACED 1"X2" & NAIL PER F.B. 2907-54 WITH A 3/4" CAPPED & DRILLED I.P. SET IN A CONC. PAD 12" IN DIA. & STAMPED "B-8 L.A.C.E."

REF MARKS - NONE SET

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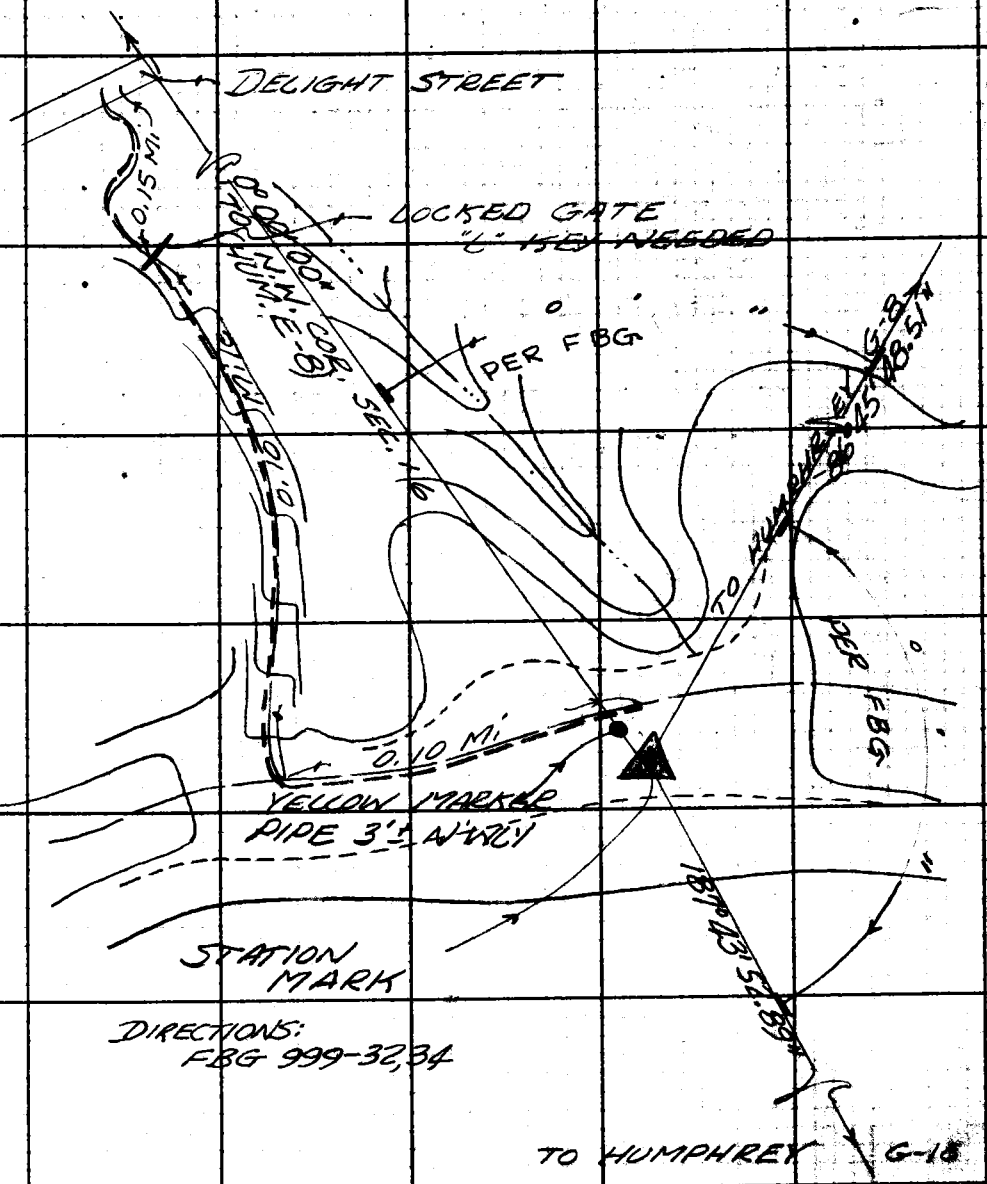
Notes Ck'd by	Survey of CAD TIES	F. B. 2457 Pg. 94
Map No.	0202.00 Type Std °F	
Office Work	Surveyed by Wilson	
Checked	Notes RCW Date 11-63	
Date	Indexed E. J. GALLI FEB 5 '64	

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
HUMPHREYS F-9



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Not Geo. Index Card
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Placed on Sur. Div. W.S. No.
Sketch on Geo. Desc. Card

76F3095 CE #310 6-62

F. B. 2457 PG. 100

THIS STATION is in Los Angeles County in the Mint Cyn Area, and is located in the SE ¼ of section 16 T 4 N R 15 W

TO REACH THIS STATION from the intersection of Soledad Cyn Rd and White's Cyn Rd: Travel 0.8 mile up White's Cyn Rd to Rainer St; thence right to Walnut Springs; thence left to Felbrige St; thence right to Delight; thence left to the end of the street; Thence ~~right~~ left 500' to the north east corner of the tract; thence right up a traveled track 0.15 miles to a locked gate (L Key); thence up the d dirt road 0.10 mile to the top and a saddle; thence left along the top of the ridge 0,10 mile to the station on the right.

STATION MARK
Set a 1" IP in a 10" conc. pad 4" up with an LA Co Engr Tag. Protected to the NW by a 3' yellow marker pipe, 3' from the station.

REF MARKS:
None Set

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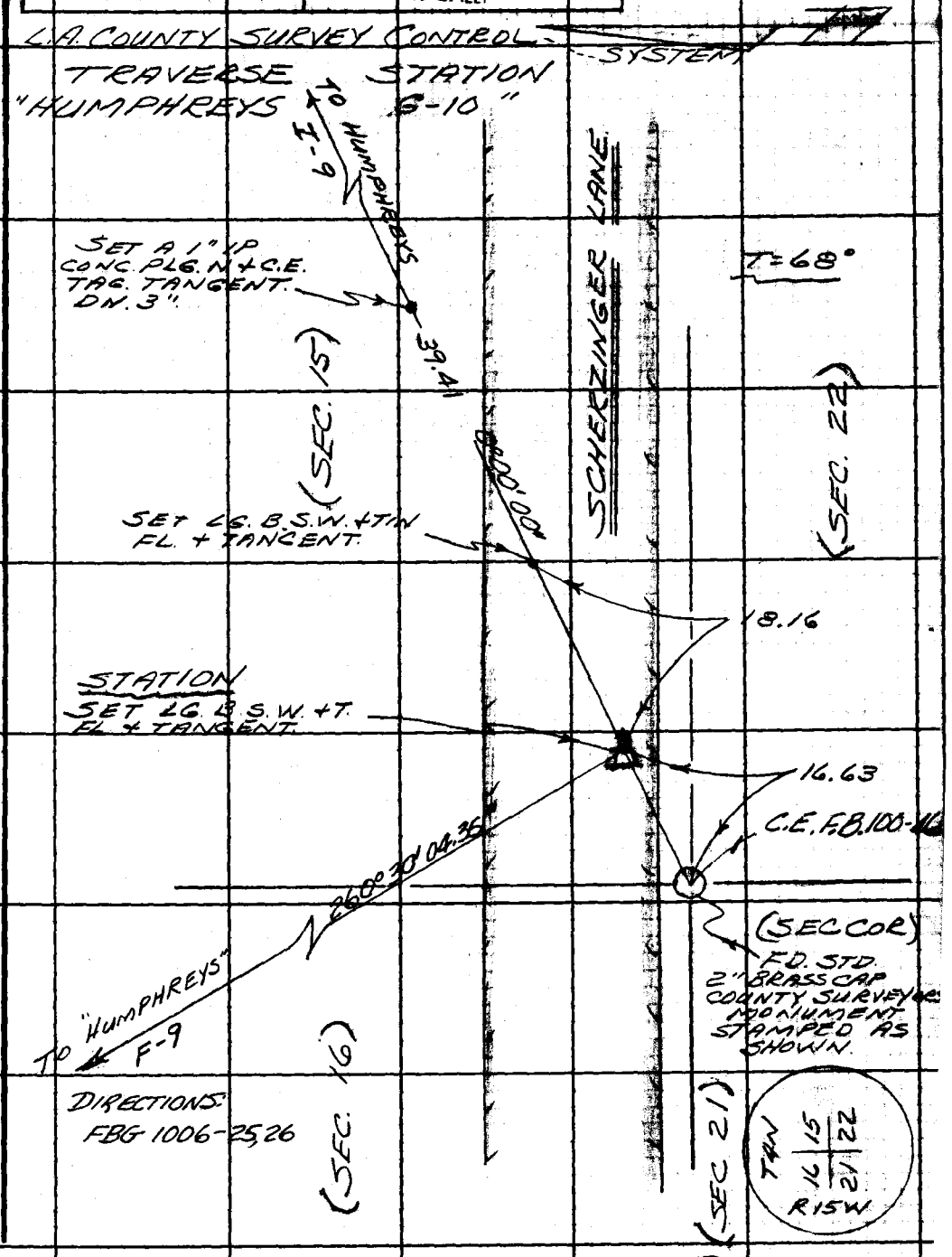
Map No.	JN 0301.00 Tape 0105 Std 68 °F
Office Work	Surveyed by R. WILSON
Checked	Notes J. BAZEN Date 11-5-63
Date	Indexed J. GALLI

F. B. 2457 Pg. 101



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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE #310 6-62

F. B. 2457 PG. 102

TRAVERSE STATION
"HUMPHREYS G-10"

THIS STATION IS IN THE COUNTY OF LOS ANGELES, IN THE MINT CANYON AREA R15W - T4N AND IS 16.63 FEET N.E'LY OF SEC COR 16-15-21-+22.
THIS STATION CAN BE REACHED BY TRAVELING NLY FROM SOLEDAD CN. RD. ON OLD SIERRA HWY. 0.6 MI. TO SCHERZINGER LANE, TURN RT + TRAVEL 300'± TO STATION.

STATION MARK

SET A LG. 6" BT. SPK. W.+TIN FLUSH IN PAVEMENT.

REFERENCE MARKS

NONE SET OTHER THAN TIES SHOWN ON PRECEEDING PG.

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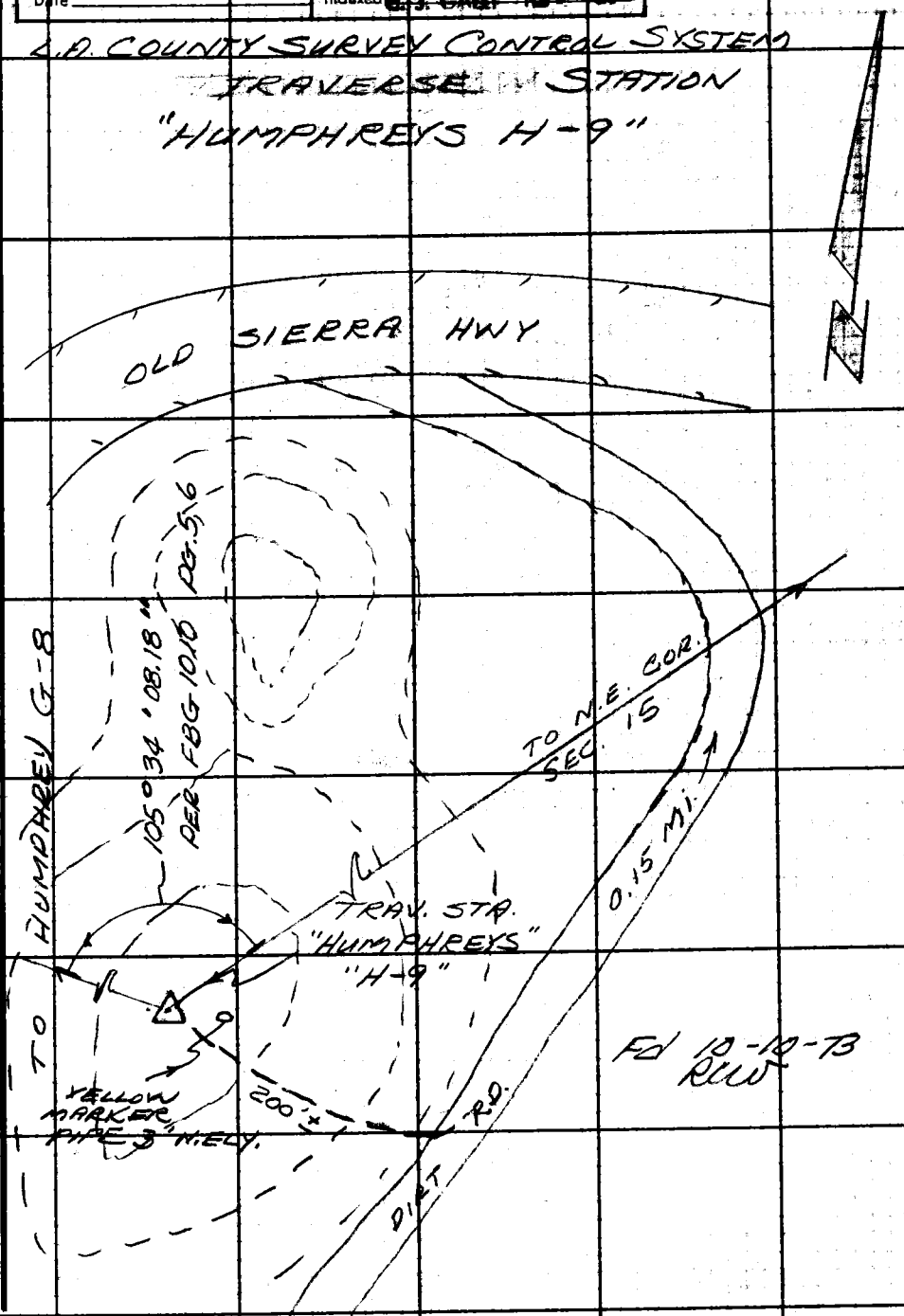
Office Work	Surveyed by R. WILSON
Checked	Notes J. BAZEN Date 11-5-63
Date	Indexed [illegible] FEB 5 '64

F. B. 2457 Pg. [illegible]

L.A. COUNTY SURVEY CONTROL SYSTEM

TRAVERSE STATION

"HUMPHREYS H-9"



Fd 10-10-73 RCW

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

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S C.E. #310 6-62

F. B. 2457 PG. 104

TRAVERSE STATION
"HUMPHREYS H-9"

THIS STATION IS IN THE COUNTY OF LOS ANGELES IN THE MINT CN AREA T 4N R15W AND IS EAST OF THE CENTER OF SECTION 15

THIS STATION CAN BE REACHED BY TRAVELING NLY ON MINT CN RD (OLD SIERRA HWY) 1.6 MILES± FROM THE INTERSECTION OF SOGEORAD CN RD TO A DIRT RD. TO THE RIGHT TURN RT UP THIS RD. 0.15 MILE & TURN SHARP RIGHT UP A SMALL HILL TO THE TOP (200'±) AND THE STA.

STATION MARK,
SET A 1" I.P. & COUNTY ENGR. TAG IN A 8" CONC. POST UP 4" PROTECTED BY A YELLOW MARKER PIPE 3'± EAST

REF MARKS
NONE SET

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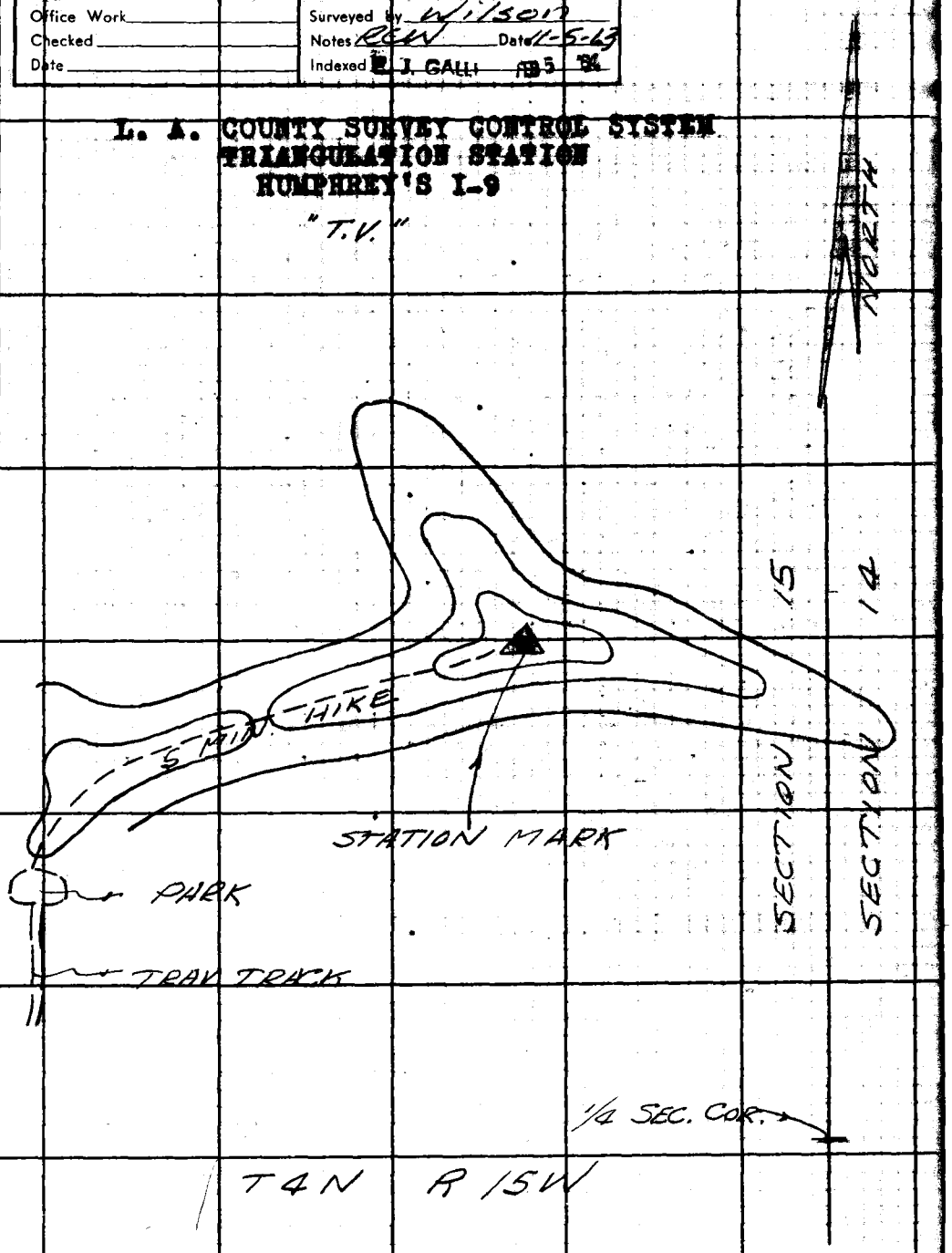
Map No.	JN 0202.00 Tape Std °F	
Office Work	Surveyed by Wilson	
Checked	Notes RCW Date 11-5-63	
Date	Indexed E. J. GALLI	

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
HUMPHREY'S I-9

"T.V."



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

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76F3095 CE #310 6-62

THIS STATION is in the Mint Cyn area, in the County of Los Angeles, near the ¼ corner between sections 15 & 14 T 4 N R 15 W

TO REACH THIS STATION FROM the Intersection of Soledad Cyn Rd. and Mint Cyn Hwy; Travel easterly on Soledad Cyn Rd. to the beginning of the New Freeway; turn off the Freeway at the Lost Cyn Turnoff (This leads to the old Soledad Cyn Rd) and continue easterly for a total distance of 2.2 miles to a dirt road to the north (Left) Turn lft 0.05 mile to a Y and bear right; travel 0.35 miles to a Y and bear left; travel 0.30 miles to a fork in the road and bear right up a traveled track 0.30 miles to the top of the ridge and the base of a knob. Park here and hike out the ridge in an easterly direction to the station. (5Min Hike)

Station Mark:
Set a standard 4" brass disk in a precast 6" conc. post stamped "L.A.CO.ENGR. R.E.5869 HUMPHREY 1.4 1963" (L A COUNTY SURVEY CONTROL SYSTEM) monument.

REF MARKS

None set due to terrain.

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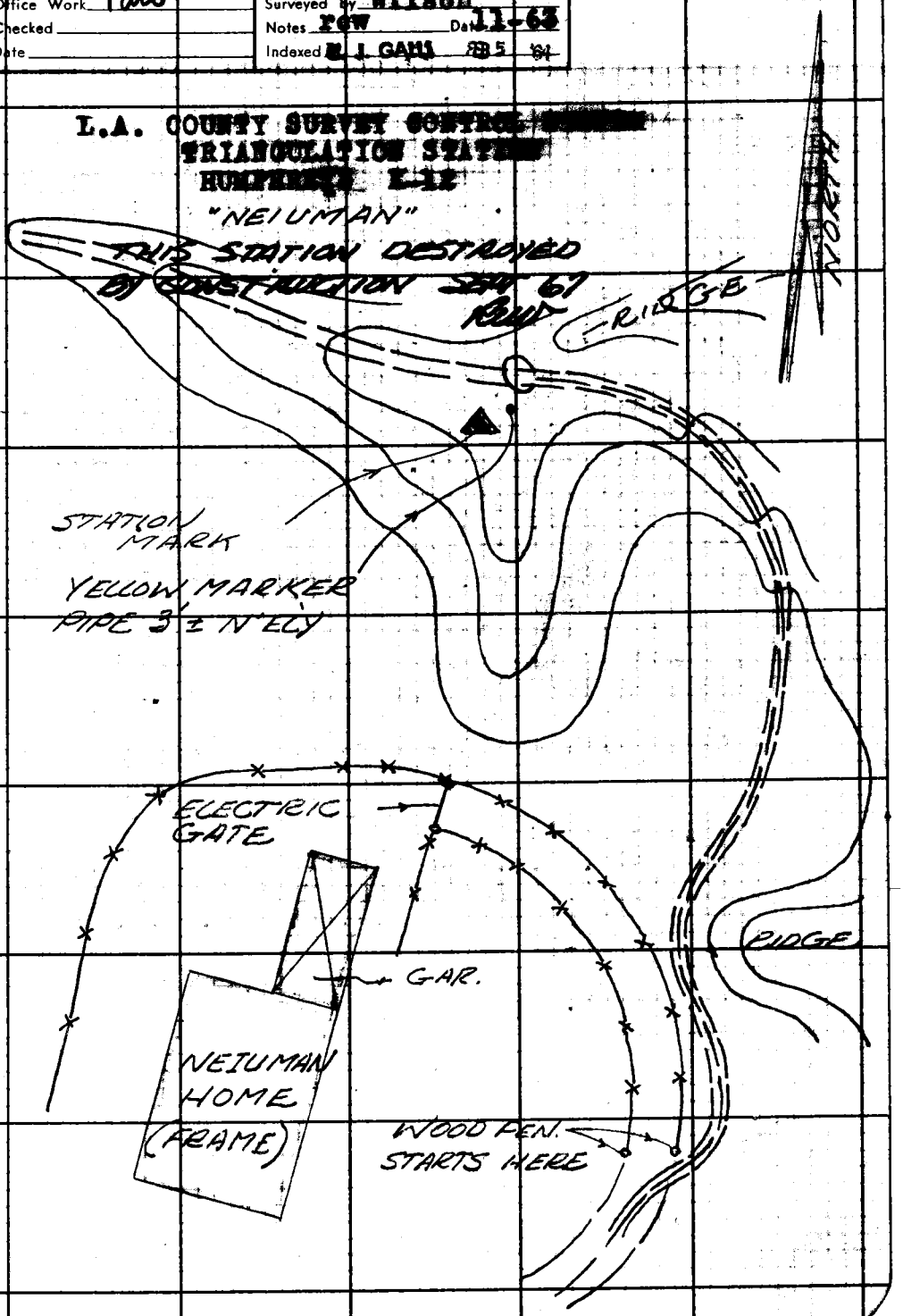
Map No.	JN 0301.00 Type Std °F	
Office Work PAW	Surveyed by Wilson	
Checked	Notes rew Date 11-63	
Date	Indexed [illegible] 85 '64	

L.A. COUNTY SURVEY CONTROL [illegible]
TRIANGULATION STATION
HUMPHREYS K-12



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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3095 CE #310 6-62

F. B. 2457 PG. 108

THIS STATION is in Los Angeles County in the Sand Cyn Area, South & West of the Ctr of Section 25 T 4 N R 15 W

TO REACH THIS STATION from the intersection of Sand Cyn Rd. and the New Freeway: Take the Sand Cyn Rd. turnoff and travel in a southerly direction on Sand Cyn Rd 1.7 miles to a tavern on the right "ACE GAIN'S PLACE"; then south 2400' to a dirt road to the left with a mail box at the edge of the road; (the name NEIUMAN is on the box) Turn left and travel 4600' to the top of the hill (bearing to the left past a frame house) to an electric fence gate. Take the gate down **AND CLOSE BECAUSE OF LIVESTOCK** and proceed up a oiled road tothe Neiuman house. At the start of a white wooden fence on the right side of the road, pass around the fence to the right and travel parallel to the fence 600' to a traveled dirt track up the side of a small ridge; travel this track 500' to the crest of the ridge and the station.

NOTIFY PROPERTY OWNER BEFORE VISITING THIS STATION

STATION MARK:
Set a std. L.A.County Survey Control System Triangulation # 4" brass mark in a 12" conc pad 6" up stamped " L.A.CO.ENGR. R.E. 5869 HUMPHREY K-12 1968"

REF. MARKS:
None Set

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403 Los Angeles County Engineering Bldg.
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Map No.	JN 020200 Tape 100 Std 84 °F
Office Work PCW	Surveyed by Wilson
Checked	Notes RCW Date 11-63
Date	Indexed E. J. GALLI FEB 5 '64

F. B. 2457 Pg. 109

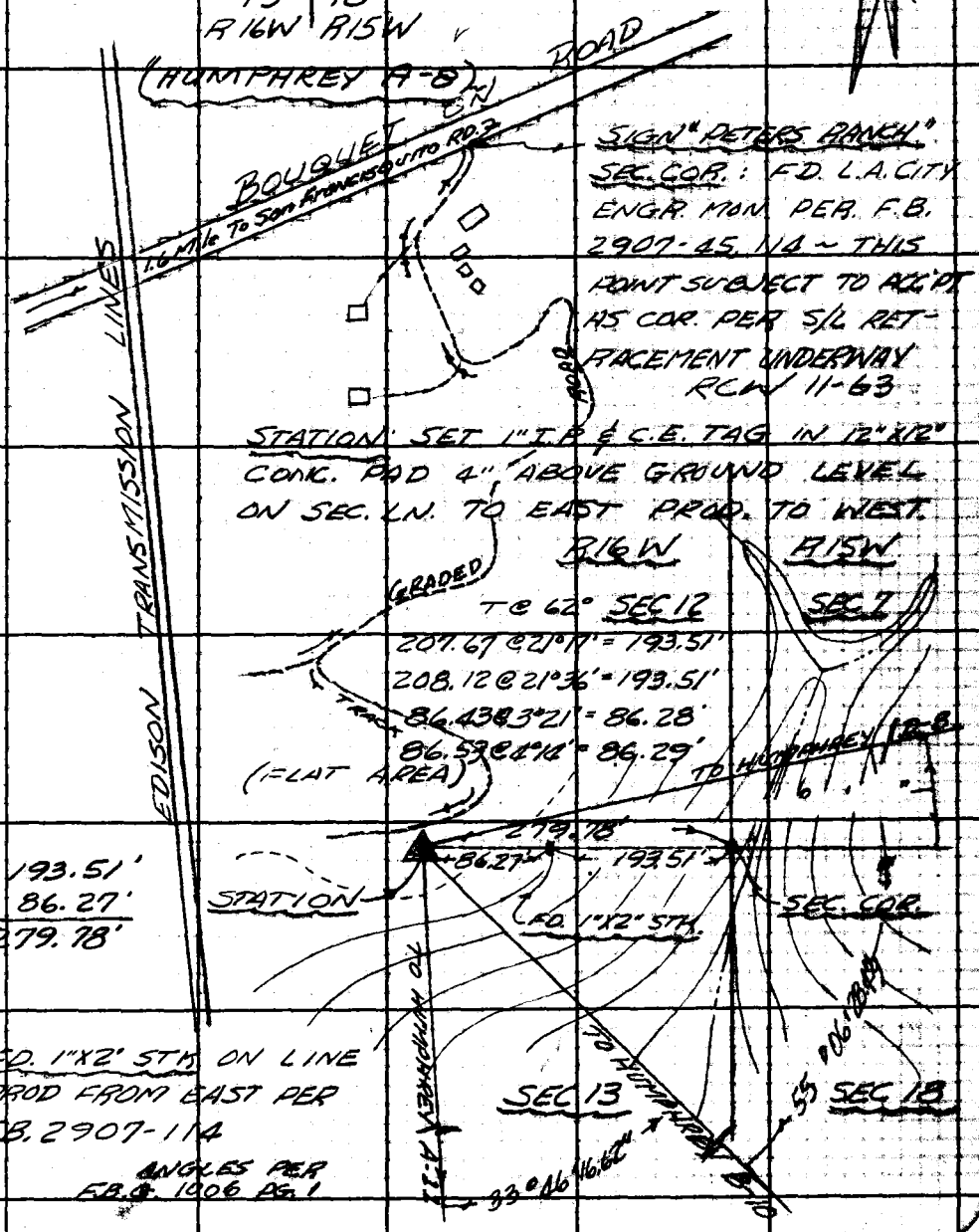
L.A. COUNTY SURVEY CONTROL SYSTEM

TRAVERSE STA. 279.78' WEST OF SECTION CORNER FOR CADASTRAL TIE

T4N

12	7
13	18

R16W R15W



SIGN "PETERS RANCH"
SEC. COR.: FD. L.A. CITY ENGR. MON. PER. F.B. 2907-45, 114 ~ THIS POINT SUBJECT TO ACC'PT AS COR. PER S/L RETRACEMENT UNDERWAY RCW 11-63

STATION: SET 1" I.P. & C.E. TAG IN 12"X12" CONC. PAD 4" ABOVE GROUND LEVEL ON SEC. LN. TO EAST PROD. TO WEST.

R16W R15W

T @ 62° SEC 12 SEC 7

207.67 @ 21°17' = 193.51'
208.12 @ 21°36' = 193.51'
86.43 @ 3°21' = 86.28'
86.53 @ 4°14' = 86.29'

193.51'
86.27'
279.78'

FD. 1"X2" STK ON LINE PROD FROM EAST PER F.B. 2907-114

ANGLES PER F.B. 1006 PG. 1

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76F3095 C.E. #310 6-62

F. B. 2457 PG. 110

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Office Work	Surveyed by RC Wilson
Checked	Notes RCW Date 11-63
Date	Indexed [redacted] GALLI FEB 5 '64

F. B. 2457 PG. 41

HUMPHREY A-11 (A-11)

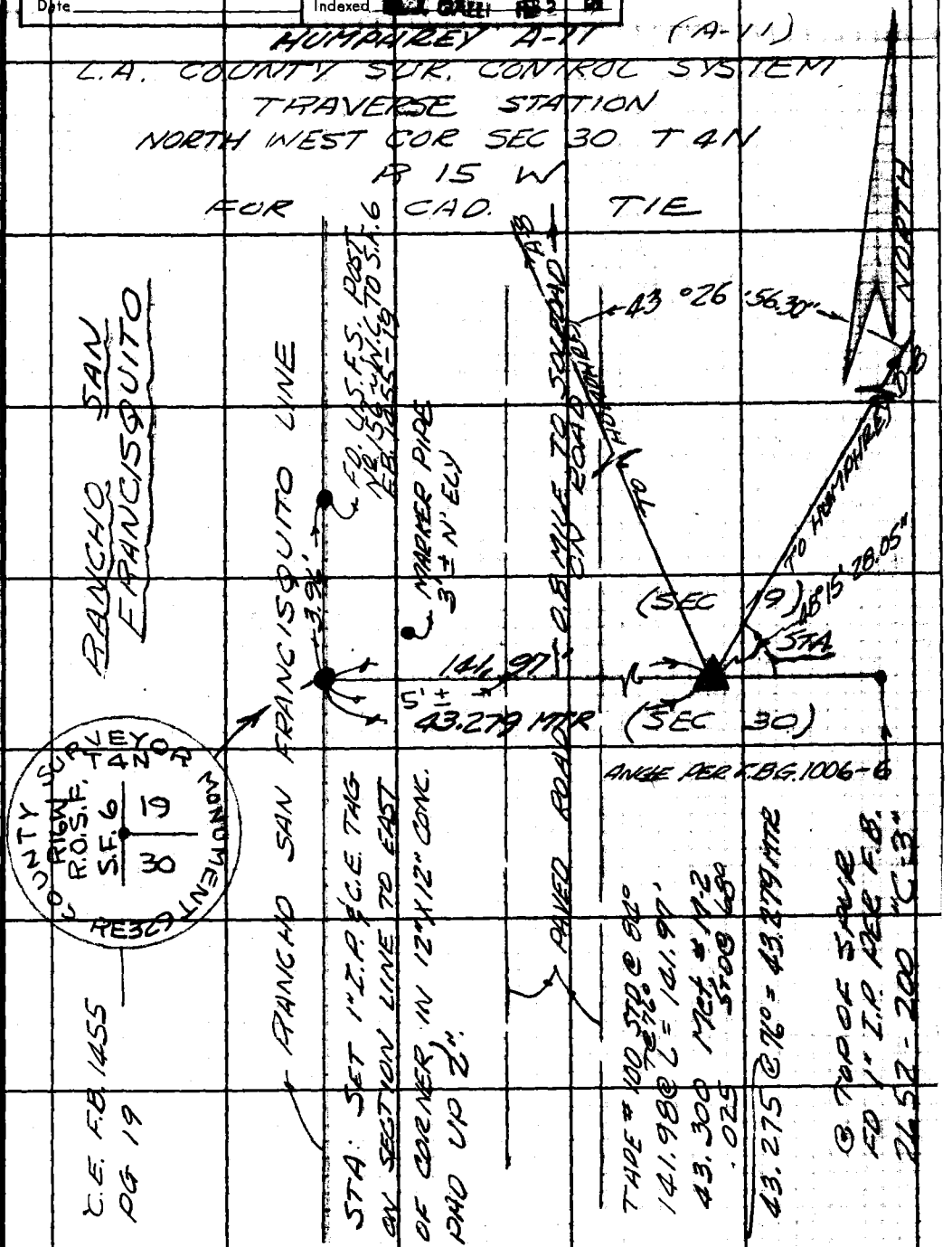
L.A. COUNTY SUR. CONTROL SYSTEM

TRAVERSE STATION

NORTH WEST COR SEC 30 T 4N

R 15 W

FOR CAD. TIE



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Notes on Geo. Index Card ✓
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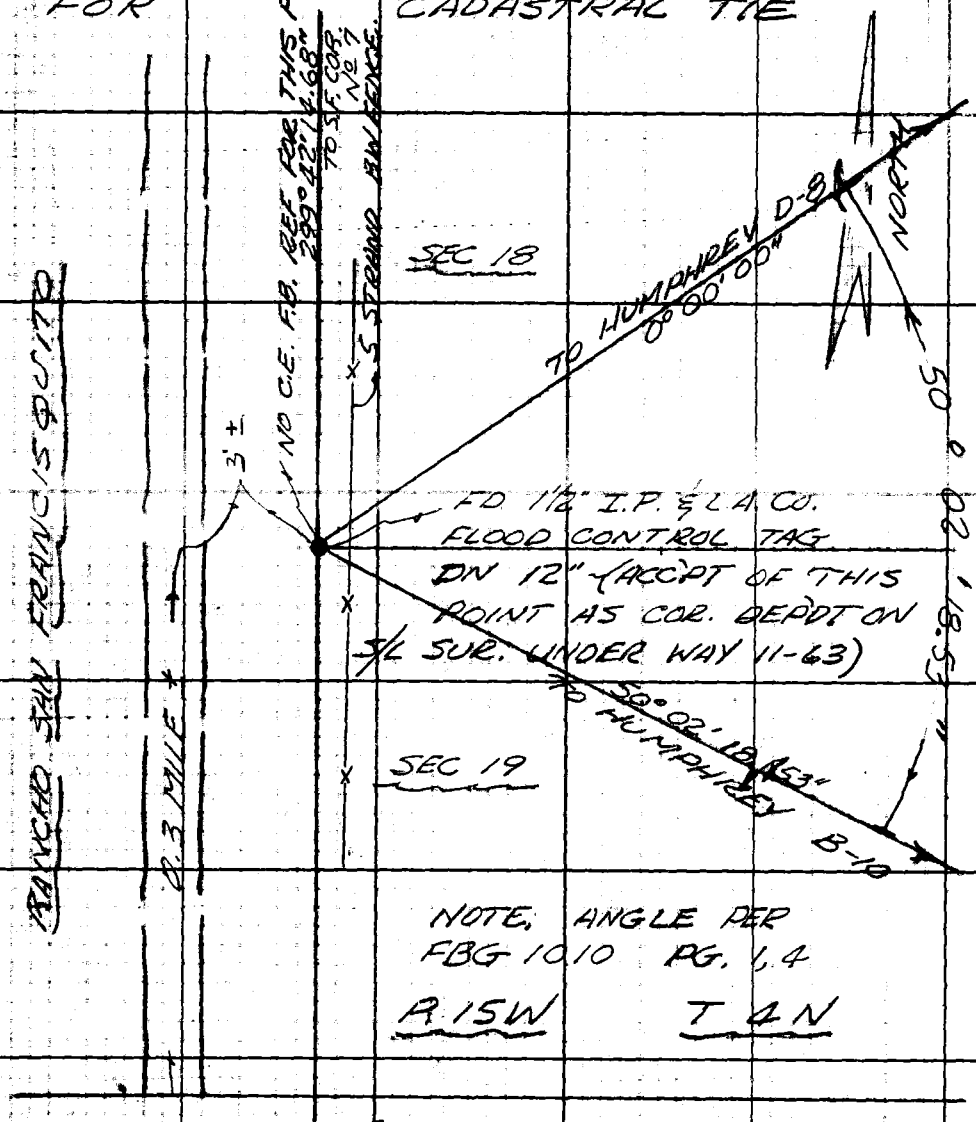
Placed on Sur. Div. W.S. No.
Sketch on Geo. Desc. Card

76F3095 CE #310 6-62

F. B. 2457 PG. 112

HUMPHREY (A-10)

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
COR. BETWEEN SEC 18 & SEC 19 AT
INTERSECTION OF RANCHO SAN FRANCISQUITO
EASTERLY BOUNDRY LINE T4N R15W
FOR CADASTRAL TIE



NOTE: ANGLE PER
FBG 1010 PG. 1,4

R15W T4N

SOLEDAD CYN ROAD

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

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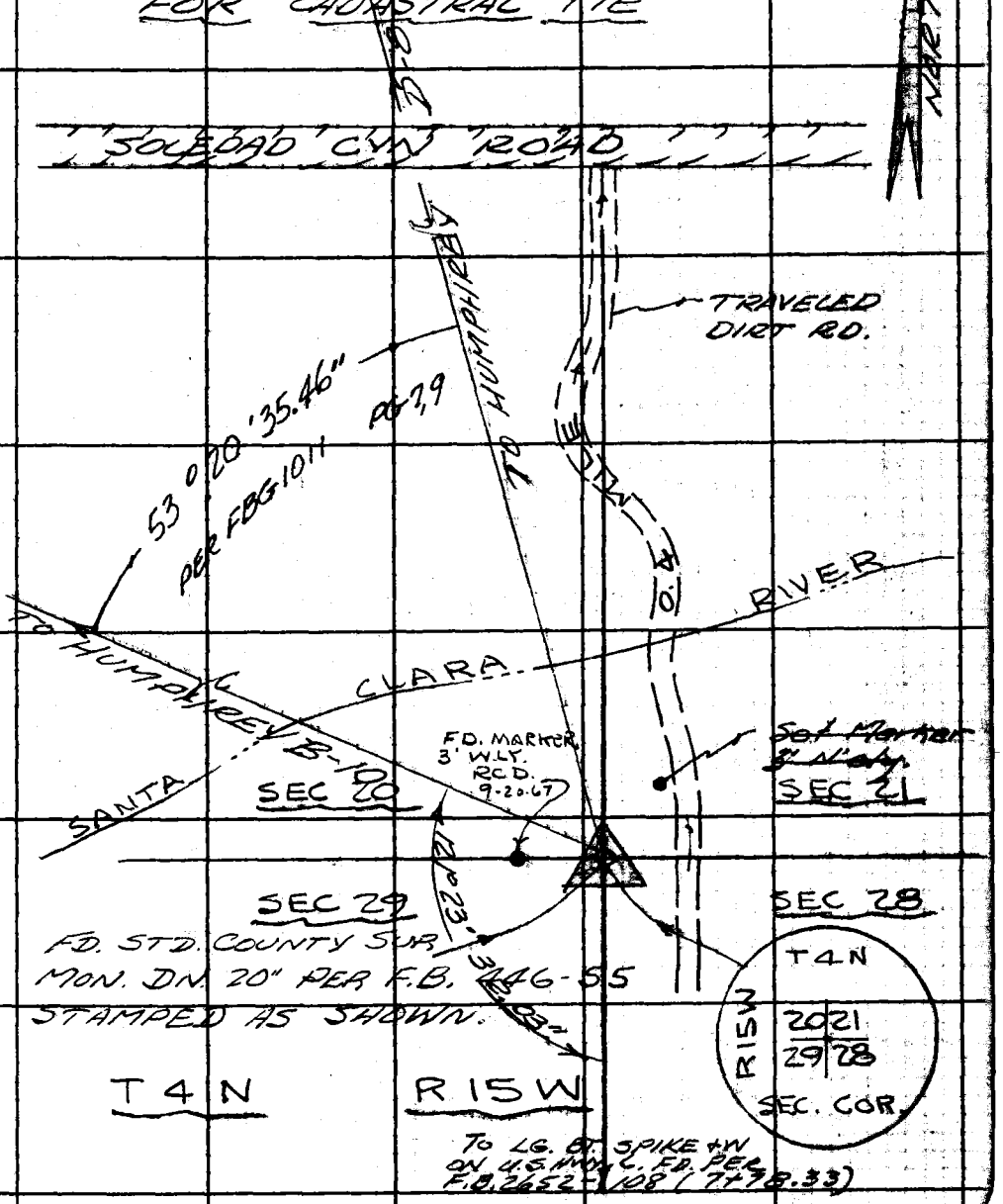
Map No.	JN 000200 Tape Std °F	
Office Work PLW	Surveyed by Wilson	
Checked	Notes RCW Date 11-63	
Date	Indexed R. J. GALLI 1965 '64	

HUMPHREY E-11

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION

SEC. COR. 20, 21, 28, 29, T4N R15W

FOR CADASTRAL TIE



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76F3095 CE #310 6-62

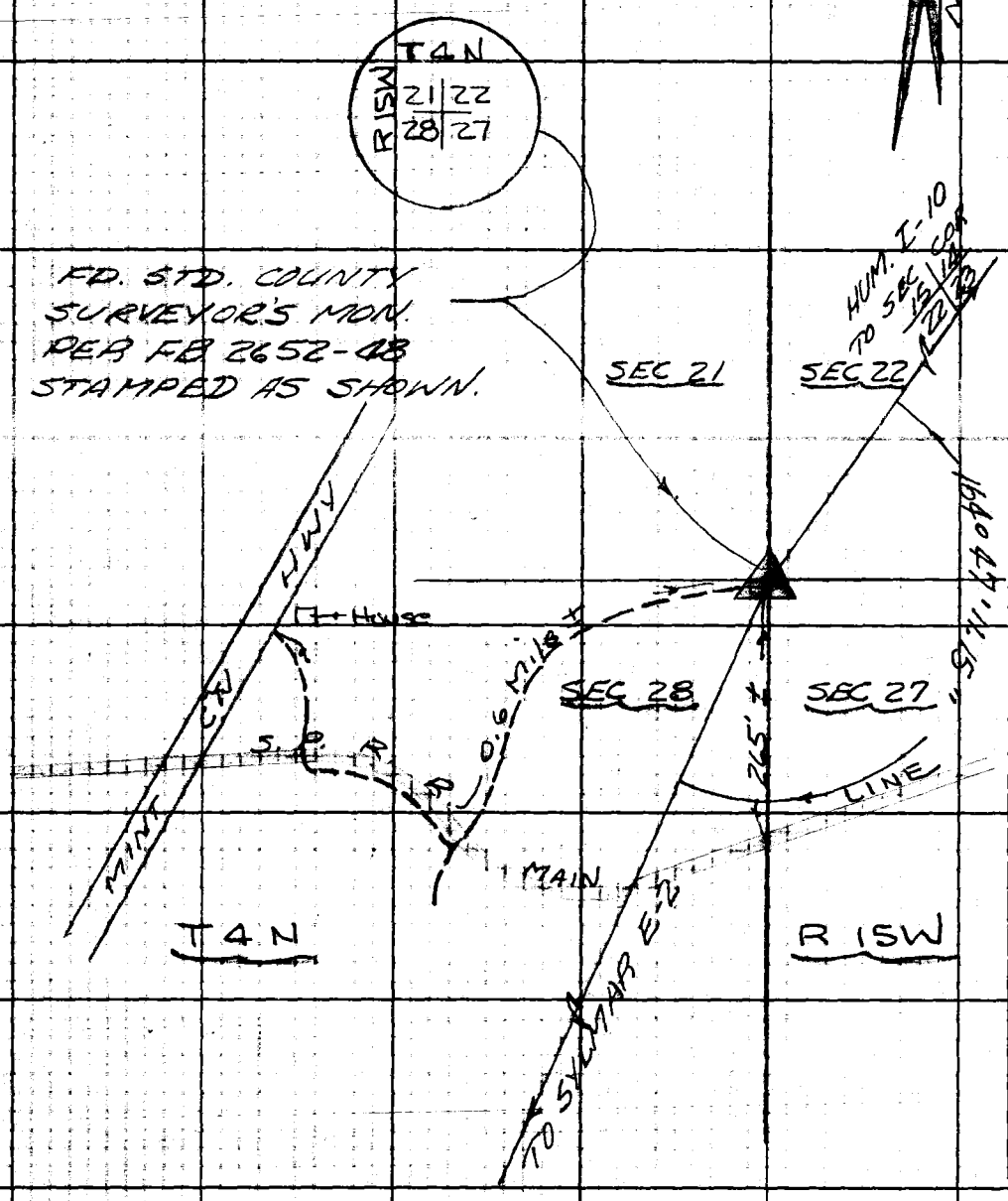
F. B. 2457 PG. 114

HUMPHREY G-11

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION

SEC. COR. 21, 22, 27, 28 T4N R15W
FOR CADASTRAL TIE

ANGLES - FBG 1010 - 45, 46



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Plat U.S.G.S. Quad. Sht.
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Office Work FAW	Surveyed by Wilson
Checked	Notes RCW Date 9-63
Date	Indexed R. J. GALLI

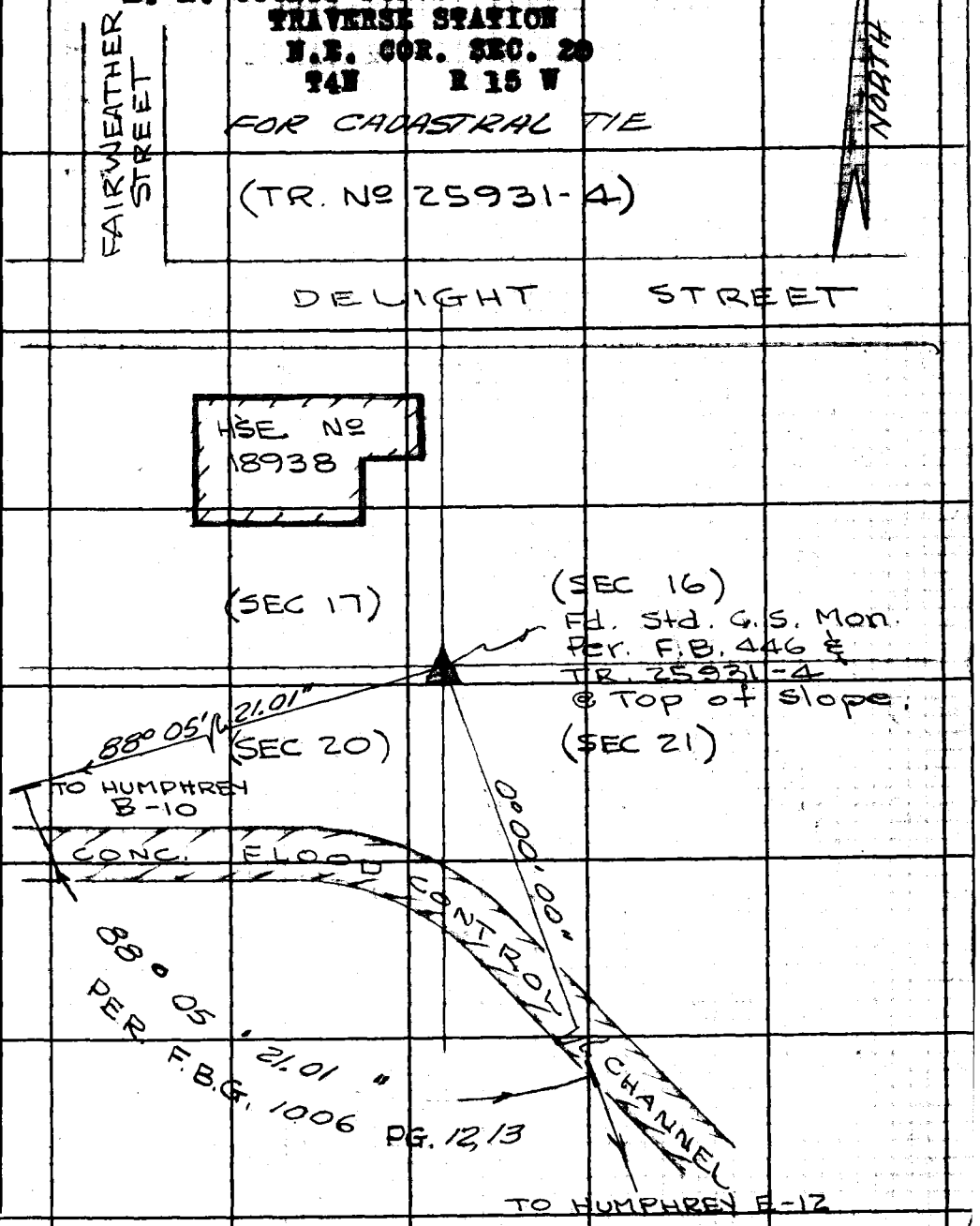
F. B. 2457 PG.

HUMPHREY B-10

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
N.E. COR. SEC. 20
T4N R 15 W

FOR CADASTRAL TIE

(TR. Nº 25931-4)



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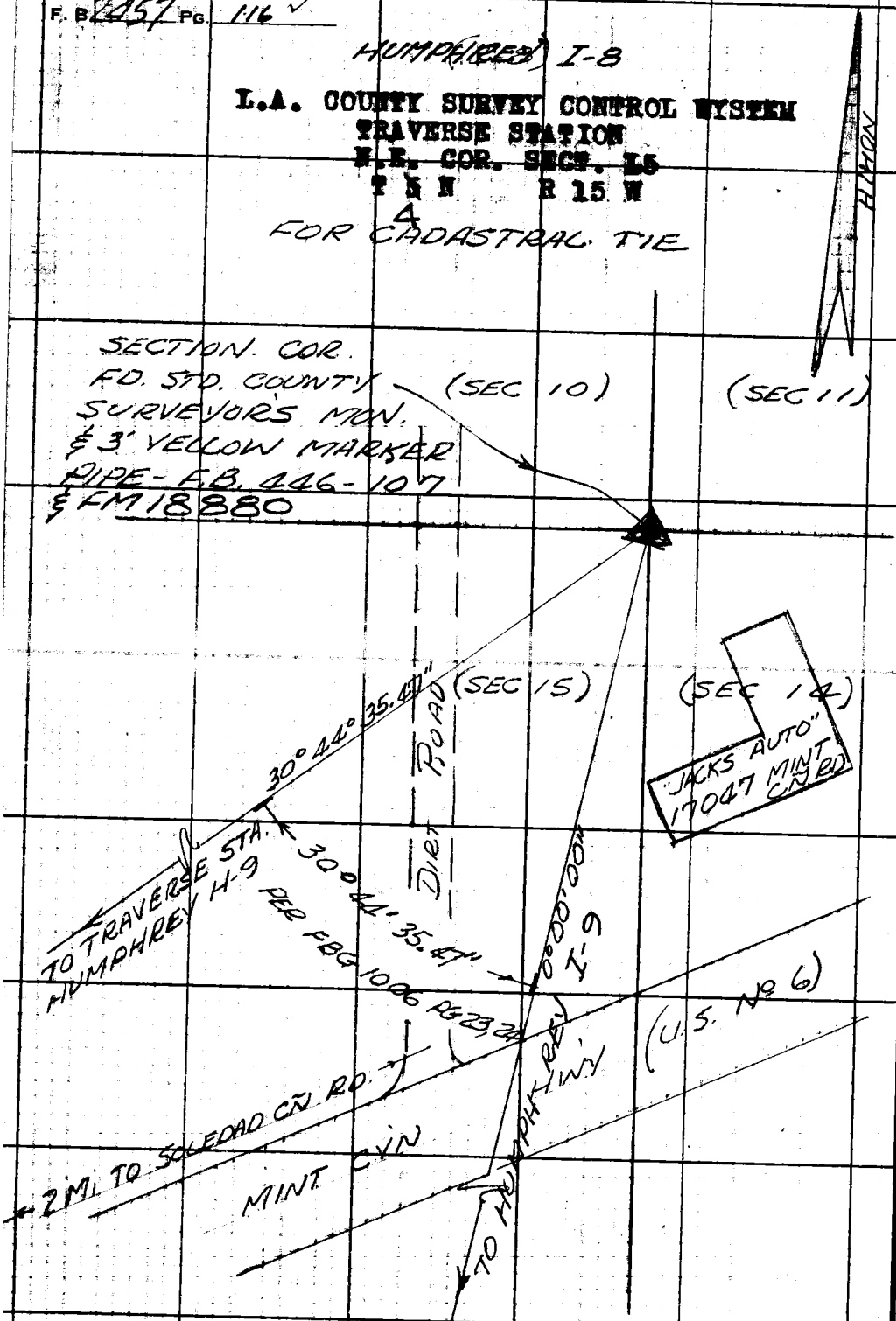
76F3095 CE #310 6-62

F. B. 2457 PG. 116

HUMPHREY I-8

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
N.E. COR. SECT. 15
T 5 N R 15 W

FOR CADASTRAL TIE



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Plat U.S.G.S. Quad. Shts.
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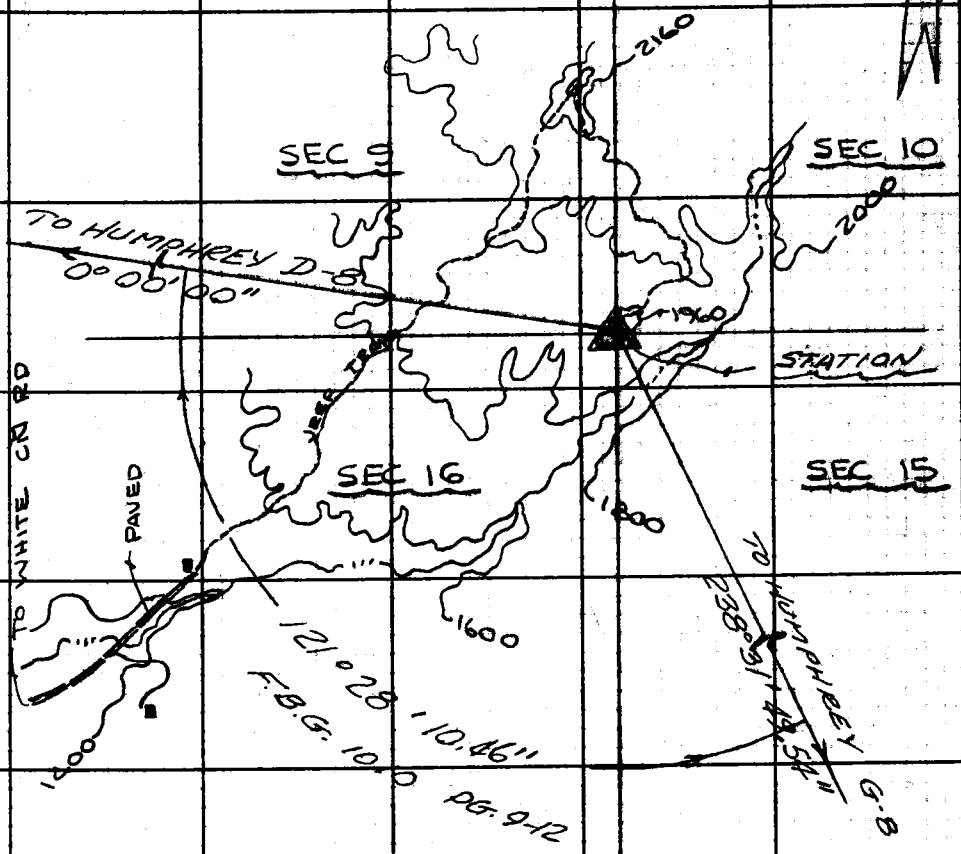
Map No.	JN 0202.00 Tape Std °F	
Office Work	Surveyed by Wilson	
Checked	Notes RCW Date 11-63	
Date	Indexed E. J. GALLI 10-5-64	

HUMPHREY G-8A

L.A. COUNTY SUR. CONTROL SYSTEM
TRAVERSE STATION ~ SEC. CORNER
9, 10, 15, 16 T4N R15W
FOR CADASTRAL TIE



STATION: FD 4" I.P. CONC. PLUG & NAIL PER F.M. 18880 ~ THIS POINT SUBJECT TO ACC'PT AS CORNER PER SECTION LINE RETRACEMENT UNDER WAY ~ (SEE FB 2907) RC Wilson

11-6-63

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

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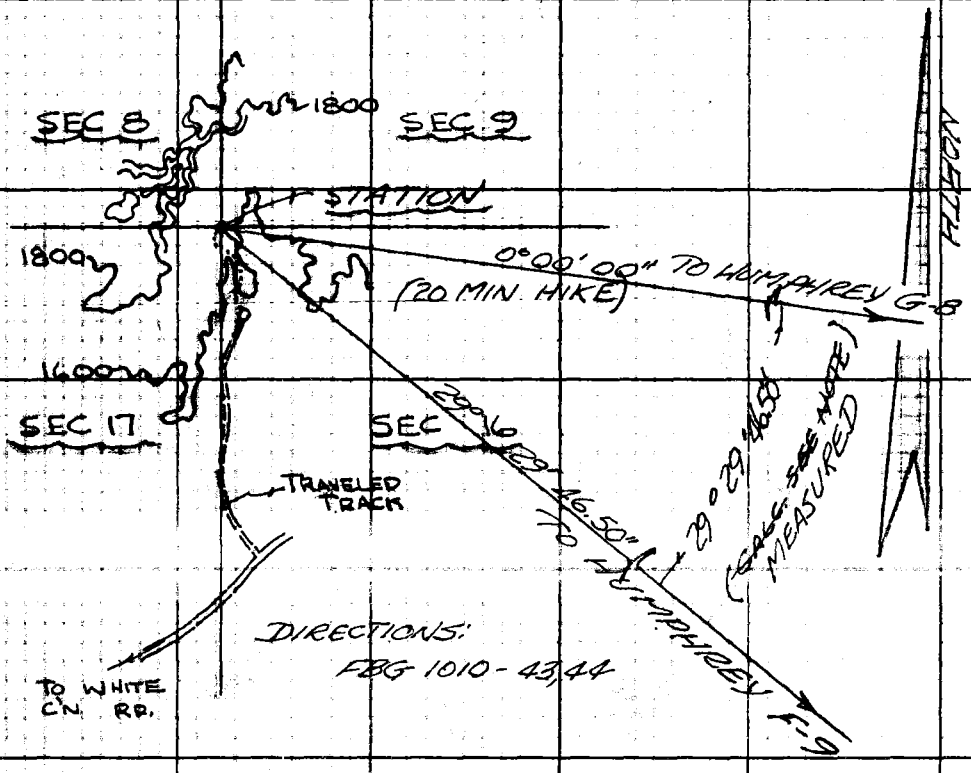
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE #310 6-62

F. B. 2457 Pg. 118 HUMPHREY E-8

L.A. COUNTY SURVEY CONTROL SYSTEM
CADASTRAL TIE TO SECTION CORNER
8, 9, 16, 17, T4N R15W
FOR CADASTRAL TIE



DIRECTIONS:
FBG 1010 - 43,44

STATION: FD. 4" I.P. CONC. PLUG & NAIL PER F.M. 18880 ~ THIS POINT SUBJECT TO ACC'PT AS CORNER PER SECTION LINE RETRACEMENT UNDER WAY ~ (SEE F.B. 2907)

R.C. Wilson
11-6-63

(NOTE: THIS POINT ~~NOT~~ OCCUPIED ~ ANGLE [MEASURED ~~SHOWN CALCULATED FROM TRIANGLE FORMED FROM HUMPHREY G-8 ~ F-9 ~ COR SHOWN.~~] SEE GEO. DISTANCE FROM G-8 & F-9)

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

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Map No.	JN 0202.00 Tape 100 Std. 84 °F
Office Work PAW	Surveyed by R WILSON
Checked	Notes BAZEN Date 11-8-63
Date	Indexed R. J. GALLI

F. B. 2457 PG. 119

Noted on Geo. Index Card
Plotted on U.S.G.S. Quad. Map
Plotted on Sur. Div. U.S.
Sketch on Geo. Desc. Card

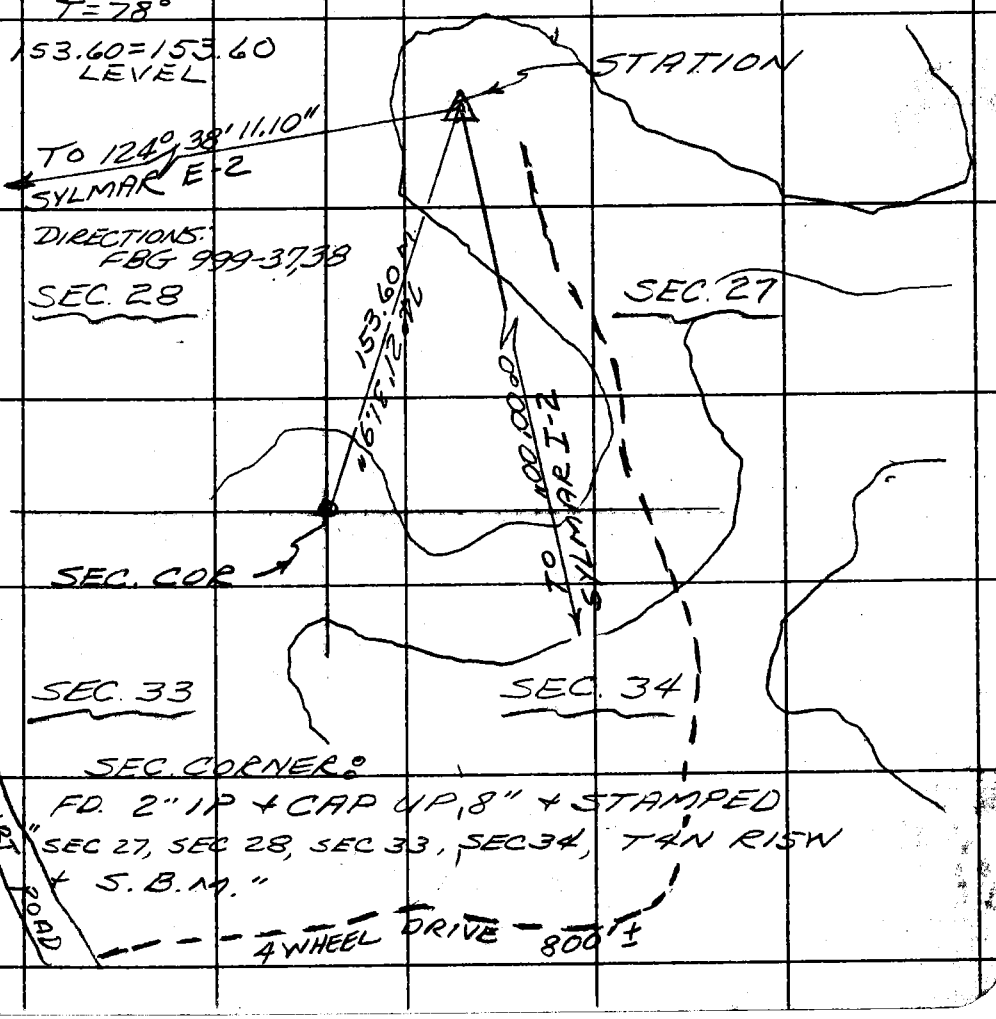
L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
"SYLMAR G-1"

STA. MARK:
SET A 1" IP IN A 12"x12" CONC. PAD. FL., WITH CE. NAIL + TAG. + MARKED PAD "SYLMAR G-1"

T=78°
153.60=153.60
LEVEL

TO 124° 38' 11.10"
SYLMAR E-2

DIRECTIONS:
FBG 999-37,38



SEC. CORNER:
FD. 2" IP + CAP UP, 8" + STAMPED "SEC 27, SEC 28, SEC 33, SEC 34, T4N R15W + S.B.M."

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE # 310 3-61

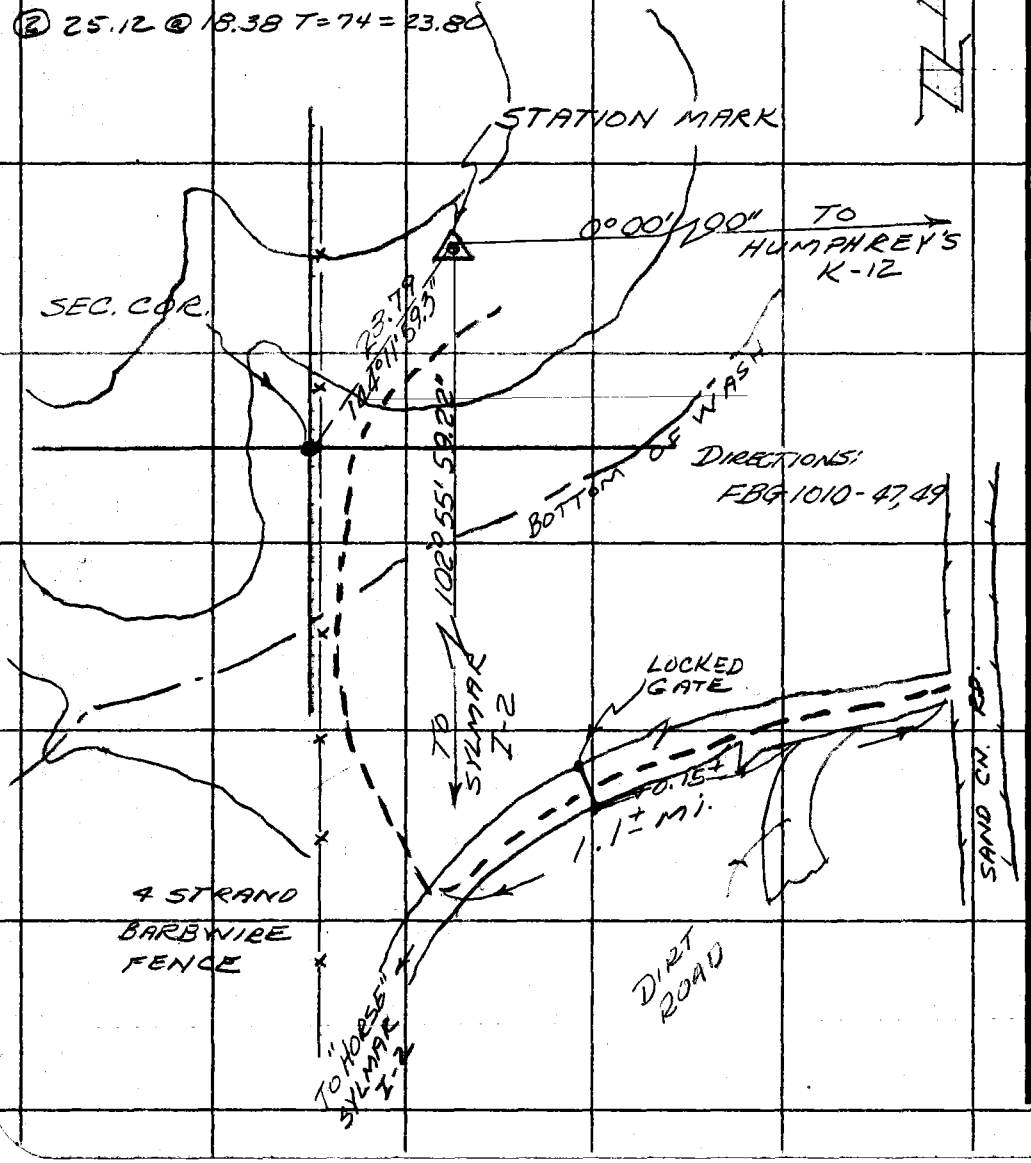
F. B 2457 PG 120

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
"SYLMAR I-1"

STATION MARK:
SET 1" IP IN A 10"X10" CONC. PAD FL.,
WITH A C.E.N + TAG.

300' TAPE #100

① 25.57 @ 21.29 T=74°=23.79
② 25.12 @ 18.38 T=74=23.80



Note: Geo. Index Card
Pla U.S.G.S. Quad. Shts.
Placer on Sur. Div. W.S.No.
Sketch on Geo. Desc. Card

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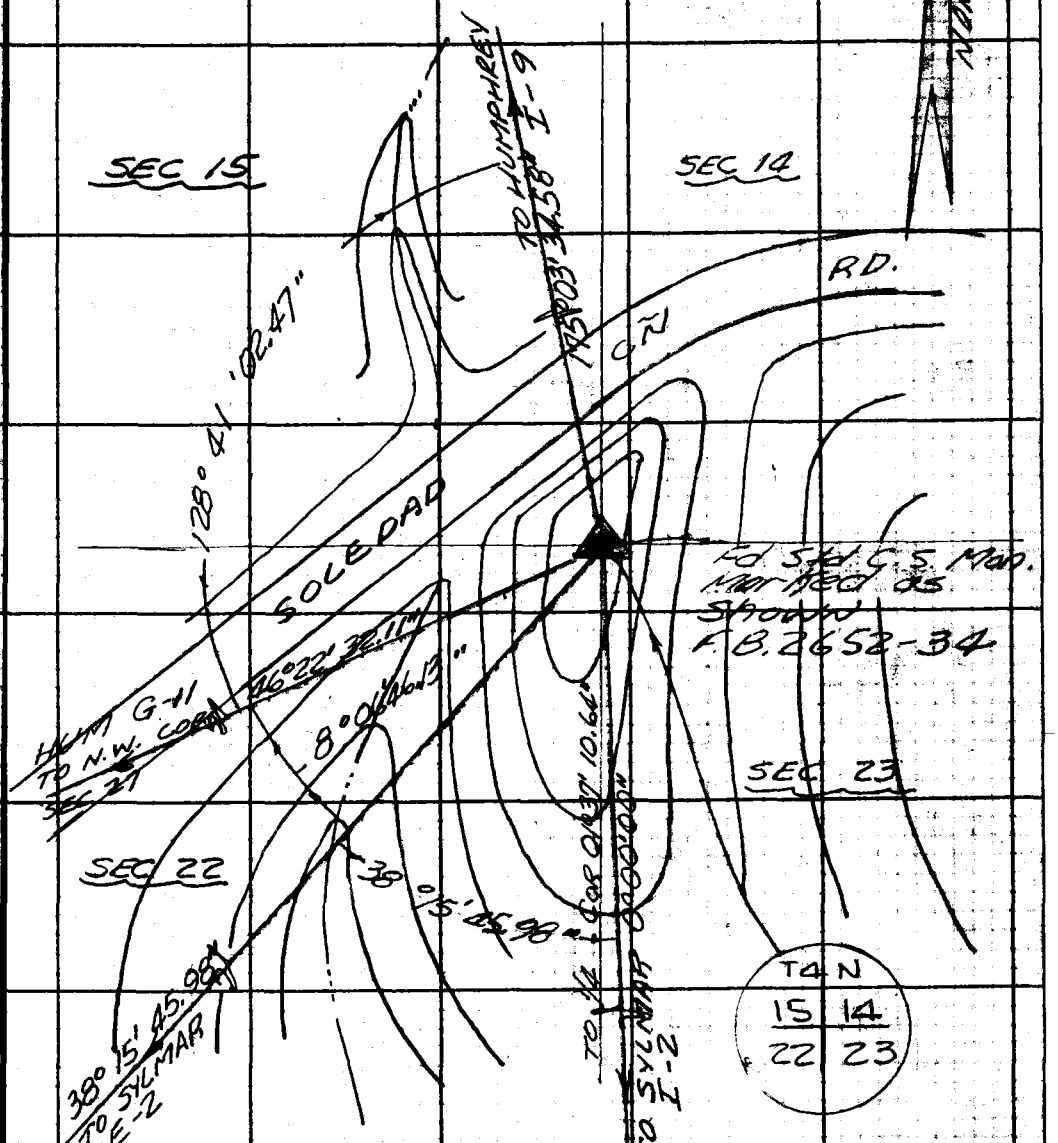
Map No.	Jt. 0202.00 Tape Std °F
Office Work PAW	Surveyed by WILSON
Checked	Notes RCW Date 11-63
Date	Indexed [redacted] J. GALL FEB 5 '64

F. B. 2457 PG. 121

HUMPHREY I-10

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION

SEC. COR. 15, 14, 22, 23 T4N R15W
FOR CADASTRAL TIE



ANGLES PER F.B. G. 1015-7.12 PG.

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Sketch on Geo. Desc. Card

76F309S CE #310 6-62

F. B. 2457 PG. 122

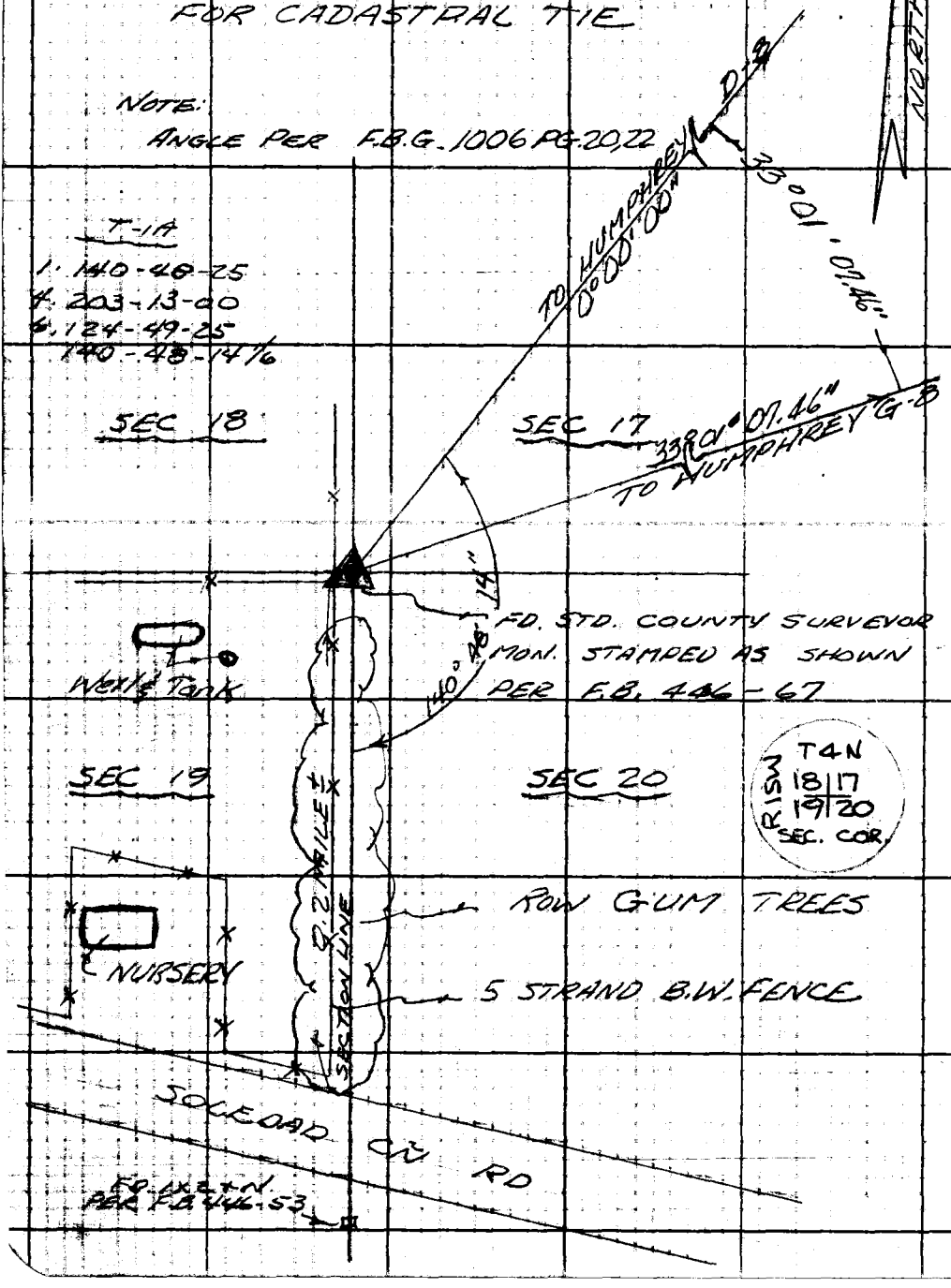
HUMPHREY C-10

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION

SEC. COR. 18, 17, 19, 20 T4N R15W
FOR CADASTRAL TIE

NOTE:
ANGLE PER F.B.G. 1006 PG. 20, 22

T-1A
1. 140-46-25
4. 203-13-00
6. 124-49-25
140-46-14 1/6



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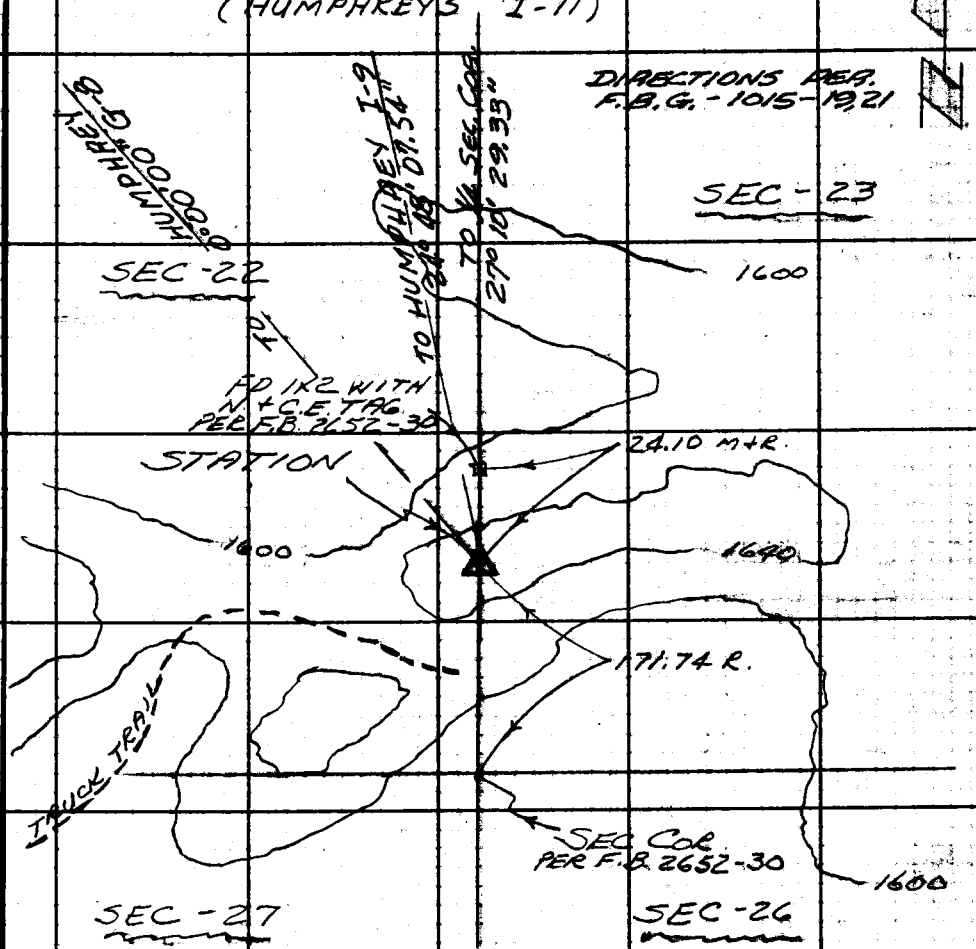
Map No.	JN 0202.00 Tape Std 68 °F	
Office Work PW	Surveyed by R.C. WILSON	
Checked	Notes J. BAZEN Date 11-7-63	
Date	Indexed [illegible]	

L.A. COUNTY SURVEY CONTROL SYSTEM
CADASTRAL TIE TO SECTION CORNER
22, 23, 26, 27 T4N - R15W
(HUMPHREY'S I-11)



STATION: FD 1X2 + NAIL PER F.B. 2652-30
REPLACED WITH 1" I.P. CONC. PLG. N + C.E. TAG.

NOTE: SECTION COR. FALLS INTO A + A PIG FEEDING YARD + IS INACCESSIBLE.

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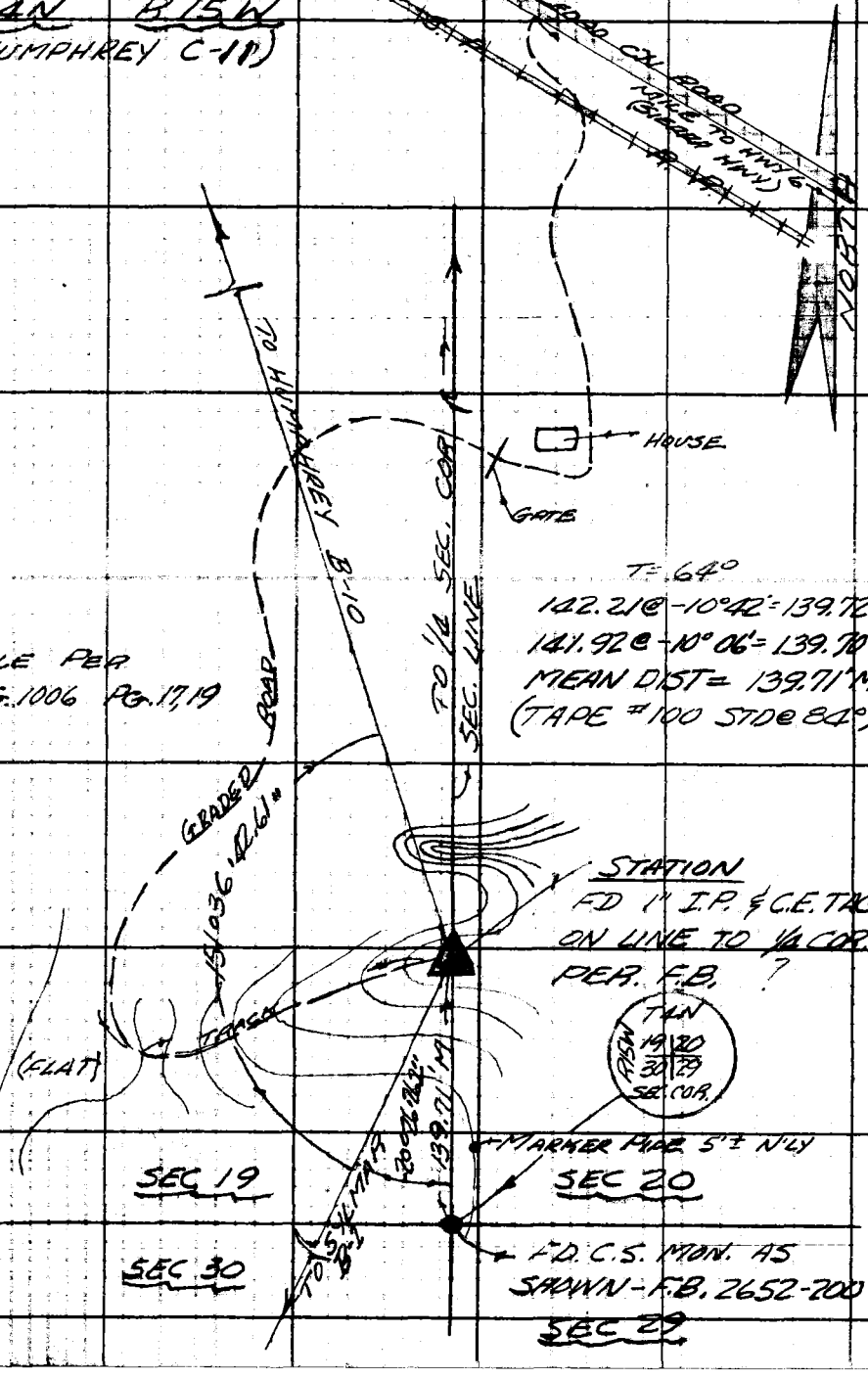
76F309S C.E. #310 6-62

F. B. 2457 PG. 124

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STA 139'± N. OF SEC. COR 19|20 30|29
FOR CADASTRAL TIE RCW
T4N R15W
(HUMPHREY C-11)



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Pl. on U.S.G.S. Quad. Shts.
Pl. on Sur. Div. W.S. No.
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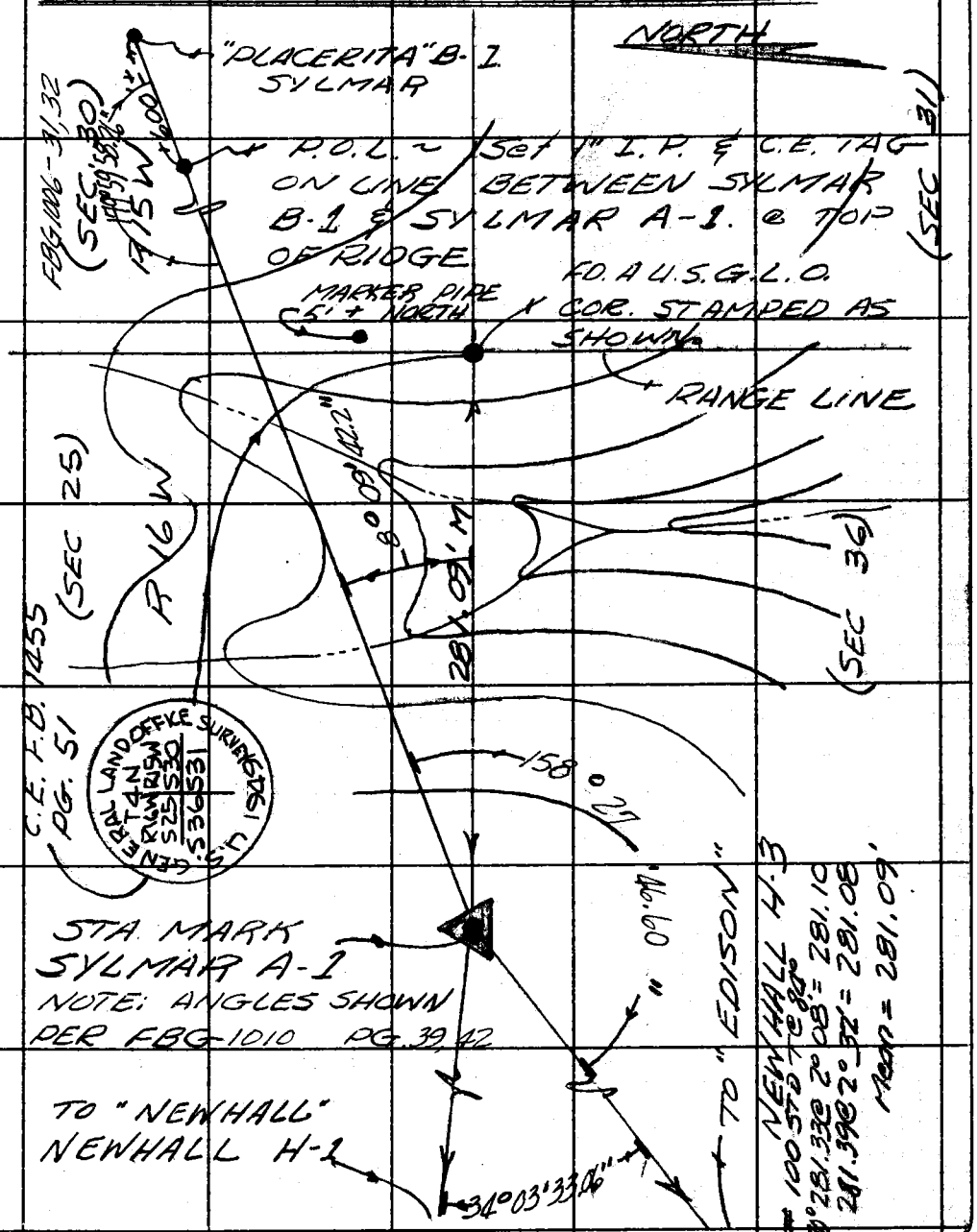
Notes Ck'd by	Survey of CAD. TIES	F. B 2457 PG. 125
Map No.	JN 020200 Tape Std °F	
Office Work	Surveyed by RC Wilson	
Checked	Notes RCW Date 11-63	
Date	Indexed E. J. GALLI FEB 5 '64	

L.A. COUNTY SUR. CONTROL SYSTEM

TRAVERSE STA. SYLMAR A-1



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Note Geo. Index Card ✓
Plan U.S.G.S. Quad. Shts.
Plan on Sur. Div. W.S. No.
Sketch on Geo. Desc. Card

76F3095 CE # 310 3-61

F. B 2457 PG 126 (SYLMAR A-1)

THIS TRAVERSE STATION IS IN LOS ANGELES COUNTY IN THE NEWHALL AREA AND IS ' WEST OF SECTION CORNERS 30, 31 R15W T4N AND CORNERS 16, 36 R16W T4N IN A PORTION OF SECT. 16 T4N R16W

TO REACH THIS STATION FROM THE INTERSECTION OF SOLEDAD CYN RD. AND MINT CYN HWY 6 TRAVEL SO. ON MINT CYN HWY 2.4 MILES TO A PAVED RD ON THE RIGHT THAT LEADS TO THE SO. CAL. GAS CO. QUIGLEY PUMP STATION; THENCE WEST ON THIS PAVED RD 0.70 MILES TO THE PUMP STA; THENCE W'LY OVER A DIRT RD 0.3 MILES± TO A LARGE GRADED FLAT; THENCE SOUTH 300'± TO THE STATION.

STATION MARK; FOUND A 1 1/2" IRON PIPE SET IN AN 8" CONC. POST, WITH A WOODEN 2"X2" PLUG DRIVEN INTO THE PIPE WITH A BRASS TAG STAMPED "L.S. 2371". THE PIPE PROTUDES 6" ABOVE THE CONC. PAD.

REF MARKS; NONE SET

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Plotted on Sur. Div. W.S. No.
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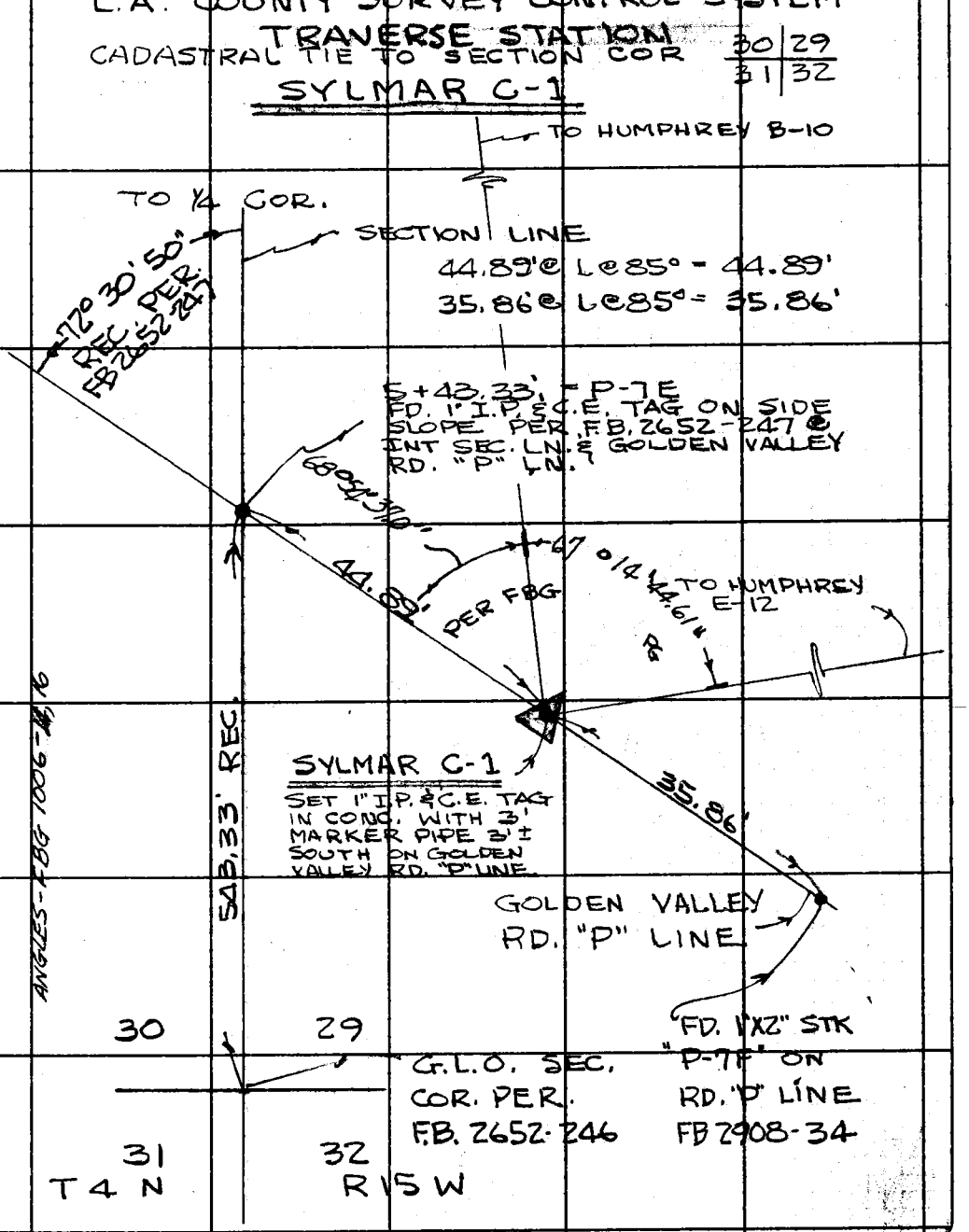
Notes Ck'd by	Survey of CAD. TIES	F. B. 2457 PG. 127
Map No.	JN 0202.00 Tape 100 Std 84 °F	
Office Work	Surveyed by Wilson	
Checked	Notes RCW Date 10-63	
Date	Indexed C. J. GALLI	

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

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
CADASTRAL TIE TO SECTION COR 30 | 29 / 31 | 32

SYLMAR C-1



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76F3095 CE # 310 3-61

F. B 2457 PG 128

THIS TRAVERSE STATION IS IN LOS ANGELES COUNTY ON A FLAT GRADED SPOT 75' ± WEST OF U.S. HIGHWAY 6 500'± NLY FROM THE COMMON COR TO SECTIONS 30, 29, 31 & 32 T4N R15W

TO REACH THIS STATION; FROM THE INTERSECTION OF MINT CYN HWY (U.S. HWY 6) & SOLEDAD CYN RD; PROCEED SOUTH ON MINT CYN RD 2.20 MI TO A PULLOFF SPOT ON THE RIGHT EDGE OF THE RD. (400'± NORTH OF CREST) THE STATION IS 75'± WEST OF THE EDGE OF PAVEMENT THRU A WIRE GATE.

STATION MARK; SET A 1" I.P. IN CONC. WITH L.A. CO. ENGR. BRASS TAG. SET A YELLOW MARKER PIPE 3'± SOUTH OF STATION.

REF. MARKS; NONE SET EXCEPT AS SHOWN

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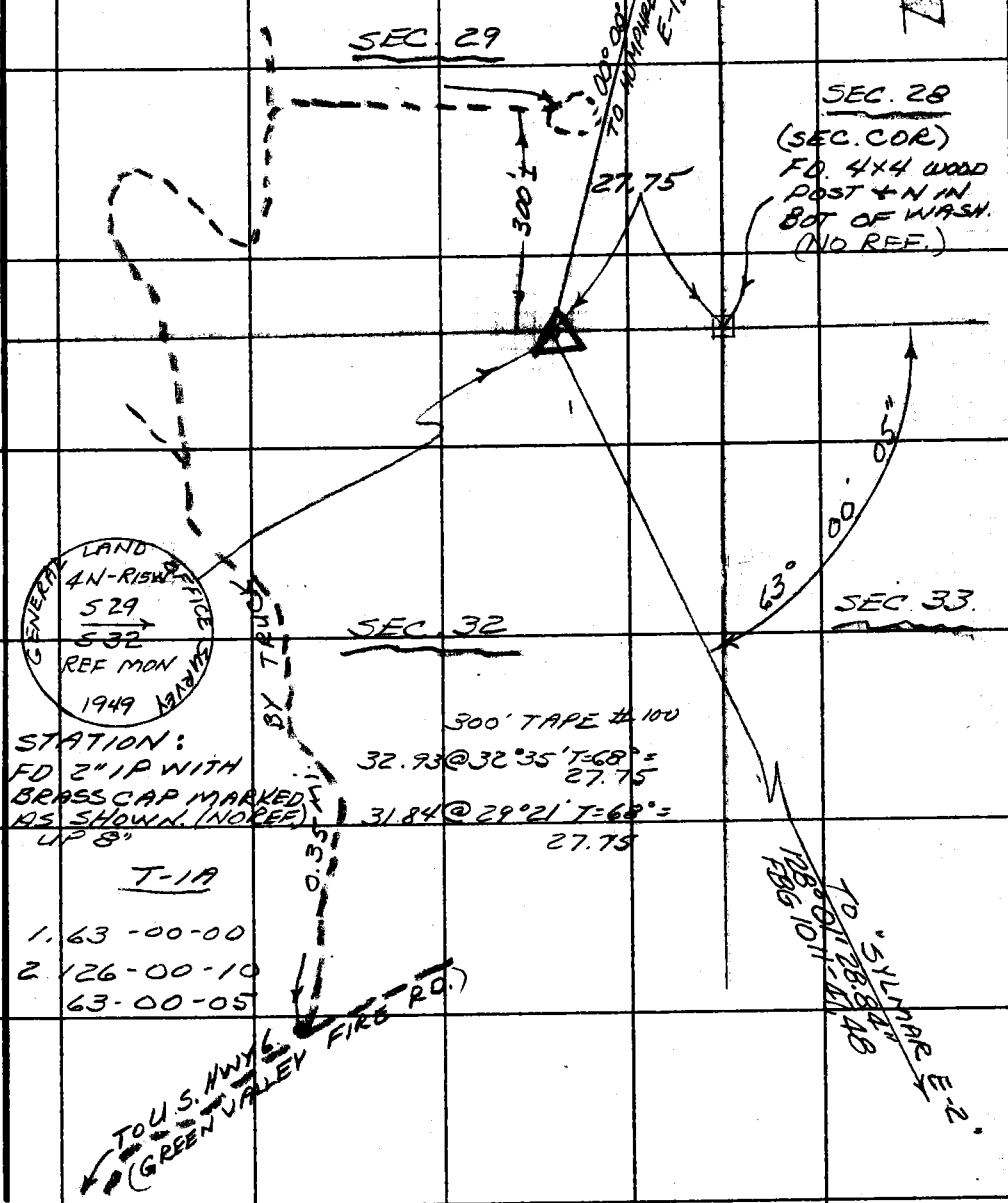
Date

Survey of CAD. TIES.
JN 0202.00 Tape 100 Std 84 °F
Surveyed by R.C. WILSON
Notes J. BAZEN Date
Indexed R. J. GALLI

F. B 2457 PG. 129

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION "SYLMAR E-1A"
CADASTRAL TIE TO SEC. COR. 28, 29, 32 + 33
R15W - T4N



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76F309S CE # 310 3-61

F. B 2457 PG 130

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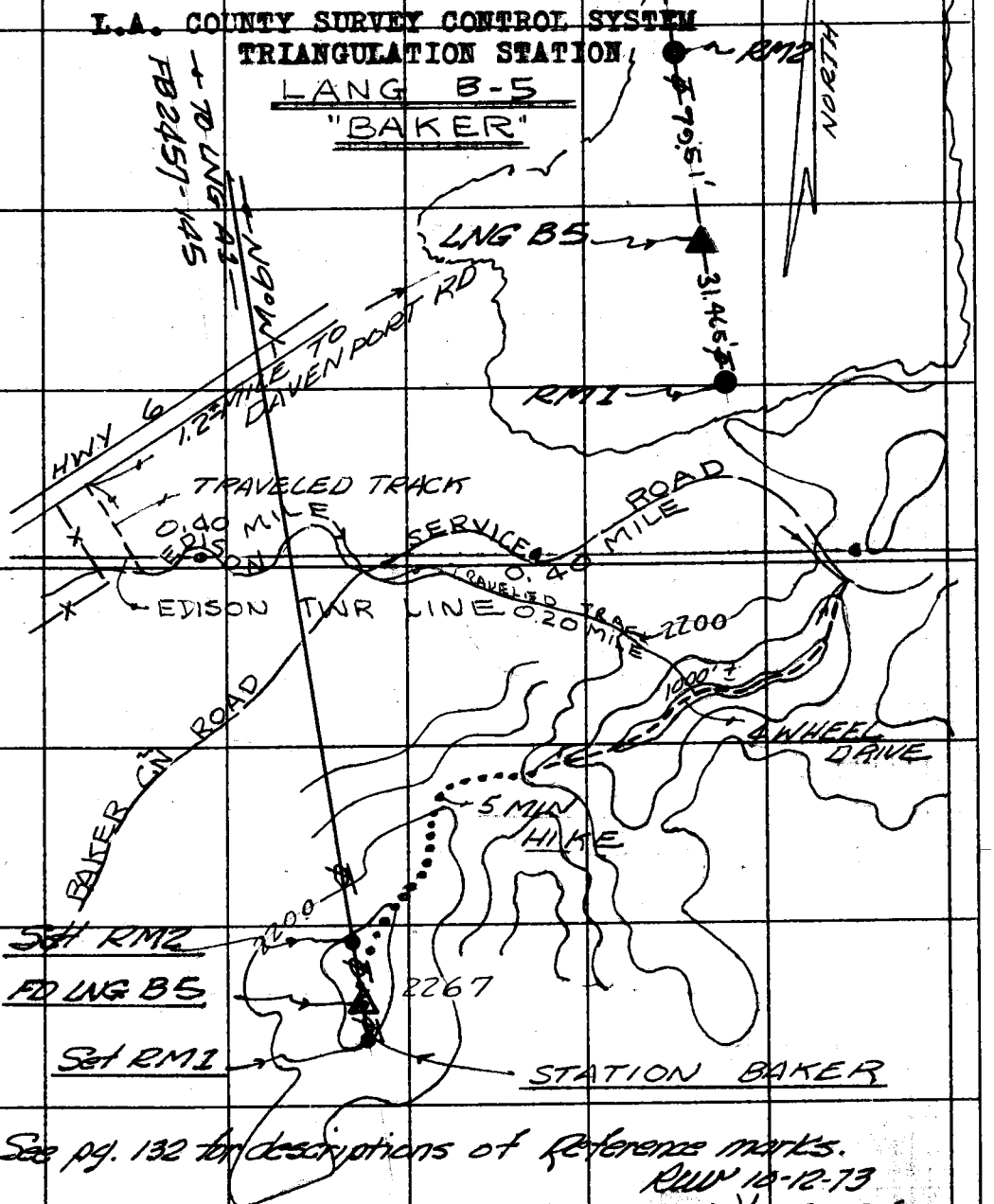
Notes Ck'd by	Survey of Solemint Area	F. B 2457 Pg. 131
Map No.	JN 0301.00 Tape Std °F	RM 1 & 2 Set 10-12-73 RWilson
Office Work	Surveyed by Wilson	
Checked	Notes RCW Date 2-64	
Date	Indexed C. J. GALLI MAR 26 '64	

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LANG B-5
"BAKER"



See pg. 132 for descriptions of Reference marks.
RWW 10-12-73

T 4 N R 14 W N W 1/4 SEC 6

Noted on Geo. Index Card
Placed on R.C.S. Quad. Shts.
Placed on Cor. Div. W.S. No.
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76F309S CE # 310 3-61

F. B. 2457 PG. 132

This station is located in Los Angeles County on a prominent ridge south of the East end of the Baker Cyn Rd. in the Mint Cyn Area, and is in the NW ¼ of Sec. 6, T 4N R 14 W.

To reach the station from the intersection of Davenport Rd. and Mint Cyn Hwy, Travel south on Mint Cyn Rd 1.2 mile to a traveled track that leads to the Edison Service Rd. Thence sl'y 600' to the Edison Rd; thence El'y 0.4 mile to the intersection of Baker Cyn Rd; thence El'y o.4 mile along the Edison Rd. to the top of a grade; thence straight ahead up a steep traveled track and along the top of a ridge to the end of the track; thence 10 min. hike out the ridge to the station.

~~STATION MARK Set a std. County Engineer~~ Pre-cast mon. up 4" stamped "L.A.Co.Engr. R.E.5869 Lang B-5 1964"

~~REF. MARKS None Set 2-64~~ Set 10-12-73 RCWilson

RM 1: A 4" L.A. county survey control system brass reference mark disc stamped "LANG B 5 RM 1 1973 RE 7078" up 4" and set in an 8" conc post on line prod from LNG A1.

RM 2: Same as RM 1 except stamped "RM 2" and on line to LNG A 1. RC Wilson 10-12-73

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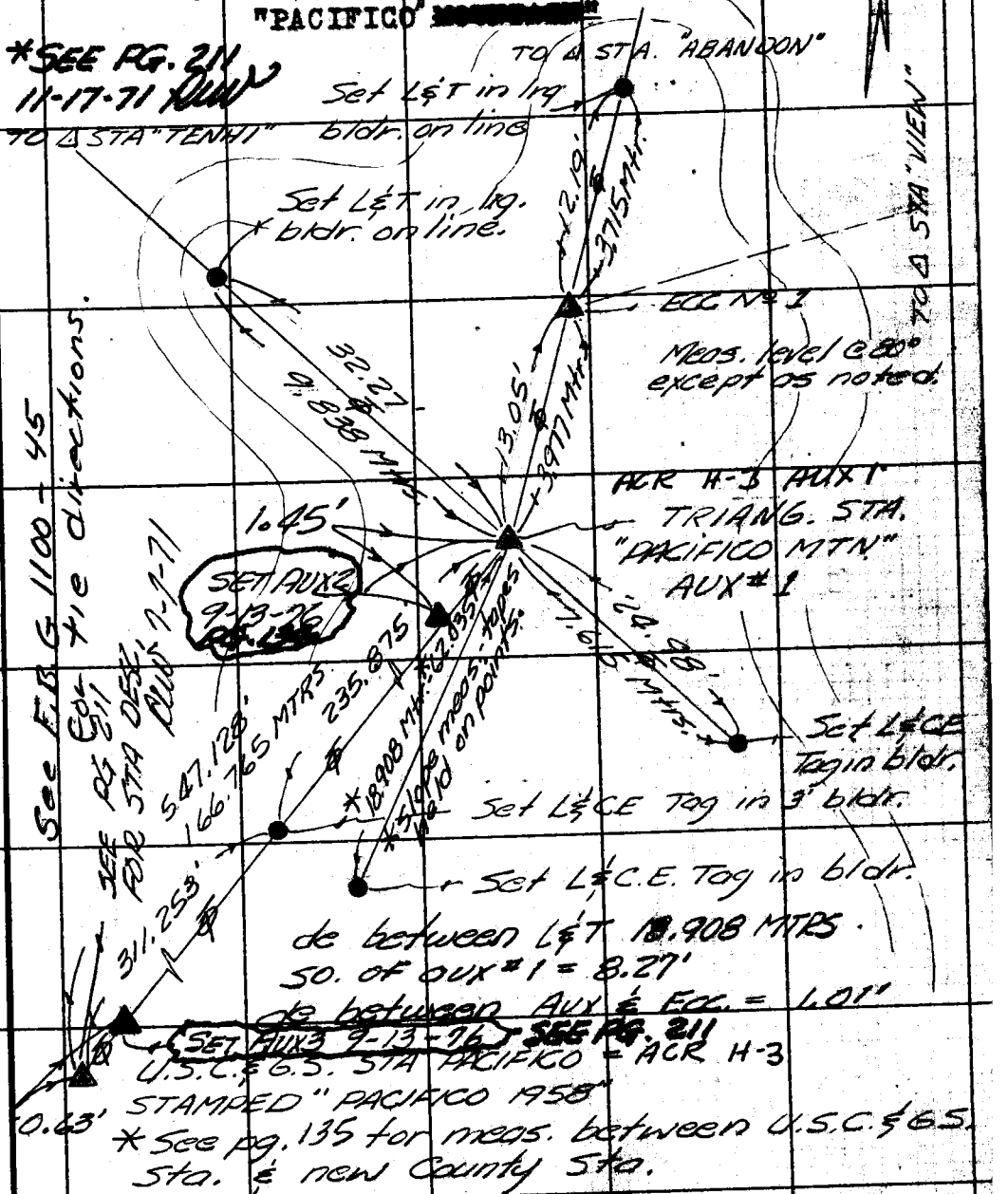
Checked
Date

Survey of Geodetic Control
JN 0301.00 Tape Std °F
Surveyed by R C Wilson
Notes RCW Date 10-7-64
Indexed C. J. GALLI DEC 1 64

F. B. 2457 PG. 133

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
*ALDER CREEK H-3 - AUX1, AUX2, AUX3
"PACIFICO" [redacted]



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76F3095 CE # 310 3-61

F. B. 2457 PG. 134

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
ALDER CREEK H-3
"PACIFICO" ~~MOUNTAIN"~~

This station is in L.A. County about 14 mile South and 5 Miles East of Palmdale on the top of Pacifico Mtn., T4N, R11W, 550' from (North) a large rock outcrop at the very summit of the peak and is at the North limits of Upper Pacifico Campgrounds.

This station can be reached from Mill Creek Summit on Angeles Forest Hwy by traveling up the Pacifico Mtn truck trail. From Mill Creek Summit, travel up grade 3.5 miles to a saddle, (Rd to So. at saddle) proceed east (straight) 1.5 miles to a fork in the road---bear left 0.5 miles to a fork at Lower Pacifico Campgrounds---bear right 0.6 miles to a fork and bear left 0.5 miles to the top and Upper Pacifico Campgrounds---turn North 150' to camp limits and the station.

STATION MARK

Set a 4" brass L.A. County Survey Control System disk in a 12"x12" conc. pad up 4" stamped "~~Pacifico Mtn~~ 1964 RE 5869" "ALDER CREEK H-3 AUX # 1"

ECC. # 1

Set a 4" brass L.A. County Survey Control System disk in a 2'x2' granite boulder flush with the ground stamped "~~Pacifico Mtn Aux 1~~ "1964 RE 5869" "ALDER CREEK H-3 AUX 1, ECC 1"

Ref. Marks as shown on front page.

H3-AUX2 - SET 9-13-76
A 1" IP & CE TAG DN. 2" ON LINE TO H3 CTR. STA., ∅ 1.45' FROM H3, AUX1. RWilson

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Survey of Geodetic Control
JN 0301.00 Tape 105 M-3 Std. 84 °F
Surveyed by RC Wilson
Notes RCW Date 10-6-64
Indexed G. J. GALLI

F. B. 7457 PG. 135

TIE FROM U.S.C.&G.S. STA "PACIFICO"
TO L.A. CO. STA. "PACIFICO ~~MTN~~"
TEMP @ 80° 50 MTR* M-3 300' = 105

MEAS.	FROM	TO	de	Corrected Dist. MTRS	Corrected Dist. FEET
(164.015') 49.992 M 164.02'	STA "	CP1 "	8.23'	49.929	= 163.809' M = 163.811' 163.813
(72.286') 22.033 M 72.28'	CP 1 "	L&T "	5.54'	21.968	= 72.073' M = 72.072' 72.067'
(81.447') 24.825 M 81.45'	L&T "	CP3 "	6.87'	24.737	= 81.159' M = 81.159' 81.160'
(69.468') 21.174 M 69.47'	CP3 "	CP4 "	0.45'	21.1735	69.467' M = 69.468' 69.469'

MEASUREMENTS ABOVE SLOPE MEASURE WITH TAPES 3.5' ABOVE CHAIN POINTS -

(162.644') 49.574 M 162.65'	CP4 "	U.S.C.&G.S. STATION	C+9°01'50" = C+9°01'20" =	(160.630') 48.960 160.638 M = 160.634'

Δ STA "PACIFICO MTN" TO L&T

163.811'
72.070
235.881' @ 80° = 235.875'

L&T TO U.S.C.&G.S. STA "PACIFICO"

81.159
69.468
160.634
311.261' @ 80° = 311.253'

*(50 MTR TAPE STD @ 84°)

CO. STA. TO U.S.C.&G.S. STA. TOTAL 547.128'

166.765 MTRS

Notes Check Index Card
Place U.S.G.S. Based Sitts.
Place on Sur. Div. U.S. No.
Sketch on Geo. Desc. Card

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76F3095 CE # 310 3-61

F. B. 2457 PG. 136

PROFILE OVER CHAIN PTS.

+	H.I.	−	ELEV	STATION
9.86'	109.86'		100.00'	L.A. CO. MON.
		1.63'	108.23'	C.P. # 1
9.82'	118.05'			
		4.28'	113.77'	L. & Tock
		0.41'	117.64'	TP
7.48'	125.12'			
		4.48'	120.64'	C.P. # 3
		4.03'	121.09'	C.P. # 4
1.90'	122.99'			
		9.45'	113.54'	TP
1.89'	115.43'			
		9.76'	105.67'	TP
3.75'	109.42'			
		9.40'	100.02'	L.A. CO. Mon.
				Δ STA "Pacifico ~~Mtn.~~"

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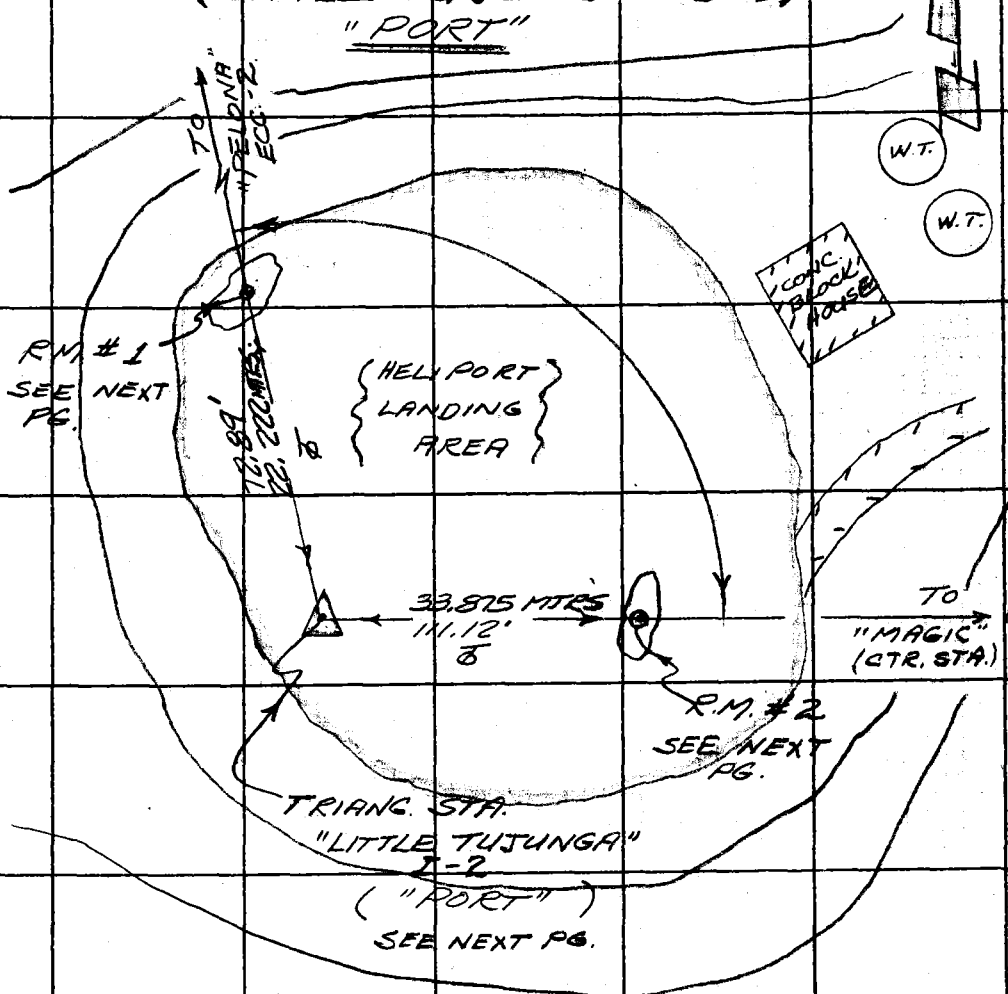
Map No.	JN 0301.00 Tape Std °F	
Office Work	Surveyed by R.C. WILSON	
Checked	Notes J. BAZEN Date 3-19-64	
Date	Indexed C. J. GALLI	

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
(LITTLE TUJUNGA' I-2)
"PORT"



72.89' @ 84° @ L = 72.89'
22.222 MTR STD @ L

111.12 @ 84° @ L = 111.12
33.875 MTR @ STD @ L

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76F3095 CE # 310 3-61

F. B. 2457 PG. 138 — DESCRIPTIONS —

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
"LITTLE TUJUNGA I-2"

THIS STATION IS IN L.A. COUNTY ABOUT 12 MILES EAST OF THE CITY OF NEWHALL, ON THE TOP OF MAGIC MT. (R14W-T4N) + IN THE ELY PART OF SEC. 34. + LOCATED ON THE WEST SIDE OF OLD HELIPORT NOW OWNED BY THE MARQUARTE CORP. + IS PROTECTED BY A STD. YELLOW MARKER PIPE 5' S.ELY. THIS STATION CAN BE REACHED BY TRAVELING S'LY 6.1 MI. FROM NEW FREEWAY ON SAND CN RD. TURN LT. UP PAVED RD. + PROCEED 6.9 MI. TO CHAIN LINK GATE. TURN LT. THROUGH GATE + PROCEED 0.3 MI. TO TOP OF RIDGE, TURN LT. + PROCEED 0.2 MI. TO TOP OF HILL WHICH HAS TWO LG. WATER TANKS + OLD HELIPORT. PROCEED W'LY ACROSS HELIPORT 200'± TO STATION.

STATION MARK:
SET A STD 4" TRIANG. BRASS CAP MON IN A 12"X12" CONC. PAD UP 6" + STAMPED "LITTLE TUJUNGA I-2 1964, L.A.CO. ENGR. R.E. 5869"

REFERENCE MARKS:

R.M. #1 — SET A STD. 4" BRASS CAP MON. IN A 24"X24" ROCK UP 3" + STAMPED, "LITTLE TUJUNGA I-2 , 1964, R.M. #1, L.A. CO. ENGR., R.E. 5869."

R.M #2 — SAME AS #1 EXCEPT #2 + IS SET IN A 36"x24" ROCK UP 10". + ROCK IS PAINTED RED.

Station Recovered 1/12/67

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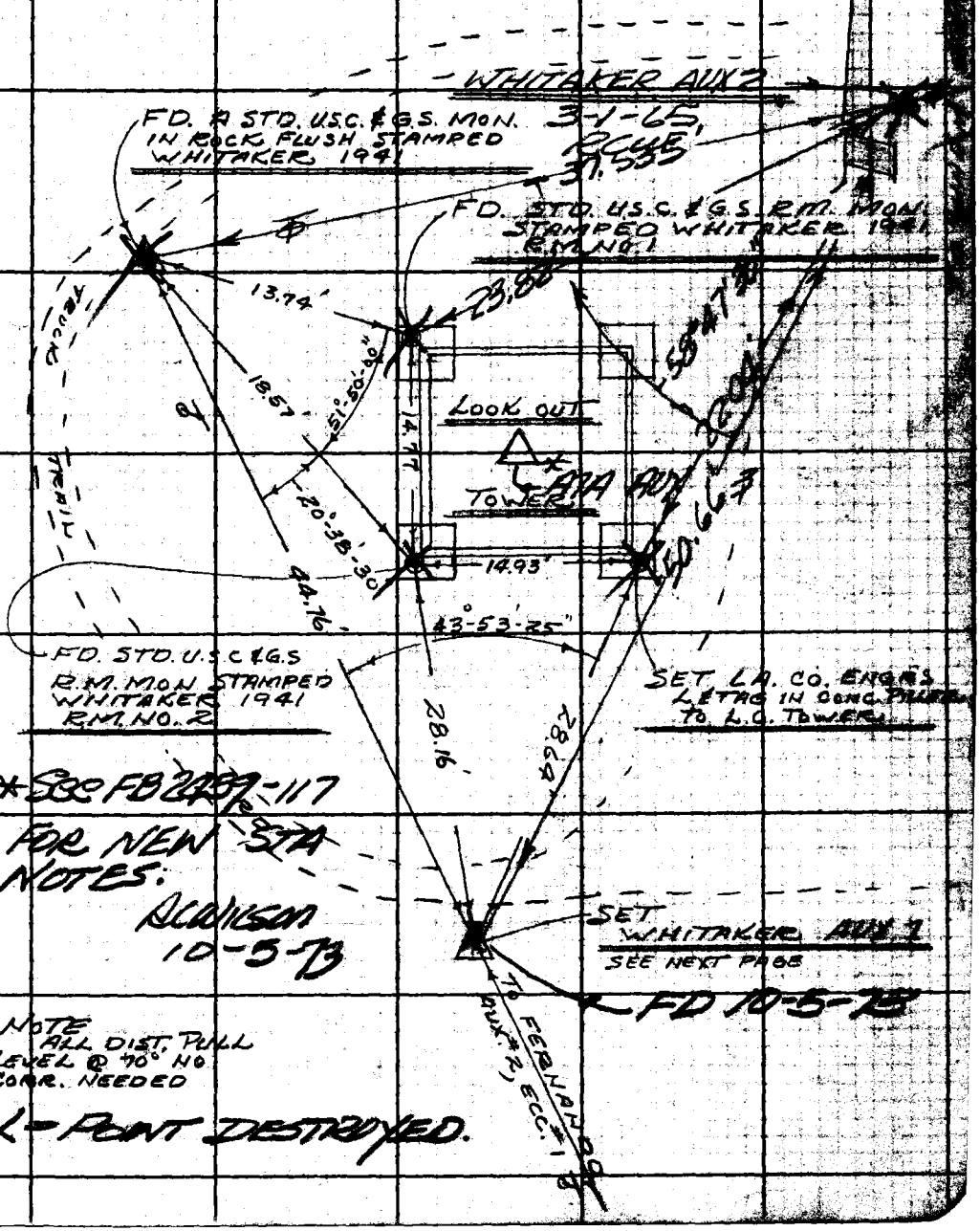
Map No.	JN 0301.00 Tape 0193 Std. 68 °F	
Office Work P&W	Surveyed by A.C. GUIZADO	
Checked	Notes MOODY Date 3-12-64	
Date	Indexed C. J. GALLI	

LOS ANGELES COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

WHITAKER PEAK A-7A AUX 1 & 2



*SEE FB 2459-117 FOR NEW STA NOTES.
A.C. WILSON 10-5-73

NOTE
ALL DIST. PULL LEVEL @ 70° NO CORR. NEEDED

X - POINT DESTROYED.

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Placed on U.S.G.S. Quad. Shts.
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE #310 6-62

F. B. 2857 PG 140

~ DESCRIPTIONS ~

TRIANGULATION STATION

WHITAKER PK. A-1A AUX 1

THIS STATION IS IN THE COUNTY OF LOS ANGELES, WHITAKER PEAK QUAD T6N, R18W, SEC. 36., TO REACH THIS STATION FROM CASTAIC JUNCTION & GOLDEN STATE HI-WAY #99 GO N.W.LY ON #99 12.3 MI. TO NEAR SUMMIT AND SIGN READING WHITAKER PEAK L.O. TOWER, TURN LEFT ON DIRT RD 1.2 MI. TO JUNCTION BEAR RIGHT 0.9 MI. TO JUNCTION BEAR LEFT 2.5 MI. TO LOOK OUT TOWER

Note: A locked chain has been installed at this junct. A S.S. lock was added to the chain on 11-16-67. Also 0.1 mile from sta a locked cable is installed. Drive to left around cable and up brushy ridge to station. RWilson

STATION MARK: SET A STD 4" BRASS TABLET TRIANGULATION MON. IN CONC UP 6" AND STAMPED "WHITAKER PEAK A-7A AUX No 1" "L.A. CO. ENGR. B.E. 586"

REFERENCE MARK: NONE SET OTHER THAN TIES SHOWN ON SKETCH.

AUX #2 - Set 2" I.P. 4' LONG projecting 6" with B.S.K. & washer. Washer stamped "L.A. CO. ENGR. AUX 2" TIES AS SHOWN.

ON LINE SPRINGS. RWilson STA. SET TO WARM 3-1-65

POURED FORMED 12"X12" CONC. PAD AROUND 2" IP "AUX 2" OCT 5, 1967 BW

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Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 0301.00 Tape 0100 Std. 54 °F
Office Work PAW	Surveyed by R.C. WILSON
Checked	Notes J. BAZEN Date 3-17-64
Date	Indexed C. J. GALLI

F. B. 2457 PG. 141

Noted on Geo. Index Card ✓
Placed on C.S. Quad. Sht.
Placed on Div. V.S. No.
Sketch on Geo. Index Card

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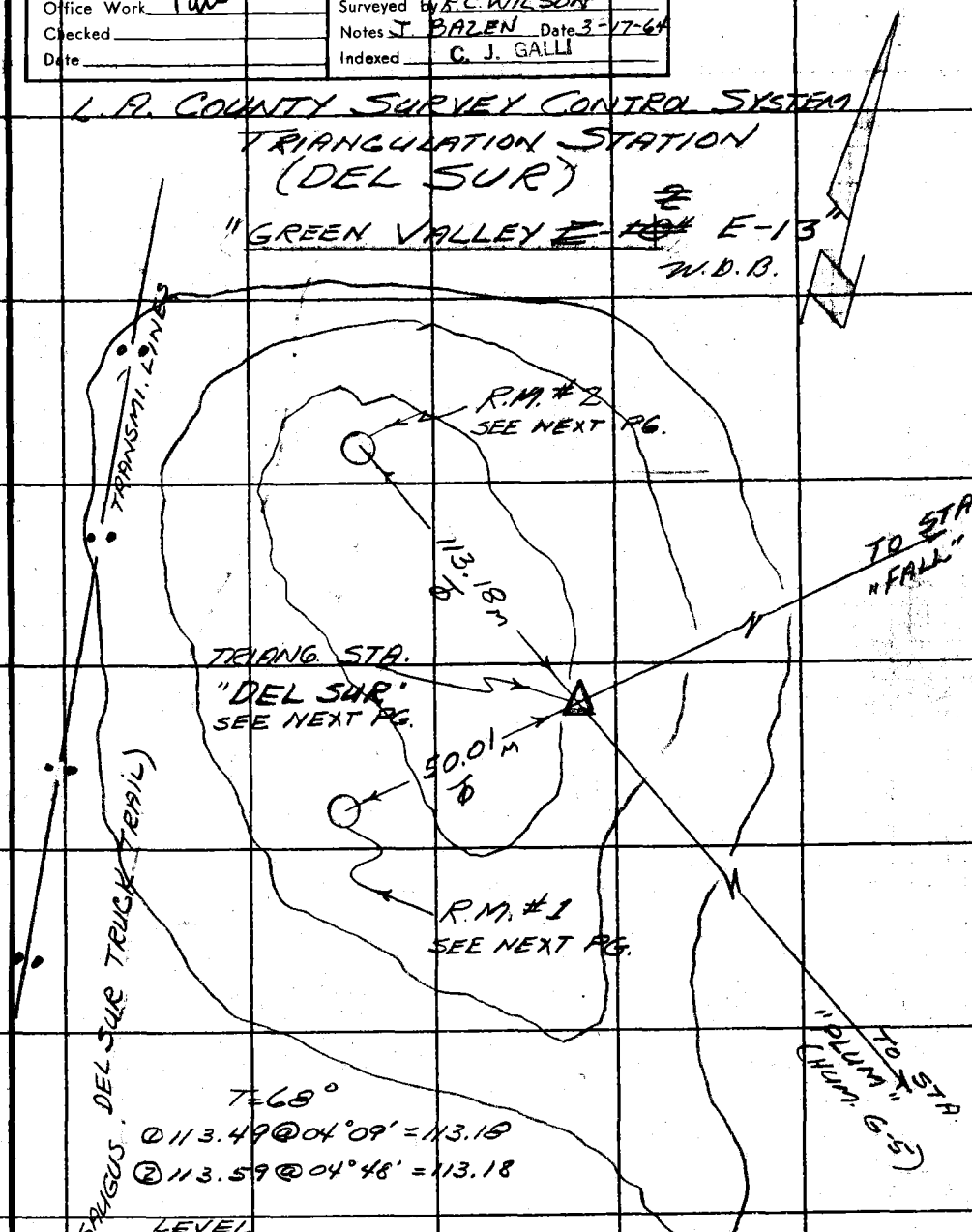
76F309S CE # 310 3-61

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
(DEL SUR)

"GREEN VALLEY ~~E-10~~ E-13"
W.D.B.



T=68°
① 113.49 @ 04°09' = 113.15
② 113.59 @ 04°48' = 113.18

LEVEL
50.02 = 50.01

F. B. 2457 PG. 142 —DESCRIPTION—

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
(DEL SUR)

"GREEN VALLEY ~~E-10~~ E-13"

THIS STATION IS IN THE COUNTY OF LOS ANGELES IN THE GREEN VALLEY AREA (R15W T5N) + IN THE N.W. ¼ OF SEC. 16. STATION CAN BE REACHED BY TRAVELING N'LY ON BOUQUET CN. RD. FROM VASQUEZ CN. RD. ~~0.7~~ 0.8 mi. TO LOCKED ~~CHAIN LINK~~ CABLE GATE ON LT., ENTER THROUGH GATE ~~BEARING LT. THROUGH OWNER'S YARD + PROCEED 2.3 mi. TO SAUGUS DEL SUR TRUCK TRAIL, BEAR RT.~~ + PROCEED 4.4 ~~2.4~~ mi. TO STATION WHICH WILL BE 75'± DOWN FIREBREAK TO THE RIGHT.

STATION MARK:

FD. A. STD. 4" BRASS CAP L.A. COUNTY TRIANGULATION STATION SET IN CONC. PAD 12"X12" + UP 6", + STAMPED, "GREEN VALLEY E-~~13~~ 13* DEL SUR, 1961, L.A. CO. ENGR., R.E. 5869."

~~* MIS-STAMPED~~

REFERENCE MARKS:

R.M. #1 - FD. STD. 4" BRASS CAP L.A. COUNTY REF. MON. SET IN CONC. PAD 12"X12" UP 6", + STAMPED, "GREEN VALLEY E-~~13~~ 13, R.M. #1, 1961, L.A. CO. ENGR., R.E. 5869."

R.M. #2 - FD SAME AS #1 EXCEPT STAMPED #2.

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Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JNO [illegible] Tape 0193 Std 68 °F.
Office Work	Surveyed by AC. GUIZADO
Checked	Notes MOODY Date 3-17-64
Date	Indexed C. J. GALLI

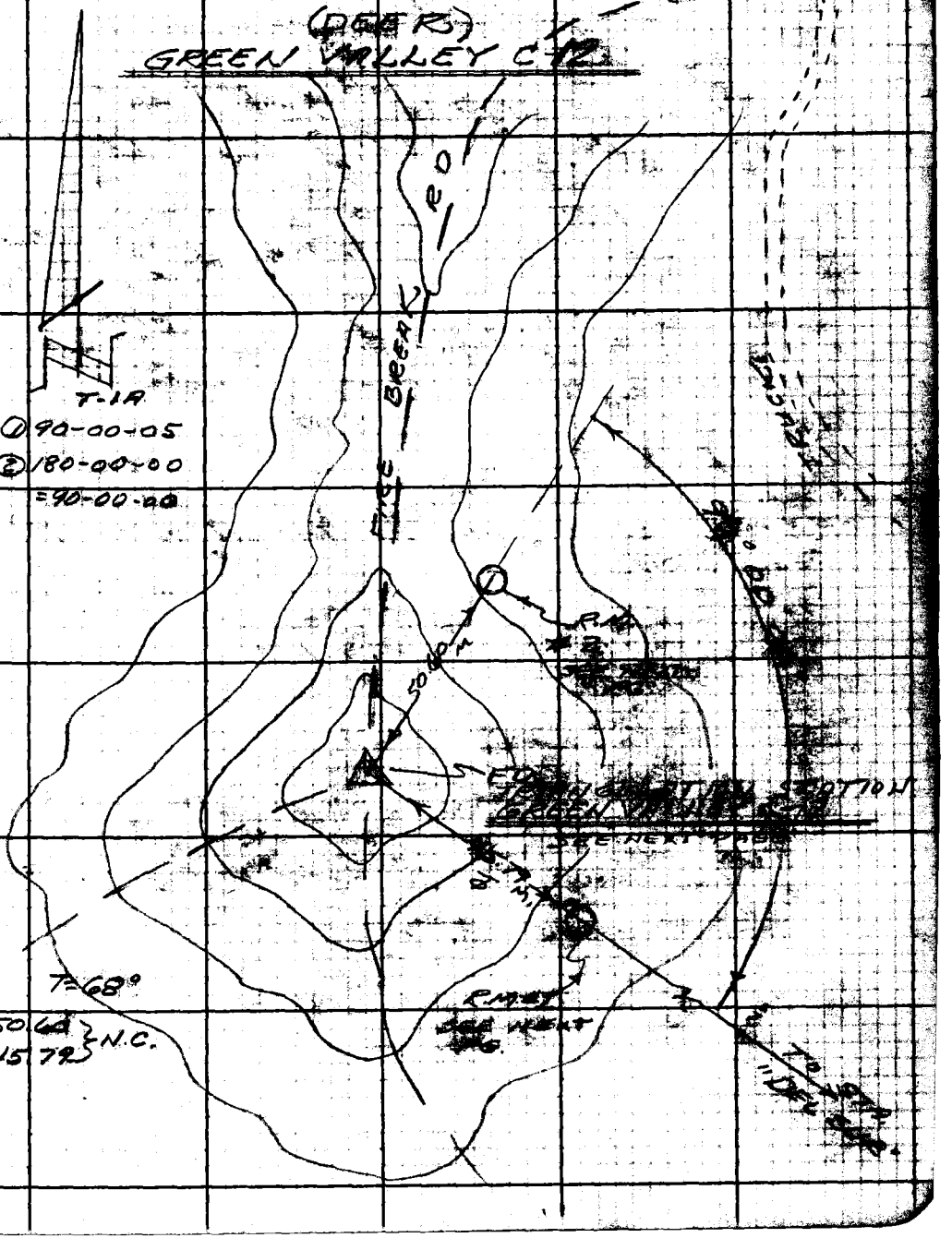
F.B. [illegible] Pg. [illegible]

LA. CO. SURVEY CONTROL SYSTEM

TRIANGULATION STATION

(DEER)

GREEN VALLEY C-12



Noted on Doc. Index Card
Placed on C.S. Quad. Shts.
Placed on Div. W.S. No.
Sketch on Doc. Desc. Card

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76F309S CE #310 6-62

F. B. 2257 PG. 144

~ DESCRIPTIONS ~

TRIANGULATION STATION

GREEN VALLEY C-2

(DEER)

THIS STATION IS IN COUNTY OF LOS ANGELES GREEN VALLEY QUAD, S.W OF BOUQUET RESERVOIR, T5N, R.15 W. NEAR CENTER OF SEC 8., TO REACH THIS STATION FROM INTERSECTION OF BOUQUET CYN & VASQUEZ CYN RD GO NORTH 8.0 MI. TO SIGN ON LEFT READING CAMP #3 RD. SAUGUS DEL SUR RD 2½ MI., CONT. UP DIRT RD. 2.5 MI. TO DEL SUR TRUCK TRAIL, BEAR LEFT AT FORK, CONT. 0.5 MI. TO FORK BEAR RIGHT ON MAIN RD 1.0 TO TOP OF RIDGE TAKE SHARP RIGHT ON ROUGH FIRE BREAK RD 2.8 MI. PARK TRUCK HIKE TO MIN. TO STA. OR DRIVE ALL THE WAY TO STATION WITH 4 WHEEL DRIVE.

STATION MARK: A STD U.S. GEOLOGICAL SURVEY 4" BRASS CAP SET FLUSH IN 14"x14" CONC PAD STAMED DEER, LINT, LOS ANGELES CO COOP

REFERENCE MARKS:

R.M. #1 - SET A STD. PRECAST C.E. MON IN A CONC. PAD UP 2" + STAMPED "DEER, R.M. 1, 1964 C.E. 5869" + IS ON LINE TO STA. "DEL SUR."

R.M. #2 - SAME AS R.M. #1 EXCEPT #2.

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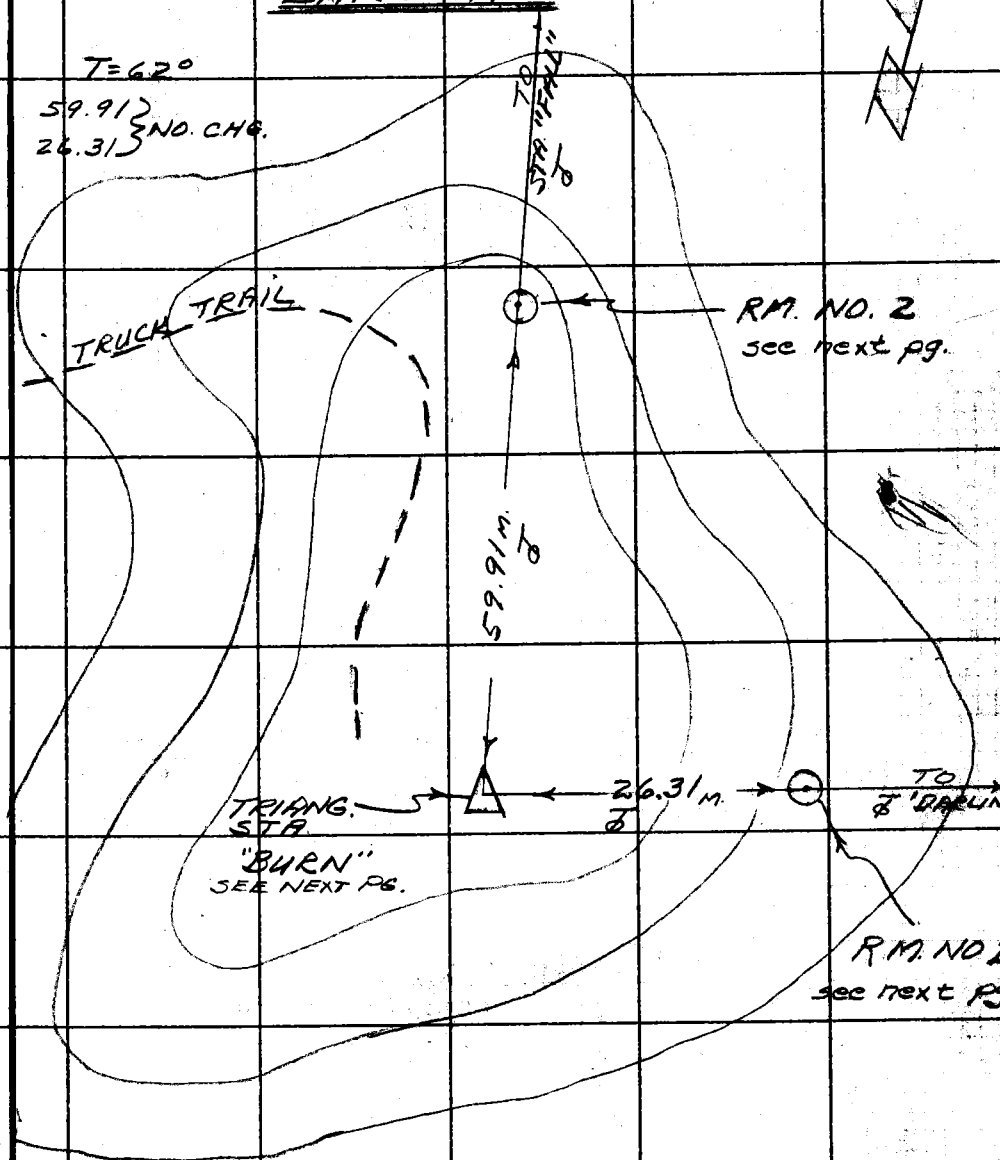
Notes Ck'd by	Survey of GEODETIC CONTROL	F. B. 2457 PG. 1451
Map No.	JN 03' Tape 0105 Std 68 °F	
Office Work PAW	Surveyed by R.C WILSON	
Checked	Notes J. BAZEN Date 3/64	
Date	Indexed C. J. GALLI	

L.A. CO. SURVEY CONTROL SYSTEM
TRIANGULATION STATION
(BURN)
LANG A-1



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76F309S CE # 310 3-61

F. B. 7457 PG. 146

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
(BURN)

LANG A-1

THIS STATION IS IN THE COUNTY OF LOS ANGELES, IN THE MINT CN. AREA (R15W, T5N, SEC 15) AND LOCATED ON TOP OF BURNED OFF HILL OVER LOOKING THE "OLD SIERRA HWY"; THIS STA. CAN BE REACHED FROM BOUQUE CN RD. BY TRAVELING ELY. 0.7 MI. ON VASQUEZ CN. RD, THEN LT. ON PAVED RD. 0.3 MI. TO DIRT RD. THEN BEAR LT. ON DIRT RD. 0.4 MI. TO A GATE @ ENTERANCE TO HOG FARM, CONT. 1.55 MI ON ROCK & OIL BLK TOP RD. TO BARB WIRE GATE @ U.S. FORESTRY BOUNDARY, PROCEED 1.5 MI. + BEAR RT. OFF MAIN TRAVELED RD. @ LG. TREE, PROCEED UP STEEP HILL 0.1 MI. + BEAR TO LT. @ FORK + CONT. UP HILL 0.4 MI. SWING A HARD LT. + CONT. 0.8 MI. TO STA.

STATION MARK:

FD. A STD 4" U.S.G.S. BRASS CAP MON. SET IN CONC. (IN CO-OPERATION WITH LOS ANGELES COUNTY) + STAMPED "LINT (UPSIDE DOWN), BURN, 1929"

REFERENCE MARKS: NO. 1 + 2.

FD. STD. L.A. COUNTY 4" BRASS CAP R.M. MON'S. SET IN CONC. + STAMPED "BURN, LANG A-1, 1961, R.E. 5869" + R.M. 1 + 2 (R.M. 1 WAS FD. TO BE ON LINE TO + R.M. 2 WAS FD. TO BE ON LINE TO

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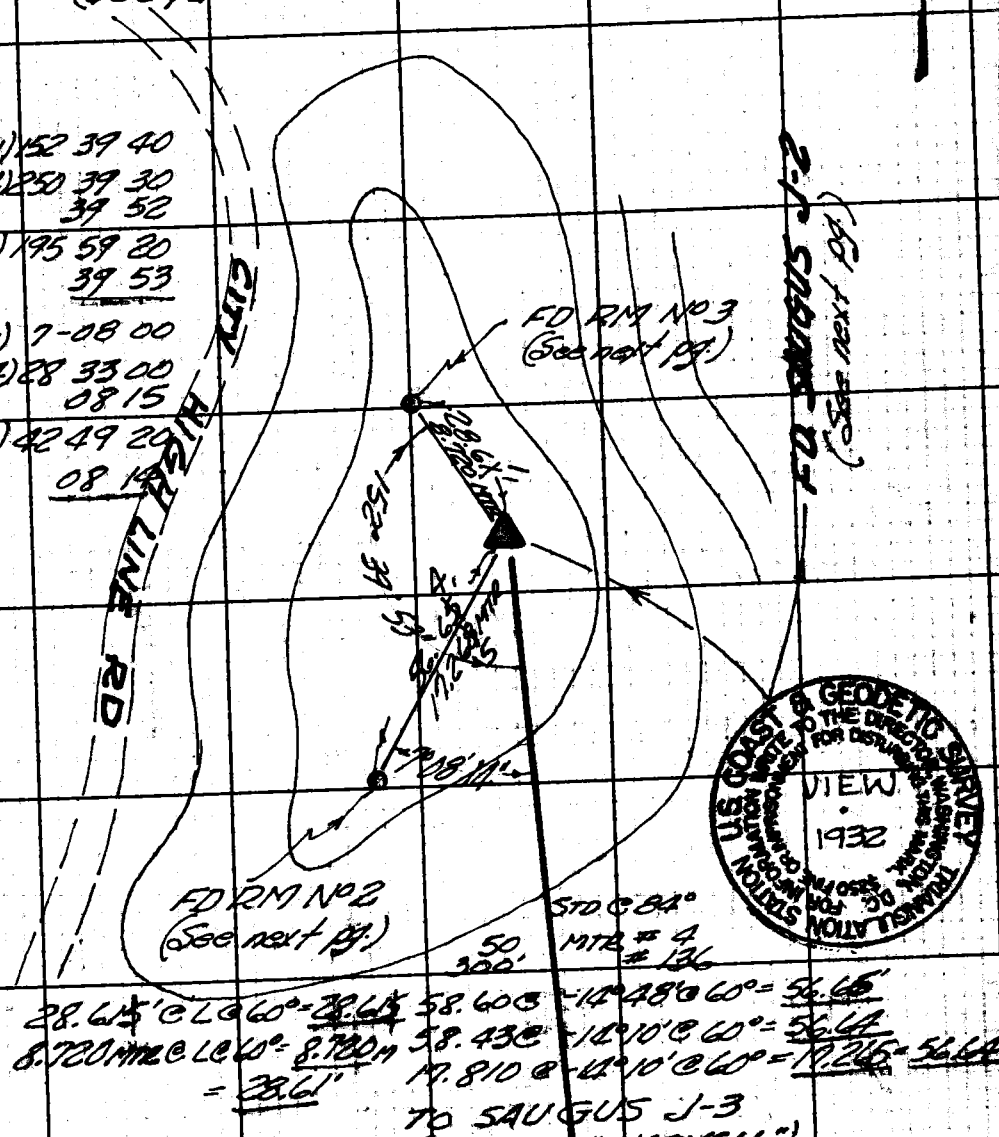
GEODETIC CONTROL

F. B. 2457 Pg. 147

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

Survey of
Jn 0301.00 Tape Std °F
Surveyed by RC Wilson
Notes RCW Date 11-14-66
Indexed G. J. GALLIGO 12 JAN

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
SAUGUS J-2
(USC&GS "VIEW")
(USC&GS REF: 341183 - STA 1016)



28.615' @ L @ 60° = 28.615
8.720 MTR @ L @ 60° = 8.720 M
= 28.61'

58.60 @ -14°48' @ 60° = 56.66'
58.43 @ -14°10' @ 60° = 56.64
17.810 @ -14°10' @ 60° = 17.265 = 56.64'

TO SAUGUS J-3
(USGS "HASKELL")
FB 2457-25

U.S. COAST & GEODETIC SURVEY
TRIANGULATION STATION
FOR INFORMATION WRITE TO THE DIRECTOR, WASHINGTON, D.C.
$250 FINE OR IMPRISONMENT FOR DISTURBING THIS MARK
VIEW
1932

Noted on Index Card
Plan Card
Placed on Sub. Div. W.S. No.
Sketch on Dep. Desc. Card

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76F3095 CE #3 0 6-62

F. B 2450 PG 148

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
SAUGUS J-2
(USC&GS "VIEW")

AREA: This triangulation station is located in Los Angeles County, in the Haskell Cyn Area, near Saugus, 1730'± So. & 440'± E. of the N.W. Cor. of section 25, T5N, R15W on a small peak 75'± E. of "CITY HILINE ROAD" in the area marked "1967" on the Newhall 2½' Quad Sheet.

ROUTE: FROM THE INTERSECTION OF BOUQUET CYN RD & HASKELL CYN (DIRT) RD: TRAVEL NLY ON HASKELL RD 1.0 MILE TO A FORK: TURN RT (EAST) 800'± THENCE LEFT (NORTH) 2.3 MILES TO A JUNCTION ON THE LEFT & A SIGN "CITY HILINE RD": TURN LEFT & FOLLOW CITY HIGHLINE RD UPGRADE 1.7 MILES TO THE STA. ON THE RIGHT. (40'± HIGHER THAN THE ROAD)

STATION MARK: A 4" USC&GS BRASS TRIANGULATION DISC STAMPED "VIEW-1932", UP 3" AND SET IN 8"X12" ROCK.

SUB-SURFACE MARK: NONE

REFERENCE MARK No 2: A 4" USC&GS BRASS REF MARK DISC STAMPED "VIEW-1932-No 2" UP 2" AND SET IN 8"X8" ROCK 20'± LOWER THAN THE STATION.

REFERENCE MARK No 3: A 4" USC&GS BRASS REF. MARK DISC STAMPED "VIEW-1932-No3" UP 6" AND SET ON TOP OF A 3" IRON PIPE.

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149

GEODETIC CONTROL B 2457 PG [redacted]

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

Survey
JN Tape Std °F
Surveyed by RCW
Notes Date 11-66
Indexed C. J. [illegible]

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

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

SAUGUS J-3
(USGS HASKELL)

New Route:

FROM THE INTERSECTION OF SAN FRANCISQUITO RD & DRY CYN RD: FOLLOW DRY CYN RD NLY 1.7 MILES TO A DIRT RD HEADING NORTH EASTLY & PROCEED 0.2 MILES TO A FORK: AT FORK KEEP RIGHT (EAST) 0.3 MILE TO A TRAIL: TURN RIGHT (SLY) AND FOLLOW RIDGE 0.5 MILE (4 WHEEL DRIVE) TO THE STATION ON THE HIGHEST POINT.

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76F309S CE #310 6-62

F. B. 2457 PG. 150

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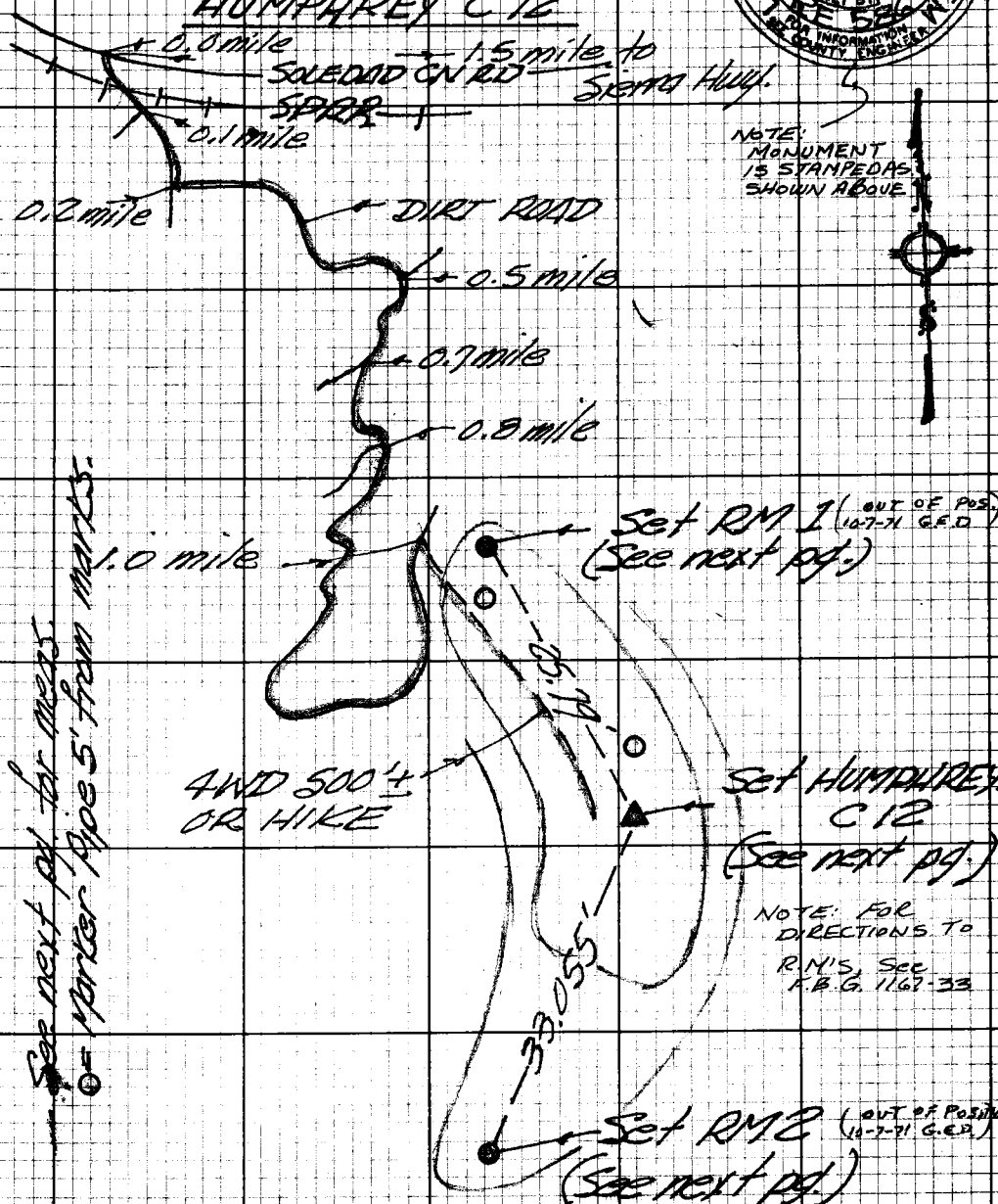
Notes Ck'd by
Map No.
Office Work
Checked
Date

GEODETIC CONTROL
Survey
JN 030100 Tape Std °F
Surveyed by R. C. Wilson
Notes R. C. Wilson Date 8-16-68
Indexed C. J. GALLI AUG 2 7 '68

F.B. 2457 PG. 151

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
HUMPHREY C 12
1968
SET BY
RE 5869
FOR INFORMATION
SEE COUNTY ENGINEER

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
HUMPHREY C 12



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

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76F3098 CE#310 9-67

F.B. 2457 Pg. 152

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

MEASURMENTS

300' # 221 @ Lev. @ 78°T 50 MTR M3

25.79' = 25.79' 7.860m = 7.860m = 25.788'

33.055' = 33.055' 10.075m = 10.075m = 33.056'

AREA: This triang. sta. is located in L.A. County in the Newhall area, near Solemint junction, 2250'± E & 1100'± S. of the N.W. Cor. of Sec. 29, T4N, R15W.

ROUTE: From the inter. of Sierra Hwy & Soledad Cn Rd. - Travel wly on Soledad Cn Rd. 1.5 mile to a curve and a dirt rd. to the left: thence left (sly) cross S.P. R.R. 0.7 mile to a "Y", bear lft 0.1 mile to dirt rd. to lft: thence lft (ely) 0.3 mile to inter. bear rt (sly) 0.2 mile to "Y": bear lft (sly) 0.1 mile to "Y": bear rt and follow graded rd upgrade ~~to~~ 0.2 mile to 4-t. up spur on rt. Park & hike 500'± up grade to top of ridge & station.

STATION MARK: A 4" L.A. Co. Sur. Cont. Sys. Brass triang. disc stamped "HUMPHREY C12 1968 RE 5869" up 4" and set in a 6" conc. post.

REFERENCE MARKS: RM 1 - A 4" L.A. Co. Sur. Cont. Sys. brass ref. mark disc. stamped "HUMPHREY C12 RM1 1968 RE 5869" up 4" and set in 6" conc. post. (10-7-51 G.E.D., R.M. 1 & 2 LEANING & OUT OF GROUND)

RM 2 - Same as RM 1, except stamped "RM2"

No Sub-surface mark was set.

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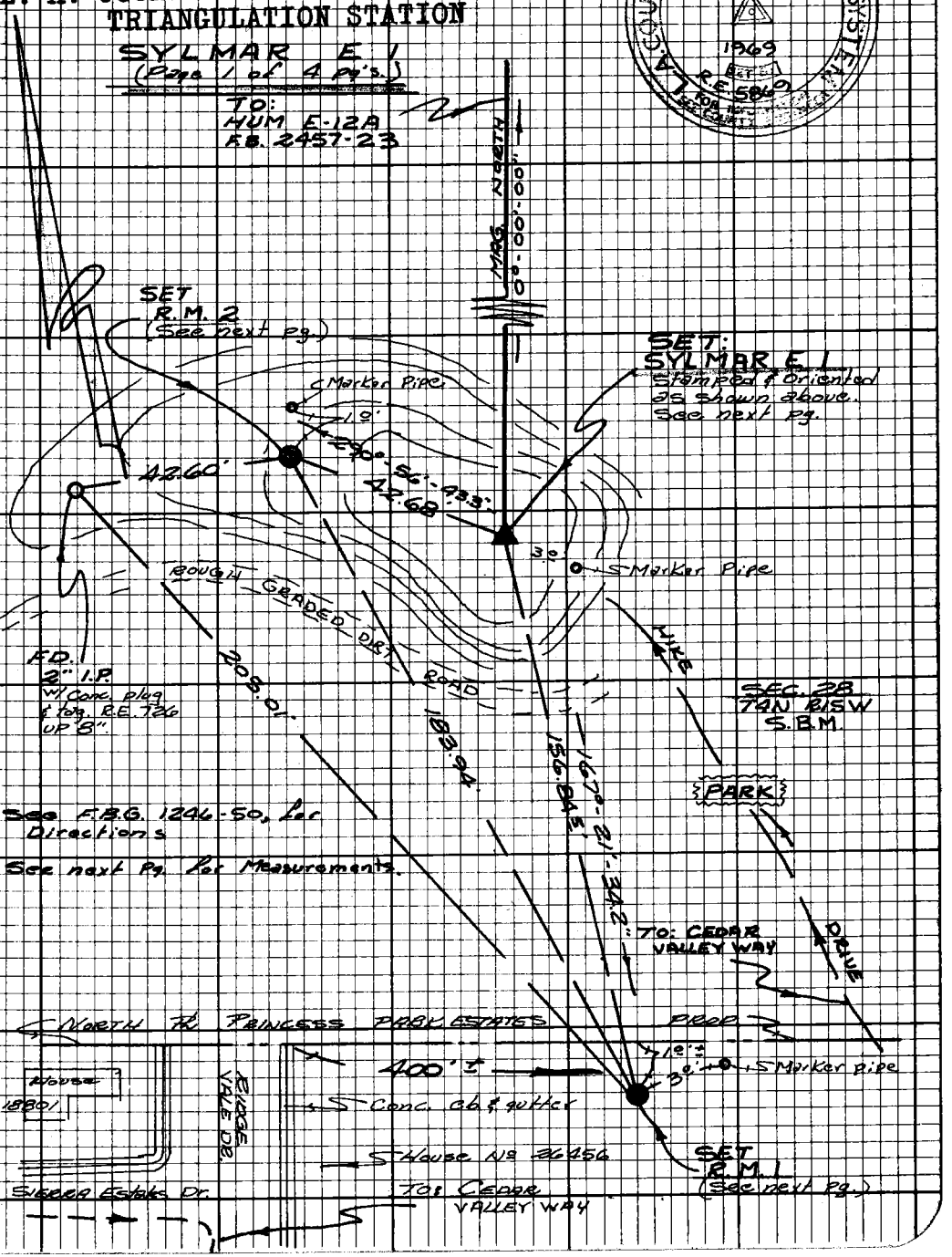
Notes Ck'd by	Survey GEODETIC CONTROL
Map No.	JN 0301.00 Tape ~ Std ~ °F
Office Work Paw	Surveyed by J. G. RANDALL
Checked	Notes DDR Date APR-69
Date	Indexed C. J. GALLI JUL 10 '69

F.B. 2457 Pg. 153

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

SYLMAR E 1
(Page 1 of 4 pg's.)



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Placed on Cur. Div. W.S. No.
Sketch on Geo. Desc. Card

76F3098 CE#310 9.67

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F.B. 2457 Pg 154

SYLMAR E-1

Pg. 2 of 4 pg's.

MEASUREMENTS:

300' TAPE № 180 TEMP. = 90° 50 MTR TAPE M-4

156.83⁵' = 156.84⁵'	@ Lev.	47.800m = 47.803m	= 156.83'
42.68' = 42.68'	@ Lev.	13.008m = 13.008m	= 42.67⁷'
183.93' = 183.94'	@ Lev	No Metric measurement	
205.00' = 205.01'	@ Lev	" "	"
42.60' = 42.60'	@ Lev	12.981m = 12.981m	= 42.58⁸'

AREA: This TRIANGULATION STATION is located in Los Angeles Co., between Placerita Canyon & Soledad Canyon, South of the Santa Clara River, near Solemint Junction N.E. of Princess Park Estates (a housing tract). 1750'± East & 1900'± North of the S.W. Cor. of Sec. 28-T4N-R15W. S.B.M. See U.S.G.S. 7½ min. Sheet "MINT CANYON, CALIF" 1960.

ROUTE: From the intersection of Sierra Hwy. & Soledad Cyn. Rd., travel S.W.'ly on Sierra Hwy. 0.3 mi. to Whispering Leaves Dr., turn left (South'ly) and drive 0.1 mi. to Sierra Estates Dr., turn left (East'ly) and continue, up-grade 0.3 mi. to Ridge Vale Dr. The station is on a ridge N.N.E. approx. 600' from this intersection. Turn right (South) on Ridge Vale Dr. and travel up-grade 0.1 mi. to Cedar Valley Way. Turn left (East) and drive 100'± to the end of the paved road, Continue straight ahead and up-grade on a rough graded construction road 600'± to a level (graded) construction site. Br. left (North'ly) and drive across this level pad approx 700' to a cut bank, follow tracks up steep road way to another graded pad. Park here and hike N.W.'ly 150'± to the station on a very narrow ridge.

STATION MARK: A 4" L.A. Co. Sur. Cont. System brass TRIANGULATION disc stamped "SYLMAR E 1 1969 RE 5869", up 4" in a 7" Conc. Post.

SUB-SURFACE MARK: None Set

Continued on Pg. 3 of 4

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Notes Ck'd by	Survey of GEODETIC CONTROL F.B. 2457 Pg. 155
Map No.	JN030100 Tape — Std — °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes JDR Date Apr-69
Date	Indexed C. J. GALLI JL 10 '69

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

SYLMAR E 1

Pg. 3 of 4 pg's.

REFERENCE MARKS:

Nº 1: A 4" L.A. Co. Sur. Cont. System brass REFERENCE MARK disc stamped "SYLMAR E1 RM1 1969 RE 5869" up 3" in a 7" Conc. post.

Nº 2: Identical to RM 1 except stamped "RM 2".

[redacted]

Dated on Doc. Index Card
Plan[illegible] U.S.G.S. Quad. Shts.
Place[illegible] Sur. Div. W.S. No.
Sketch on Doc. Desc. Card

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75F3098 CE#310 9-67

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F.B. 2457 Pg. 156

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Notes Ck'd by	Survey of Geodetic control F.B. 2457 PG. 157
Map No.	0501.00 Scale Std °F
Office Work Paw	Surveyed by rcw
Checked	Notes rcw Date 1-6-69
Date	Indexed [illegible]

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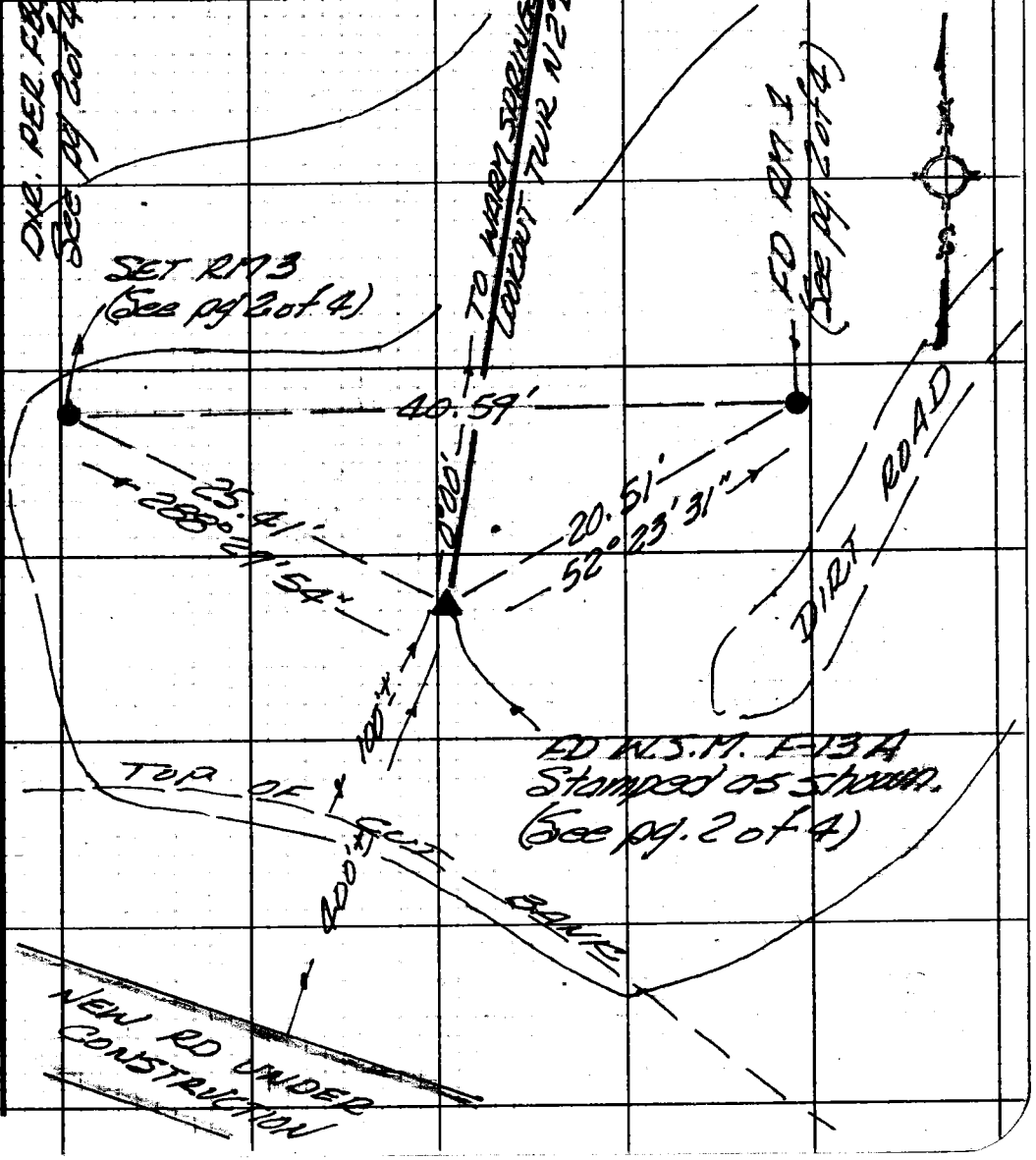
L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
WARM SPRINGS MTN F 13A
USC&GS 341184 1076
(pg 1 of 4)



76F309S CE#310 1-65

158 L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
WARM SPRINGS MTN F 13A
(Pg 2 of 4)

F.B 2457 Pg. ~~157~~

MEASUREMENTS

300' #221 Level at 762T 50 Mtr M3

20.51'-20.51' 6.253m-6.253m-20.515'
25.41'-25.41' 7.743m-7.743m-25.405'
40.59'-40.59' 12.373m-12.373m-40.594'

AREA: This triangulation station is located in L.A. County in the Castaic area 2200'±N and 2050'± E of the SW corner of section 17 T5N R16W on the top of the highest hill in the area and marked "CHARLIE VABM 2105" on the Warm Springs Mtn 7½' quad sheet.

ROUTE: From the Parker Road off-ramp of the Golden State Freeway at Castaic: Travel 0.6 miles nely on Parker Rd to the intersection of Lake Hughes Rd: Turn left and travel 2.0 miles to the beginning of the new road construction: follow new road nely 0.6 miles to a dirt fire road on the lft: turn lft and follow fire rd downgrade 0.1 miles to a gate (L key) continue 0.2 mile to the beginning of a tree farm: Turn sharp right up a steep spur and follow traveled track and fire break upgrade 0.2 miles to a junction with an old fire road: turn lft and follow fire road down and then upgrade 0.3 miles to a road on the right: turn rt 0.1 mile to the station on the right.

STATION MARK: A 4" usc&gs brass triangulation disc stamped " CHARLIE# 1964" (Y crossed over) up 4" and set in a 12"x12" conc pad. Sub-surface mark USC&GS note 7a.

REFERENCE MARKS: RM 1: A 4" USC&GS brass ref. mark disc stamped "CHARLIE# NO 1 1964" up 4" and set in a 12"x12" conc pad. (Y CROSSED OVER)
RM 2: Destroyed (old USGS station)
RM 3: A 4" L.A. County survey control system brass ref. mark disc stamped "WARM SPRINGS MTN F13A RM3 1968 RE5869" up 3" and set in a 6" conc. post.

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159

Notes Ck'd by	Survey of Geod. Cont.	F. B. 2457 Pg. ~~155~~
Map No.	Jn 0301.03 Tape Std °F	
Office Work	Surveyed by RCW	
Checked	Notes RCW Date 1-6-69	
Date	Indexed G. L. GALLI JL 10 '69	

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
WARM ~~SPRINGS MTN F 15 A~~
(Pg 3 of 4)

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76F309S CE#310 1-65

F. B. 2457 PG. 160

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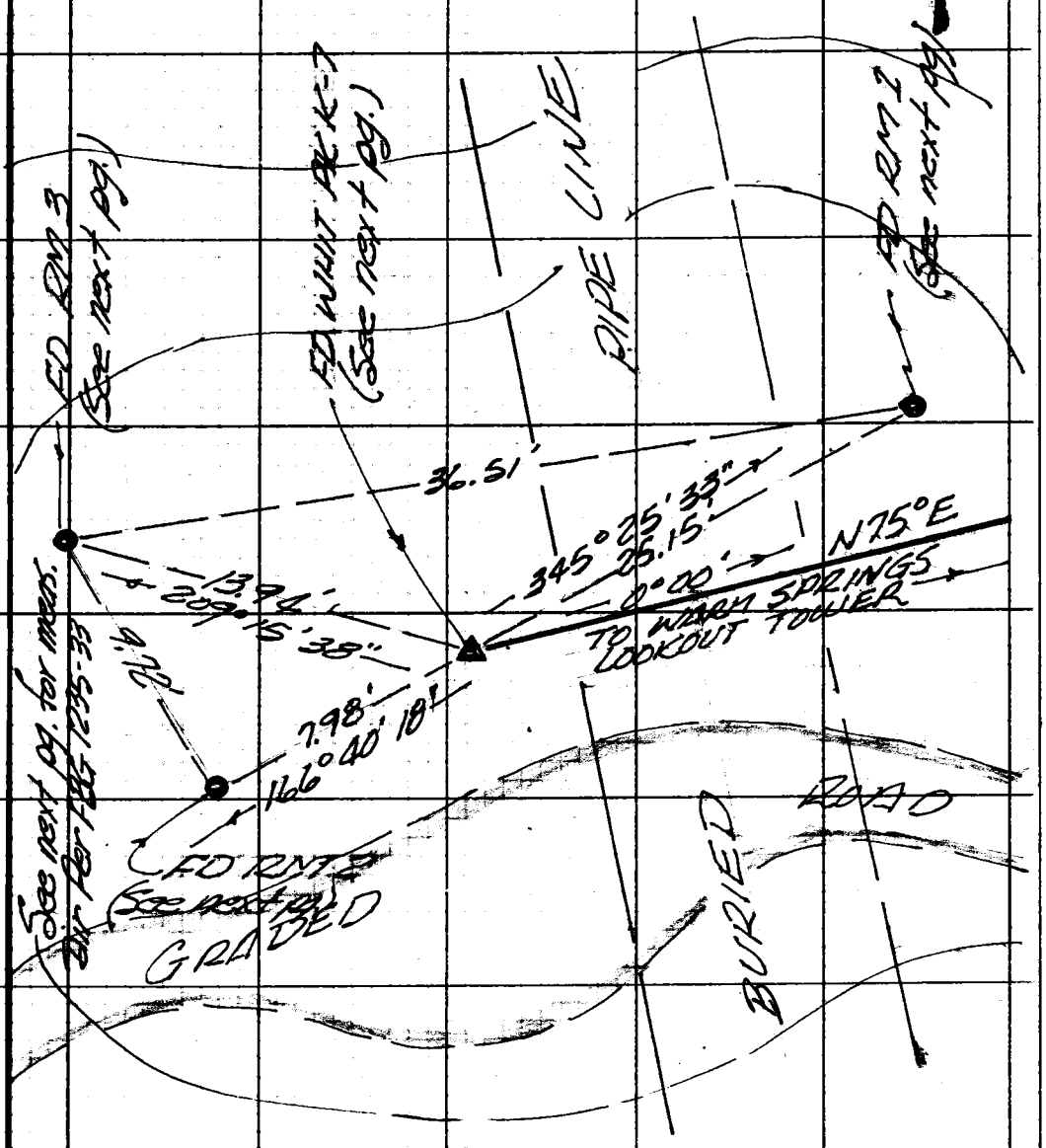
161

Notes Ck'd by	Survey of Geod. Control	F. B. 2457 Pg.
Map No.	0301.00 Type Std °F	
Office Work	Surveyed by RCW	
Checked	Notes RCW Date 1-6-69	
Date	Indexed C.I. GALLI	

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
WHITAKER PEAK K 7
(pg 1 of 4)



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76F309S CE#310 1-65

162 L.A. COUNTY SURVEY CONTROL SYSTEM

F. B 2457 PG. ~~[illegible]~~

TRAVERSE STATION

~~WHITAKER PEAK X7~~

(Pg 2 of 4)

MEASUREMENTS

300' # 221	Level at 72°Temp 50Mtr M3
9.72'=9.72'	2.962m=2.962m=9.72'
7.98'=7.98'	2.433m=2.433m=7.98'
13.94'=13.94'	4.250m=4.250m=13.94'
25.15'=25.15'	7.666m=7.666m=25.15'
36.51'=36.51'	11.130m=11.130m=36.515'

AREA: This traverse station is located in L.A. County NE of Castaic 1750'± W and 1150'± S of the NE corner of section 34 T6N R17W on top of a ridge marked "3096" on the Whitaker peak 7½' Quad sheet.

ROUTE: From Hwy 99 at the Warm Springs Road: turn right (ely) and travel 1.3 miles upgrade to the Old Ridge Route Road: turn right (sly) and travel 0.8 miles on Old Rodge Route to a dirt road on the right: thence upgrade (wly) on dirt road 0.3 miles to the top of the ridge, at a pipeline crossing. The station is 20'±west of the pipeline.

Station Mark: A 3/4" x 3/4" "T" bar and drill hole, driven in flush with the ground. (State Division of Hwy Pt)

REFERENCE MARKS:

RM 1: A 3" brass Richfield Oil Co disc stamped "LINE DEPT 63 M40.2 LS2503 eld oil corp" (mark has been hit) flush with the ground.

RM 2: Found brass nail set in lead in a 48"x48" sandstone.

RM 3: Found brass nail set in lead in a 40"x40" sandstone.

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163

Notes Ck'd by	Survey of Geod. Control
Map No.	0301.00 Temp. Std. °F
Office Work	Surveyed by RCW
Checked	Notes RCW Date 1-6-69
Date	Indexed

F. B. 2457 Pg. ~~[illegible]~~

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
WHITAKER PEAK K 7
(Pg 3 of 4)

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76F309S CE#310 1-65

F. B 2457 PG. 164 ~~160~~

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165

Notes Ck'd by	Survey of Castaic Sec Ln
Map No.	JN 0302.01 Tape Std °F
Office Work	Surveyed by WILSON
Checked	Notes WILSON Date 1-6-69
Date	Indexed C. J. GALLI JR 10 '69

F. B. 2457 PG. ~~[illegible]~~

Noted on Index Card
Placed on U.S. Quad. Shts.
Placed on Dir. Div. W.S. No.
Sketch on Geo. Geco. Card

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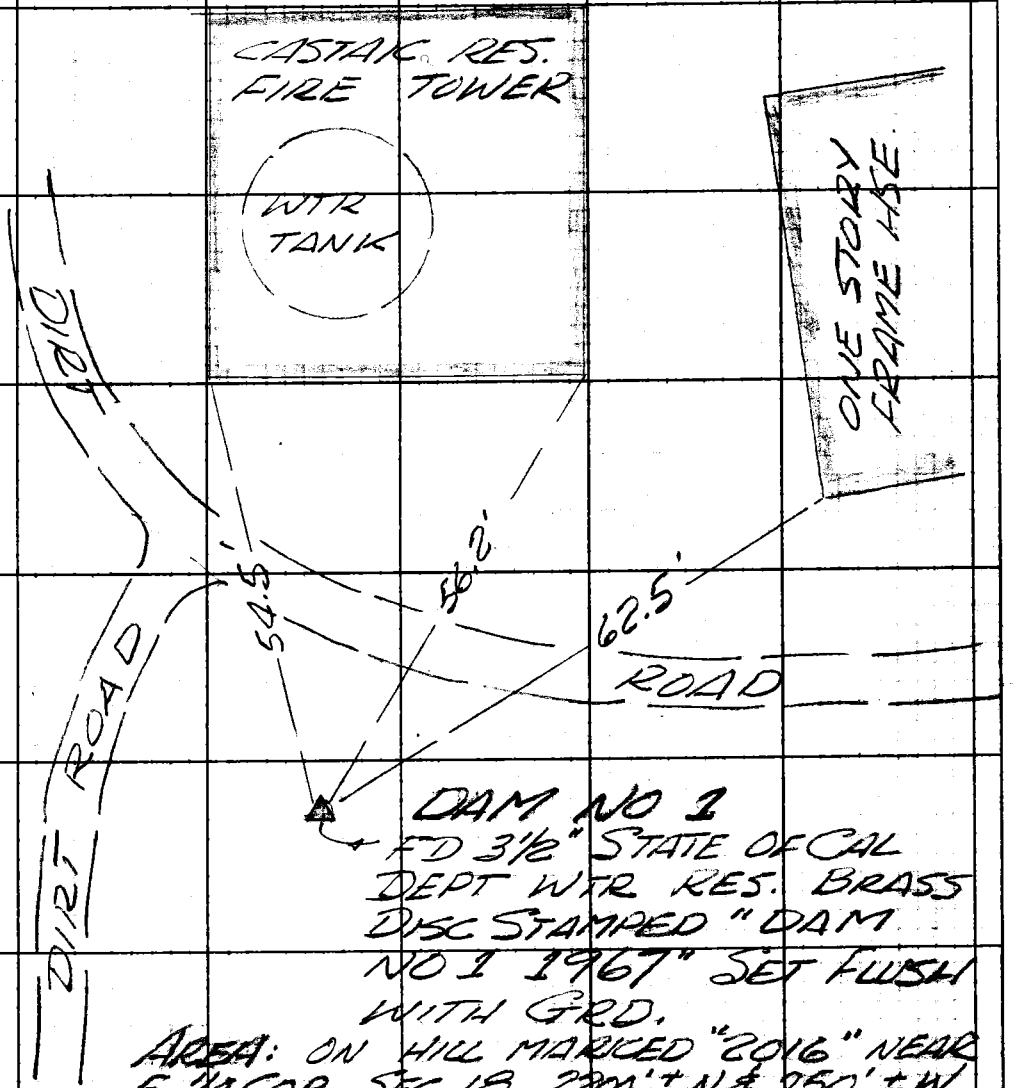
76F309S CE#310 1-65

DAM NO. 1

ROUTE: TRAVEL LAKE HUGHES RD NE FROM CASTAIC; @ NEW CONST. TURN RT UP DIRT RD 0.3 TO "T" INTER; TURN LFT 0.4 MILE TO "Y" INTER; KEEP RT 0.1 MILE UP GRADE TO STA.



DAM NO 1
FD 3½" STATE OF CAL DEPT WTR RES. BRASS DISC STAMPED "DAM NO 1 1967" SET FLUSH WITH GRD.

AREA: ON HILL MARKED "2016" NEAR E ¼ COR SEC 18, 2200'± N & 750'± W OF SE COR SEC 18, T5N, R16W. WARM SPRINGS MTN 7½' QUAD.

F. B 2457 PG. 166

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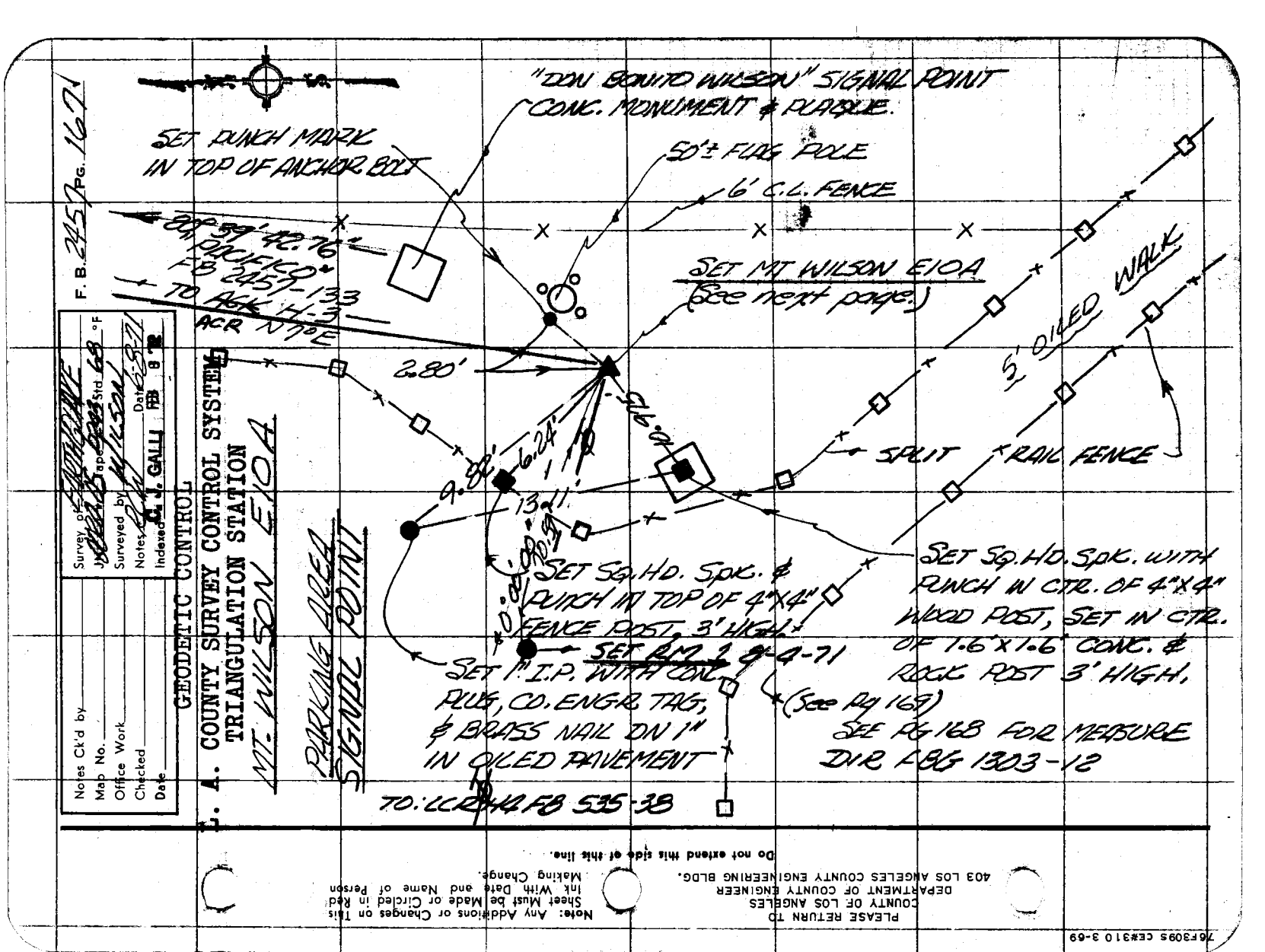

F. B. 2457 PG. 167
"DON BONITO WILSON" SIGNAL POINT
CONC. MONUMENT & PLAQUE.
SET PUNCH MARK
IN TOP OF ANCHOR BOLT
50'± FLAG POLE
6' C.L. FENCE
80° 39' 42.76"
PACIFICO
FB 2457-133
TO AGK H-3
ACR N7°E
SET MT WILSON E10A
(See next page.)
5' OILED WALK
2.80'
9.82'
6.24'
13.11'
SPLIT
RAIL FENCE
SET SQ. HD. SPK. &
PUNCH IN TOP OF 4"X4"
FENCE POST, 3' HIGH.
SET RM 1 8-4-71
SET 1" I.P. WITH CONC.
PLUG, CO. ENGR. TAG,
& BRASS NAIL DN 1"
IN OILED PAVEMENT
SET SQ. HD. SPK. WITH
PUNCH IN CTR. OF 4"X4"
WOOD POST, SET IN CTR.
OF 1.6'X1.6' CONC. &
ROCK POST 3' HIGH.
(See Pg 169)
SEE PG 168 FOR MEASURE
DIR FBG 1303-12
TO: LCR 44 FB 535-38
PARKING AREA
SIGNAL POINT
GEODETIC CONTROL
L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
MT. WILSON E10A
Survey of EARTHQUAKE
Jy 1943 Tape 5243 Std 68 °F
Surveyed by WILSON
Notes
Date 6-8-71
Indexed C. J. GALLI FEB 8 '72
Notes Ck'd by
Map No.
Office Work
Checked
Date
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F. B. 2457 Pg. 168

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

MT WILSON E10A

100' # 0243 MEASUREMENTS L@ 64°

2.80' = 2.80' 6.24' = 6.24' 9.82' = 9.82'

13.11' = 13.11' 10.975' = 10.975'

C 82° T 70.59' = 70.59' (300' # 139)

AREA:

THIS TRIANG. STA. IS LOCATED IN L.A. CO. ATOP MT. WILSON, AT THE AREA DESIGNATED "SIGNAL POINT", AT THE MOST SOUTH ELY CORNER OF A LARGE PARKING AREA FOR A PRIVATE PARK KNOWN AS "SKYLINE PARK," OPERATED BY THE METROMEDIA CORP.

ROUTE:

FROM FOOTHILL BLVD & ANGELES CREST HWY: FOLLOW ANGELES CREST HWY NLY & EASTERLY TO RED BOX RANGER STA. AND THE MT. WILSON RD. - TAKE MT WILSON RD TO THE TOP AND ENTRANCE GATE TO ~~SKYLINE PARK~~ GAIN ENTRANCE AT GATE, AND TRAVEL S. ELY 0.4 MILE TO SIGNAL POINT AT MOST SO. EAST CORNER OF LARGE PARKING AREA AND THE STATION.

STATION MARK:

~~A 1" IRON PIPE, CONC. PLUG, WITH "L.A. CO. ENG'R" BRASS TAG & NAIL, DN. 2".~~ NO SUBSURFACE MARK SET. REPLACED 1" IP, IN EXACT POSITION, WITH A 4" L.A. CO. SUR. CONT. SYS. BRASS TRI DISC STAMPED "MT WILSON E10A 1971 RE 7078" FLUSH WITH GRD AND SET IN AN 8" CONC. POST.

8-4-71 RWilson

MT WILSON OBS. GROUNDS

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Notes Ck'd by	Survey of EARTHQUAKE STUDY
Map No.	Tape Std °F
Office Work	Surveyed by R. C. Wilson
Checked	Noted R. C. Wilson Date 6-8-71
Date	Indexed C. J. GALLI

F. B. 2452 PG. 169

GEODETIC CONTROL

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

MT WILSON E10A

REFERENCE MARKS:

RM 1: A 4" L.A. CO. SUR. CONT. SYS. BRASS REF. MARK DISC STAMPED "MT WILSON E10A RM 1 1971 RE 7078" SET IN AN 8" CONC. POST ON 6", PROTECTED BY A CAST IRON COVER IN PAVED PARKING AREA, AND ON LINE TO LCR H 4.

(ADDL SURFACE TIES PG 161.)

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76F309S CE#310 3-69

F. B. 2457 PG. 170

GEODETIC CONTROL

L. A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

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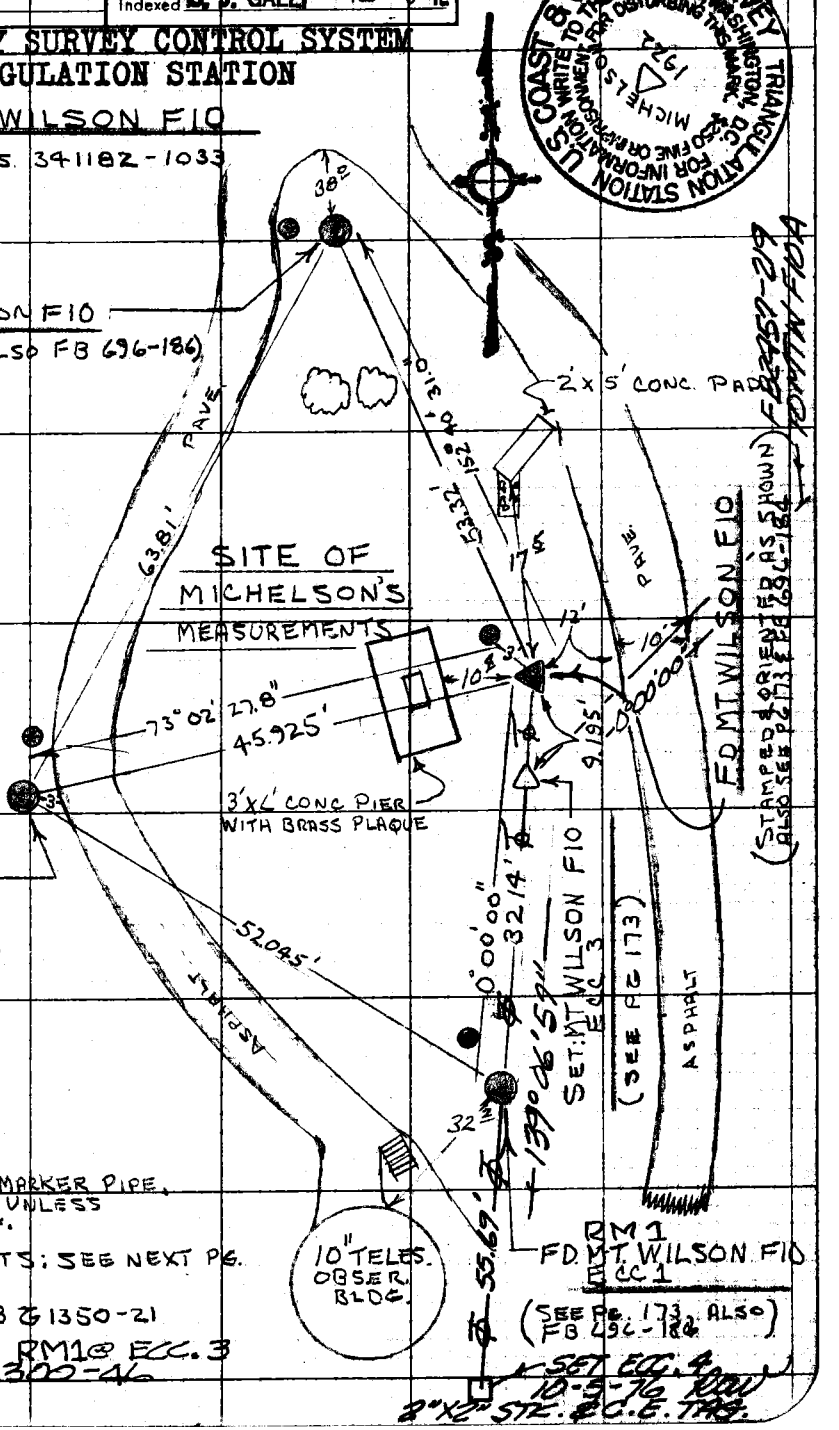
MALIBU (1980)	134.433	CS MON 10IN DN DIVIDING STRIP PACIFIC COAST HWY @ C/L B C & 0.15MI W PUERCO CYN RD BETWEEN L & T 48FT S PP NO 1112035E MKD(SOLSTICE CYN I-8 1950)	CY	5406
MALIBU (1980)	38.432	CS MON 10IN DN IN DIVIDING STRIP PACIFIC COAST HWY 134FT W/O EC & 0.2MI E/O CORRAL CREEK BET L&TS 0.5MI W/O PUERCO CYN RD MKD (SOLSTICE CYN I-9 1950)	CY	5407
MALIBU (1980)	18.670	CS MON IN WELL 10IN DN @ C/L BC PACIFIC COAST HWY 200FT E BRIDGE 53-31 OVER CORRAL CANYON CREEK 0.6MI W PUERCO CANYON RD MKD (SOLSTICE CANYON I-9A 1950)	CY	5408
MALIBU (1980)	16.929	CSBM MON FLUSH E END N WALK BRIDGE 53-31 ON PACIFIC COAST HWY OVER CORRAL CREEK 0.65MI W/O PUCRCO CYN RD MKD(US 1303 RESET 1938)	CY	5409
MALIBU (1980)	16.931	USC&GS MON FLUSH W END N WALK BRIDGE 53-31 ON PACIFIC COAST HWY OVER CORRAL CREEK 0.65MI W/O PUORCO CYN RD MKD (F 1052 1960)	CY	5410
MALIBU (1980)	18.677	CS MON IN WELL 12IN DN DIVIDING STRIP PACIFIC COAST HWY @ C/L EC 450FT W/O CORRAL CREEK 0.75MI W/O PUCRCO CYN RD MKD (SOLSTICE CY H-8 1950)	CY	5411

Notes Ck'd by	Survey of EARTHQUAKE STUDY
Map No.	JN 0020.05 Tape Std °F
Office Work	Surveyed by R. C. WILSON
Checked	Notes C.R. PYLE Date 6-10-71
Date	Indexed D. J. GALLI FEB 3 72

F. B. 2457 PG. 171

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
MT. WILSON F10

U.S.C.&G.S. 341182-1033



● DENOTES 2" MARKER PIPE, 5' OFFSET UNLESS MARKED DIFF.

MEASUREMENTS: SEE NEXT PG.

DIRECTIONS: FB 1350-21

DIR F10A TO RM1 @ ECC. 3 PER FBG 1300-46

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76F309S CE#310 3-69

F. B. 2452 PG. 122

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
MT. WILSON F10

300' #221 MEASUREMENTS 50 MTR. MG

T-48°

41.34' = 41.33' @ LEV. 12.602M = 12.599M = 41.335'
53.33' = 53.32' @ LEV. 16.256M = 16.253M = 53.32'

T-62°

32.14' = 32.14'
9.195' = 9.195'

T-64°

52.06' = 52.05' 15.865M = 15.862M = 52.04'
45.94' = 45.93' 14.000M = 13.997M = 45.92'
63.82' = 63.81' 19.453M = 19.450M = 63.81'

AREA:

THIS TRI. STA. IS LOCATED IN L.A. CO. ATOP MT. WILSON, AT THE SITE OF ALBERT MICHELSONS MEASUREMENT OF THE VELOCITY OF LIGHT. IT IS IN AN AREA ADJACENT TO "SKYLINE PARK" WHICH IS OPERATED BY THE METRO-MEDIA CORP.

ROUTE:

FROM ITS INTER. WITH FOOTHILL BLVD. ASCEND N.LY. & ELY. ON ANGELES CREST HWY. 14.4 MILES TO ITS JUNCTION WITH MT. WILSON RD. AT "RED BOX RANGER STA." TURN RIGHT (SWLY) AND CONTINUE 4.7 MILES TO WHERE MT WILSON RD. BECOMES VIDEO RD., THENCE 0.30 MILE TO THE ENTRANCE GATE TO "SKYLINE PARK." GAIN ENTRANCE AND PROCEED ELY., CROSSING A PARKING AREA, TO THE TERMINUS OF A ROAD WHICH IS DIVIDED BY A TREE IN THE CENTER. FOLLOW THIS 0.30 MILE TO THE "ASTRONOMICAL MUSEUM", THENCE 0.10 MILE TO AN INTER. TURN RIGHT (SLY) AND 50' FURTHER PASS THROUGH A GATEWAY (OPEN) WITH A SIGN STATING "PRIVATE AREA DO NOT ENTER". PROCEED 0.10 MILE TO THE BLACKSMITH SHOP, THENCE 100' ± FURTHER TO A SMALL KNOB AND THE STA.

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Map No.	JN 0020.05 Tape Std °F
Office Work	Surveyed by R.C. WILSON
Checked	Notes C. A. PYLE Date 6-10-71
Date	Indexed C. J. GALLI 8-72

F. B. 2457 PG. 173

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
MT WILSON F10

STATION MARK

A 4" U.S.C & G.S. BRASS TRIANGULATION STA. DISC STAMPED "MICHELSON 1922" SET IN AN 18"x18" CONC. PAD 6" ABOVE GRD.

ECC NO 2 NOT FOUND.

REFERENCE MARKS

RM1 - ECC 1 : A 4" U.S.C & G.S BRASS REFERENCE MARK DISC. STAMPED "MICHELSON 1922". NO RM NUMBER STAMPED ON DISC. SET IN AN 18"x18" CONC PAD 3" ABOVE GRD.

STAMPED "NO 1" 11-19-71 RCW

RM2 - NORTH RM: IDENT. TO RM 1 (SOUTH RM) EXCEPT SET 6" ABOVE GRD. STAMPED "NO 2" 11-19-71 RCW

RM3 : A 4" L.A. CO. SUR. CONT. SYS. BRASS REFERENCE MARK DISC, STAMPED "MT WILSON F10 RM 3 1971 RE 7078". SET IN AN 8" CONC POST, 2" ABOVE GRD.

OTHER MARKS

ECC 3 : A 1"x2" & NAIL ON TANGENT BETWEEN MT WILSON F10 & MT WILSON F10 ECC 1

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76F309S CE#310 3-69

F. B. 2457 PG. 174

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

MT WILSON F10

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Notes Ck'd by	Survey of Precise Levels
Map No.	JN 0301.02 Tape — Std — °F
Office Work	Surveyed by Dreier
Checked	Notes Dreier Date 7-'71
Date	Indexed D. J. GALLI FEB 8 '72

F. B. 2457 PG. 175

NOTE: AS OF 8-4-71 ELEV. ON MTN E10A NOT GOOD - 1" IP REPLACED WITH CO. ENGR. MON. R.C. Wilson SEE PG 168 - STATION MARK.

L. A. COUNTY PRECISE LEVEL NET

J.N: 0301.02

ESTABLISHMENT OF PRECISE ELEVATIONS ON

MT. WILSON E-10A

MT. WILSON F-10 ECC. #3

MT. WILSON F-10A (Echo Rock)

7-19-'71

NOTE: NEW MONUMENT AT MT WILSON E10-A 0.08' LOWER IN ELEVATION THAN B.M. FLAGPOLE ON PG 178. RWilson 11-19-71

DREIER
MALDONADO
SIEMANN
McKNIGHT
MIYAHIRA

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76F309S CE#310 3-68

F. B. 2457 PG. 176

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76P526B CE # 308 8/68

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STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
									FROM U.S.C.&G.S. G-1148 TO MT. W. E-10A
B.M.G-1148									B.M. U.S.C.&G.S. G-1148 1961
1	285	695	586 5	277 273 24	28	136	329 5	40 16 24	0.5 MI. N.W. OF MT. WILSON
									PARK ENTRANCE GATE
2	286	260	587 5	301 271 30	3	962	304 5	17 3 28	ELEV. 5577.482
				54				52	
3	296	021	597 5	306 286 20	31	143	332 5	42 20 22	
				74				74	
4	284	348	585 5	295 273 22	44	428	345 5	55 33 22	
				96				96	ELEV., FT.
5	288	149	589 5	299 277 22	9	217	310 5	120 1/2 9 22	
				118				118	U.S.C.&G.S 1148 5577.482
6	292	511	593 5	306 278 28	54	002	355 5	67 41 26	+ 74.494
				146				144	FLAGPOLE 5651.976
7	269	698	570 5	290 248 42	48	678	349 5	69 27 42	− .211
				188				186	MT. WILSON E-10A 5651.765 FT
8	244	409	545 5	270 218 52	14	268	315 5	140 214 52	
				240				238	
9	220	879	521 5	240 200 40	74	959	375 5	95 53 42	
				280				280	
10	248	364	549 5	281 215 66	166	852	467 5	199 133 66	
				346				346	
11	164	522	465 5	198 130 68	198	481	499 5	233 163 70	
				414				416	
12	99	390	400 5	126 72 54	117	949	418 5	144 90 54	
				468				470	
13	191	583	492 5	213 169 44	118	167	419 5	140 96 44	
				512				514	
	3171	829		CONT.	910	242			

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET T = 86°

SURVEY BY G.E. DREIER WEATHER SUNNY, CLEAR ST. NO. 96716

NOTES BY SIEMANN DATE 7-19-71 TIME 9:30 ROD NO. 75596

INDEXED C. J. GALLI DATE FEB 8 72 NOTES CHKD DATE

F.B. 2457 PG. 177

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Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
									FROM U.S.C.&G.S. C-1148 TO MT. W. E-10A
14	261	539	562.5	298 512 224 74 586	179	854	480.5	217 514 141 76 590	CONT. +3513.051 -1242.173 cm. +2270.878 = 74.494 FT
15	79	683	380.5	103 55 48 634	152	077	453.5	177 127 50 640	
B.M. FLAGPOLE	(3513.051)				(1242.173)				B.M. FLAGPOLE MOST N.WLY BOLT, AT BASE OF FLAGPOLE, WITH PUNCH MARK. SEE F.B. 2457-167
16	111	412	412.5	115 107 8 646	118	088	419.5	120 4 116 ~~120~~ 644	-118.088 +111.412 -6.676 cm = 0.211 FT.
	3624.463 1360.261 +2264.202				1360	261			= +74.285 FEET
BM. MT. WILSON E-10A NG 8-4-71 DW									~~BM. MT. WILSON E-10A~~ ~~1" I.P. & TAG PER~~ ~~F.B. 2457-167~~ NG 8-4-71 DW See Pg 168

F.B. 2457 Pg. 178 JOB NO. 0301.02

SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY DREIER NOTES SIEMANN 7-19-71

INDEXED C. J. GALLI DATE

WEATHER SUNNY, CLEAR INST. NO. 96716

TIME ROD NO.

NOTES CHKD DATE

T = 86°

76P526B CE # 308 8/68

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

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

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JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET
SURVEY BY G. E. Drexler
NOTES BY Donald Nado DATE 7-15-71
INDEXED G. J. GALLI DATE FEB 8 72
WEATHER Sunny 80° TIME 10:45 to 11:40
NOTES CHKD DATE
INST. NO. 96716
ROD NO. 95592
F.B. 2457 PG. 179
T-92°

STATION	BACKSIGHT Right Mic.	Left.	Stadia	FORESIGHT Right Mic.	Left.	Stadia
B.M. E-10A			186			56
1	157 149	458 5	128 58	27 060	328 5	-2 58
			225			184
2	206 938	507 5	187 38	165 734	466 5	146 38
			111 96			239 96
3	100 029	401 5	89 22	228 939	529 5	217 22
			20 118			252 118
4	6 402	307 5	6½ 28	238 966	539.5	224 28
			128 146			169 146
5	114 235	415 5	100 28	156 928	457 5	143 26
			90 174			226 172
6	77 218	378 5	64 26	213 661	514 5	200 26
			145 200			219 198
7	121 467	422 5	97 48	196 349	497 5	173 46
			306 248			161½ 244
8	296 813	597 5	286 20	5 230	306 5	5½ 22
			254 268			16 266
9	247 529	548 5	240 14	8 818	309 5	0 16
			294 282			246 282
10	294 999	595 5	276½ 36	227 471	528 5	208 38
			146 318			75 320
11	127 999	428 5	108 38	57 367	358 5	39 36
			295 356			21½ 356
12	282 396	583 5	269 26	7 418	308 5	7½ 28
			238 382			30 384
13	229 568	530 5	220 18	22 657	323 5	14 16
						~~400~~
			400			400
B.M.	2262742			1556598		800
	1556598					
	+ 706144					

DESCRIPTION AND REMARKS
FROM B.M. MT. W. E-10A TO ~~MT. W. T-10~~ B.M. OBSERVATORY

B.M. MT. WILSON E-10A
AT S'LY END OF PARKING AREA
NEAR FLAG POLE
SEE F.B. 2457-167

π - Siemann

MT. WILSON E-10A 5 651.765 FT.
+ 23.135
OBSERVATORY 5 674.900 FT

B.M. OBSERVATORY
SET P.K. SPK. IN LEAD AT S'LY
END OF CONC. WALK TO 100" SCOPE
NEAR S'LY GAURDRAIL POST

= +23.135 FT

F.B. 2457 Pg. 180 JOB NO.

SURVEY OF

SURVEY BY NOTES

INDEXED DATE

WEATHER INST. NO.

TIME ROD NO.

NOTES CHKD DATE

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM TO

76P526B CE # 308 8/68

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET
SURVEY BY G. E. Dreier DATE 7-19-71 WEATHER Sunny & Clear INST. NO. 96716
NOTES BY Maldonado TIME 11:40 to 1:20 ROD NO. 95896
INDEXED C. J. GALLI DATE FEB 8 72 NOTES CHKD DATE
F.B. 2457 PG. 181
T-86°

STATION	BACKSIGHT Right Mic.	BACKSIGHT Left	BACKSIGHT Stadia	FORESIGHT Right Mic.	FORESIGHT Left	FORESIGHT Stadia	DESCRIPTION AND REMARKS
							FROM B.M. OBSERVATORY TO BM F-10
	13444		226	45434		218	B.M. OBSERVATORY
1	211 321	512 5	196 30	202 895	503 5	186 32	SET P.K. SPK IN SLY END OF CONC
			15			244	WALK TO 100" TELESCOPE NEAR
2	8 853	309 5	1 14	237 979	538 5	230 14	END GAURD RAIL POST
			16, 44			301 46	
3	7 259	308 5	7½ 18	295 151	596 5	289 12	
			17 62			304 58	
4	12 338	313 5	7 10	298 438	599 5	292 12	T-Siemann
			62 72			244 70	
5	59 621	360 5	56 6	239 621	540 5	234 10	OBSERVATORY 5674.900 FT.
			78			80	- 43.772
			68			239	
6	50 447	351 5	32 36	222 320	523 5	205 34	MICHELSON 5631.128 FT.
			15 114			204 114	(5631.153)
7	6 365	307 5	6½ 18	195 739	496 5	186 18	
			146 132			145 132	
8	140 999	441 5	134 12	139 219	440 5	133 12	
			~~144~~			144	
			144			144	
	497 203			1831 362		288	BM F-10 (U.S.C.&G.S. MICHELSON 1922)
				497 203			
							PER F.B. 2457-171
			-	1334 159			= - 43.772 FT.

F.B. 2457 Pg. 182 JOB NO. 030102

SURVEY OF L.A. Co. PRECISE LEVEL NET

SURVEY BY _____ NOTES _____

INDEXED _____ DATE _____

WEATHER _____ INST. NO. _____

TIME _____ ROD NO. _____

NOTES CHKD _____ DATE _____

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM _____ TO _____

76P526B CE # 308 8/68

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM MICHELSON TO F.10 ECC. #3
B.M. F-10							B.M. MICHELSON (F-10)
1	182 903	483 5	184 180 4	183 773	484 5	185 181 4	
							F.B. 2457-171
				182 903			
B.M. F-10 ECC							F-10 ECC. #3
				- 0870			1X2 9.19 FT SLY
							FB. 2457-171
							0.892
							0.870
							MEAN. = 0.881 = -0.029 FT
							MICHELSON 5631.128 FT.
							- 0.029
							MT. WILSON F-10 ECC 3 5631.099 FT.

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET T-86°

SURVEY BY G.E. DREIER WEATHER SUNNY, CLEAR INST. NO. 96766

NOTES BY SIEMANN DATE 7-19-71 TIME 3:00 TO 3:05 ROD NO. 95896

INDEXED C. J. GALLI DATE FEB 8 72 NOTES CHKD DATE

F.B. 2457 PG. 183

PLEASE RETURN TO

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM F-10 ECC #3 TO F-10
B.M. F-10 ECC #3							B.M. F-10 ECC #3
							1X 2 9.19 SLY
1	189.606	490 5	191 187 4	188714	489 5	190 186 4	F.B. 2457-171
	188.714						
						4	
B.M. F-10	+ 0892					8	B.M. F-10 (MICHELSON)
							F.B. 2457-171

T = 86°

WEATHER SUNNY, CLEAR INST. NO. 96716

TIME 3:08 TO 3:10 ROD NO.

NOTES CHKD DATE

F.B. 2457 PG. 184 JOB NO. 0301.02

SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY DREIER NOTES SIEMANN 7-19-71

INDEXED C. J. GALLI DATE

76P526B CE # 308 8/68

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LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
							FROM B.M OBSERVATORY / B.M. ECHO ROCK
B.M. OBS.							B.M. OBSERVATORY
1	273 559	574 5	280 266 14	6 287	307 5	14 -2 16	
2	48 742	349 5	60 36 24 38	201 681	502 5	212 190 22 38	
3	103 908	404 5	118 88 30 68	290 299	591 5	305 275 30 68	
4	4 502	305 5	9 ½ 4 10 78	298 127	599 5	304 292 12 80	
5	17 897	318 5	20 14 6 84	257 898	558 5	260 254 6 86	π = MALDONADO
6	6 967	307 5	10 3 7 91	159 217	460 5	163 155 8 94	OBSERV. 5674.900 FT
7	131 353	432 5	135 127 8 99	283 100	584 5	287 279 8 102	- 32.685
8	14 271	315 5	24 4 20 119	100 932	401 5	107 93 14 116	ECHO 5642.215 FT
B.M. ECHO ROCK						119	B.M. ECHO ROCK
	601 199 ✓			1597 541 ✓		235	
				601 199			
				996 342 ✓			

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET T = 88°

SURVEY BY G.E. DREIER WEATHER SUNNY CLEAR ANST. NO. 87716

NOTES BY SIEMANN DATE 7-19-71 TIME 1:45 TO 2:20 ROD NO. 95896

INDEXED C. J. GALLI DATE FEB 8 72 NOTES CHKD DATE

F.B. 2457 PG. 185

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LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

F.B. 2457 PG. 186 JOB NO. 0301.02

SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY DEFIER NOTES SIEMANN 7-19-71

INDEXED C. J. GALLI DATE

WEATHER SUNNY, CLEAR INST. NO. 96716

TIME 2:20 TO ROD NO. 95896

NOTES CHKD DATE

T = 88°

STATION	BACKSIGHT Right Mic.	BACKSIGHT Left	BACKSIGHT Stadia	FORESIGHT Right Mic.	FORESIGHT Left	FORESIGHT Stadia	DESCRIPTION AND REMARKS
							FROM ECHO ROCK TO OBSERVATORY
B.M. ECHO ROCK							B.M. ECHO ROCK
1	100 798	401 5	107 93 14	57 705	358 5	66 48 18	
2	273 122	574 5	276 270 6	8 49 957	349 5	52 44 8	
3	110 530	411 5	115 105 20 10	14 198	315 5	19 9 26 10	
4	289 173	590 5	292 286 30 6	10 792	311 5	14 6 36 8	
5	287 769	588 5	292 282 36 10	4 301	305 5	8 4 44 [redacted]	T = MALDONADO
6	283 949	584 5	298 268 46 30	74 801	375 5	87 61 [redacted] 52 26	
7	162 952	463 5	172 152 76 20	9 823	310 5	19 -1 78 20	
8	62 308	363 5	68 56 96 12	280 892	581 5	287 274 98 13	
9	71 672	372 5	76 66 108 10	144 618	445 5	147 141 111 6	
			118			117	
B.M. OBS.						118	B.M. OBSERVATORY
	642 273			646 087		235	
	646 087						
	+996 186						

-996.342
+996.186
538

= MEAN 996.264 = 32.685 FT.

Notes Ck'd by	Survey of FRIENDLY VALLEY	F. B. 2457 PG. 187
Map No.	JN 0077.33 Tape 0176 Std 68 °F	
Office Work	Surveyed by G.E. DREIER	
Checked	Notes Date OCT 1971	
Date	Indexed E. J. GALL NOV 4	

JOB NO. 0077.33

LAND MOVEMENT-FRIENDLY VALLEY AREA

GEODETIC CONTROL

TO TRACT NO. 27564, LOTS 250, 254, 255, 258, ETC.

DREIER
MALDONADO
SIEMANN
McKNIGHT
OHASHI

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

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DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76E309S CE#310 3-68

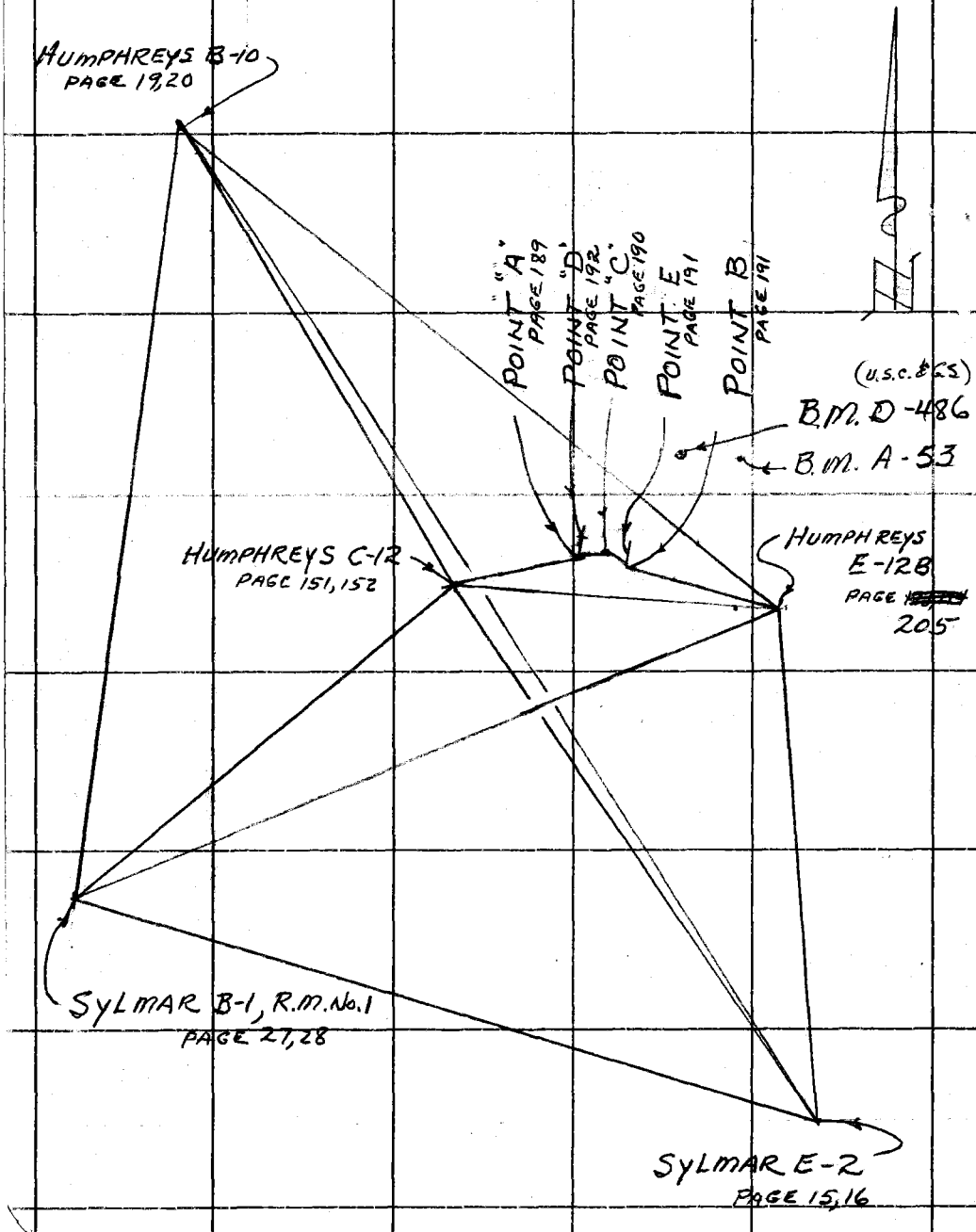
F. B. 2457 PG 188

CONTROL SKETCH

TRACT NO 27564, LOT 254, 255, 258 & 250

(FREINDLY VALLEY LAND MOVEMENT)

ANGLES RECORDED IN F.B.G.1360



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DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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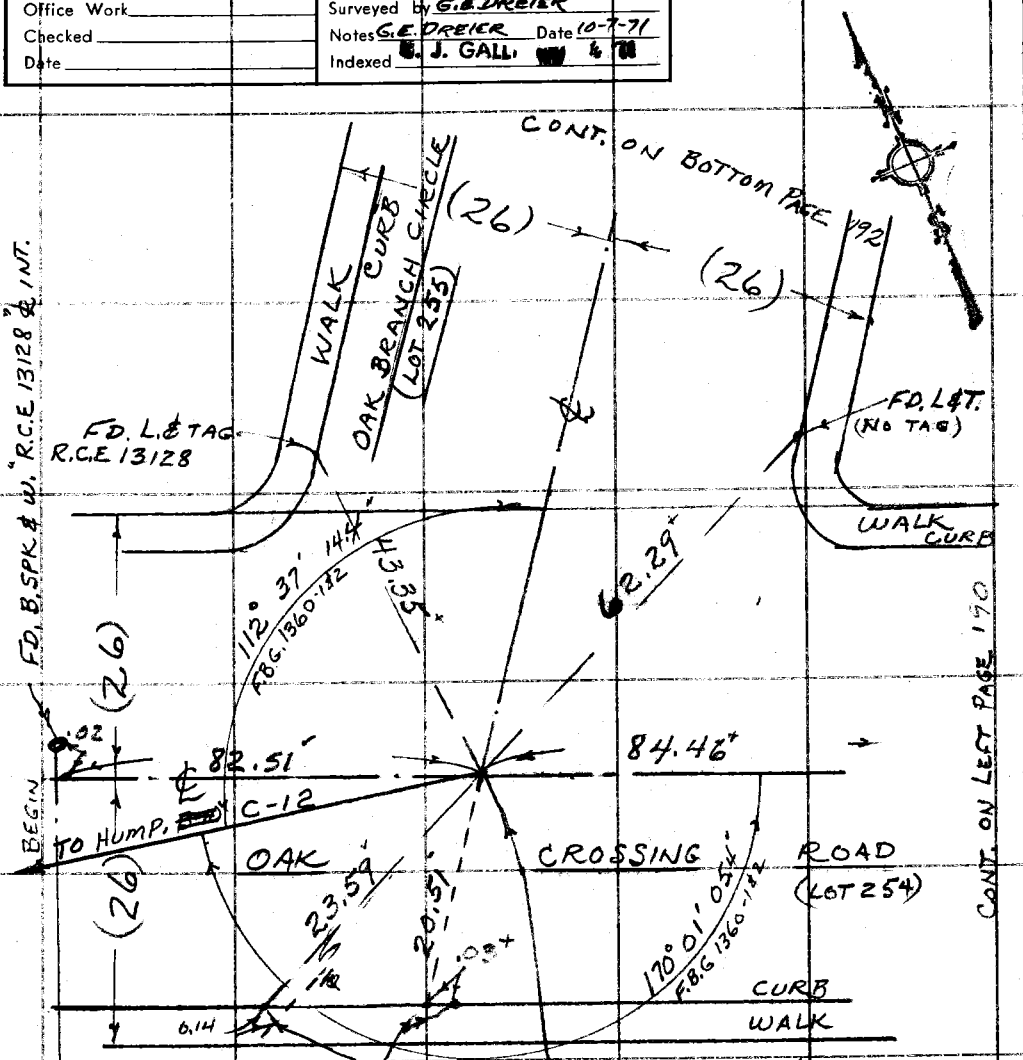
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of FRIENDLY VALLEY
Map No.	JN 007733 Tape 0176 Std 68 °F
Office Work	Surveyed by G.E. DREIER
Checked	Notes G.E. DREIER Date 10-7-71
Date	Indexed J. GALL, [redacted]

F. B. 2457 PG. 189



POINT "A" ℄ INTER.,
- FOUND BOAT SPK.
AND WASHER STAMPED
"R.C.E. 13128" AND
L.& TAG TIES PER
TRACT 27564, SHEET 4
(MAP BOOK 751 PG. 42)

84.45 @ 94° = 84.46
82.50 @ 94° = 82.51

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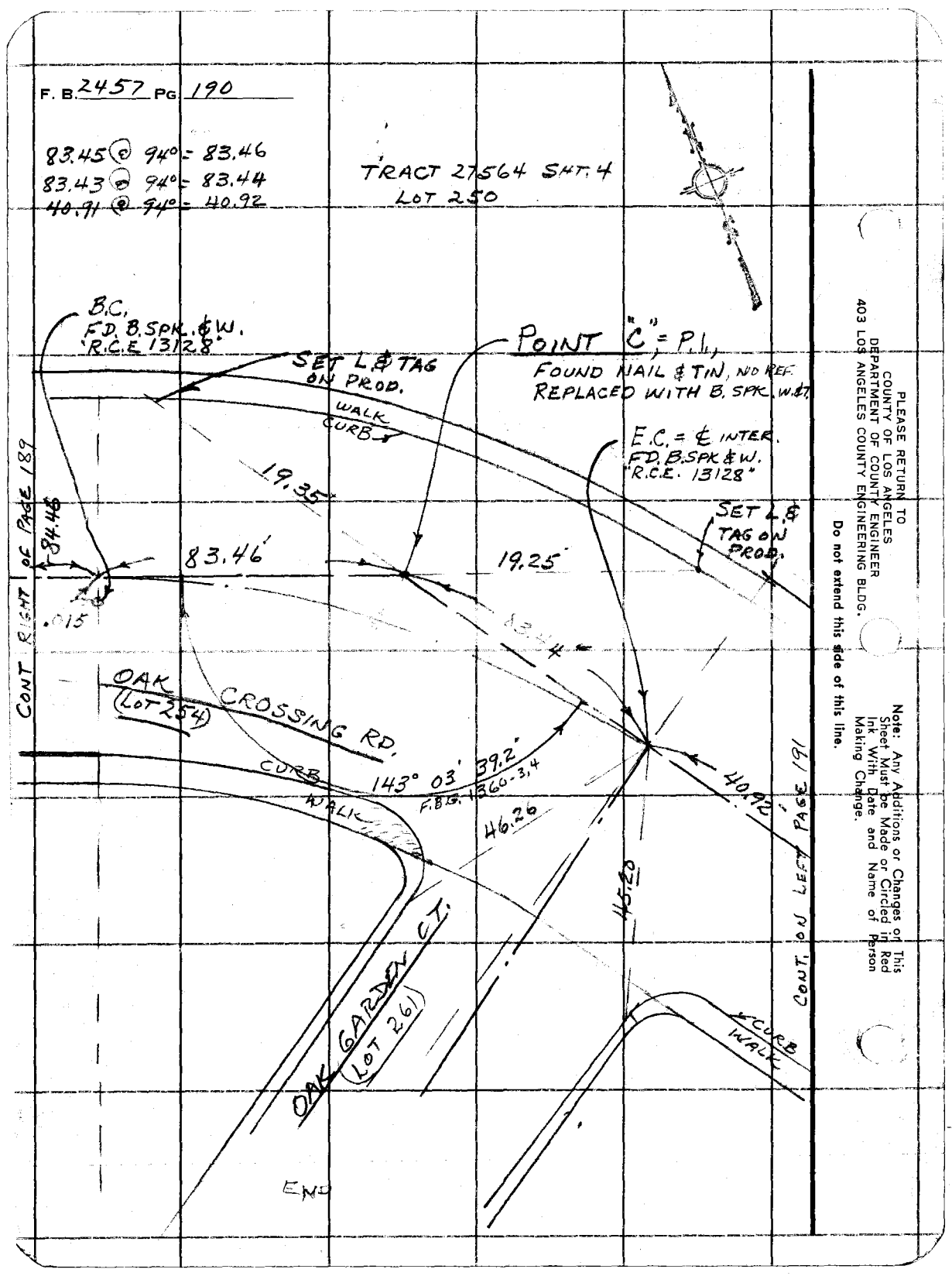
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

7-E-3095 C.E.#310 3-68

F. B. 2457 PG. 190

83.45 @ 94° = 83.46
83.43 @ 94° = 83.44
40.91 @ 94° = 40.92

TRACT 27564 SHT. 4
LOT 250



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

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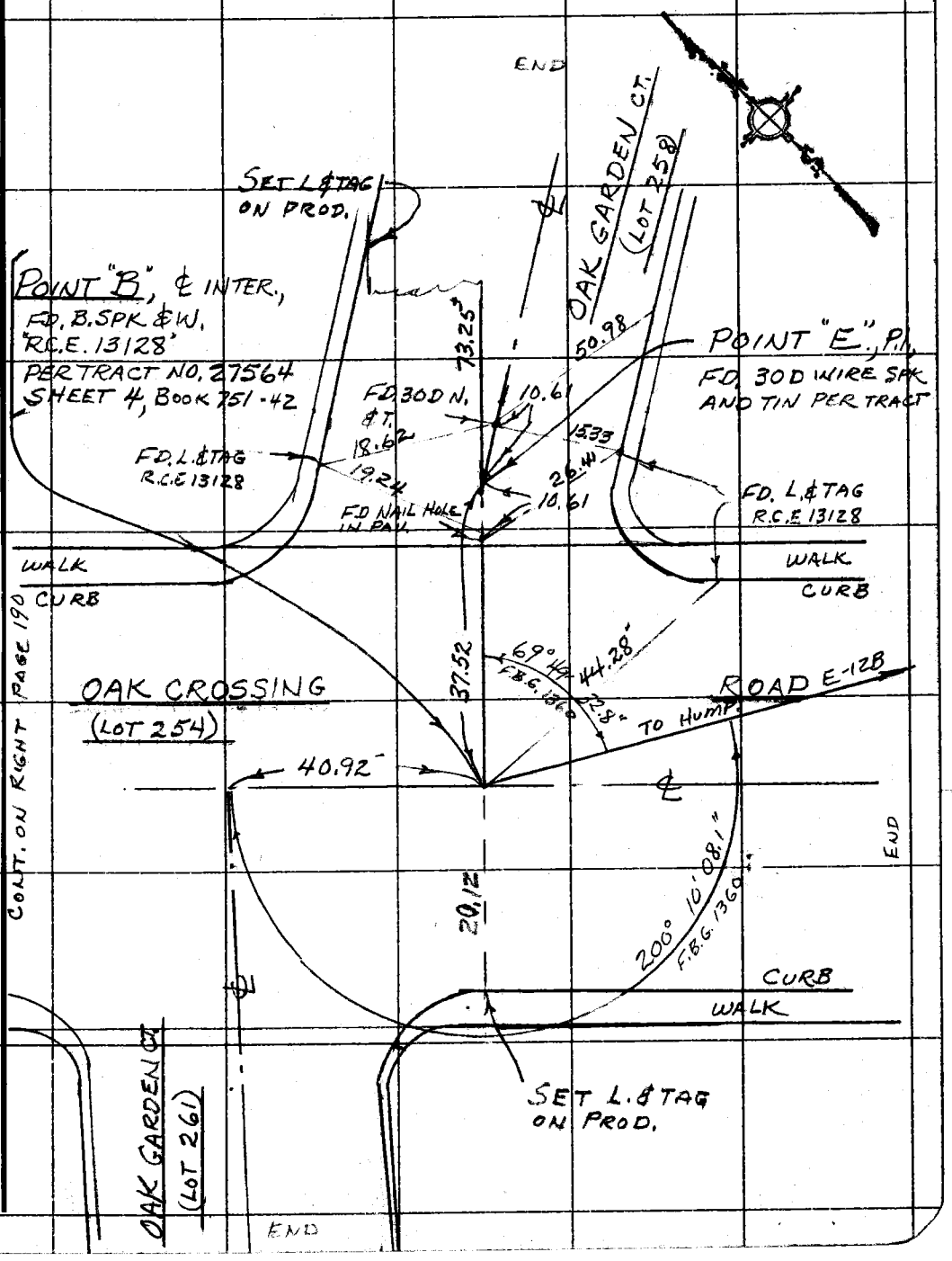
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of FRIENDLY VALLEY
Map No.	JN 007733 Tape 0176 Std 68 °F
Office Work	Surveyed by G.E. DREIER
Checked	Notes G.E. DREIER Date 10-7-71
Date	Indexed G. J. GALL [redacted] 4 [redacted]

F. B. 2457 PG. 191



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

76F3095 CE#310 3-68

F. B. 2457 PG 192

END.

POINT "D" ℄ INT.
FOUND B. SPK & W.
"R.C.E 13128" PER
TRACT 27564
SHEET 4

FD. L & TAG
R.C.E 13128

CIRCLE

47.94

(16)

(LOT 259)

OAK

(16)

END

℄

(LOT 260)

(16)

PLAZA CT.

END

(16)

39.04

45.93

FD L & TAG
R.C.E. 13128

OAK BRANCH

(LOT 255)

(26)

(26)

FD. L & TAG
"R.C.E 13128"

CONT. TOP PAGE 189

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76P526B CE # 308 8/68

PLEASE RETURN TO

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM "A" TO "C"
"A"									"A"
				35				295	Oak Crossing Rd. & Oak Branch
1	22	762	323 5	9 26	282	001	583 5	269 26	Circle & Int.
					22	762		26	SEE F.B. 2457-189
					-259,	239	cm.	52	π-Siemann
"C"									"C" (P.I. Bt. SPK. W. & T.)
									Oak Crossing Rd. between Oak
									Branch Circle & Oak Garden Ct.
									SEE F.B. 2457-190

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY G.E. Dreier

NOTES BY Maldonado DATE 10-6-71

INDEXED C. J. GALLI DATE NOV 4 '71

WEATHER Sunny & Breezy

TIME 2:05 to 2:10

NOTES CHKD

DATE

INST. NO. 96716

ROD NO. 95296

T- 96°

F.B. 2457 PG. 193

F.B. 2457 Pg. 194 JOB NO. 0077.33

SURVEY OF _____ WEATHER _____ INST. NO. _____

SURVEY BY _____ NOTES _____ TIME _____ ROD NO. _____

INDEXED _____ DATE _____ NOTES CHKD _____ DATE _____

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM _____ TO _____

76P526B CE # 308 8/68

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM "C" TO "B"
"C"							"C" (P.I. Bt. SPK. W. & T.)
			75			252	Oak Crossing Rd., between Oak
1	65 561	366 5	55 20	242 308	543 5	232 20	Brach Circle & Oak Garden Ct.
				65 561		20	SEE F.B. 2457-190
				176 747	c.m.	40	T. Siemann
"B"							"B"
							Oak Crossing Rd. & Oak Garden Ct.
							℄ Int.
							SEE F.B. 2457-191

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY G. E. Dreier

NOTES BY Maldonado DATE 10-6-71

INDEXED E. J. GALLI DATE NOV 4 '71

WEATHER Sunny & breezy INST. NO. 96716

TIME 2:10 to 2:15 ROD NO. 95-896

NOTES CHKD. DATE

T- 96°

F.B. 2457 PG. 195

F.B. 2457 Pg. 196 JOB NO. 0077.33

SURVEY OF _____ WEATHER _____ INST. NO. _____

SURVEY BY _____ NOTES _____ TIME _____ ROD NO. _____

INDEXED _____ DATE _____ NOTES CHKD _____ DATE _____

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM _____ TO _____

76P526B CE # 308 8/68

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
							FROM "B" TO BM A-53
B							"B"
1	25 640	326 5	39 11 28	296 469	597 5	296 ½ 283 ½ 26	Oak Crossing Rd. & Oak Garden Ct. & Int
2	9 059	310 5	16 2 18	271 367	572 5	280 262 18	SEE F.B. 2457-191
3	48 216	349 5	74 ½ 48 ½ 46 52	219 001	520 5	242 196 44 46	T-Siemann
4	21 822	322 5	47 ½ 21 ½ 98 52	297 510	598 5	297 ½ 268 ½ 90 58	
5	195 580	496 5	215 175 150 40	149 733	450 5	175 123 148 52	
6	134 961	435 5	162 106 190 56	137 728	438 5	165 109 200 56	
7	163 522	464 5	184 142 246 42	162 491	463 5	178 146 256 32	
8	148 004	449 5	167 129 288 38	192 372	493 5	210 174 288 36	
			326			324	
						326	
	746 804			1726 671		650	
				746 804			
				979,867	cm.		
BM A-53							B.M. A-53 (U.S.C.&G.S. A-53 1926) Along S.P.R.R. & Tel. Pole GB10. Opposite Friendly Valley Golf Course

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY G.E. Dreier

NOTES BY Maldonado DATE 10-6-71

INDEXED C. J. GALL DATE NOV 4 '71

WEATHER Sunny & Windy

TIME 2:15 to 2:55

NOTES CHKD

DATE

INST. NO. 96716

ROD NO. 95896

T-96°

F.B. 2457 PG. 197

F.B. 2457 Pg. 198 JOB NO 0077.33

SURVEY OF

SURVEY BY NOTES

INDEXED DATE

WEATHER INST. NO.

TIME ROD NO.

NOTES CHKD DATE

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM TO

76P526B CE # 308 8/68

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STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BM A-53 TO BM D 486
BM A-53				217				202	BM A-53 (U.S.C.&G.S. A-53 1926)
1	180	246	481 5	143 74	165	396	466 5	128 74	Along S.P.R.R. & Tel. Pole # GB 10.
				203				185	Opposite Friendly Valley Golf Course
2	168	834	469 5	133 70	150	888	451 5	115 70	
				163 144				181 144	
3	150	384	451 5	137 26	169	220	470 5	157 24	
				170				168	π-Siemann
								170	
	499	464			485	504		338	
	485	504							
	+13	960	cm						BM D 486 (U.S.C.&G.S. D-486 1955)
BM D486									Along S.P.R.R. @ Bridge # 144.91
									Opposite Friendly Valley Golf Course.

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY G.E. Draker

NOTES BY Maldonado DATE 10-7-71

INDEXED B. J. GALLI DATE NOV 4 71

WEATHER Sunny & Calm

TIME 9:30 to 4:40

NOTES CHKD

DATE

INST. NO. 96716

ROD NO. 95896

T-82°

F.B. 2457 PG. 199

F.B. 2457 Pg. 200 JOB NO 0072.33

SURVEY OF

SURVEY BY NOTES

INDEXED DATE

WEATHER INST. NO.

TIME ROD NO.

NOTES CHKD DATE

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STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM TO

76P526B CE # 308 8/68

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Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
							FROM B.M. D-486 TO "A"
BM D-486			102			222	BM D-486 (U.S.C.&G.S D-486 1955)
1	92 331	393 5	82 20	212 222	513 5	202 20	Along S.P.R.R @ Bridge # 144.91
			234			108	Opposite Friendly Valley Golf Course
2	208 489	509 5	182 52	82 329	383 5	56 52	
			267 72			94 72	
3	242 909	543 5	217 50	69 891	370 5	44 50	T-Siemann
			287 122			88 122	
4	258 ~~651~~ 651	559 5	229 58	60 679	361 5	32 56	
			300 180			24 178	
5	300 380	601 5	287 26	17 850	318 5	10 14	
			306 206			70 192	
6	297 292	598 5	288 18	55 501	356 5	40 30	
			293 224			48 222	
7	280 762	581 5	267 26	35 596	336 5	22 26	
			300 250			44 248	
8	287 570	588 5	274 26	32 422	333 5	20 24	
			276			272	
						276	
	1968 384			566 490		548	
	566 490						
	+1401 894 cm						
"A"							"A" Oak Crossing Rd. & Oak Branch Circle. SEE F.B. 2457-189

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET T-84°

SURVEY BY G.E. Dreier WEATHER Sunny & Calm INST. NO. 96716

NOTES BY Maldonado DATE 10-7-71 TIME 9:40 to 10:15 ROD NO. 95 & 96

INDEXED C. J. GALL DATE MAR 4 '71 NOTES CHKD. DATE

F.B. 2457 PG. 201

F.B. 2457 Pg. 202 JOB NO 2077.33

SURVEY OF

SURVEY BY NOTES

INDEXED DATE

WEATHER INST. NO.

TIME ROD NO.

NOTES CHKD DATE

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STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM TO

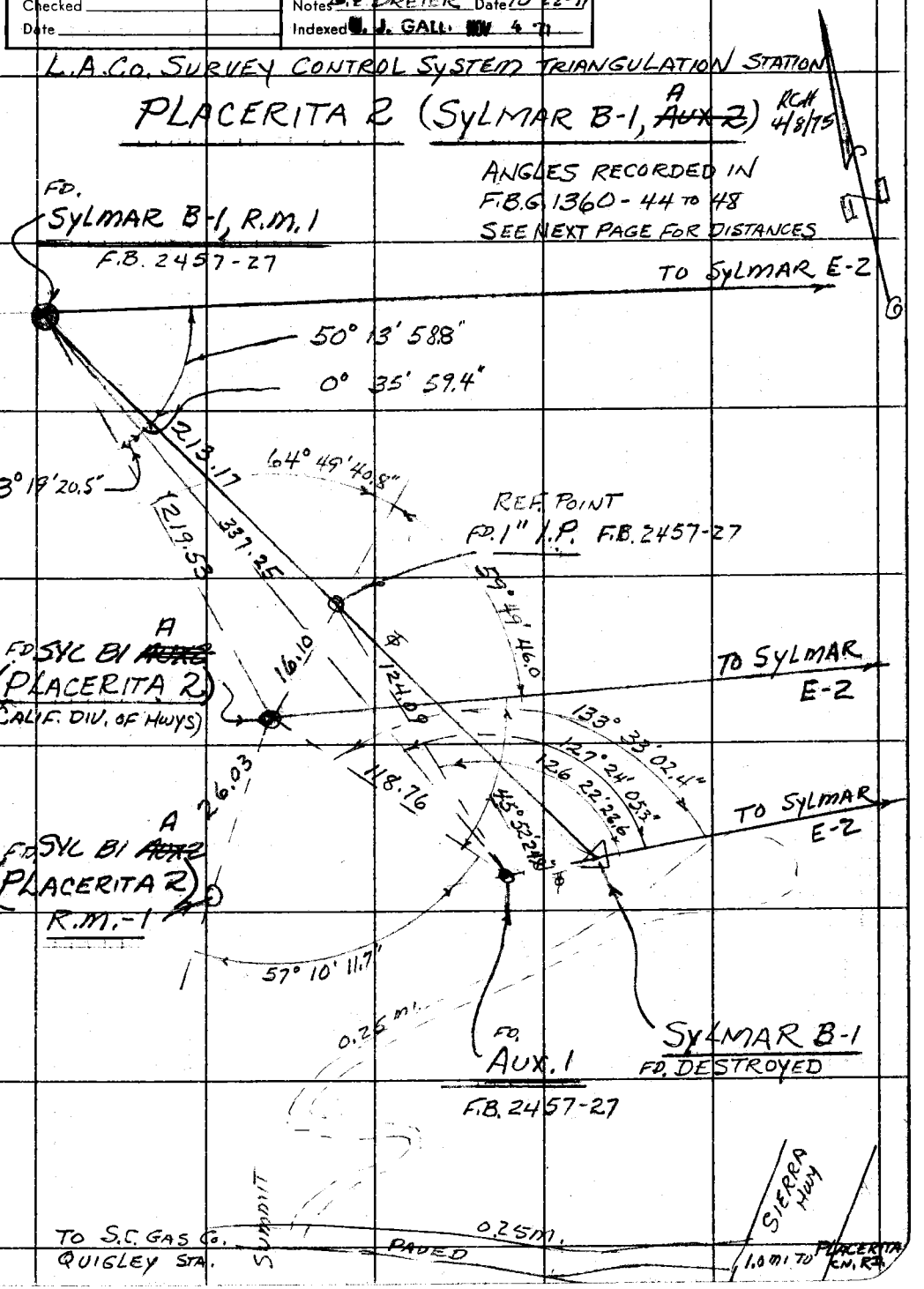
Notes Ck'd by	Survey of FRIENDLY VALLEY
Map No.	JN 007783 Tape 116 Std 84 °F
Office Work PAW	Surveyed by G.E. DREIER
Checked	Notes G.E. DREIER Date 10-22-71
Date	Indexed [redacted] J. GALL [redacted] 4 71

F. B. 2457 PG. 203 ✓

L.A.Co. SURVEY CONTROL SYSTEM TRIANGULATION STATION

PLACERITA 2 (SYLMAR B-1, ~~AUX 2~~ A) RCH 4/8/75

ANGLES RECORDED IN
F.B.G. 1360 - 44 TO 48
SEE NEXT PAGE FOR DISTANCES



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403 LOS ANGELES COUNTY ENGINEERING BLDG.

78F3095 CE#310 3-68

F. B. 2457 PG 204

PLACERITA 2 (SYLMAR B-1 AUX 2)
IN LOS ANGELES CO., S.E. 1/4 SEC 30 T 4N, R. 15W.

THIS STATION CAN BE REACHED BY TRAVELING NORTH ON SIERRA HWY. 1.0 MI. FROM PLACERITA CN. RD., TURN WLY ON PAVED RD. (TO SO. CAL. GAS CO. QUIGLEY STA.) 0.25 MI. TO SUMMIT AND DIRT & OIL RD. TO RIGHT AND UP RIDGE 0.25 MI. TO STATION WHICH IS ON A RIDGE TO N.W.

STATION MARK
FOUND A 2 1/8 INCH BRASS DISC STAMPED
IN TOP OF A 15" IRREGULAR CONC. POST FLUSH

CALIFORNIA
PLACERITA
2
1971
DIVISION OF HIGHWAYS

R.M. NO. 1
FOUND A 2 1/8 INCH BRASS DISC STAMPED
IN TOP OF A IRREGULAR CONC. POST FLUSH

CALIFORNIA
PLACERITA
RM-1
DIVISION OF HIGHWAYS

TEMP. = 78° TAPE #116 STD. 84°

220.95 @ 6° 26' 40" = 219.54 = SYL. B-1 RM. 1 TO PLACERETA 2

221.07 @ 6° 43' 58" = 219.53

214.07 @ 5° 16' 20" = 213.16
214.19 @ 5° 32' 50" = 213.18
214.26 @ 5° 45' 10" = 213.17
} = SYL. B-1 RM. 1 TO REF. PT. 1" I.P.

210.15 @ 5° 37' 50" = 209.14
210.31 @ 6° 04' 50 = 209.14 +

209.14
122.33 @ 87° TEMP. LEVEL
5.78 " " "
337.25 = SYL. B-1 RM. 1 TO B-1, AUX. 1

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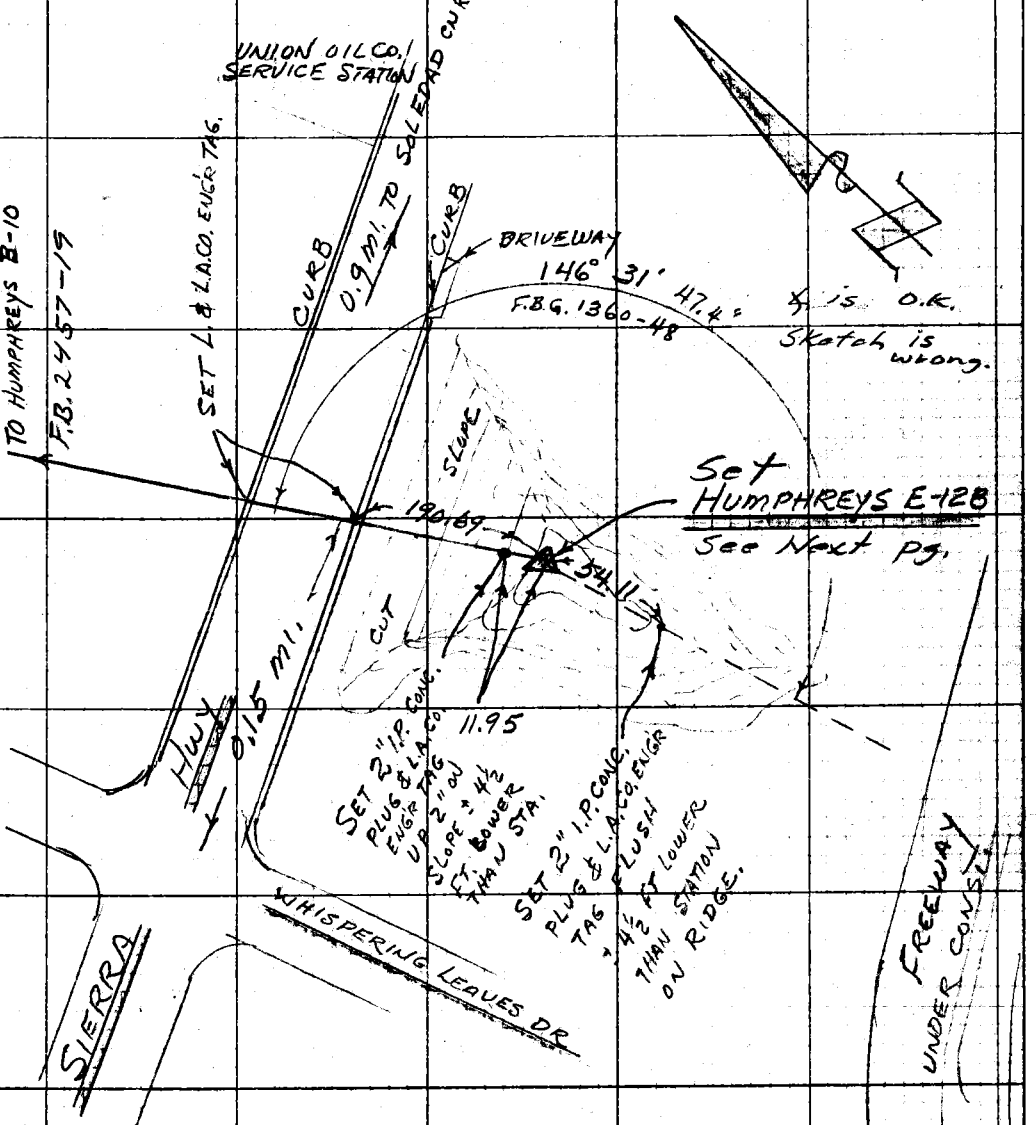
Map No.	JN 007733 Tape 116 Std 84 °F
Office Work PAW	Surveyed by G.E. DREIER
Checked	Notes G.E.D. Date 10-14-70
Date	Indexed [redacted] J. GALL [redacted]

F. B. 2457 PG. [redacted] 205

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION HUMPHREY'S E-12B



215.59 @ 94° = 215.60 @ 27° 48' 54" = 190.69
216.03 @ 94° = 216.04 @ 28° 01' 48" = 190.70
54.11 @ 87° TEMP = 54.11

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-69

F. B. 2457 PG 206

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

HUMPHREYS E-12B

THIS STATION IS LOCATED IN LOS ANGELES COUNTY, ON EAST SIDE OF SIERRA HWY 0.9 MI. S'LY FROM SOLEDAD CANYON RD., 0.15 MI. NORTHEASTERLY FROM ~~FA~~ WHISPERING LEAVES DRIVE, ON TOP OF A SMALL HILL AT THE TOP OF THE HWY. CUT BANK, ABOUT 4 FT. ELY OF TOP OF CUT SLOPE.

STATION MARK: - SET A 4 INCH TRIANGULATION STA. BRASS CAP RIVETED TO THE TOP OF A 36" LONG 2" IRON PIPE SECURED IN PLACE WITH PREMIX ASPHALT, 4 INCHES D.W. ~~[illegible]~~. & stamped "HUMPHREYS E-12B 1971 RE7078."

SUB-SURFACE MARK - SET A 1" I.P. CONC. PLUG AND COUNTY ENGINEER TAG 40 INCHES DEEP.

~~REFERENCE MARKS:~~ -

SET LEAD AND "L.A. CO. ENG'R." TAG IN EAST CURB OF SIERRA HWY. 190.69 FEET W'LY FROM STATION ON LINE TO HUMPHREYS B-10

SET A LEAD AND "L.A. CO. ENG'R." TAG IN WEST CURB OF SIERRA HWY. ON LINE TO HUMPHREYS B-10.

SET A 2" I.P. CONC. PLUG AND "L.A. CO. ENG'R" TAG ON LINE TO HUMPHREYS B-10, DISTANCE 11.95, ON CUT SLOPE UP 2 INCHES, ABOUT 4½ FT. LOWER THAN STATION

SET A 2" I.P. CONC. PLUG AND "L.A. CO ENG'R" TAG. ON RIDGE TO EAST FLUSH, DISTANCE 54.11 FT. ABOUT 4½ FT. LOWER THAN STATION.

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Notes Ck'd by	Survey of EARTHQUAKE STDY
Map No.	JN 002005 Tape Std °F
Office Work PAW	Surveyed by R. C. WILSON
Checked	Notes C. A. PYLE Date 7-2-71
Date	Indexed C. J. GALLI FEB 8 72

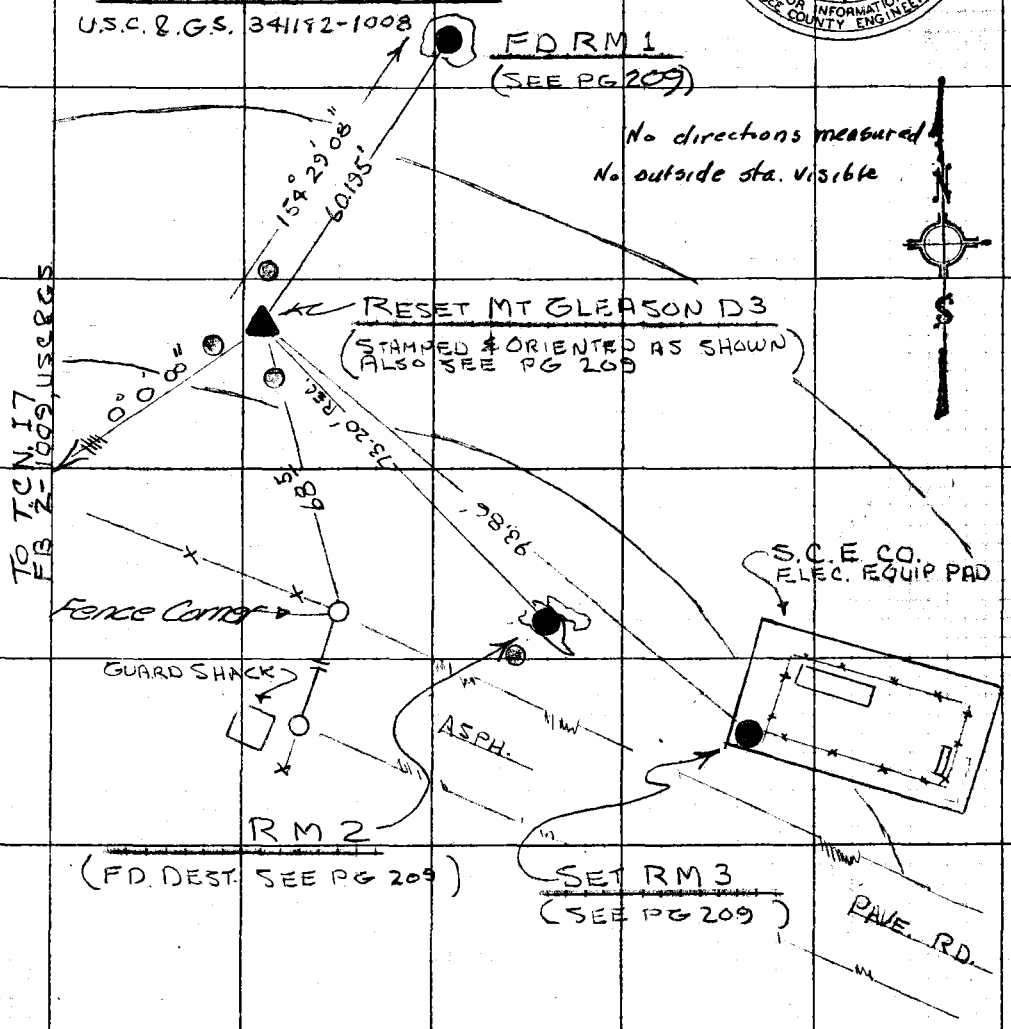
F. B. 2457 PG. 207

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
MT GLEASON D3
RESET 1971
SET BY RE 7076
FOR INFORMATION SEE COUNTY ENGINEER

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

MT GLEASON D3

U.S.C. & G.S. 34112-1008



● DENOTES 2" MARKER PIPE SET 5' OFF

MEASUREMENTS: SEE NEXT PAGE

DIRECTIONS: PER U.S.C.&G.S. 2-1008

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-69

F. B. 2457 PG. 208

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
MT GLEASON D3

50 MTR # M6		MEASUREMENTS	300 FT. #221
		LEVEL @ 46°	
28.614 M =	28.608 M =	93.86'	93.875' = 93.855'
18.353 M =	18.347 M =	60.19	60.22' = 60.20'

AREA: THIS TRIANGULATION STA. IS IN L.A. CO. WITHIN THE "ANGELES NATL. FOREST", ATOP "MT. GLEASON", A HILL MARKED 6502 ON THE RECREATION MAP OF THE ANGELES NAT. FOR.

ROUTE: FROM ITS JUNCTION WITH HWY 14 NEAR "VINCENT", TRAVEL S.ELY ON ANGELES CREST HWY 9.0 MILES TO MILL CREEK SUMMIT AND A PAVED ROAD ON THE R. (WEST). FOLLOW THIS NLY. & WLY 6.0 MILES TO A MILITARY RESERVATION. OBTAIN CLEARANCE AND PROCEED THROUGH MILITARY INSTALLATION 2.5 MILES TO NEXT MILITARY INSTALLATION AND STATION SITE. STA IS 68' ± NLY. OF THE N.E. COR. OF THE FACILITY.

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Notes Ck'd by	Survey of EARTHQUAKE STUDY
Map No.	JN0020.05 Tape Std °F
Office Work	Surveyed by R.C. WILSON
Checked	Notes C.R. PYLE Date
Date	Indexed C. J. GALLI FEB 8 '72

F. B. 2450 PG. 209

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

MT GLEASON D3

STATION MARK: A 4" L.A. CO. SUR. CONT. SY. BRASS TRI. STA. DISC STAMPED "MT GLEASON D3 USC&GS GLEASON RESET 1971 RE 7076. THIS WAS SET AS A DIRECT REPLACEMENT FOR USC&GS STA. "GLEASON", A PORTION OF WHICH WAS FOUND BROKEN OFF. THE REMAINS DUG OUT AND A SUB SURFACE MARK UNCOVERED. THIS WAS REFERENCED OUT AND MT GLEASON D3 SET IN THE EXACT POSITION FORMERLY OCCUPIED BY USC&GS "GLEASON".

REFERENCE MARKS.

RM 1 A 4" U.S. COAST & GEODETIC SURVEY BRASS REFERENCE MARK STAMPED "GLEASON N01" CEMENTED FLUSH IN A 12"x14" ROCK OUTCROPPING WHICH IS 1" ABOVE GRADE.

RM 2 A 4" USC&GS BRASS DISC & PORTION OF ROCK WHICH HAD BEEN BROKEN OFF OF AN OUTCROPPING. (CAP RETURNED TO N.O.S.)

RM 3 AN L.A. CO. ENGR. TAG AND TACK IN LEAD, FLUSH IN THE S.W. COR OF A CONC PAD.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.
76F309S CE#310 3-69

F. B. 2457 Pg. 210

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
MT GLEASON D3

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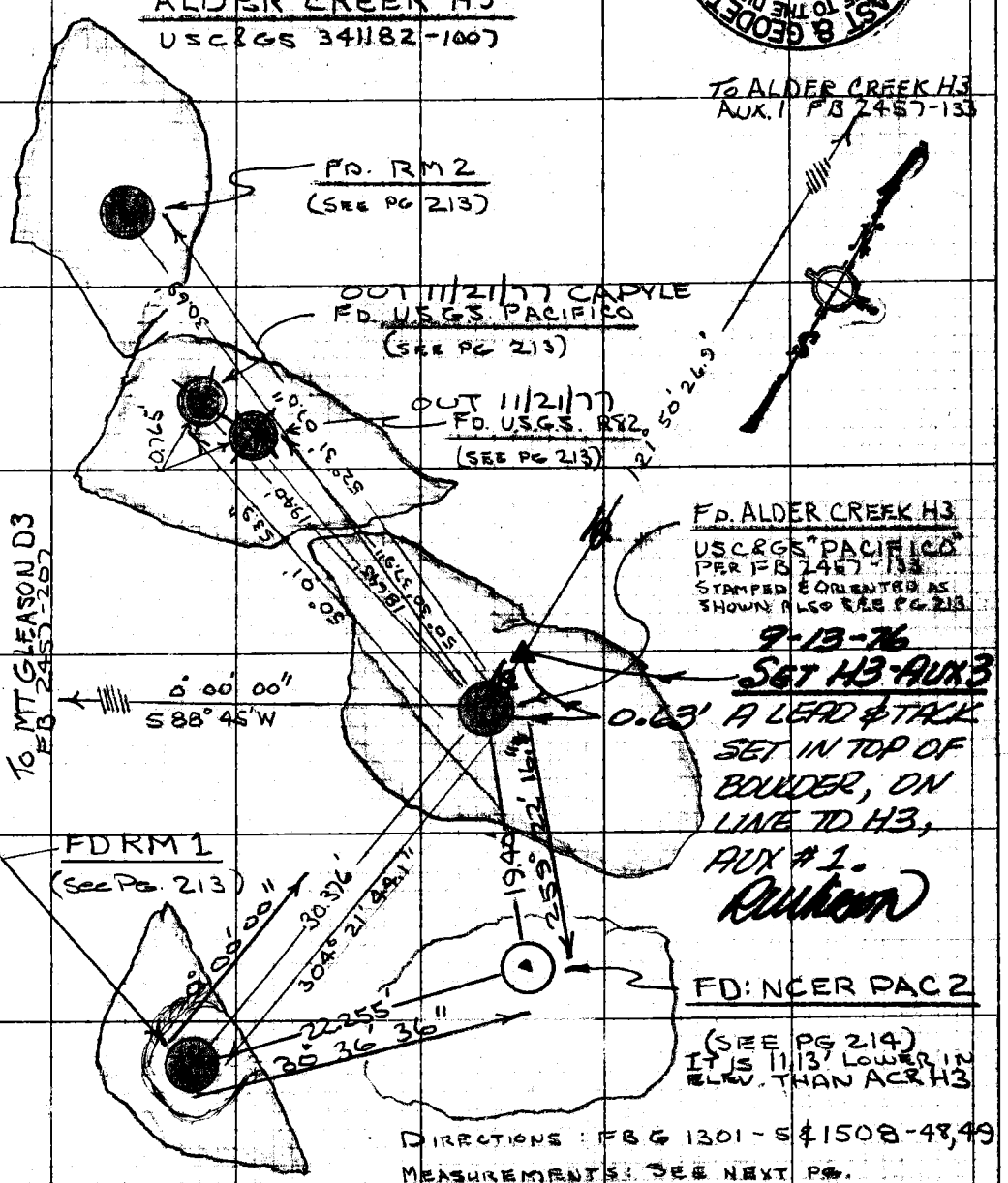
Map No.	JN 002005 Tape Std °F
Office Work PAW	Surveyed by R.C. WILSON
Checked	Notes C.A. PYLE Date 11-17-71
Date	Indexed C. J. GALLI FEB 8 '72

F. B 2457 PG. 211

U.S. COAST & GEODETIC SURVEY TRIANGULATION STATION
FOR INFORMATION WRITE TO THE DIRECTOR, WASHINGTON, D.C.
$250 FINE OR IMPRISONMENT FOR DISTURBING THIS MARK
PACIFICO 1958

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

ALDER CREEK H3
USC&GS 341182-1007



DIRECTIONS: FBG 1301-5 & 1508-48,49

MEASUREMENTS: SEE NEXT PG.

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76F309S CE#310 3-69

F. B. 2457 PG. 212

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
ALDER CREEK H3

50 MTR M6 — MEASUREMENTS — 100' TAPE # 243

	T-60°	
9.355 M = 9.355 M = 30.69	e 0°0'	30.69' = 30.69'
7.232 M = 7.232 M = 23.727'	SLANT	23.73' = 23.73' = 19.397' HORIZ.
7.050 M = 7.050 M = 23.129'	SLANT	23.12' = 23.12' = 18.645' HORIZ.
10.417 M = 10.417 M = 34.176'	SLANT	34.18' = 34.18' = 30.376' HORIZ.
50 MTR M4	T-50°	300' TAPE # 221
6.787 M = 6.784 M = 22.257'		22.265' = 22.255'
5.915 M = 5.915 M = 19.406'	SLANT	19.395' = 19.395'

AREA: THIS STATION IS IN L.A. CO. ABOUT 14 MILES SOUTH OF AND 5 MILES EAST OF PALMDALE ON THE TOP OF "PACIFICO MTN." A HILL MARKED 7124 ON THE ANGELES NATL. FOREST RECREATION MAP. T4N, R11W.

ROUTE: FROM ITS JUNCTION WITH HWY 14 NEAR "VINCENT" TRAVEL S.ELY ON ANGELES CREST HWY 9.0 MILES TO MILL CREEK SUMMIT. TURN LFT. (SLY) AND PROCEED UPGRADE 3.5 MILES TO A SADDLE, CONTINUE STRAIGHT (E) 1.5 MILES TO A FORK, BEAR LEFT (NLY) 0.5 MILES TO A FORK AT LOWER PACIFICO CAMPGROUND, BEAR RIGHT (ELY) 0.6 MILES TO A FORK THENCE LEFT (NLY) 0.5 MILES TO THE TOP AND UPPER PACIFICO CAMPGROUND, TURN WEST 250'± TO THE CAMP LIMITS AND THE STATION WHICH IS ON TOP OF SOME LARGE BOULDERS.

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Notes Ck'd by	Survey of EARTHQUAKE STUDY
Map No.	JN [illegible] Tape Std °F
Office Work	Surveyed by R.C. WILSON
Checked	Notes C.A. PYLE Date
Date	Indexed C. J. GALLI FEB 8 '72

F. B. 2457 PG. 213

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
ALDER CREEK H3

STATION MARK

A 4" U.S.C.&G.S. BRASS TRI. STA. DISC. STAMPED "PACIFICO 1958" CEMENTED FLUSH IN THE TOP OF 10' TALL BOULDER. NO RECORD OF A SUB-SURFACE MARK BEING SET.

REFERENCE MARKS

RM 1: A 4" U.S.C&G.S. BRASS REFERENCE MARK DISC STAMPED "PACIFICO NO 1 1958" CEMENTED FLUSH IN THE TOP OF A LARGE BOULDER.

RM 2: IDENTICAL TO RM 1, EXCEPT STAMPED: "NO 2".

OTHER MARKS

A 4" U.S.G.S. IN COOPERATION WITH L.A. CO. BRASS DISC STAMPED "R 82 1929" CEMENTED FLUSH IN THE TOP OF A LARGE FLAT BOULDER

A 4" U.S.G.S. IN COOPERATION WITH L.A. CO. BRASS DISC STAMPED "PACIFICO R5 1930" CEMENTED FLUSH IN THE TOP OF A LARGE FLAT BOULDER.

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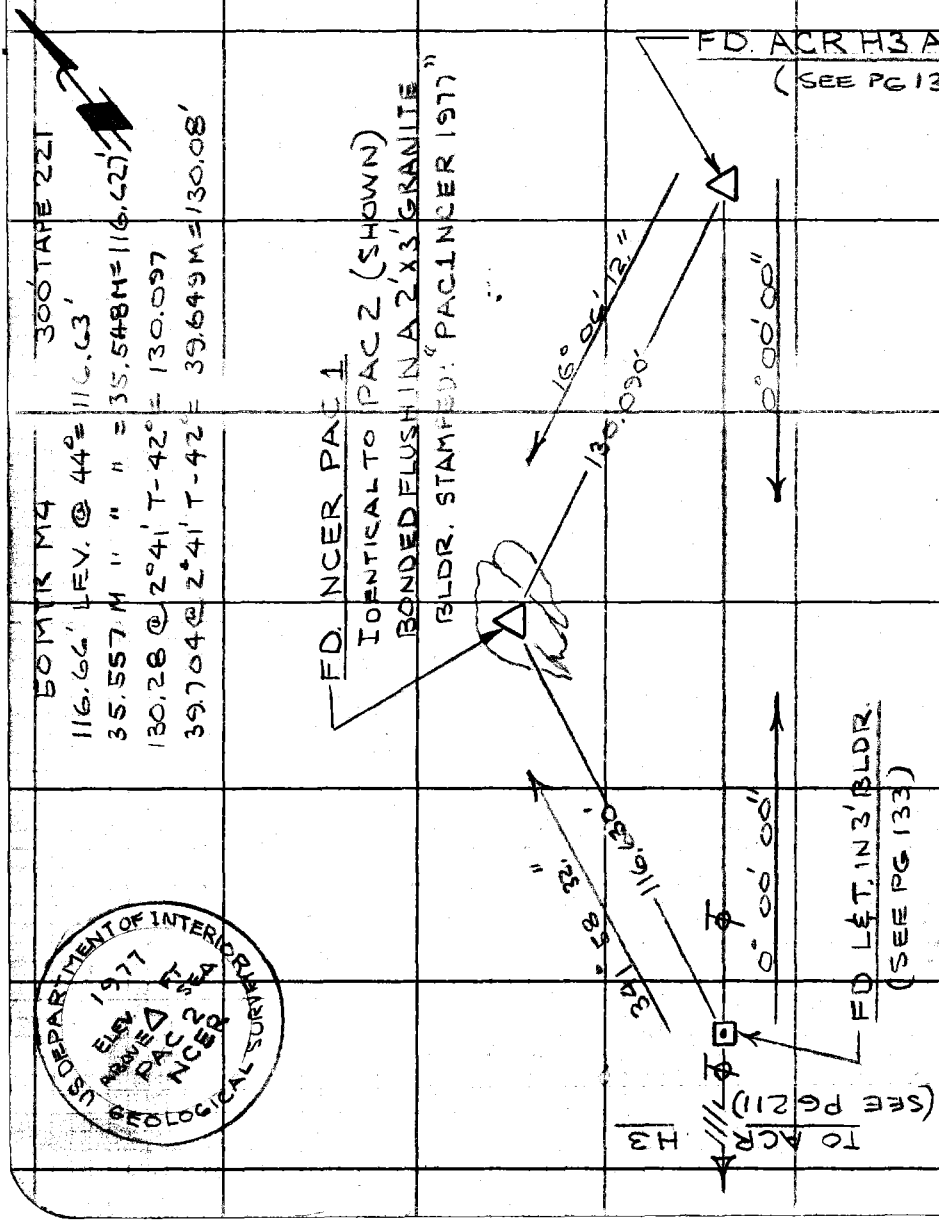
76F309S CE#310 3-69

F. B. 2457 PG. 214

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
ALDER CREEK H3

NCER PAC 2 (SHOWN BELOW)

A 4" BRASS U.S. DEPARTMENT OF INTERIOR, GEOLOGICAL SURVEY DISC STAMPED: "NCER PAC 2 1977", BONDED IN A CIRCULAR RECESS IN LARGE GRANITE BOULDER.

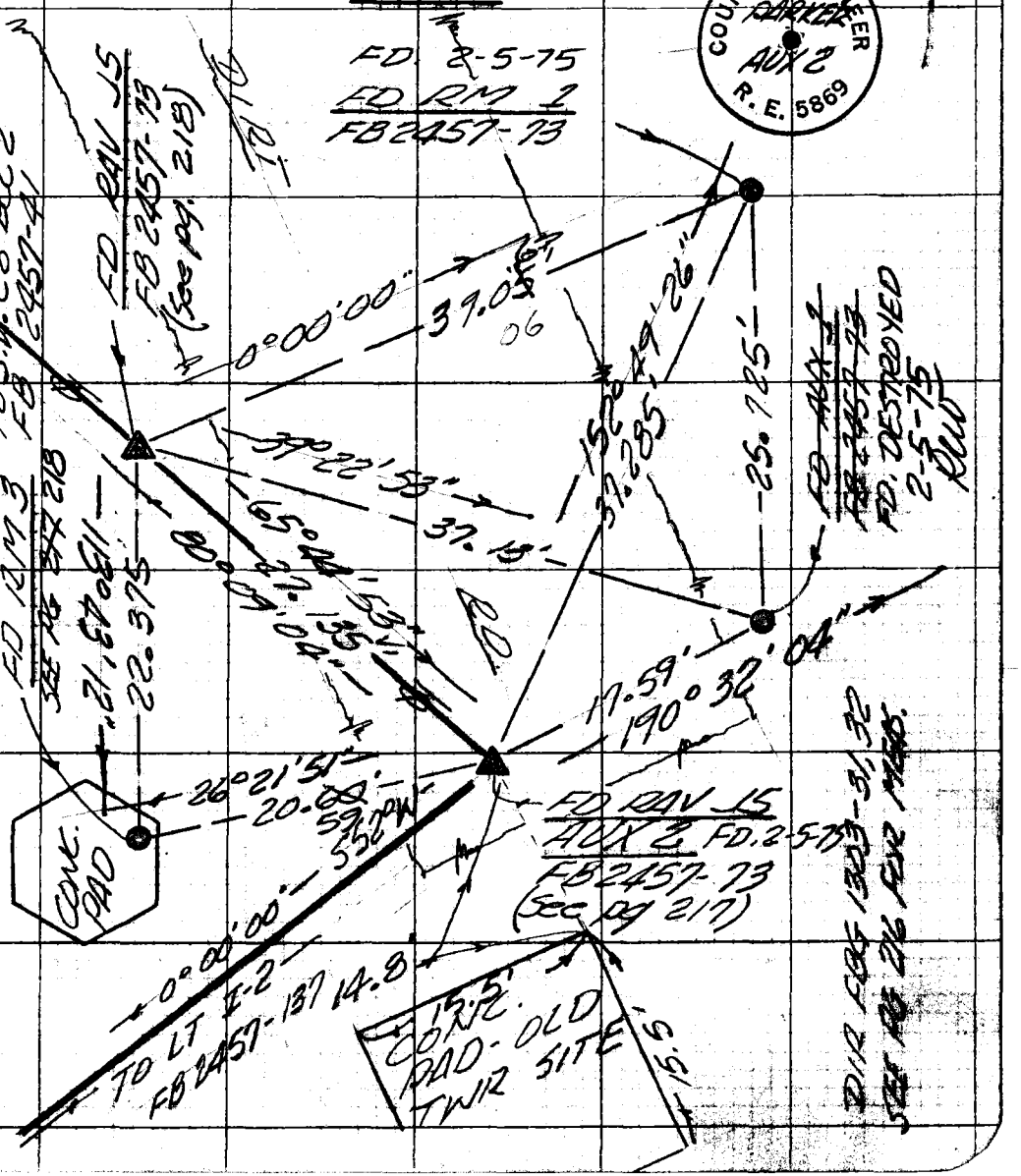


Notes Ck'd by	Survey of EARTHQUAKE STUDY F. B. 2457 PG. 215 ✓
Map No.	JN 0000.05 Tape Std °F
Office Work PAW	Surveyed by RCWilson
Checked	Notes RCW Date 7-6-71
Date	Indexed C. J. GALLI FEB 8 '72

GEODETIC CONTROL

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

RAVENNA J5
AUX 2



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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-69

F. B. 2457 PG. 216

GEODETIC CONTROL
L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
RAVENNA 15 AUX2

300# 221 T@ 72° MEASUREMENTS 50 MTR M3

22.37' = 22.37'	6.819 m = 6.819 m = 22.37'
20.60' = 20.60'	6.280 m = 6.280 m = 20.60'
17.59' = 17.59'	5.362 m = 5.362 m = 17.59'
25.725' = 25.725'	7.842 m = 7.842 m = 25.73'
37.285' = 37.285'	11.366 m = 11.366 m = 37.29'
37.13' = 37.13'	11.319 m = 11.319 m = 37.13'
27.135' = 27.135'	8.272 m = 8.272 m = 27.14'
39.05' = 39.05'	11.901 m = 11.901 m = 39.05'

AREA:

THIS TRI STA. IS LOCATED IN L.A. CO IN THE ACTION AREA ATOP PARKER MTN, AT THE SITE OF ABANDONED FIRE LOOKOUT TOWER, AND IS LOCATED IN THE NW 1/4 SEC. 2, T4N, R15W.
Foundation only remains; R.C.W. - RMC (6-10-77)

ROUTE:

FROM ITS JUNCTION WITH CROWN VALLEY RD, TRAVEL WEST ON ESCONDIDO CYN RD 0.30 M TO HUBBARD RD (DIRT) ON THE LFT; THENCE WLY ON HUBBARD RD, 2.10 M TO A "Y": TURN LFT AND S'ely upgrade 0.50 M TO TOP OF RIDGE & SADDLE; TURN LFT, E'LY, AND TRAVEL E'LY 2.10 M UPGRADE TO TOP OF MTN & END OF ROAD. STA IS LOCATED 15' ± N. OF NE COR OF CONC. SLAB (FORMER LOOKOUT TOWER SITE).

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Notes Ck'd by	Survey of [illegible] STUDY	F. B. 2457 PG. 217
Map No.	Job 2000.05 Tape Std °F	
Office Work	Surveyed by R.L. Wilson	
Checked	Notes RCW Date 7-6-71	
Date	Indexed C. J. GALLI FEB 8 '72	

GEODETIC CONTROL

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

RAVENNA J5 AUX2

STATION MARK:

AUX 2 A 2½" L.A. CO. ENGR. BRASS DISC STAMPED "COUNTY ENGINEER R.E. 5869 PARKER AUX 2" (SET 10-8-64 PER PG 74) SET IN 6" CONC. POST, WITH 12"X12" CONC. PAD AROUND POST, FLUSH WITH GRD.

REFERENCE MARKS:

RM 1- FD. PER FB 2457-74
RM 2- DESTROYED
RM 3- ~~4" U.S.C.&G.S. BRASS REF MARK DISC STAMPED" PARKER 1946 1968 No 3" SET FLUSH IN EDGE OF OCTAGONAL SHAPED CONC. PAD.~~ See Pg. 218
RM 4- DESTROYED

NOTE: SEE PG 74 FOR CTR STA & AUX 1 DESCRIPTIONS.

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76F309S CE#310 3-69

F. B. 2457 PG. 218

GEODETIC CONTROL

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

305'# 201 RAVENNA J5 AUX 2

20.595' @ 46° = 20.59'
22.38' @ 46° = 22.375'
39.07' @ 46° = 39.06'
27.14' @ 46° = 27.135'

2-5-75 RWW

STATION MARK: RAV. J5 CTR. STA

A 4" NATIONAL GEODETIC SURVEY HORZ. CONTROL MARK STAMPED "PARKER 1940 1973" RESET IN ORIG. CONC. 12"X12" CONC. PAD. 2-5-75 RWW

RM 3: FD. BRASS STEM - RESET A 4" L.A. CO. SUR. CONT. SYS. BRASS REF. MARK DISC STAMPED "NO 3 1946 RESET 1975" IN STEM HOLE & BONDED TO OCTAGONAL SHAPED CONC. PAD. 2-5-75 RWW

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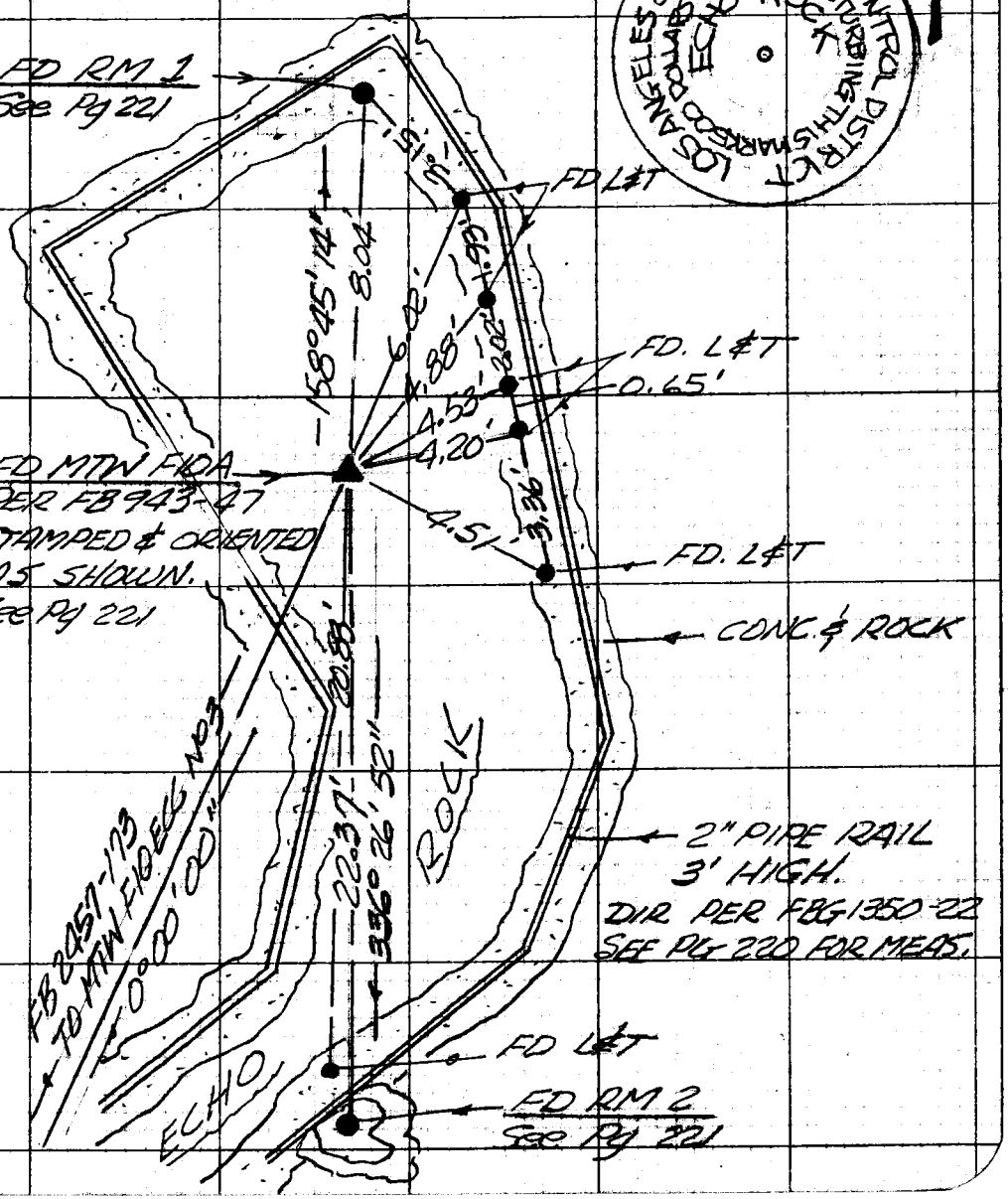
Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 221.02 Tape Std °F
Office Work Paw	Surveyed by R. C. Wilson
Checked	Notes R. C. Wilson Date 6-71
Date	Indexed R. J. GALLI FEB 8 72

F. B. 2457 PG. 219

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

MT WILSON F10A



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76F309S CE#310 3-69

F. B. 2457 PG. 220

GEODETIC CONTROL

L. A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

MTW A10A

300' # 221 @ 54° MEASUREMENTS

8.04' = 8.04' 20.83' = 20.83' (20.80 PER F8943-47)

22.37' = 22.37'

AREA:

THIS TRIANG. STATION IS LOCATED IN L.A. CO. ON THE EAST SLOPE OF MT WILSON, ON A PROMINENT POINT KNOWN AS "ECHO ROCK" WITHIN THE MT WILSON OBSERVATORY LEASE, AND BEARS S60°E 700'± FROM THE 100" MT WILSON TELESCOPE BUILDING.

ROUTE:

FROM ITS INTERSECTION WITH FOOTHILL BLVD TRAVEL NLY & ELY 14.4 MILE TO RED BOX RANGER STATION & MT WILSON RD: TURN RT UPGRADE 4.7 MILE TO WHERE MT WILSON RD BECOMES VIDEO RD: CONTINUE ELY 0.3 MILE TO SKYLINE PARK ENTRANCE GATE: OBTAIN PERMISSION TO ENTER & TRAVEL SELY 0.2 MILE, CROSSING N. END OF PARKING AREA, TO 4RD TO THE LEFT WHICH IS DIVIDE BY A TREE IN THE CENTER: FOLLOW THIS RD ELY 0.4 MILE (PASSING ASTRONOMICAL MUSEUM) TO RD JUNCT (FOOTBRIDGE TO 100" TELESCOPE ON LEFT) BEAR LFT (E) 0.05 MILE TO DIRT RD ON RT & SIGN "ECHO ROCK"; TURN RT (SWLY) 0.05 MILE. PARK AND HIKE OUT TRAIL & DOWN 350'± TO "ECHO ROCK LOOKOUT" AND THE STATION.

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Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 290100 Tape Std °F
Office Work	Surveyed by R. C. Wilson
Checked	Notes R. C. Wilson Date 6-71
Date	Indexed C. J. GALLI FEB 8 '72

F. B. 2457 PG. 221

GEODETIC CONTROL

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

MT WILSON F10A

STATION MARK:

A 4" L.A. CO. FLOOD CONTROL DISTRICT BRASS DISC STAMPED "ECHO ROCK" UP 2" AND SET IN 10"X10" ROUGH CONC. PAD. NO RECORD OF SUB-SURFACE MARK.

REFERENCE MARKS:

RM 1: A 4" USC&GS BRASS REF MARK DISC STAMPED "ECHO ROCK L.A.F.C. NO 1 1963" FLUSH AND SET IN ROCK & CONC.

RM 2: A 4" USC&GS BRASS REF MARK DISC STAMPED "ECHO ROCK L.A.F.C. 1963 NO2" SET IN THE TOP OF A LARGE BOULDER 30" ABOVE GROUND.
ALSO L&T TIES AS SHOWN ON PG 29

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76F309S CE#310 3-69

F. B. 2457 PG. 222

GEODETIC CONTROL

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

MT WILSON F10A

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Notes Ck'd by	Survey of FRIENDLY VALLEY
Map No.	JN 0077.33 Tape Std °F
Office Work RMD	Surveyed by G.E. DREIER
Checked	Notes Date 1-17 & 18, 1972
Date	Indexed C. J. GALLI JAN 25 '72

F. B. 2457 PG. 223

JOB NO. 0077.33

LAND MOVEMENT, FRIENDLY VALLEY

JAN. 1972

HORIZONAL ANGLES (F.B.G. 1361-1 THRU 10)
LEVELS— PAGE 225 TO 234

REF. F.B. 2457-187 TO 205

DREIER
MALDONADO
SIEMANN
MCKNIGHT
OHASHI

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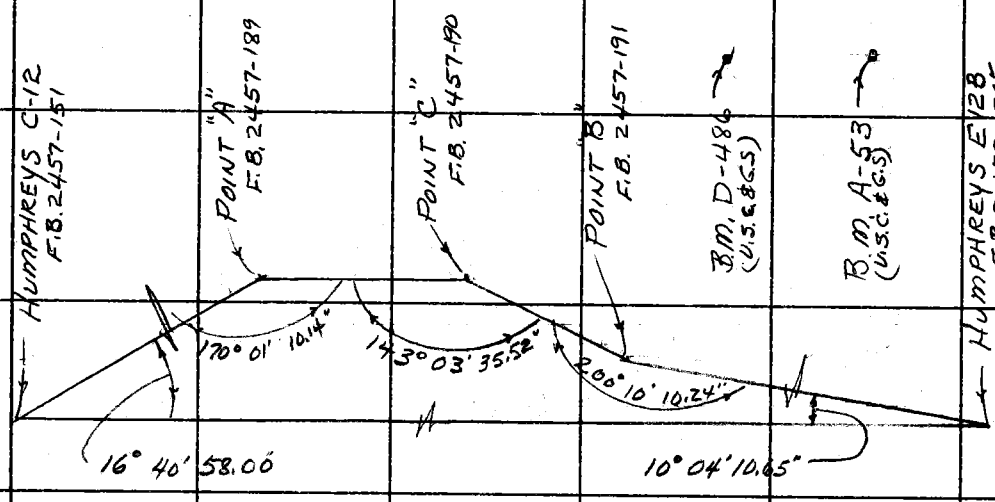
76F3095 CE # 310 3-61

FRIENDLY VALLEY ANGLE MEAS.

F. B. 2457 PG. 224

1-17-72, F.B.G. 1361 - 1 THRU 10



C-12	16°	40'	58.00"
A	170	01	10.14
C	143	03	35.52
B	200	10	10.24
E-128	10	04	10.65
	540	00	04.55"

POINTS A, B, & C, DISTANCES AND TIES ON PAGES 189, 190 & 191 OK

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76P526B CE # 308 8/68

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STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM PT. "A" TO PT. "C"
PT. "A"									PT. "A"
1	21	461	322.5	34 8.26	280	758	581.5	293 267.26	OAK CROSSING RD. & OAK BRANCH
								26	CIRCLE. & INT. SEE F.B. 2457-287
					21	461		52	⊼ = MALDONADO
				-	259	297			
PT. "C"									PT. "C"
									OAK CROSSING RD. & P.I. E. OF
									OAK BRANCH CIRCLE.
									SEE F.B. 2457-190

JOB NO. ~~0301.02~~ 0077.33 FRIENDLY VALLEY SURVEY OF ~~L.A. CO. PRECISE LEVEL NET~~ T = 68°

SURVEY BY G. E. DREIER WEATHER SUNNY, CLEAR INST. NO 96716

NOTES BY SIEMANN DATE 1-18-72 TIME 10:30 TO 10:35 ROD NO 1713 HB

INDEXED C. J. GALLI DATE JAN 25 72 NOTES CHKD [illegible] DATE

F.B. 2457 PG. 225

F.B. 2457 PG. 226 JOB NO. 0077.33

SURVEY OF FRIENDLY VALLEY

SURVEY BY DREIER NOTES SIEMANN

INDEXED _____ DATE _____

WEATHER _____ INST. NO 96716

TIME _____ ROD NO 1713 HB

NOTES CHKD _____ DATE _____

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STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM _____ TO _____

JOB NO. ~~0801.02~~ 0077.33 SURVEY OF ~~L.A. CO. PRECISE LEVEL NET~~ FRIENDLY VALLEY T= 68°

F.B. 2457 PG. 227

SURVEY BY G.E. DREIER WEATHER SUNNY, CLEAR INST. NO 96716

NOTES BY SIEMANN DATE 1-18-72 TIME 10:35 TO 10:40 ROD NO. 1713 HB

INDEXED C. J. GALLI DATE JAN 25 '72 NOTES CHKD PAW DATE

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STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM PT. "C" TO PT. "B"
PT. "C"									PT. "C"
1	68	603	369 5	78 58 20	245	353	546 5	255 235 20	OAK CROSSING RD. & P.I., E. OF OAK
								20	BRANCH CIRCLE SEE F.B. 2457-190
					68	603		40	
					-176	750			T= MALDONADO
PT. "B"									PT. "B"
									OAK CROSSING RD. & OAK GARDEN CT. SEE F.B. 2457-191

76P526B CE # 308 8/68

F.B. 2457 PG. 228 | JOB NO. 0077.33

SURVEY OF FRIENDLY VALLEY

SURVEY BY DREIER NOTES SIEMANN

INDEXED _____ DATE _____

WEATHER _____ INST. NO 96716

TIME _____ ROD NO 1713 AB

NOTES CHKD _____ DATE _____

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STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM _____ TO _____

76P526B CE # 308 8/68

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JOB NO. 0077.33 FRIENDLY VALLEY

SURVEY OF ~~L.A. CO. PRECISE LEVEL NET~~

SURVEY BY G.E. DEEIER

NOTES BY SIEMANN DATE 1-18-72

INDEXED C. J. GALLI DATE JAN 25 72

T= 68°

WEATHER SUNNY CLEAR INST. NO 96716

TIME 10:40 TO 11:15 ROD NO 17138

NOTES CHKD DATE

F.B. 2457 PG. 229

STATION	BACKSIGHT RIGHT	MIC.	LEFT.	STADIA	FORESIGHT RIGHT	MIC.	LEFT.	STADIA	DESCRIPTION AND REMARKS
									FROM PT. "B" TO B.M. A-53
PT. "B"									PT. "B"
1	20	599	321 5	34 6 28	289	080	590 5	289 275 28	OAK CROSSING RD. & OAK GARDEN CT. INT. SEE F.B. 2457-191
2	41	292	342 5	48 34 14 42	301	249	602 5	301 294 14 42	
3	56	260	357 5	83 56 54 96	271	747	572 5	299 243 56 98	T= MALDONADO
4	152	656	453 5	176 128 48 144	215	913	516 5	244 186 58 156	
5	190	187	491 5	222 158 64 208	266	631	567 5	296 236 60 246	
6	99	398	400 5	141 57 84 292	195	388	496 5	232 158 74 290	
B.M. A-53					4000			292	B.M. A-53 (U.S.C. & G.S. A-53 1926)
	560	392			1539788			582	S.P.R.R. & DIRT RD. TO FRIENDLY VALLEY GOLF COURSE. SEE F.B.
					560392				
					- ~~979596~~				
					- 979616				

F.B. 2457 Pg. 230 JOB NO. 0077.33

SURVEY OF FRIENDLY VALLEY

SURVEY BY DREIER NOTES SIEMANN

INDEXED _____ DATE _____

WEATHER _____ INST. NO. 96716

TIME _____ ROD NO. 713AB

NOTES CHKD _____ DATE _____

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STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM _____ TO _____

76P526B CE # 308 8/68

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STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM B.M. A-53 TO B.M. D-486
B.M. A-53							B.M. A-53 (U.S.C.&G.S. A-53 1926)
1	190 049	491 5	228 152 76	139 486	440 5	177 107 76	S.P.R.R. & DIRT RD. TO FRIENDLY VALLEY GOLF COURSE
2	92 420	393 5	131 53 78	105 968	406 5	143 67 76	SEE F.B.
			154			152	
3	122 299	423 5	131 113 18	145 536	446 5	154 136 18	π = MALDONADO
			172			170	
B.M. D-486						172	B.M. D-486 (U.S.C.&G.S. D-486 1955)
	404 768			390 990		342	S.P.R.R. & R.R. BRIDGE 144.91
	390 990						SEE F.B.
	+ 13 778						

JOB NO. ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET~~ 0077.33 FRIENDLY VALLEY

SURVEY BY G.E. DREIER

NOTES BY SIEMANN DATE 1-18-72

INDEXED C. J. GALLI DATE JAN 25 '72

WEATHER SUNNY, CLEAR T = 68°

TIME 11:15 TO

NOTES CHKD [signature] DATE

INST. NO 96716

ROD NO 1213AB

F.B. 2457 PG. 231

F.B. 2457 PG. 232 | JOB NO. 0077.33

SURVEY OF FRIENDLY VALLEY

SURVEY BY DREIER NOTES SIEMANN

INDEXED _____ DATE _____

WEATHER _____ INST. NO. 96716

TIME _____ ROD NO. 71348

NOTES CHKD _____ DATE _____

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STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM _____ TO _____

76P526B CE # 308 8/68

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STATION	BACKSIGHT RIGHT	MIC.	LEFT.	STADIA	FORESIGHT RIGHT	MIC.	LEFT.	STADIA	DESCRIPTION AND REMARKS
									FROM B.M. D-486 TO PT. "A"
B.M. D-486									B.M. D-486 (U.S.C&G.S. D-486)
1	170	292	471 5	197 143 54	130	684	431 5	156 104 52	S.P.R.R. & RR. BRIDGE 144.91
2	133	080	434 5	162 104 58	62	606	363 5	91 33 58	
				112				110	
3	240	670	541 5	270 210 60	21	530	322 5	153 221 64	
				172				174	π = MALDONADO
4	297	267	598 5	297 278 38	33	582	334 5	54 12 42	
				210				216	
5	283	652	584 5	292 274 18	68	098	369 5	74 62 12	
				228				228	
6	209	637	510 5	218 200 18	52	074	353 5	62 42 20	
				246				248	
7	241	878	542 5	251 231 20	44	810	345 5	54 34 20	
				266				268	
8	254	673	555 5	266 242 24	15	760	316 5	28 2 26	
				290				294	
PT. "A"								290	PT. "A"
	1831	149			429	144		584	OAK CROSSING RD. & OAK BRANCH
	429	144							CIRCLE. SEE F.B.
									SEE F.B. 2457-189
	+1402	005							

JOB NO. ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET~~ 0077.33 FRIENDLY VALLEY

SURVEY BY G.E. DREIER

NOTES BY SIEMANN DATE 1-18-72

INDEXED C. J. GALLI DATE JAN 25 '72

WEATHER SUNN T=68°

TIME 11:30 TO 12:00

NOTES CHKD PAUN DATE

INST. NO 96716

ROD NO 1713AB

F.B. 2457 PG. 233

F.B. 2457 PG. 234 JOB NO. 0077.32

SURVEY OF FRIENDLY VALLEY

SURVEY BY DREIER NOTES SIEMANN 1-18-72

INDEXED _____ DATE _____

WEATHER _____ INST. NO 96716

TIME _____ ROD NO 1713AB

NOTES CHKD _____ DATE _____

STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM _____ TO _____

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Notes Ck'd by	Survey of FRIENDLY VALLEY
Map No.	JN 0077.33 Tape 0229 Std 68 °F
Office Work	Surveyed by G.E. DREIER
Checked	Notes Date 4-17,18,19-72
Date	Indexed

F. B. 2457 PG. 235

JOB NO. 0077.33

LAND MOVEMENT, FRIENDLY VALLEY

APRIL 1972

HORIZONAL ANGLES, F.B.G. 1361-11 TO 22
ELECTRONIC DIST. F.B. 3630-35 TO 41
LEVELS — F.B. 2457-237 TO 242

DREIER
MALDONADO
SIEMANN
OHASHI
McKNIGHT

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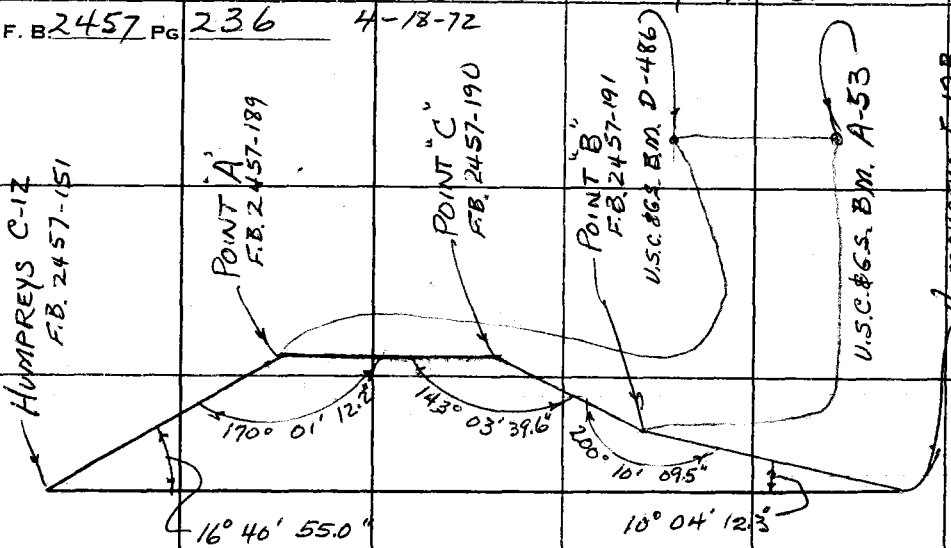
76F309S CE#310 3-69

FRIENDLY VALLEY ANGLES

F. B. 2457 PG 236 4-18-72



PER F.B.G. 1361-11 TO 22

HUMP. C-12	16°	40'	55.05
POINT "A"	170	01	12.20
" C	143	03	39.62
" B	200	10	09.51
HUMP. E-12B	10	04	12.31
	540	00	08.69

POINTS A, B, & C; TIES AND DISTANCES PER PAGES 189, 190 AND 191 OK

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76P526B CE # 308 8/68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM PT. "A" TO PT. "C"
PT. "A"									PT. "A"
1	15	723	316 5	28 2 26	275	032	576 5	288 262 26	OAK CROSSING RD. & OAK BRANCH CIRCLE & INT. SEE F.B. 2457-289
					15	723			π = MALDONADO
								26	
PT. "C"				-	259	309		52	PT. "C" OAK CROSSING RD. & P.I. E OF OAK BRANCH CIRCLE. SEE F.B. 2457-190

JOB NO. ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET~~ 0077.33 FRIENDLY VALLEY T = 62°

SURVEY BY G.E. DREIER WEATHER PTLY CLOUDY INST. NO. 96716

NOTES BY SIEMANN DATE 4-19-72 TIME 9:30 TO 9:35 ROD NO. 1713AB

INDEXED L. M. PALMERI DATE APR 24 '72 NOTES CHKD. DATE

F.B. 2457 PG. 237

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM PT. "C" TO PT. "B"
PT. "C"									PT. "C"
									OAK CROSSING RD. & P.I.E. OF
1	64	949	365 5	74 54 20	241	677	542 5	251 231 20	OAK BRANCH CIRCLE 2457-190
								20	π = MALDONADO
					64	949			
PT. "B"					- 176	728		40	PT. "B"
									OAK CROSSING RD. & OAK GARDEN CT.
									SEE F.B. 2457-191

T = 62°

WEATHER PTLY CLOUDY INST. NO. 96716

TIME 9:35 TO 9:40 ROD NO. 717AB

NOTES CHKD. DATE

F.B. 2457 PG. 238 JOB NO. 0077.33

SURVEY OF ~~LA CO. PRE~~ FRIENDLY VALLEY

SURVEY BY DREIER NOTES SIEMANN 4-19-72

INDEXED T. M. PALMER DATE

76P526B CE # 308 8/68

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

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Do not extend notes this side of this line.

JOB NO. ~~0001.02 CURVEY OF L.A. CO. PRECISE LEVEL NET~~ 0077.33 FRIENDLY VALLEY
SURVEY BY G.E. DREIER DATE 4-18-72 WEATHER PTLY CLOUDY T= 62°
NOTES BY SIEMANN TIME 9:40 TO 10:10 ROD NO. 7113 LD
INDEXED T. DATE APR 24 '72 NOTES CHKD DATE
F.B. 2457 PG. 239 INST. NO. 96716

STATION	BACKSIGHT Right Mic.	BACKSIGHT Left.	BACKSIGHT Stadia	FORESIGHT Right Mic.	FORESIGHT Left.	FORESIGHT Stadia	DESCRIPTION AND REMARKS
							FROM PT. "B" TO B.M. A-53
B.M. PT. "B"							PT. "B"
1	20 462	321.5	34 / 6 28	216 666	517.5	229 / 203 26	OAK CROSSING RD. & OAK GARDEN CT.
							SEE F.B. 2457-191
2	20 117	321.5	40 / 0 40	280 822	581.5	301 / 259 42	
			68			68	
3	37 312	338.5	67 / 7 60	97 365	398.5	128 / 66 62	
			128			130	
4	91 951	392.5	119 / 63 56	196 094	497.5	223 / 169 54	
			184			184	π = MALDONADO
5	127 844	428.5	146 / 108 38	269 007	570.5	290 / 248 42	
			222			226	
6	35 702	336.5	49 / 21 28	243 462	544.5	256 / 230 26	
			250			252	
7	175 588	476.5	182 / 168 14	185 621	486.5	192 / 178 14	
			264			266	
B.M. A-53						264	B.M. A-53 (USC&GS A-53 1926)
	508 976			489 037		530	S.P.R.R. & DIRT RD. TO FRIENDLY VALLEY
				508 976			GOLF COURSE MAINTENANCE BLDG.
			-	980 061			SEE F.B.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM B.M. A-53 TO B.M. D-486
B.M. A-53									B.M. A-53 (U.S.C.&G.S. A-53 1926)
1	170	381	471 5	208 132 76	124	351	425 5	161 87 74	S.P.R.R. & DIRT. RD. TO FRIENDLY VALLEY
									GOLF COURSE MAINTENANCE BLDG.
2	135	375	436 5	167 103 64	149	839	450 5	181 117 64	SEE F.B.
				140				138	
3	112	980	413 5	124 100 24	130	674	431 5	148 112 36	π = MALDONADO
				164				174	
B.M. D-486								164	B.M. D-486 (U.S.C.&G.S. D-486 1955)
	418	736			404	864		338	S.P.R.R. & R.R. BRIDGE # 144.91
	404	864							SEE F.B.
	+13	872							

F.B. 2457 PG. 240 JOB NO. 0077.33

SURVEY OF FRIENDLY VALLEY

SURVEY BY DREIER NOTES SIEMANN 4-19-72

INDEXED J. M. PALMERI DATE

WEATHER PTLY CLOUDY INST. NO. 96716

TIME 10:10 TO 10:20 ROD NO. 171348

NOTES CHKD DATE

T = 60°

76P526B CE # 308 8/68

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

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JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET T= 58°

SURVEY BY G. E. DREIER DATE 4-19-72 WEATHER PTLY. CLOUDY INST. NO. 96716

NOTES BY SIEMANN TIME 10:20 TO ROD NO. 7113AB

INDEXED T. M. DATE APR 24 '72 NOTES CHKD DATE

F.B. 2457 PG. 24(

STATION	BACKSIGHT Right Mic.	BACKSIGHT Left.	BACKSIGHT Stadia	FORESIGHT Right Mic.	FORESIGHT Left.	FORESIGHT Stadia	DESCRIPTION AND REMARKS
							FROM B.M. D-486 TO PT. "A"
B.M. D-486							B.M. D-486 (U.S.C.&G.S. D-486 1955)
1	215 919	516 5	246 184 62	177 079	478 5	206 148 58	S.P.R.R. & R.R. BRIDGE 144.91
							SEE F.B.
2	235 729	536 5	264 206 58	43 172	344 5	74 12 62	
3	205 078	506 5	220 120 190 30 150	147 149	448 5	165 129 36 120 156	
4	247 635	548 5	261 233 28	28 288	329 5	39 12 22	T = MALDONADO
							178
5	271 859	572 5	282 260 22	7 001	308 5	18 7 22	
							200
6	254 100	555 5	268 240 28	33 639	334 5	47 19 28	
							228
7	267 074	568 5	278 256 22	40 797	341 5	51 29 22	
							250
8	252 139	553 5	261 243 18	70 574	371 5	79 61 18	
			268			268	
B.M. PT. A						268	PT. "A"
	1949 533			547 689		536	OAK CROSSING RD. & OAK BRANCH CIRCLE
	547 689						SEE F.B. 2457-289
+	1401 844						

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STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM ____ TO ____
	DIFF IN ELEV.				POINT C			TO	L.&TAG POINT A PROP.
1	139	002	440 5	141 137 4	155	037	456 5	157 153 4 4 8	
					139	002			
					-16	035	cm		
	DIFF. IN ELEV.,				POINT C		TO	L.&TAG	POINT B. PROP.
1	173	135	474 5	175 171 4	140	078	441 5	142 138 4 4 8	
	140	078							
	+33	057	cm						

F.B. 2457 PG. 242 JOB NO. 0077.33
SURVEY OF FRIENDLY VALLEY
SURVEY BY DREIER NOTES G.E. DREIER
INDEXED T. M. PALMERI DATE

WEATHER ____ INST. NO. 86716
TIME ____ ROD NO. 17134B
NOTES CHKD ____ DATE ____