Notes Ck'd by	Survey of Geodetic Control	F. B. 2450 Pg. 5
Map No.	W. O. 0301.00 Tape No. 0161 St'd. 68 °F	
Other Work	Surveyed by M. A. Van Deren	
Checked	Notes Van Date 1-27-58	
Date	Indexed C. Johnson 9-17-58	

JN 0301.00

LOCATION AND ADDITIONAL TIES ON

TRAVERSE LINE IN MALIBU AREA

AFTER CONST. OF PACIFIC COAST HWY.

A. VanDeren
Bazen
Turrill
NUNEZ

Microfilmed Jan '86

RETURN TO
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S&E #247. 8-54

F. B. 2450 Pg. 6

INDEX

LAS FLORES	B-9A	Pg.	7 & 8
"	B-9B	"	7 & 8
"	D-8	"	9 & 10
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"	G-8A	"	13, 14
"	G-8A AUX	"	13, 14
"	I-8	"	15, 16
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"	J-8A	"	19, 20
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"	F-8	"	27, 28
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W.S. 91-83

Notes Ck'd by	Survey of Geodetic Control
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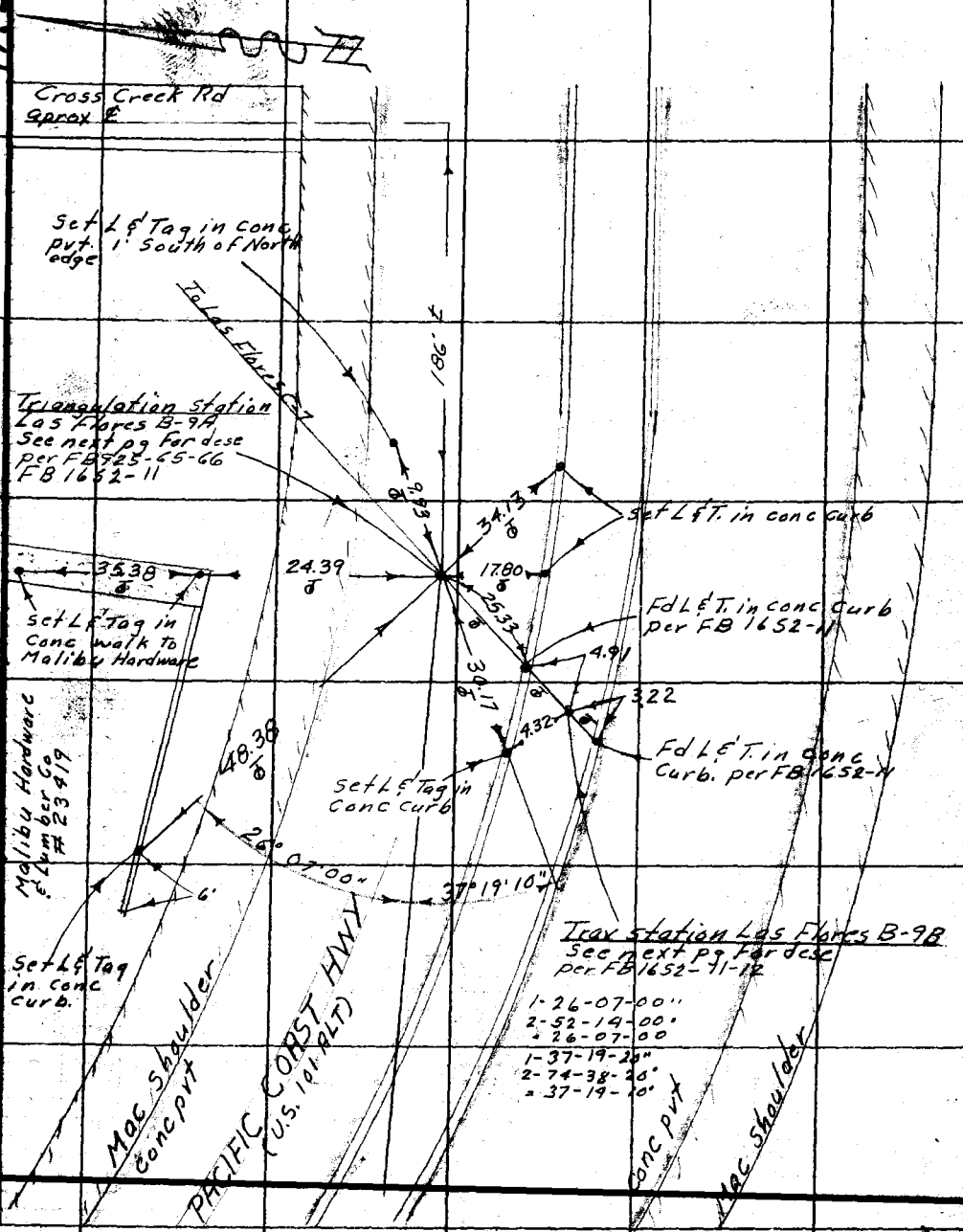
Office Work	Surveyed by M. A. Van Deren
Checked	Notes Van Date 1-27-58
Date	Indexed A. C. Johnson

F. B. 2450 Pg. 7

ADDITIONAL TIES FOR LA. CO TRIANGULATION STATION LAS FLORES B-9A & TRAV STATION LAS FLORES B-9B



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76 3005 S&E #247. 8-54

F.B. 2450 Pg. 8

~DESCRIPTION~

TRIANGULATION STATION LAS FLORES B-9A

in the County of Los Angeles and in the Rancho Topanga Malibu Sequit on the Pacific Coast Hwy (U.S. 101 ALT) 620' west of the Malibu lagoon bridge. ℄ 1000'± North of Santa Monica bay. and 50'± South of the Malibu Hardware & lumber co. # 23419

STATION MARK: Fd a standard 4" brass tablet set in Conc 10" dp in well & cover Marked County Surveyor Monument Mon stamped L.A.Co Survey Control system Triangulation station Las Flores B-9A-R.E. 2177 and set by County Surveyor in 1940. See FB 925-65-66

SUB SURFACE MARK-NONE

~DESCRIPTION~

TRAV STATION LAS FLORES B-9B

in L.A. Co and in Santa Monica Bay district. Malibu lagoon area. on the Pacific Coast Hwy (U.S. 101 ALT), 625'± west of the Malibu lagoon bridge. Mon set in the dividing strip. 30.24 S.W. of Las Flores B-9A. ℄ 70'± South of the Malibu Hardware & lumber Co. # 23419

STATION MARK: Fd a standard 4" brass tablet set in conc 6" dp. and stamped L.A. CO. Survey control system. Trav station Las Flores B-9B. 1950 and set by county surveyor. R.E. 329

SUB SURFACE MARK-NONE

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W.S. 91-C3

Notes Ck'd by
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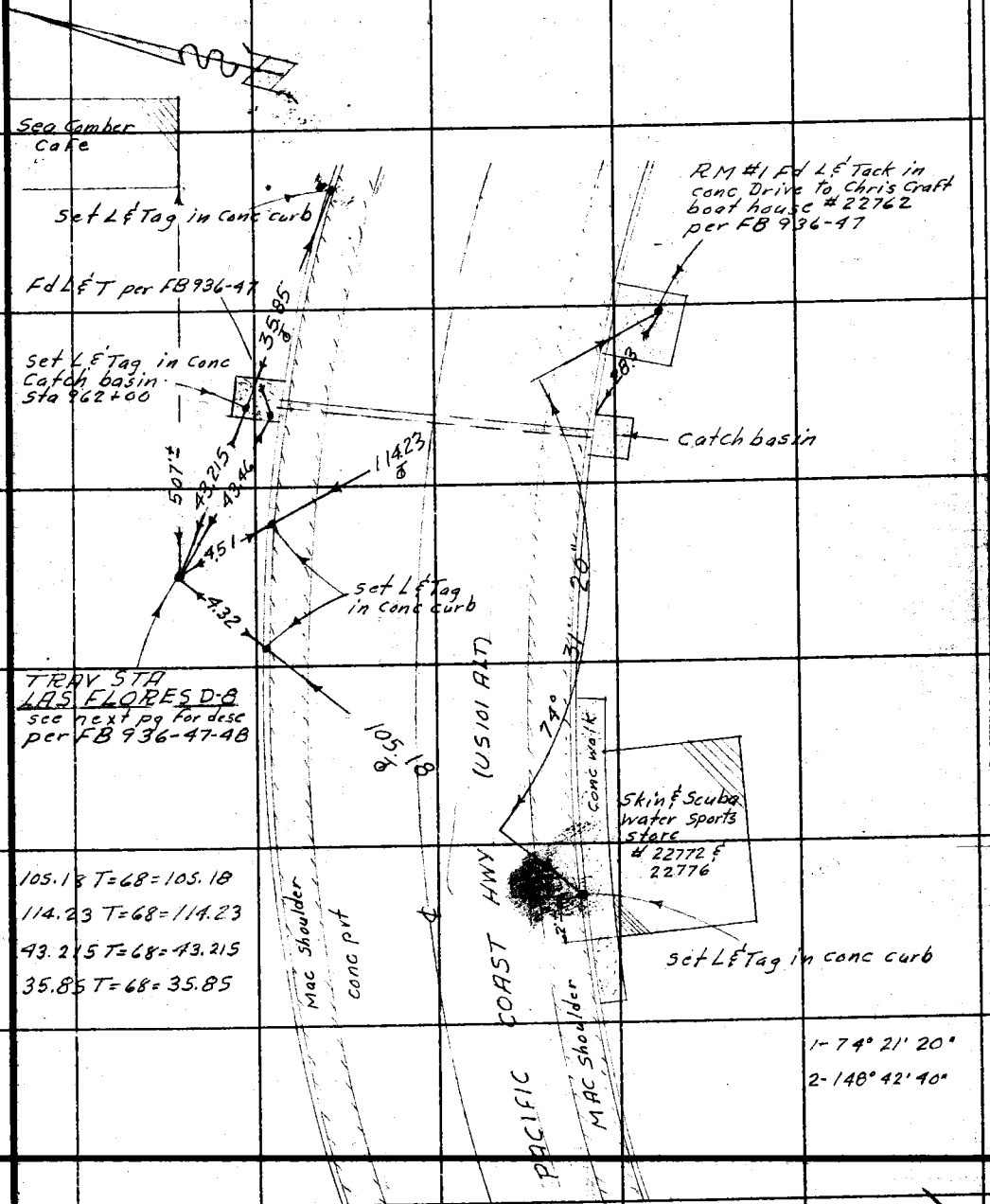
Office Work
Checked
Date

Survey of Geodetic Control
W. O. 0301.00 Tape No. 0161 St'd. 68 °F
Surveyed by M.A. Van Deren
Notes Van Date 1-29-58
Indexed K. C. Johnson

F. B. 2450 Pg. 9

ADDITIONAL TIES FOR LA CO TRAVERSE STATION
LAS FLORES D-8



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76 3093 S&E #247. 8-54

F. B. 2450 Pg. 70

~DESCRIPTION~

TRAVERSE STATION LAS FLORES D-8

in Los Angeles County. between Carbon Canyon (coal cn) and Malibu Canyon. and 3'± North of the North curb of the Pacific Coast Hwy. (US 101 ALT) about 2000'± e'ly from Malibu Canyon. 507'± w'ly from the S.W. cor. of the Seacomber Cafe # ℄ 93.46 W.ly of Sta 962+00

STATION MARK Fd a 2" I.P. set in conc, and conc filled, with a copper wire embedded in conc for center. 24" dp below curb grade. per F.B 936-47-48

SUB SURFACE MARK - None

R.M. #1 Fd L℄T in conc drive to Chris craft boat house #22762 per F.B 936-47-48

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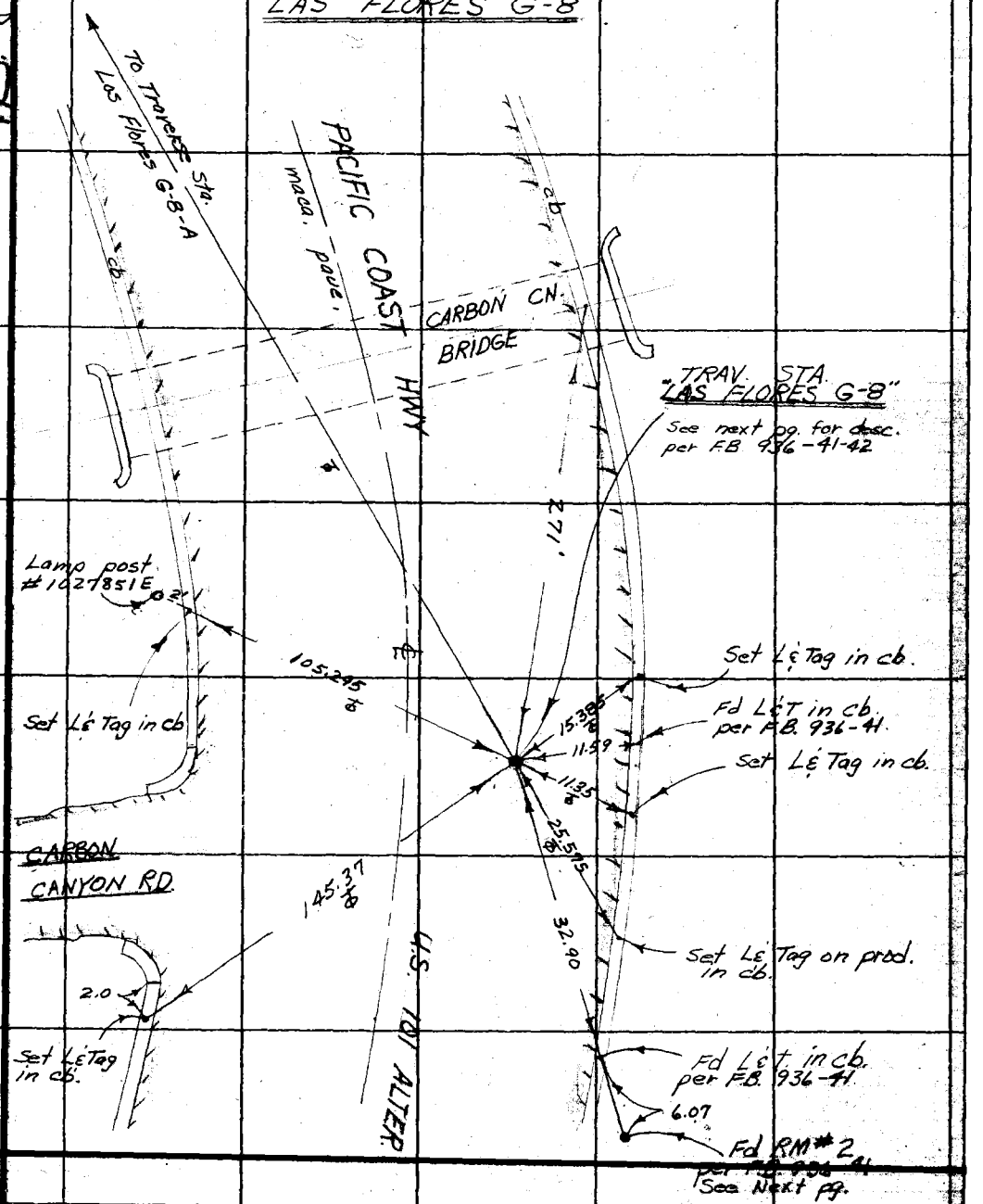
Notes Ck'd by	Survey of Geodetic Control	F.B. 2450 Pg. 11
Map No.	W. O. 0301.00 Tape No. 0161 St'd. 68 °F	
Office Work	Surveyed by M.A. Van Deren	
Checked	Notes J.J. Bazen Date 2-17-58	
Date	Indexed A. C. Johnson	

WS 89-A5

ADDITIONAL TIES FOR LACO TRAVERSE STATION

LAS FLORES G-8



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76/3098 S&E #247. 8-54

F.B. 2450 PG. 12

— DESCRIPTION —

TRAVERSE STATION LAS FLORES G-8

In Los Angeles County, between Carbon Canyon (Coal Cr), and Malibu Canyon. 271' W'ly from the ℄ of Carbon Canyon bridge, and on the So. side of the Coast Hwy. (U.S. 101 Alternate), and 11.0 ft. North of face of South curb, in a well protected by a cast iron cover marked "County Surveyor Monument."

STATION MARK: Fd A 2" I.P set in Conc. and conc. filled, with a copper wire embedded in conc. for center. 14" below curb grade. per F.B. 936-41-42. set well ℄ Cover over monument 2-20-58.

SUB SURFACE MARK: None.

RM #1. Out due to Const. of Hwy. Per F.B. 936-41-42.

RM #2 Fd 2" I.P. set in Conc. and conc. Filled with a copper wire embedded. per F.B. 936-41-42. 10" down

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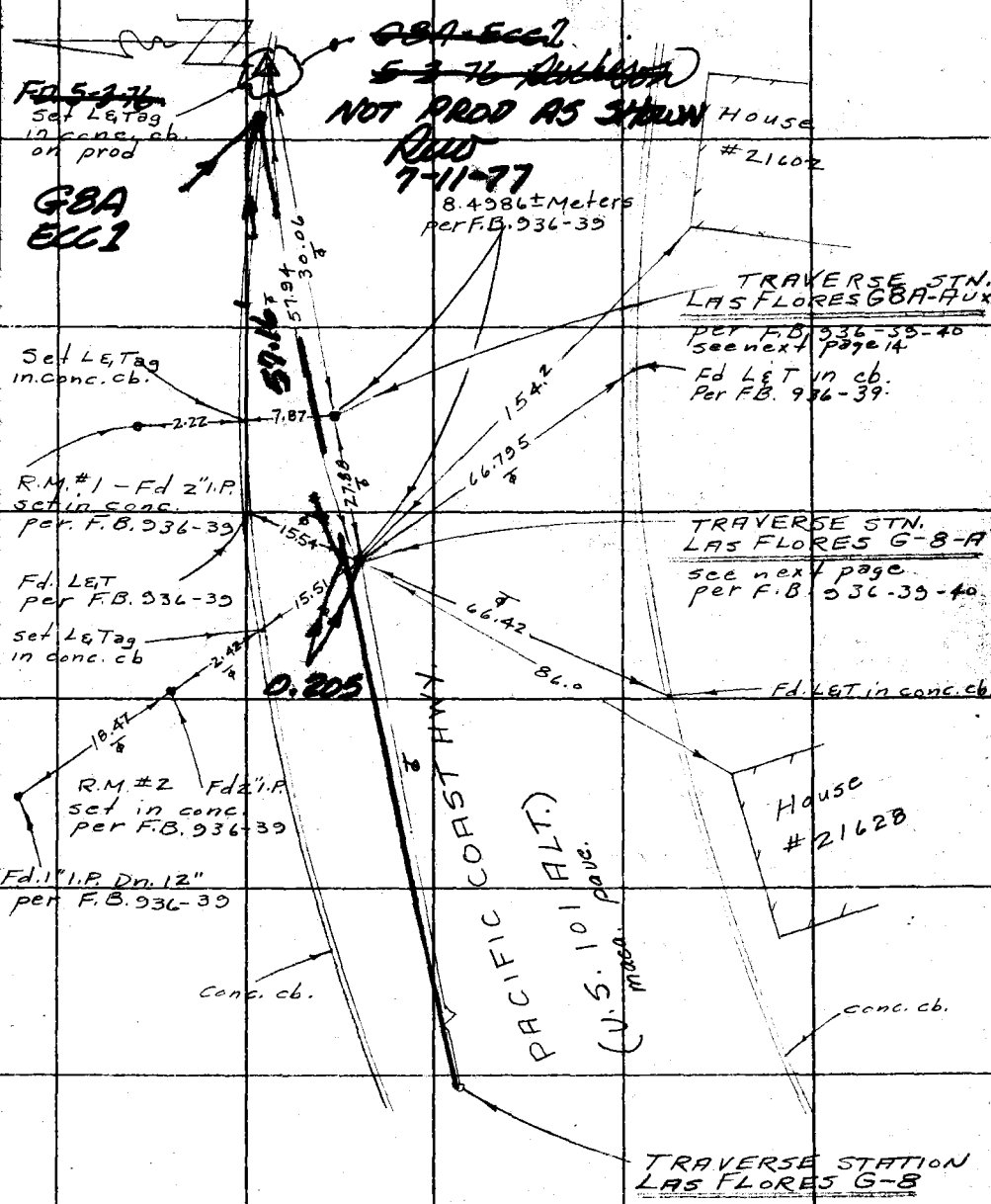
Map No.	W. 8301.00 Tape No. 0161 St'd. 68 °F
Office Work	Surveyed by M.A. Van Deren
Checked	Notes V. Anderson Date 2-18-58
Date	Indexed A. C. Johnson

F. B. 2450 Pg. 13

W.S. 9-45

ADDITIONAL TIES FOR L.A. Co TRAV. STN.
LAS FLORES G8A & G8A AUX.



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76F3095 S&E #247. 8-54

F.B. 2450 Pg. 14

~ DESCRIPTION ~

TRAVERSE STATION LAS FLORES G8A & G8A-AUX.

IN LOS ANGELES COUNTY BETWEEN LAS FLORES CÑ. & CARBON CÑ. (COAL CÑ) 1300 ft. ± ELY. FROM CARBON CÑ RD. & ON THE NORTH SIDE OF THE COAST HWY (U.S. 101 ALT.) BETWEEN HOUSES No's. 21602 & 21628 AND 15.4 FT. SO. OF FACE OF N. LY. CURB

SUB SURFACE MARK: NONE

STATION MARK:

LAS FLORES G8A - FD. HEX. BAR SET IN CONC. PROTECTED BY WELL & COVER MARKED: "CITY OF L.A." per F.B. 936-39-40

LAS FLORES G8A-AUX - A 2" I.P. per F.B 936-39-40 IS OUT, DUE TO CONSTRUCTION OF HWY. - RESET LG. B.C. & W. FL. BY TIES per F.B. 936-39 - see note.

R.M. #1 - FD. A 2" I.P. SET IN CONC. - FILLED WITH CONC. & COPPER WIRE EMBEDDED 10" BELOW TOP OF CB. per F.B - 936-39-40

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

NOTE: LAS FLORES G8A-AUX. RESET WITH 2" I.P. CONC. PLUG & TAG DN. ~~18~~ 11" & IN A WELL WITH A COVER MARKED "COUNTY ENGINEER MONUMENT" 7-9-58

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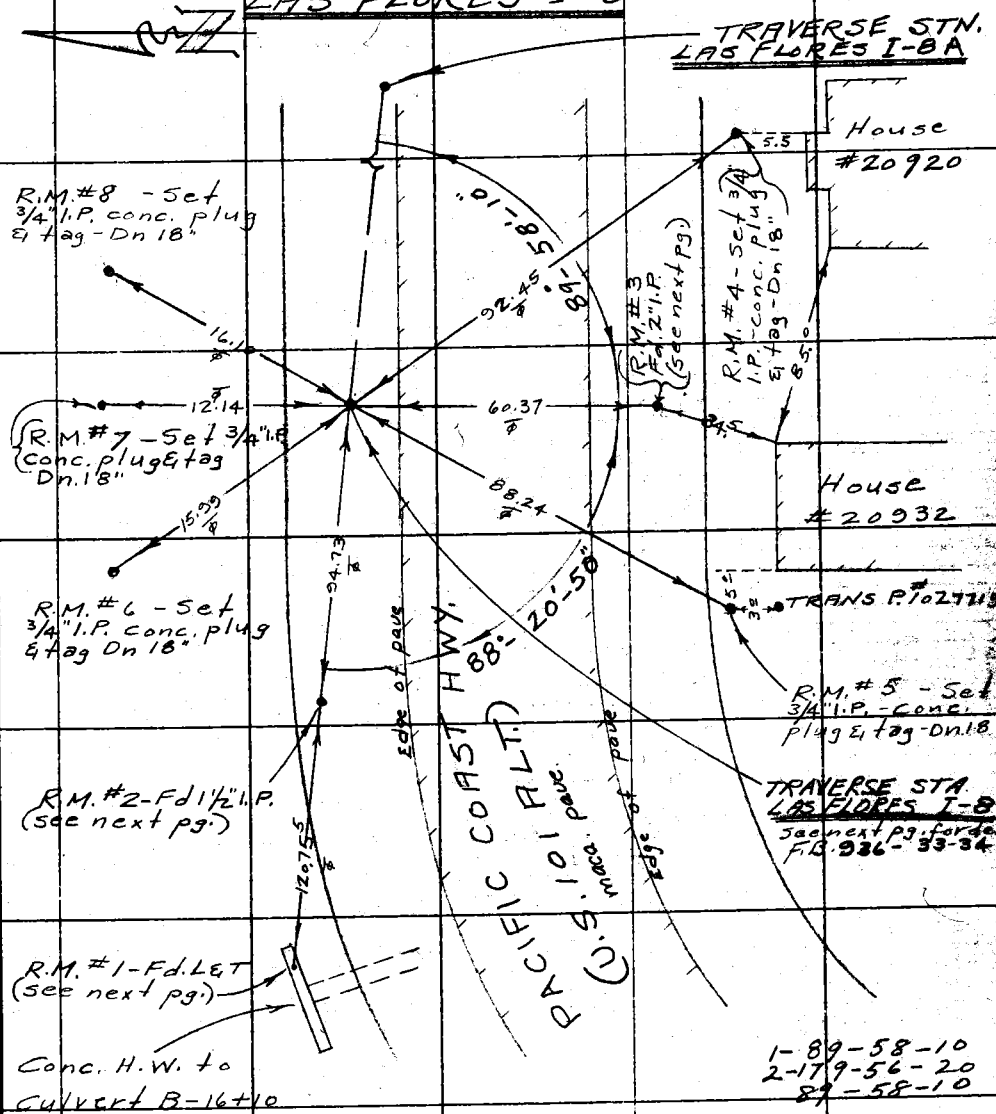
Notes Ck'd by	Survey of Geodetic Control	F. B 2450 Pg. 15
Map No.	W. O. 0301.00 Tape No. 0161 St'd. 68 °F	
Office Work	Surveyed by M.A. Van Deren	
Checked	Notes V.B. Anderson Date 2-20-58	
Date	Indexed C. Johnson	

W.S. 89-135

ADDITIONAL TIES FOR L.A.CO. TRAVERSE STATION LAS FLORES I-8



1-89-58-10
2-179-56-20
89-58-10

1-88-20-50
2-176-41-40
88-20-50

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76F309S S&E #247. 8-54

F.B. 2450 PG. 16

~ DESCRIPTION ~

TRAVERSE STATION LAS FLORES I-8

IN LOS ANGELES CO. - SANTA MONICA BAY AREA, ABOUT 7.95 MI. WEST OF SANTA MONICA PIER, 2.95 MI. WEST OF TOPANGA CN RD. - OR 0.34 MI. EAST OF LAS FLORES CREEK BRIDGE ON PACIFIC COAST H.WY (U.S. 101 A.L.)

STATION MARK: FD. STANDARD 4" BRASS TABLET IN WELL - 10" DP. AND COVER MARKED LOS ANGELES COUNTY SURVEYOR MONUMENT - STAMPED: "L.A. CO. SURVEY CONTROL SYSTEM - TRAVERSE STATION - LAS FLORES I-8" per F.B. 936-33

SUBSURFICE MARK: NONE

R.M. #1 - FD. LEAD IN CONC. HEAD WALL TO CULVERT 16+10 per F.B. 936-33
R.M. #2 & 3 FD. BRASS PIN IN CENTER OF CONC. FILLED 1 1/2" & 2" I.P. RESPECTIVELY 10" DOWN
NOTE: R.M. #2 IS SET ON TANG. BETWEEN TRAVERSE STN. I-8 & R.M. #1 - per F.B. 936-33
R.M.'s #4, #5, #6, #7, & #8 set 3/4" I.P. with Cork plug & tag, dn 18" 2-20-58

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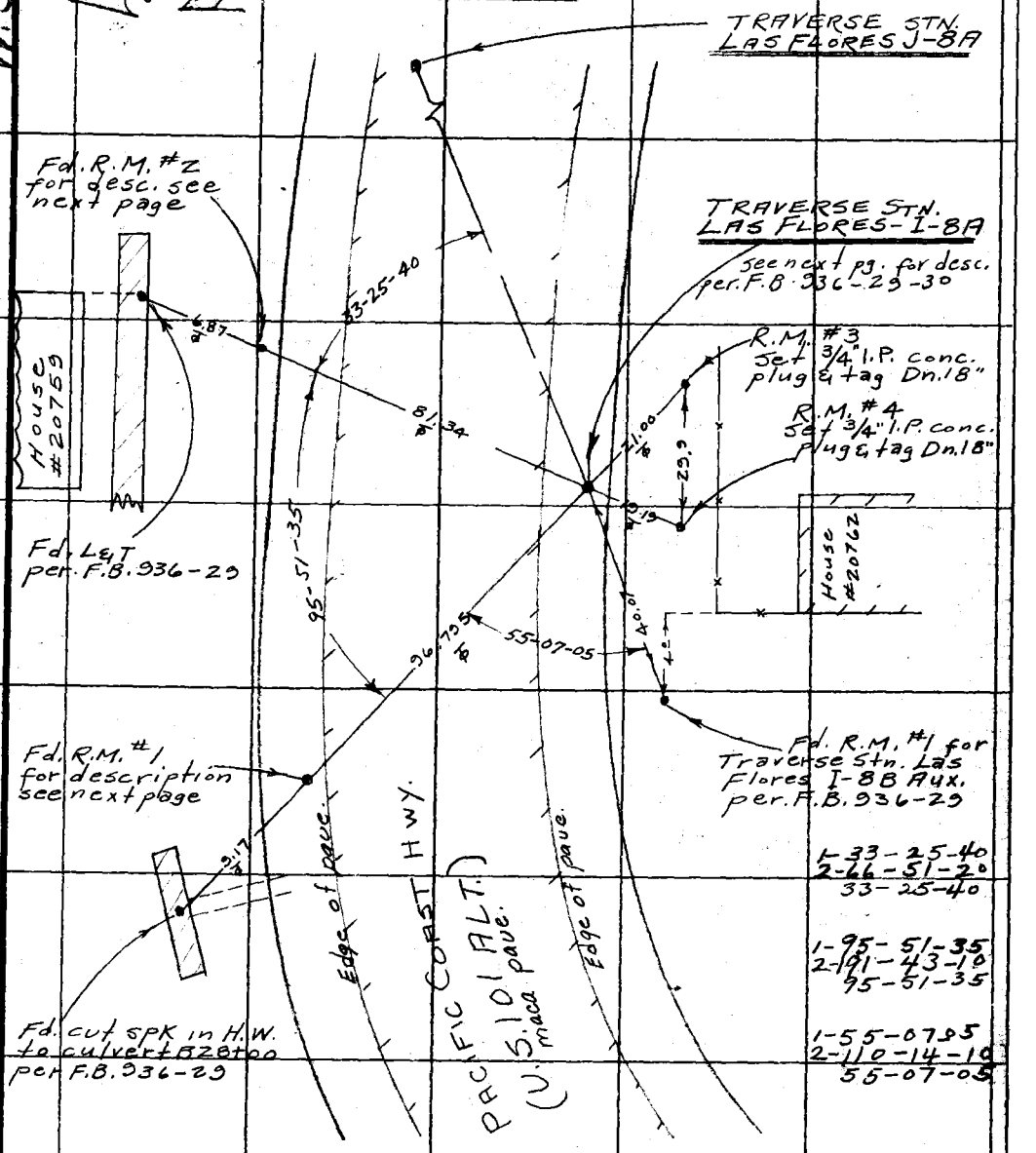
Map No.	W. O. 0301.00 Tape No. 0161 St'd. 68 °F	
Office Work	Surveyed by M.A. Van Deren	
Checked	Notes V. Anderson Date 2-21-58	
Date	Indexed C. Johnson	

W.S. 89-C5

ADDITIONAL TIES FOR L.A.CO. TRAVERSE STN

LAS FLORES-I 8 A



1-33-25-40
2-66-51-20
33-25-40

1-95-51-35
2-191-43-10
95-51-35

1-55-07-05
2-110-14-10
55-07-05

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76F809S S&E #247. 8-54

F.B. 2450 Pg. 18

TRAVERSE STATION
LAS FLORES I-8A

IN L.A.Co.- SANTA MONICA BAY AREA ABOUT 7.75 MILES WEST OF SANTA MONICA PIER, 2.75 MILES WEST OF TOPANGA CN RD. + OR 0.54 MI. EAST OF LAS FLORES CREEK BRIDGE ON PACIFIC COAST HWY. (U.S. 101 ALT.) AND IN A WELL SET IN THE PAVEMENT AND PROTECTED BY A CAST IRON COVER MARKED: "L.A. COUNTY ENGINEER MONUMENT"

STATION MARK: FD. A STANDARD 4" BRASS TABLET IN CONC. 10" BELOW SURFACE OF PAVEMENT MARKED: "L.A.Co. SURVEY CONTROL SYSTEM - TRAVERSE STATION" AND STAMPED: "LAS FLORES I-8A"

SUB SURFACE MARK: NONE

R.M.# 1 & 2 FD. A BRASS PIN IN CENTER OF CON/C. FILLED 2" I.P. - 18" DN.

R.M.# 3 & 4 SET 3/4" I.P. CONC. PLUG & TAG DN 18" 2-21-58

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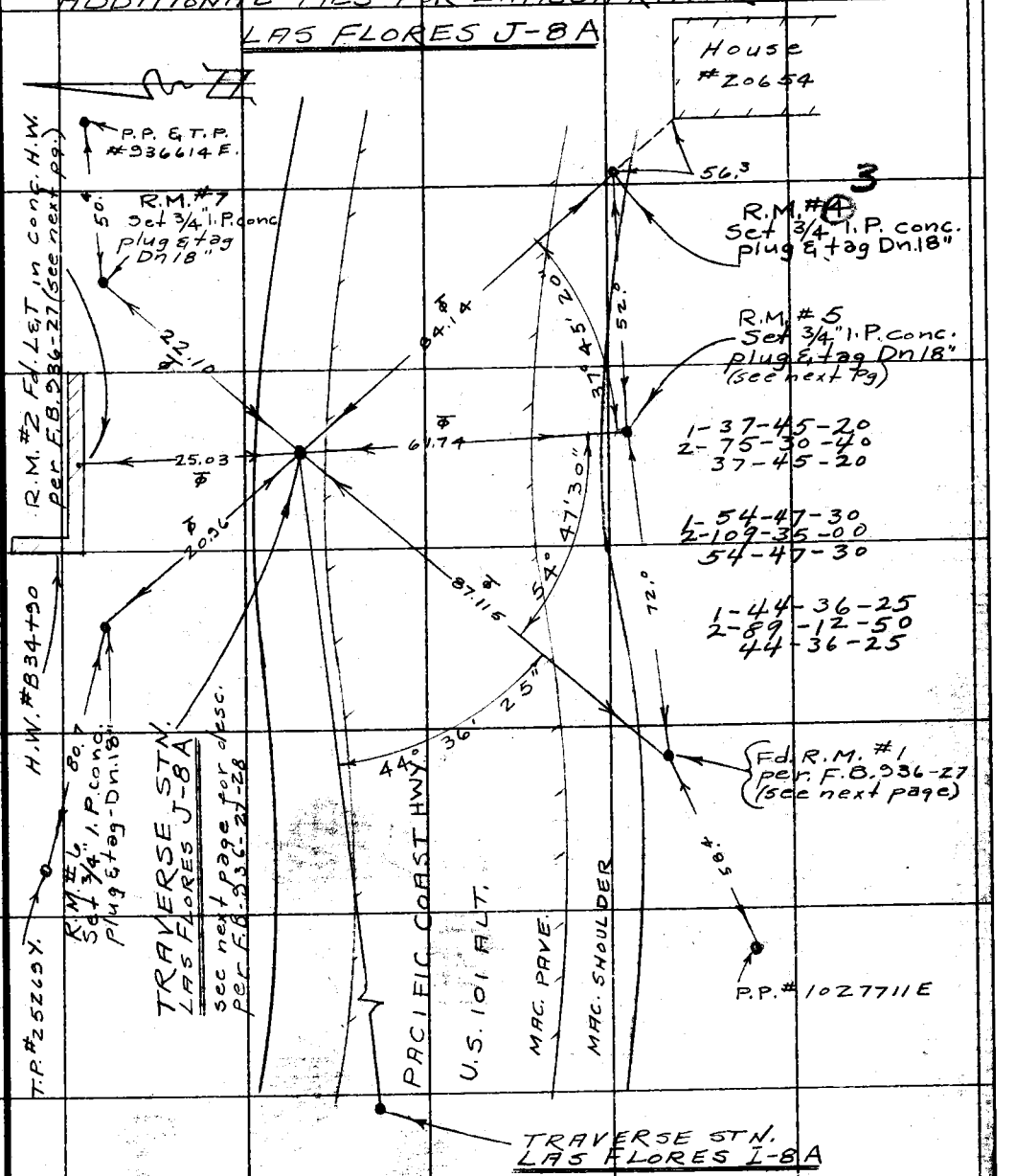
Date	Indexed A. C. Johnson

F.B. 2458 Pg. 19

W.S. 89-C5

ADDITIONAL TIES FOR L.A.CO. TRAVERSE STN.
LAS FLORES J-8A



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76 BOOS SEE #247. 8-54

F.B. 2450 PG. 20

~ DESCRIPTION ~

TRAVERSE STATION 'LAS FLORES J-8A

IN L.A. CO. - SANTA MONICA BAY AREA ABOUT 7.64 MILES WEST OF SANTA MONICA PIER, 2.64 MILES WEST OF TOPANGA CN. RD. - OR 0.69 MI. EAST OF LAS FLORES CREEK BRIDGE ON PACIFIC COAST HWY (U.S. 101 ALT.) AND IN A WELL IN PAVE. AND PROTECTED BY A CAST IRON COVER MARKED, "COUNTY SURVEYOR MON."

STATION MARK: FD. A STANDARD 4" BRASS TABLET IN CONC. - 12" BELOW PAVE. AND MARKED: "LOS ANGELES COUNTY SURVEY CONTROL SYSTEM - TRAVERSE STN" AND STAMPED: "LAS FLORES J-8A"

SUBSURFACE MARK: NONE

R.M. #1 FD. 2" I.P. - CONC. PLUG & BRASS PIN 10" DN. Per FB-936-27-28

R.M. #2 FD. L.S.T. IN TOP OF HEAD WALL TO CULVERT - B 34+90 Per FB-936-27-28

RM #~~4~~ 3 #5 #6 #7 Set 3/4" IP with conc plug & Tag dn 18" 2-21-58.

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F. B. 2450 Pg. 21

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Survey of GEODETIC CONTROL
W. O. 0581.00 Tape No. 0160 Std. 68 °F
Surveyed by M.A. VAN DEREN
Notes V. ANDERSON Date 7-9-58
Indexed C. Johnson

ADDITIONAL TIES FOR L.A.CO. TRAVERSE STN. LAS FLORES J-8

N

FD. R.M. #2
per F.B. 936-25-26

CONC. HEAD WALL #B47+25

74.79

TRAVERSE STN.
LAS FLORES J-8

PACIFIC COAST HWY.
U.S. 101 ALT.
(MAC. PAVE)

FD. R.M. #1
per F.B. 936-25-26
(SEE NEXT PAGE)

68.25

R.M. #3
Set 3/4" I.P. conc.
plug & tag Dn 18"

88.28

95°-27'-00"

① 95-27-00
② 190-54-00
95-27-00

R.M. #5
SET 3/4" I.P. CONC.
PLUG & TAG DN. 18"

18.64

102.54

TRAVERSE STN
LAS FLORES J-8
(SEE NEXT PAGE)
per F.B. 936-25-26

16.14

R.M. #4
Set 3/4" I.P. conc.
plug & tag Dn 18"

25°-51'-40"

R.M. #6
SET 3/4" I.P. CONC.
PLUG & TAG - DN. 18"

① 25-51-40
② 51-43-20
25-51-40

M.H.W. SHOULDER

TRAVERSE STN
LAS FLORES J-8A

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73F3098 S&E #247. 8-54

F.B. 2450 PG. 22

TRAVERSE STATION
LAS FLORES J-8

IN LOS ANGELES COUNTY - SANTA MONICA BAY AREA ABOUT 7.44 MI. W. of SANTA MONICA PIER, 2.44 MI. W. of TOPANGA CN. RD ON COAST HWY. MALIBU RD. U.S. 101 ALT. AND IN A WELL CUT THRU THE PAVE. & PROTECTED BY A CAST IRON COVER MARKED "COUNTY ENGINEER MONUMENT" per. F.B. 936-28

STATION MARK: FD A STD. 4" BRASS TABLET IN CONC. DN. 12" BELOW PAVE. & MARKED "L.A. COUNTY SURVEY CONTROL SYSTEM - TRAVERSE STATION" AND STAMPED "LAS FLORES J-8 AND SET BY COUNTY SURVEYOR, 1947"

SUBSURFACE MARK: NONE

R.M. #1 FD. BRASS PIN IN CENTER OF CONC. FILLED 1 1/2" I.P. DN 10" NO. 1 IS SET ON LINE BETWEEN TRAV. STN. J-8 & P.M. IN R.M. #2

RM. #2 FD. BRASS CAP MON. IN CONC. HEAD WALL TO CULVERT 847+25 MARKED: "U.S. COAST & GEODETIC SURVEY, BENCH MARK M576-1939", AND SET PUNCH MARK

R.M.'S. #3, #4, #5, & #6 ARE 3/4" I.P. CONC. PLUG & TAG STAMPED: "L.A. CO. ENGR." DN. 18"

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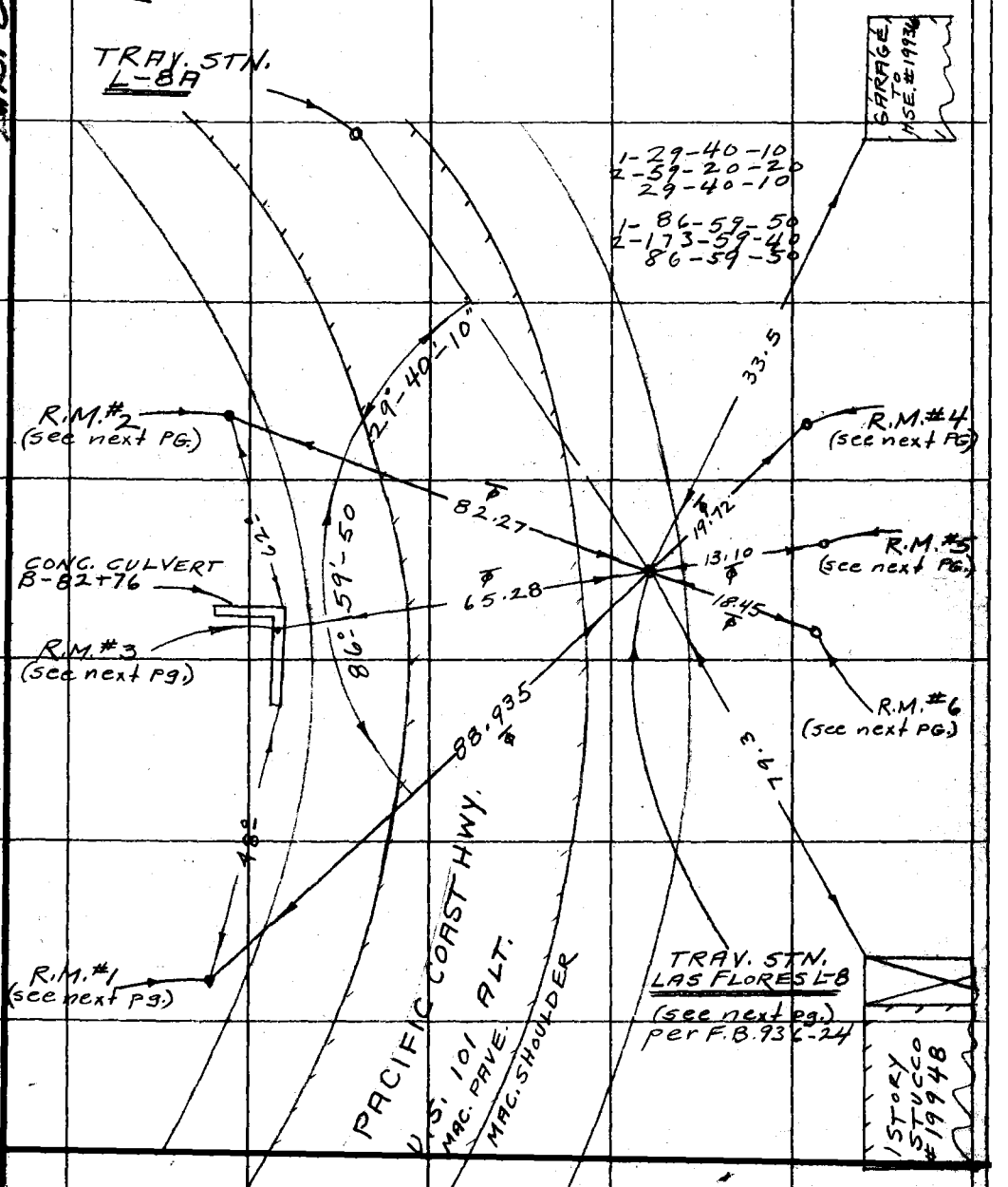
Office Work	Surveyed by M.A. VAN DEREN
Checked	Notes V. ANDERSON Date 7-10-58
Date	Indexed

F.B. 2450 Pg. 23

W.S. 89-C5

ADDITIONAL TIES FOR L.A. CO TRAVERSE STN. LAS FLORES L-8



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726 LOS ANGELES COUNTY
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76-3095 S&E #247. 8-54

F.B. 2450 PG. 24

TRAVERSE STN
LAS FLORES L-8

IN L.A.CO. SANTA MONICA BAY AREA ABOUT 6.75 MI. W. of SANTA MONICA PIER, 1.75 MI. W. of TOPANGA CN. RD. on COAST HWY. MALIBU RD., U.S. 101 ALT., AND IN A WELL IN THE PAVE. & PROTECTED BY A CAST IRON COVER MARKED: "COUNTY ENGINEER MONUMENT" per F.B. 936-26

STATION MARK: FD. A STD. 4" BRASS TABLET IN CONC. DN 14" - MARKED "L.A. CO. SURVEY CONTROL SYSTEM - TRAVERSE STATION" AND STAMPED: "LAS FLORES L-8 and SET BY COUNTY SURVEYOR, 1947" per FB-936-23

SUBSURFACE MARK: NONE

R.M. No 1 & No 2 FD. A BRASS PIN IN CENTER OF CONC. FILLED 2" I.P. DN. 12" Per F.B. 936-26
R.M.'s #3, #4, #5 AND #6 SET A 3/4" I.P. CONC. PLUG & TAG DN. 18"

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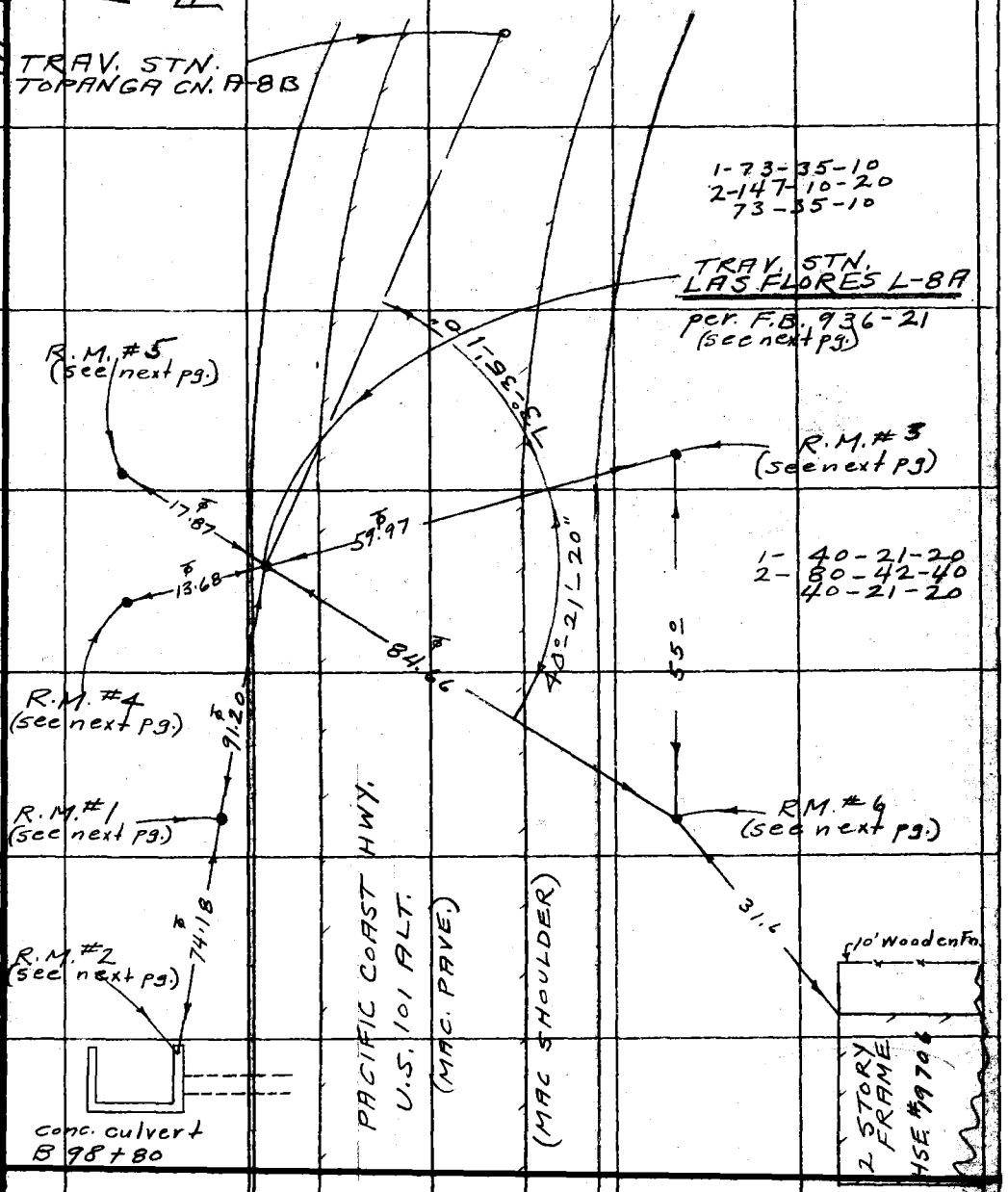
Office Work	Surveyed by M.A. VAN DEREN
Checked	Notes V. ANDERSON Date 7-10-58
Date	Indexed C. Johnson

F.B. 2450 Pg. 25

W.S. 89-C5

ADDITIONA TIES FOR L.A. CO. TRAVERSE STATION

LAS FLORES L-8A



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76R309S S&E #247. 8-54

F.B 2450 PG. 26

TRAVERSE STN.
LAS FLORES L-8A

IN L.A. CO. SANTA MONICA BAY AREA ABOUT 6.42 MI. W. of SANTA MONICA PIER 1.42 MI. W. of TOPANGA CN. RD. on COAST HWY. MALIBU RD. U.S. 101 ALT. AND IN A WELL IN PAVE. AND PROTECTED BY A CAST IRON COVER MARKED "COUNTY SURVEYOR MONUMENT"

STATION MARK: FD. STD. 4" BRASS TABLET IN CONC DN 12" MARKED "L.A. COUNTY SURVEY CONTROL SYSTEM - TRAVERSE STATION" and stamped: "LAS FLORES L-8A and SET BY COUNTY SURVEYOR, 1947 Per FB-936-21

SUBSURFACE MARK: NONE

R.M. #1&3 FD. BRASS PIN IN CENTER OF CONC. FILLED 2" I.P. DN 12" Per FB-936-21

R.M. #2 FD. L&T IN CONC. HEAD WALL TO CULVERT B 98+80 Per FB-936-21

R.M.'s #4, 5, & 6 SET 3/4" I.P. CONC. PLUG & TAG STAMPED: "L.A. Co. ENGR" DN 14"

RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 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.

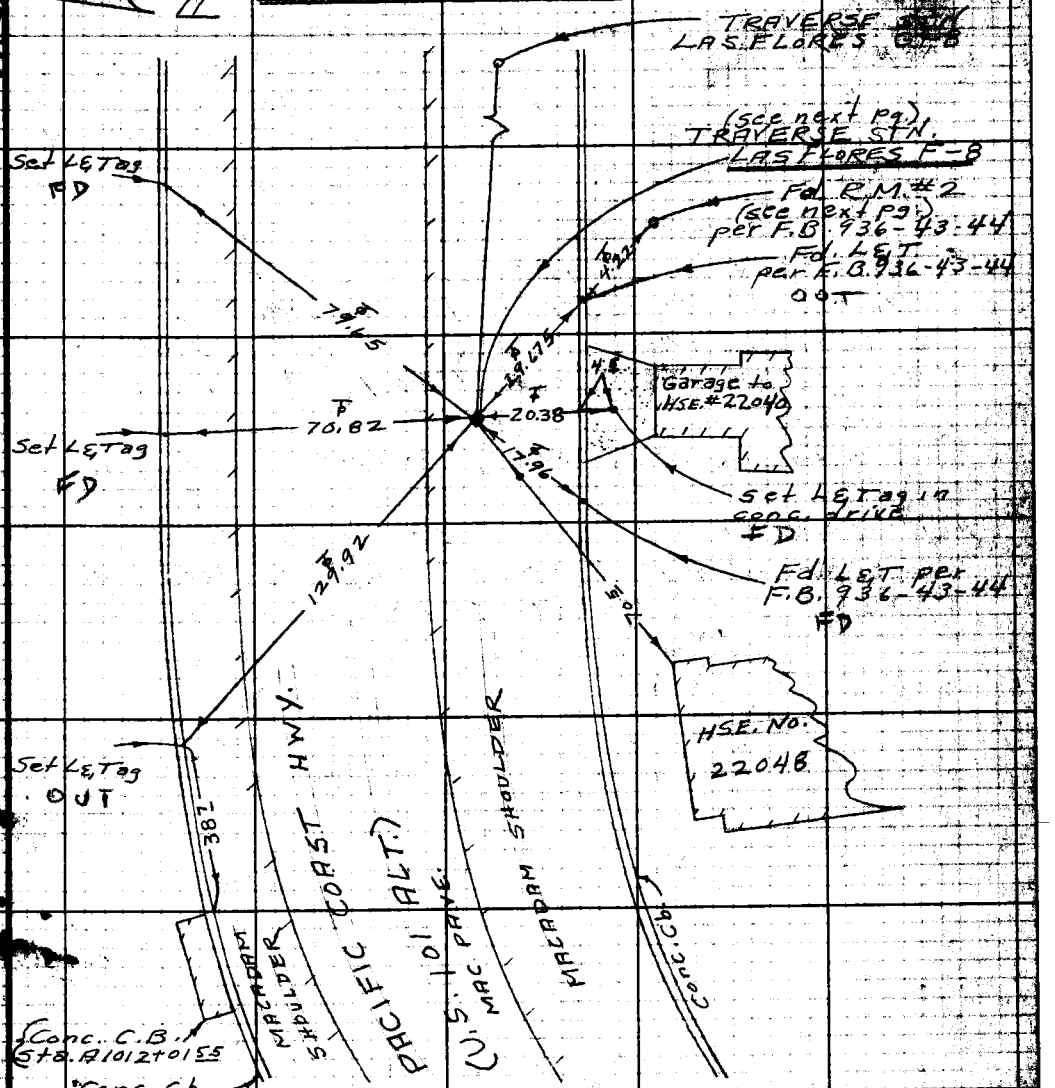
Notes Ck'd by	Survey of Geodetic Control
Map No.	JN 0301.00 Tape 0160 Std 68
Office Work	Surveyed by M.A. Van Deren
Checked	Notes V.B. Anderson Date 9-15-58
Date	Indexed A. C. Johnson

P.B. 2450 Pg. 27

W.S. 89-A5

ADDITIONAL TIES FOR L.A. CO. TRAVERSE STN.

LAS FLORES F-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
700 LOS ANGELES COUNTY ENGINEERING BLDG.

76F0083 CE #247—3-57

F. B. 2450 Pg. 28

~ DESCRIPTION ~

TRAVERSE STATION LAS FLORES F-8

IN LOS ANGELES COUNTY, NEAR THE OCEAN BETWEEN CARBON CANYON (COAL CANYON) AND MALIBU CANYON ON THE SO. SIDE OF THE COAST HWY. (MALIBU RD. US 101 ALT) ABOUT 1600' W'LY FROM CARBON CANYON AND 4º SO. OF THE SOUTH EDGE OF PAVE., IN A WELL WITH CAST IRON COVER per F.B. 936-43-44

STATION MARK: SET A STD. 4" BRASS TABLET IN CONC. 12" BELOW SURFACE OF PAVEMENT MARKED: "L.A. CO. SURVEY CONTROL SYSTEM - TRAVERSE STATION" AND STAMPED: "LAS FLORES F-8 - R.E. 5869 - 1958"

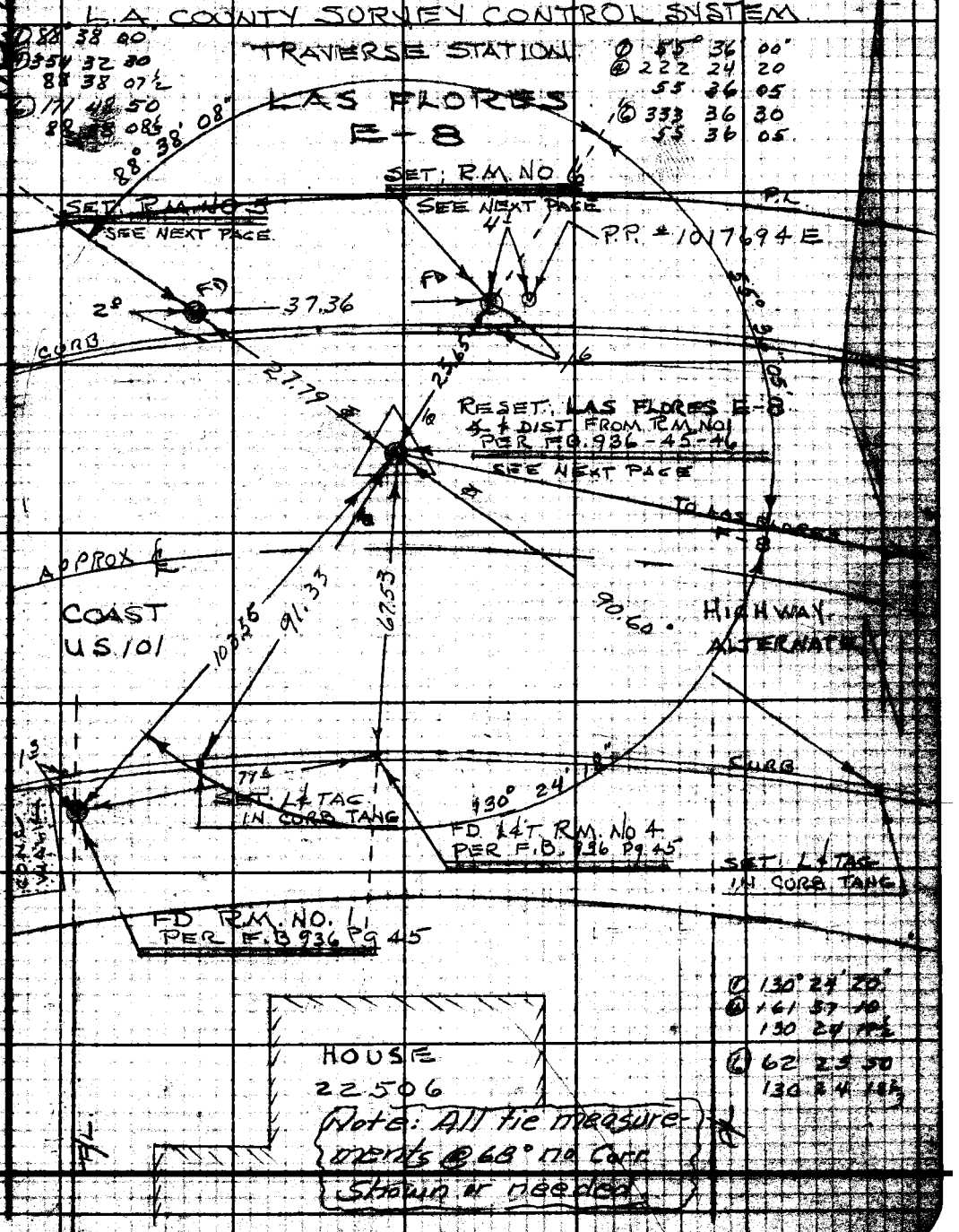
SUBSURFACE MARK: NONE

R.M. #2: FD. A 2" I.P. SET IN CONC. & CONC. FILLED WITH COPPER WIRE CENTER DN. 10" BELOW CURB ELEVATION per F.B. 936-43-44

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.
Do not extend notes this side of this line.
Note: Any Ad[illegible] or Change [illegible] This Sheet Must be [illegible] or Circle[illegible] Red Ink With Da[illegible] Name[illegible] Person Making Chan[illegible]

Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 0301.00 Tape 0136 Std. 68 °F
Office Work	Surveyed by W. D. BAY
Checked	Notes R. D. SMITH Date 1-18-60
Date	Indexed A. C. Johnson 1-29-60

F.B. 2450 Pg. 39



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 data at this line.

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

F.B. 2450 Pg. 30

DESCRIPTIONS
LAS FLORES
E-8

THIS TRAVERSE STATION IS IN L.A. COUNTY IN THE MALIBU AREA IN THE COAST HWY. (101 ALTERNATE) 17.3 FT. SOUTH OF THE NORTH CURB OPPOSITE HOUSE NO. 22506 AND IN A WELL AND PROTECTED BY A CAST IRON COVER MARKED "COUNTY ENGINEER MONUMENT"

STATION MARK: RE-SET. STD 4" BRASS TRAVERSE CAP IN CONC. DOWN 12 INCHES AND STAMPED LAS FLORES E-8 RESET 1960 L.A. CO. ENGR. R.E. 5869

REFERENCE MARK NO 1. FD PER F.B. 936 PAGE 45-46

REFERENCE MARK NO 2 & NO 3. OUT PER F.B. 936 PAGE 45-46

REFERENCE MARK NO 4 FD PER F.B. 936 PAGE 45 EXCEPT DIST. TO MON. INDICATES AN ERROR OF 2.0 FT. APPARENTLY SHOULD BE 67.53' AS OPPOSED TO 69.54'

REFERENCE MARK NO 5 SET STD 4" BRASS REF. CAP IN CONC. DOWN 9 INCHES AND STAMPED "LAS FLORES E-8 R.M. NO. 5 1960 L.A. CO. ENGR. R.E. 5869"

REFERENCE MARK NO 6. SAME AS R.M. NO 5 EXCEPT STAMPED R.M. NO 6 AND IS 12 INCHES BELOW CURB GRADE.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 Los Angeles County Engineering Bldg.
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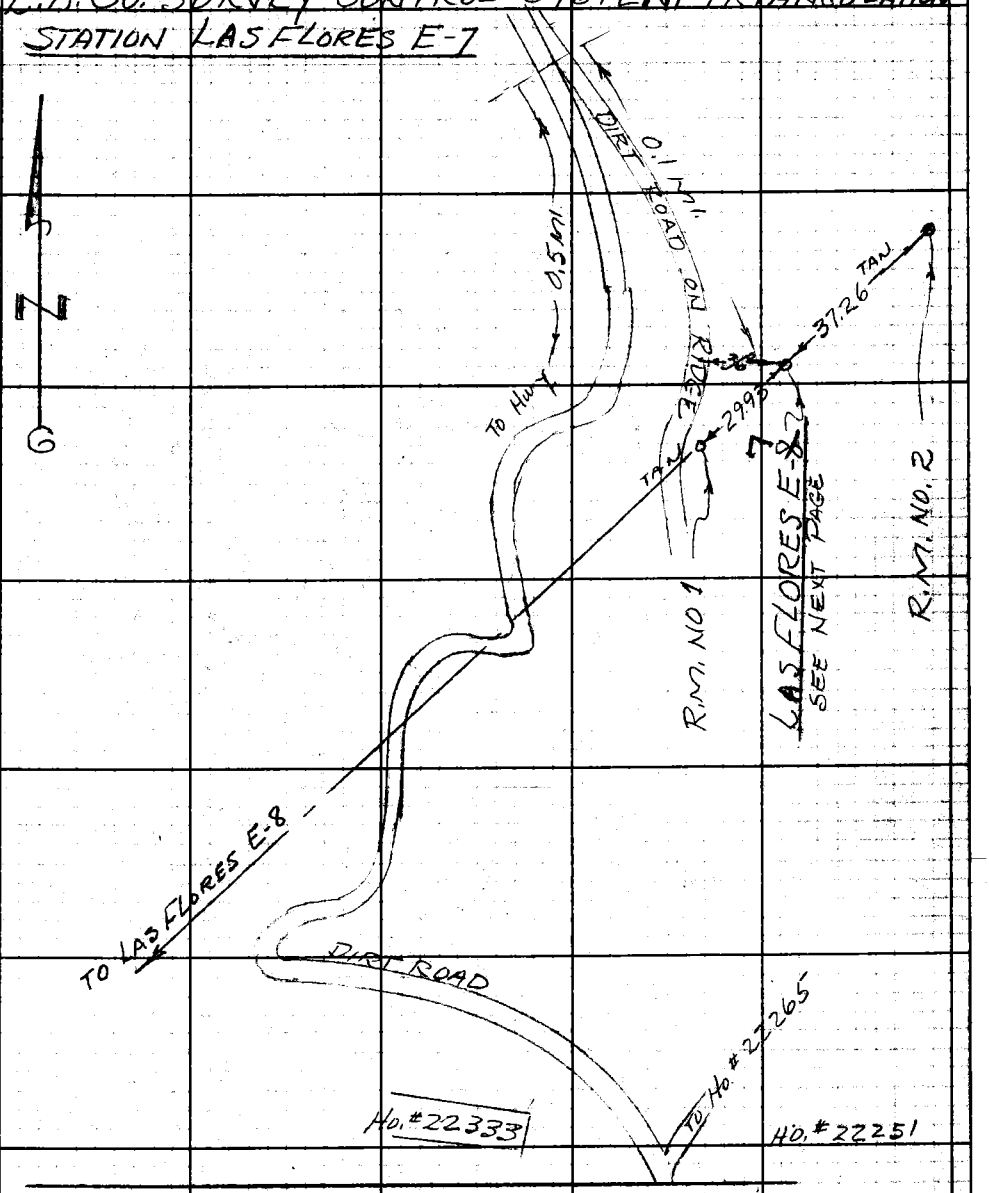
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 0300.00 Tape 0136 Std 68 °F
Office Work	Surveyed by G. E. DREIER
Checked	Notes G.E.D Date 1-25-60
Date	Indexed C. JONES

F. B. 2450 Pg. 31

L.A.CO. SURVEY CONTROL SYSTEM TRIANGULATION STATION LAS FLORES E-7



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
700 Los Angeles County Engineering Bldg.

76F2099 GE #247—8-57

F.B. 2450 Pg. 32

LAS FLORES E-7

THIS STATION IS IN LOS ANGELES CO. IN THE MALIBU AREA AND CAN BE REACHED BY TAKING THE LEFT FORK OF A DIRT ROAD WHICH LEAVES PACIFIC COAST Hwy BETWEEN HOUSE NO. 22251 AND 22333 AND GO NORTHERLY 0.5 MI TO A ROAD FORK ON TOP OF A NARROW RIDGE. GO SOUTHERLY 0.1 MI TO STATION WHICH IS ABOUT 35 FT. E. OF DIRT ROAD AT A POINT WHERE RIDGE IS SLIGHTLY WIDER

STATION MARK SET A 2 INCH PIPE WITH A STD. PLUMBING BRASS CAP STAMPED "COUNTY ENGINEER L.F. E-7 RE. 5869" UP 2 INCHES

R.M. NO. 1 SET STD REF. MON. STAMPED; "LAS FLORES E-7 R.M. NO 1 1960 L.A. CO. ENGR. R.E. 5869", UP 6 INCHES, IN CONC.

R.M. NO. 2 SET STD REF. MON STAMPED; "LAS FLORES E-7 R.M. NO. 2 1960 L.A. CO. ENGR. R.E. 5869", IN CONC, UP 6 INCHES

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

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

Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 0301.00 Tape 0136 Std. 68 °F
Office Work	Surveyed by G.E. DREIER
Checked	Notes G.E.D Date 1-60
Date	Indexed A. C. JOHNSON 1-29-60

F. B. 2450 Pg. 33

CARBON MESA LANDSLIDE AREA

CONTROL SCHEME

GEODETIC CONTROL

JOB No 0301.00

BAY	DREIER
SMITH, R.D.	MOODY
BAZEN	LYBRAND
GOODWIN	VALDEZ
	SMITH, N.

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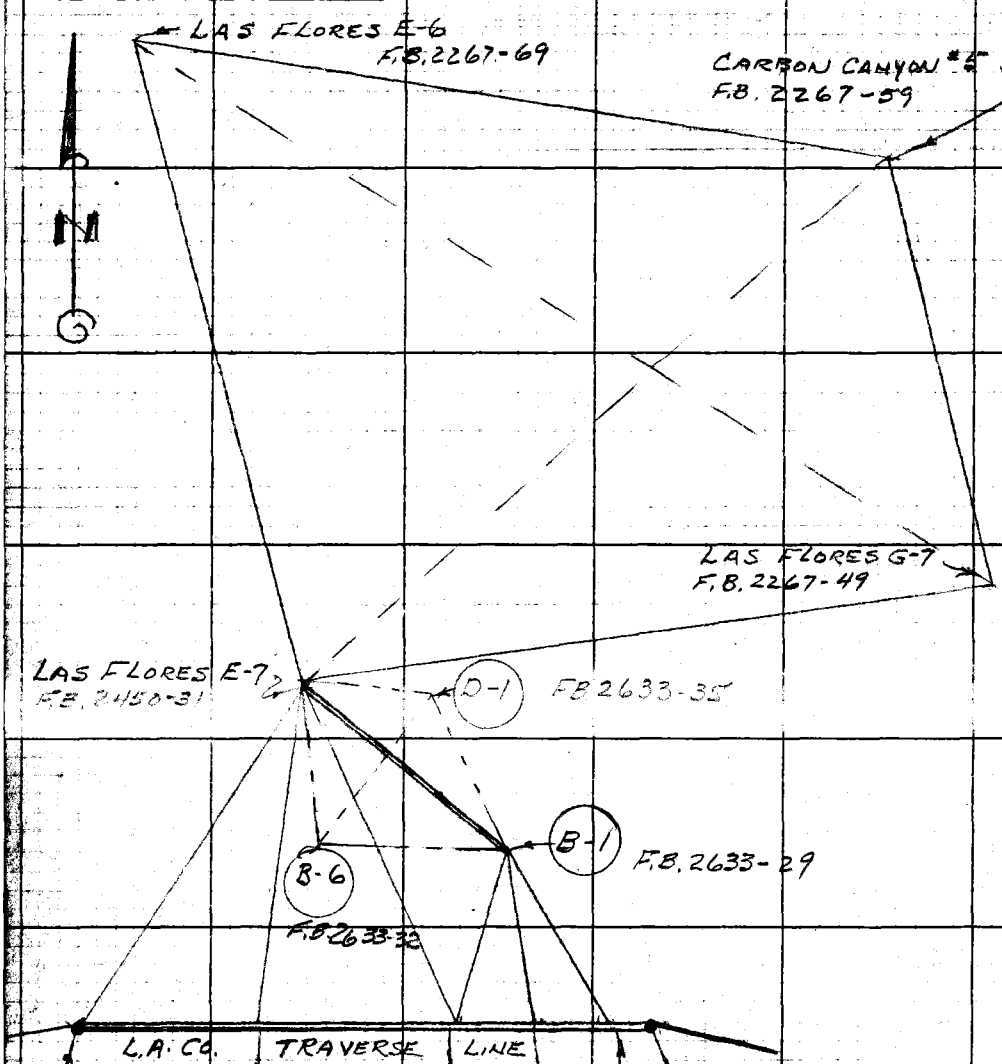
RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

76F009S CE #247—3-57

CONTROL SCHEME INDEX

F.B. 2450 Pg. 34



0+00 ± LAS FLORES E-8
F.B. 2450-29, 30
F.B. 936-45, 46

10+00.04
F.B. 2450-35

20+00.15
F.B. 2450-36

24+00.20
F.B. 2450-37

28+00.23
F.B. 2450-38

LAS FLORES F-8
31+64.35
F.B. 2450-27

ANGLES IN F.B.G. 859
850
849

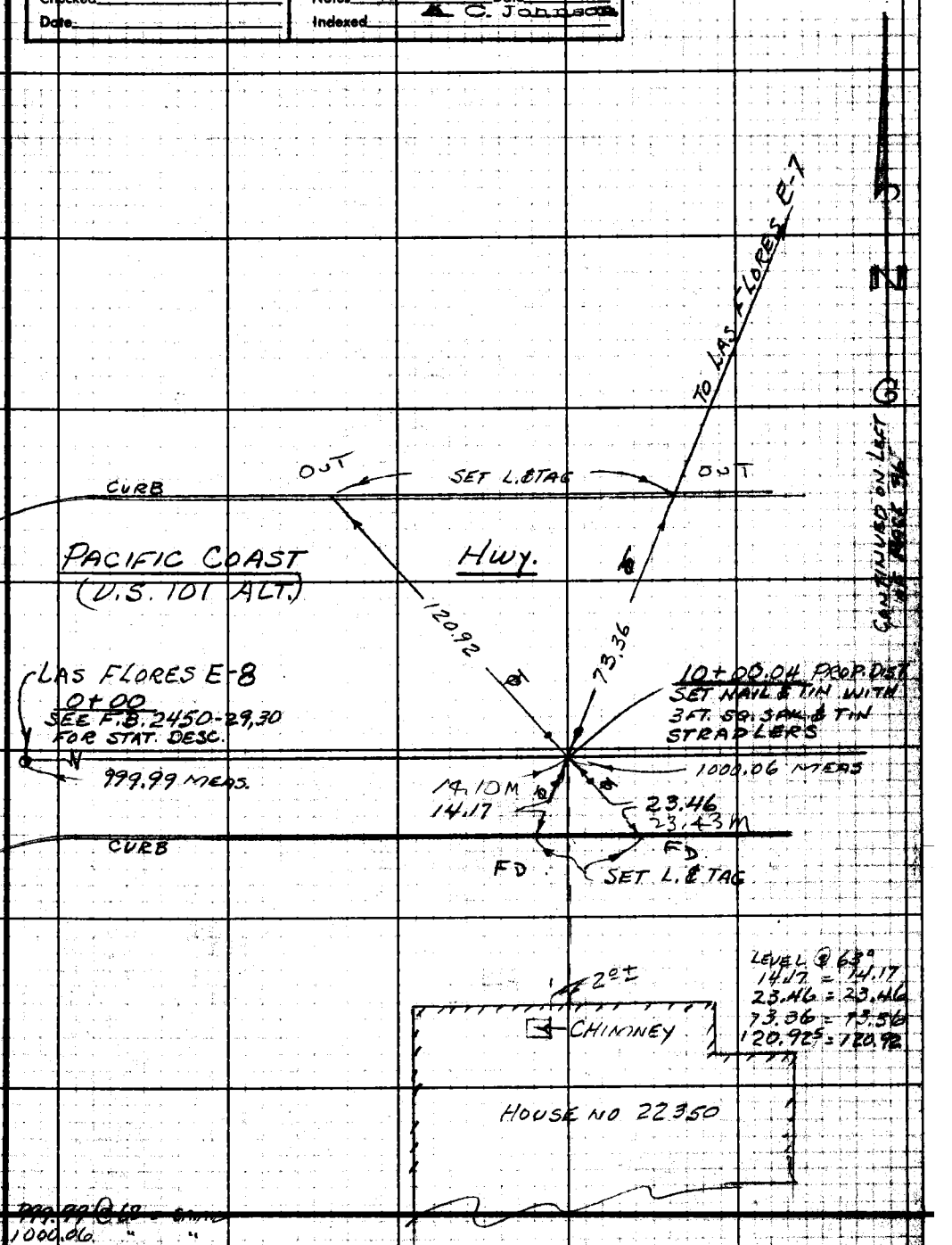
RETURN TO
LOS ANGELES COUNTY ENGINEER
700 Los Angeles County Engineering Bldg.

Do not extend notes into this area.

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

Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 0301.08 Tape 0136 Std 68 °F
Office Work	Surveyed by G.E. DREIER
Checked	Notes G.E.D. Date 1-20-60
Date	Indexed C. Johnson

F.B. 2450 Pg. 35



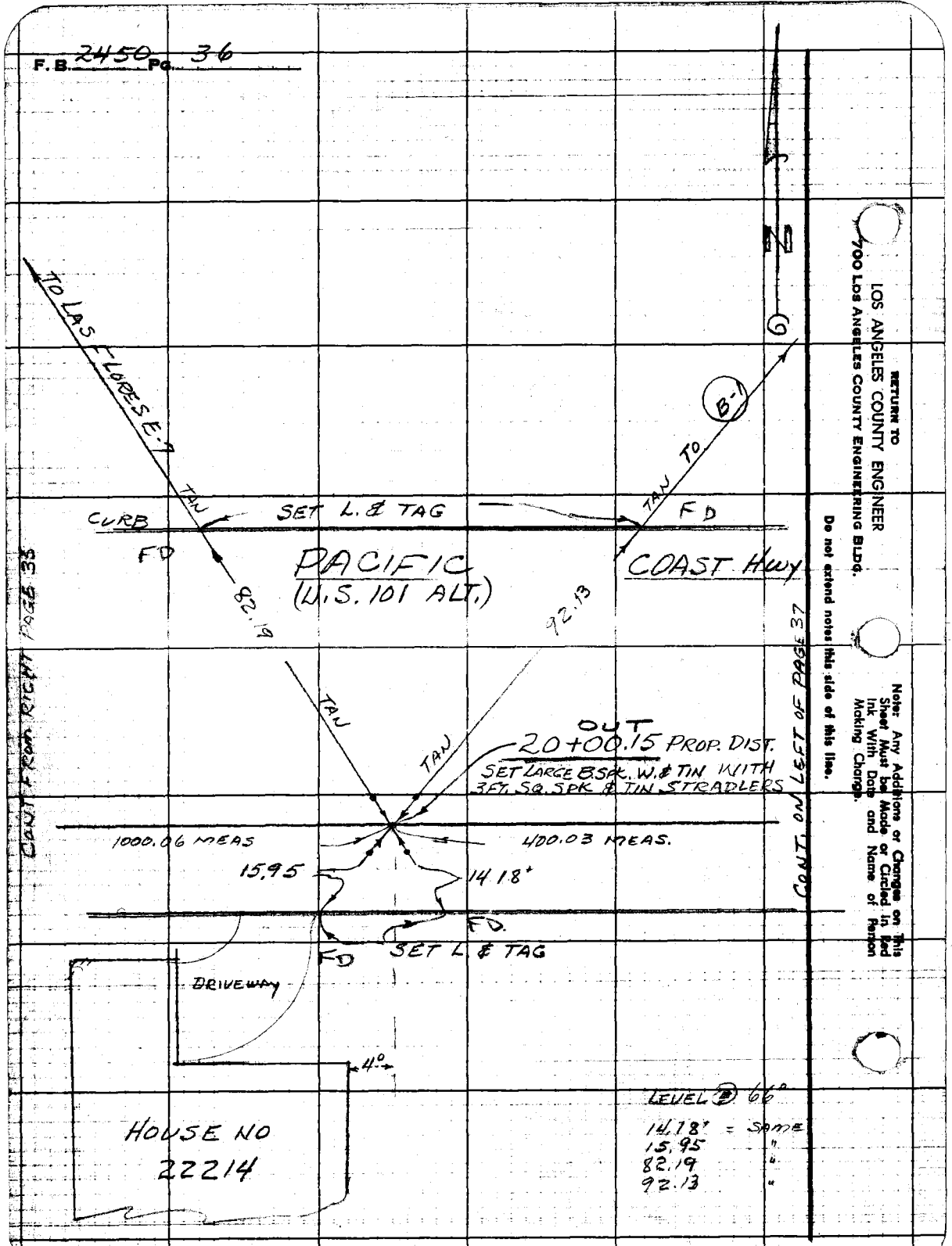
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

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

7 6 5 0 5 5 CE #247—3-57

F.B. 2450 Pg. 36



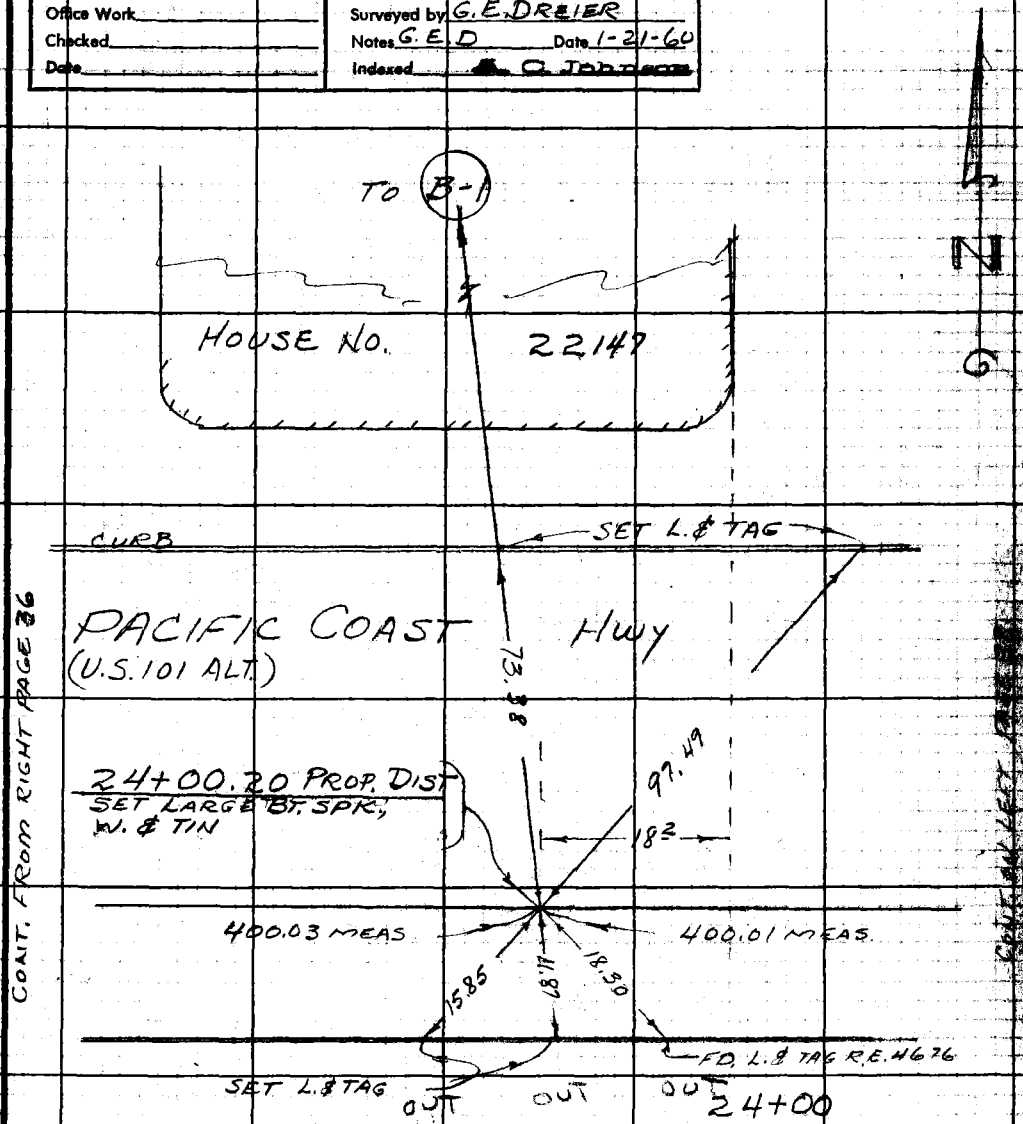
RETURN TO
LOS ANGELES COUNTY ENGINEER
700 Los Angeles County Engineering Bldg.

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.	JN 0301.00 Tape 0136 Std 68 °F
Office Work	Surveyed by G. E. DREIER
Checked	Notes G. E. D Date 1-21-60
Date	Indexed [illegible]

F. B. 2450 Pg. 39



400.03 @ 68° = 400.03
400.01 " 400.01

LEVEL @ 66°
11.87 = SAME
15.85 "
73.38 "
97.49 "
18.30 "

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
700 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3695 GE #247—3-57

F.B. 2450 Pg. 38

Tape #01.36

TOTAL DIST LAS FLORES E-8 TO F-8
MEAS. 3154.16 @ 68
MEAS 3154.24 " "
MEAN 3154.20
GEODETIC
DISTANCE 3154.35

43.75
59.41
103.16

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

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

Do not extend notes this side of this line.

TO B-1

TAN FD SET L.8 TAG FD

CURB

90° 00'

143.16

104.67

TAN TAN

LAS FLORES F-8
PER PAGE 277

400.01 MEAS.

354.11 MEAS.

16.04

15.72

CURB

FD SET L.8 TAG FD

CENT. FRONT OF PAGE 35

28+00.23 PROP. DIST.
SET NAIL & TIN WITH 3 FT
SQ. SPK. & TIN STRADLERS

LEVEL @ 67°
15.72 = SAME
16.04

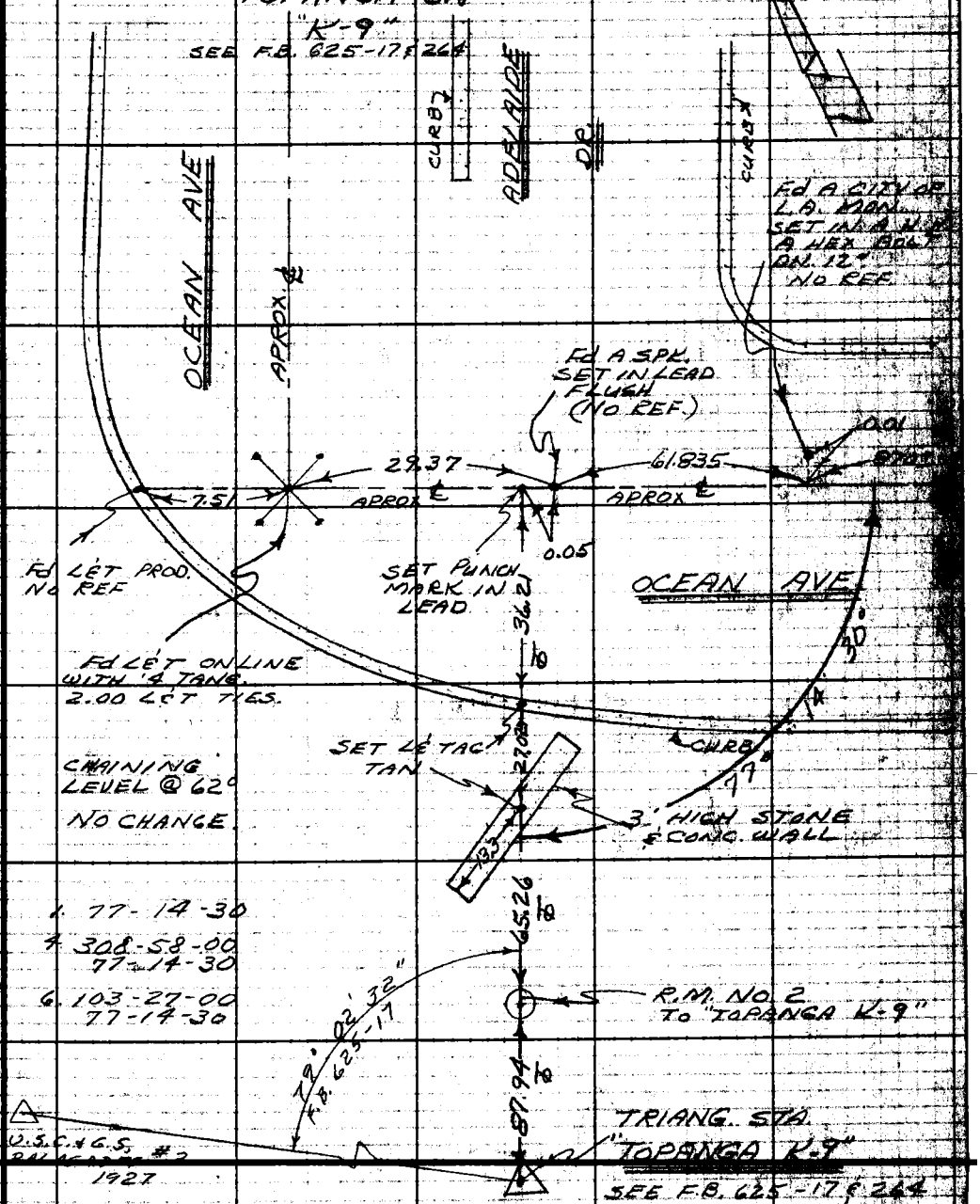
44.24
60.43
104.67

HOUSE # 22104

Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 0301.00 Tape 0162 Std 68 °F
Office Work	Surveyed by W. D. BAY
Checked	Notes BAZEN Date 6-12-61
Date	Indexed H. E. OTT JUL 5 '61

F.B. 2450 Pg.

ADDITIONAL TIES TO TRIANG. STA.
"TOPANGA CN"
"K-9"
SEE F.B. 625-17 & 264



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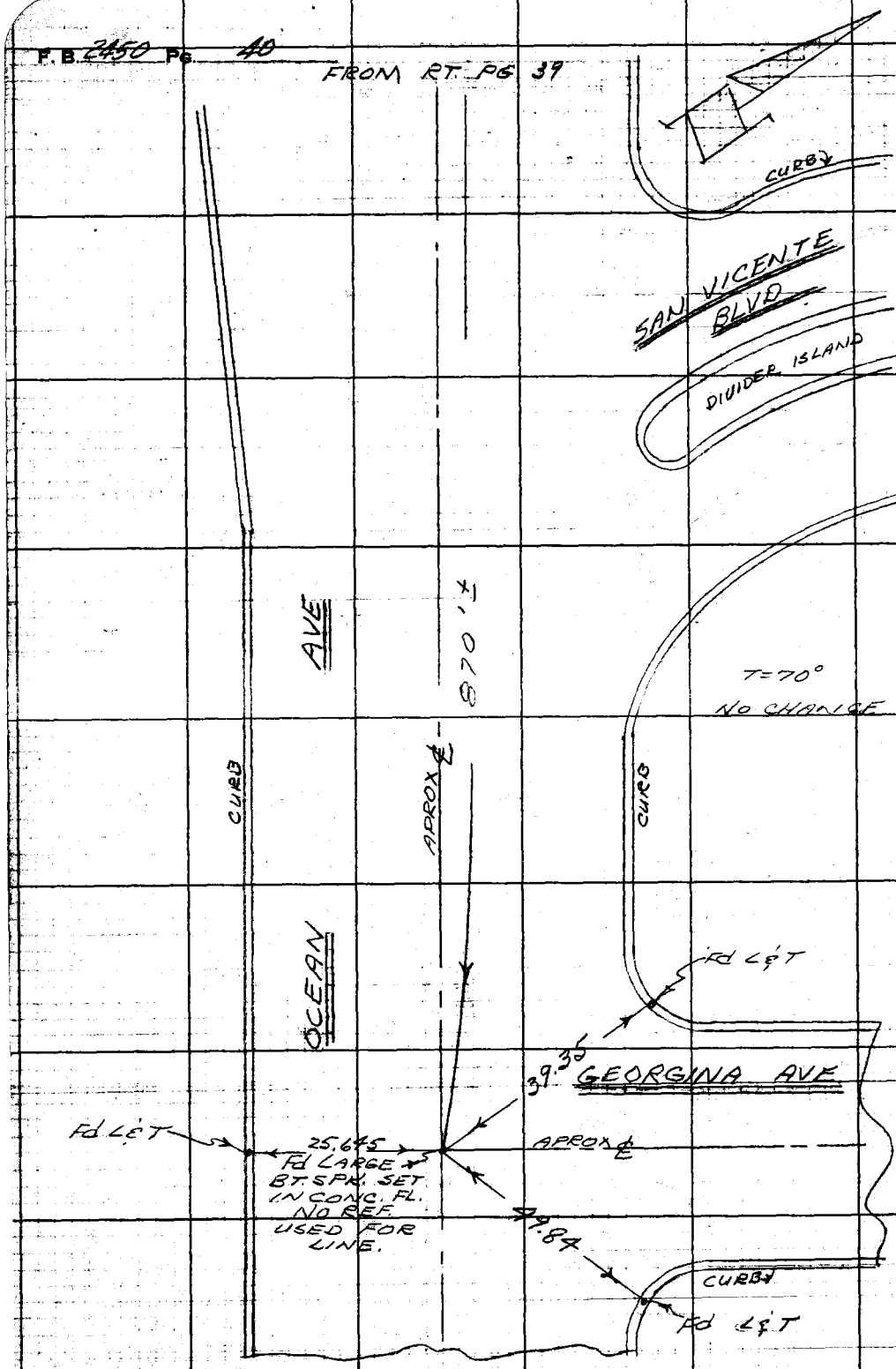
RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3098 GE #247—8-57

F.B. 2450 Pg. 40

FROM RT. PG 39



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

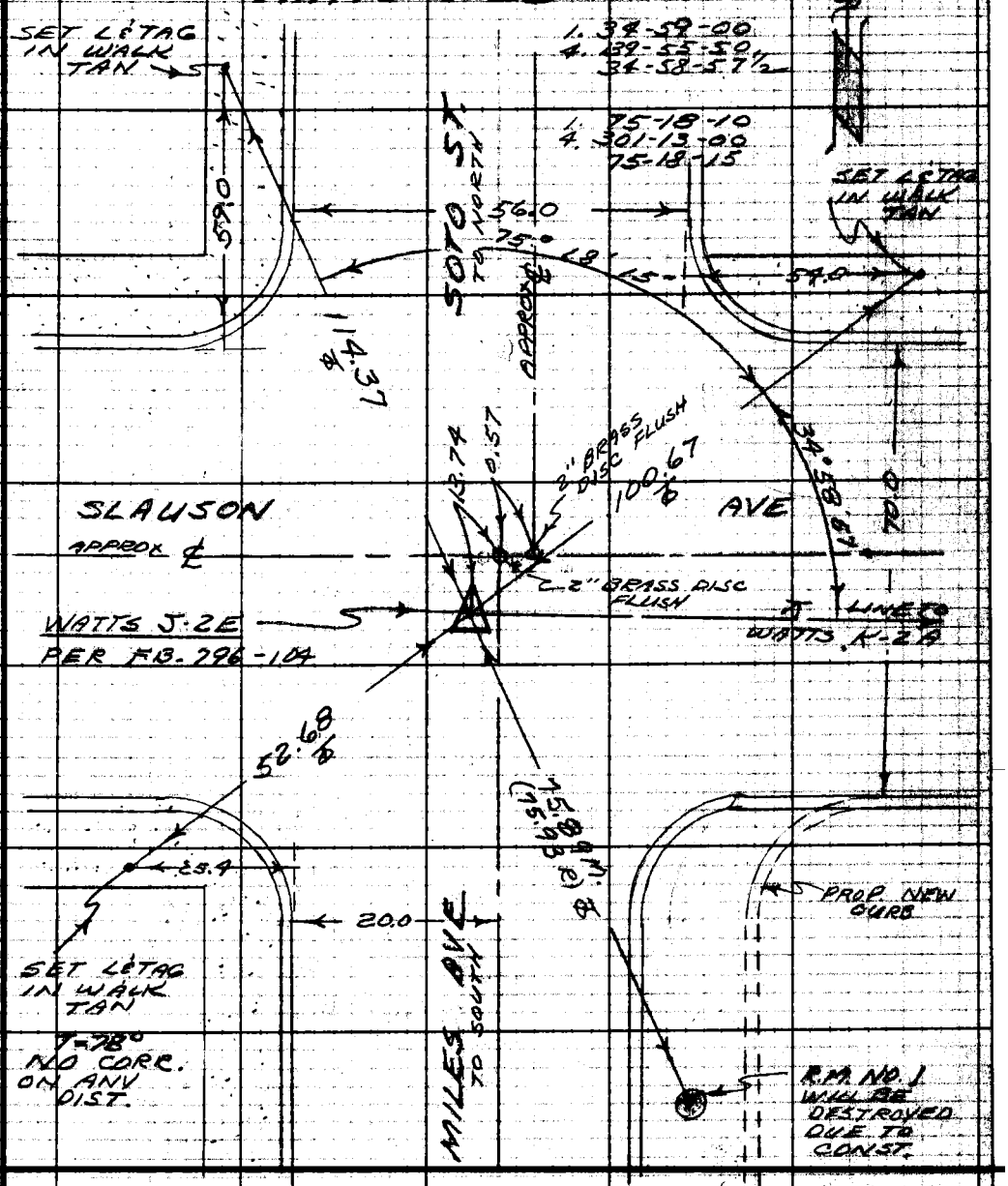
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 0301.00 Tape 144 Std 84 °F
Office Work	Surveyed by W. D. BAY
Checked	Notes J J BAZEN Date 6-2-61
Date	Index H. E. OTT JUL 5 '61

F.B. 2450 Pg. 41

ADDITIONAL TIES TO
L.A. COUNTY TRAVERSE STATION
WATTS J-2E



RE 4233

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
700 LOS ANGELES COUNTY ENGINEERING BLDG.

76-3098 CE #247—9-57

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

F.B. 350 Pg. 22

Notes Ck'd by	Survey of CARBON MESA LANDSLIDE
Map No.	JN 0021-92 Tape HP&3 Std °F
Office Work	Surveyed by R.C. DALE
Checked	Notes M.E. WACKER Date JAN. 74
Date	Indexed G. D. BAILEY MAR 1 74

F. B. 2450 PG. 43

J.N. 0021-92

CARBON MESA

LANDSLIDE AREA

HORIZONTAL CONTROL

REF:
F.B. 2450

PARTY:

DALE
WACKER
DARVIS
DIETZ

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

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

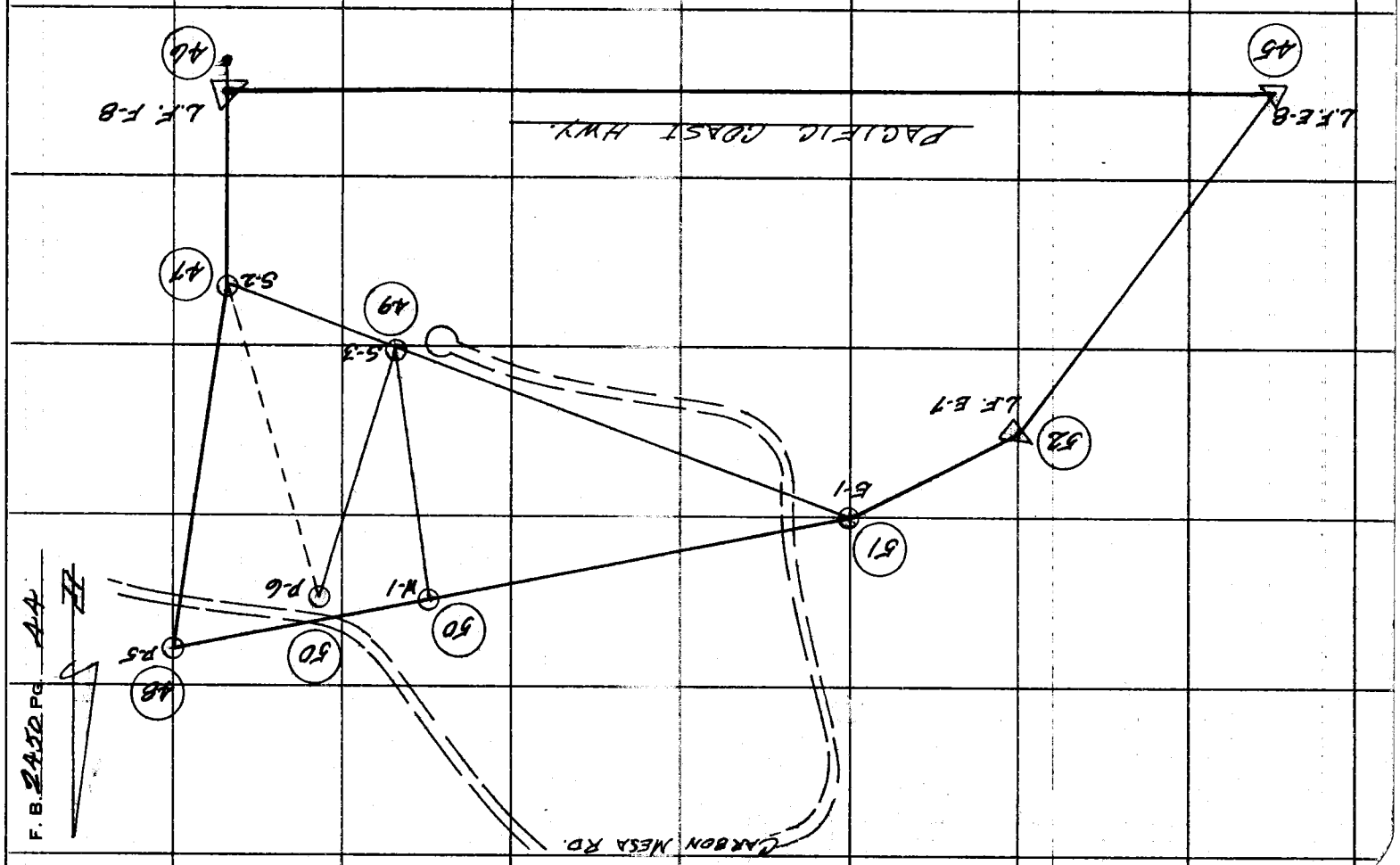
Do not extend this side of this line.

76F309 CE#310 3-69

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

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

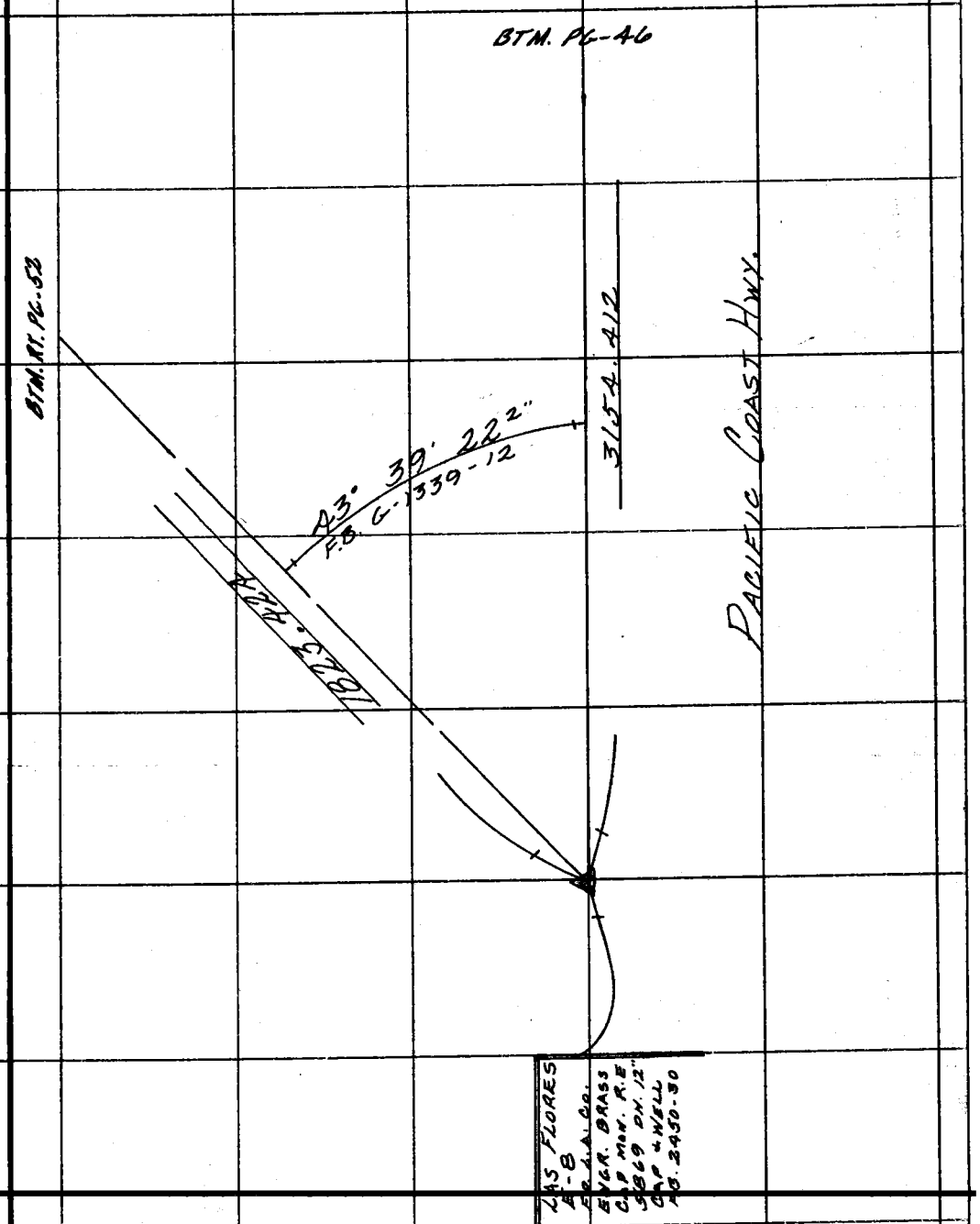
Do not extend this side of this line.



F. B. 2450 PG. 44

Notes Ck'd by	Survey of CARBON MESA LANDSLIDE
Map No.	JN 0021.92 Tape HP.#3 ~~Std~~ °F
Office Work	Surveyed by R. C. DALE
Checked	Notes M. E. W. Date JAN. 74
Date	Indexed G. D. BAILEY MAR 7 '74

F. B. 2450 PG. 45



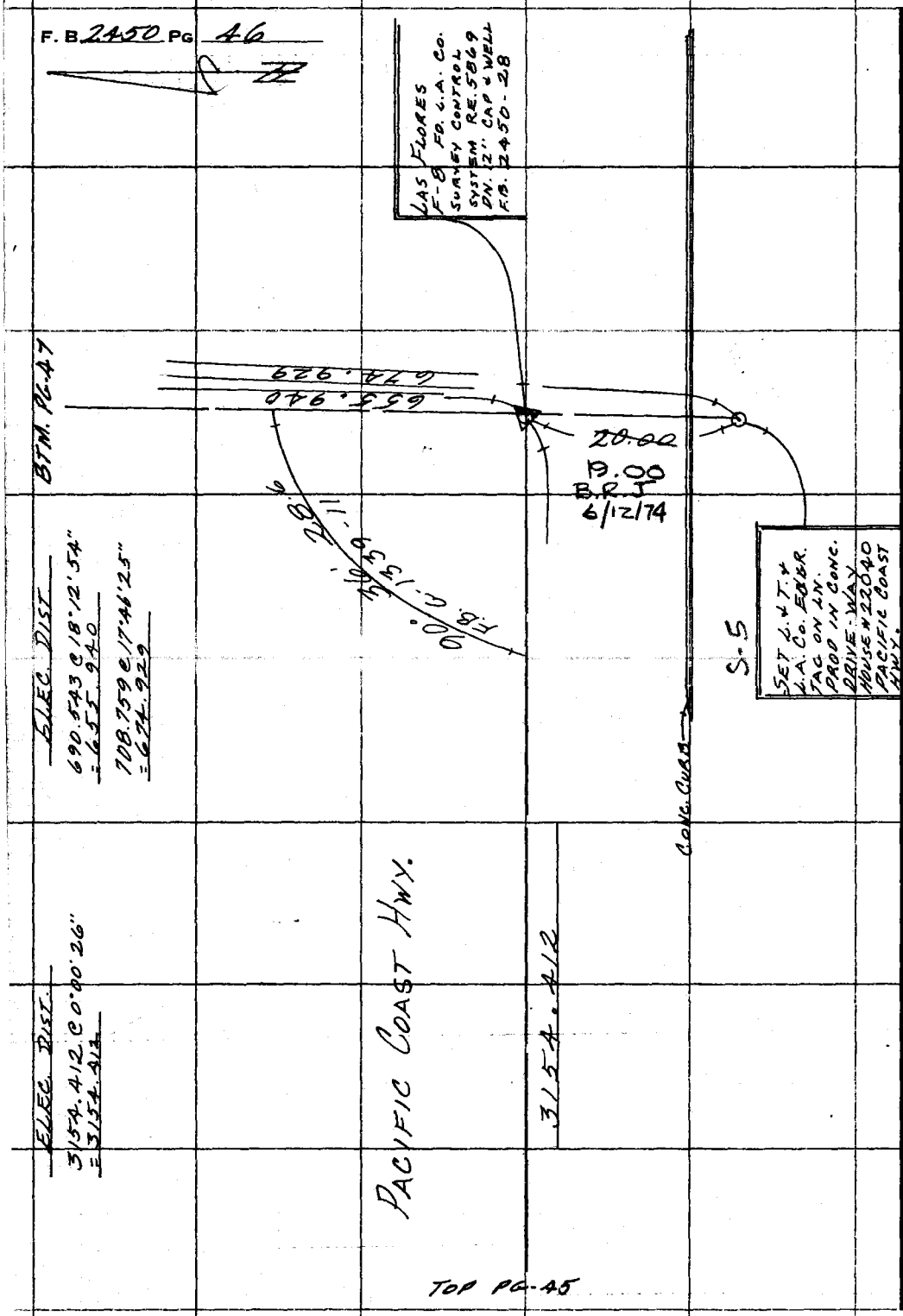
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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

Do not extend this side of this line.

76F309S CE#310 3-68

F. B. 2450 PG 46



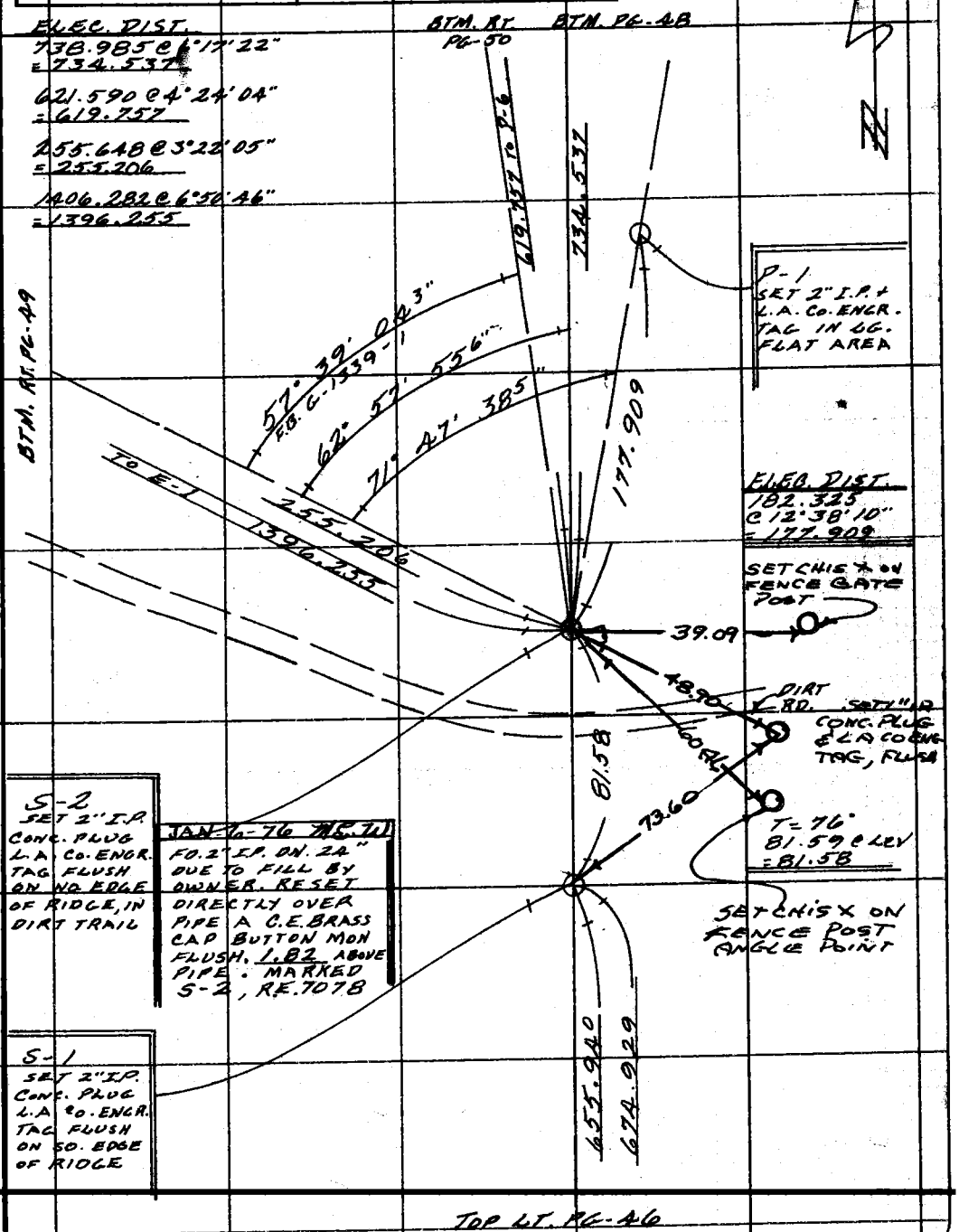
PLEASE RETURN TO
COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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 CARBON MESA LANDSLIDE
Map No.	JN 0021.92 Tape 211 Std 84 °F
Office Work	Surveyed by R.C. DALE
Checked	Notes M.E. WACKER Date JAN. 74
Date	Indexed G. D. BAILEY MAR 7 74

F. B. 2450 PG. 47

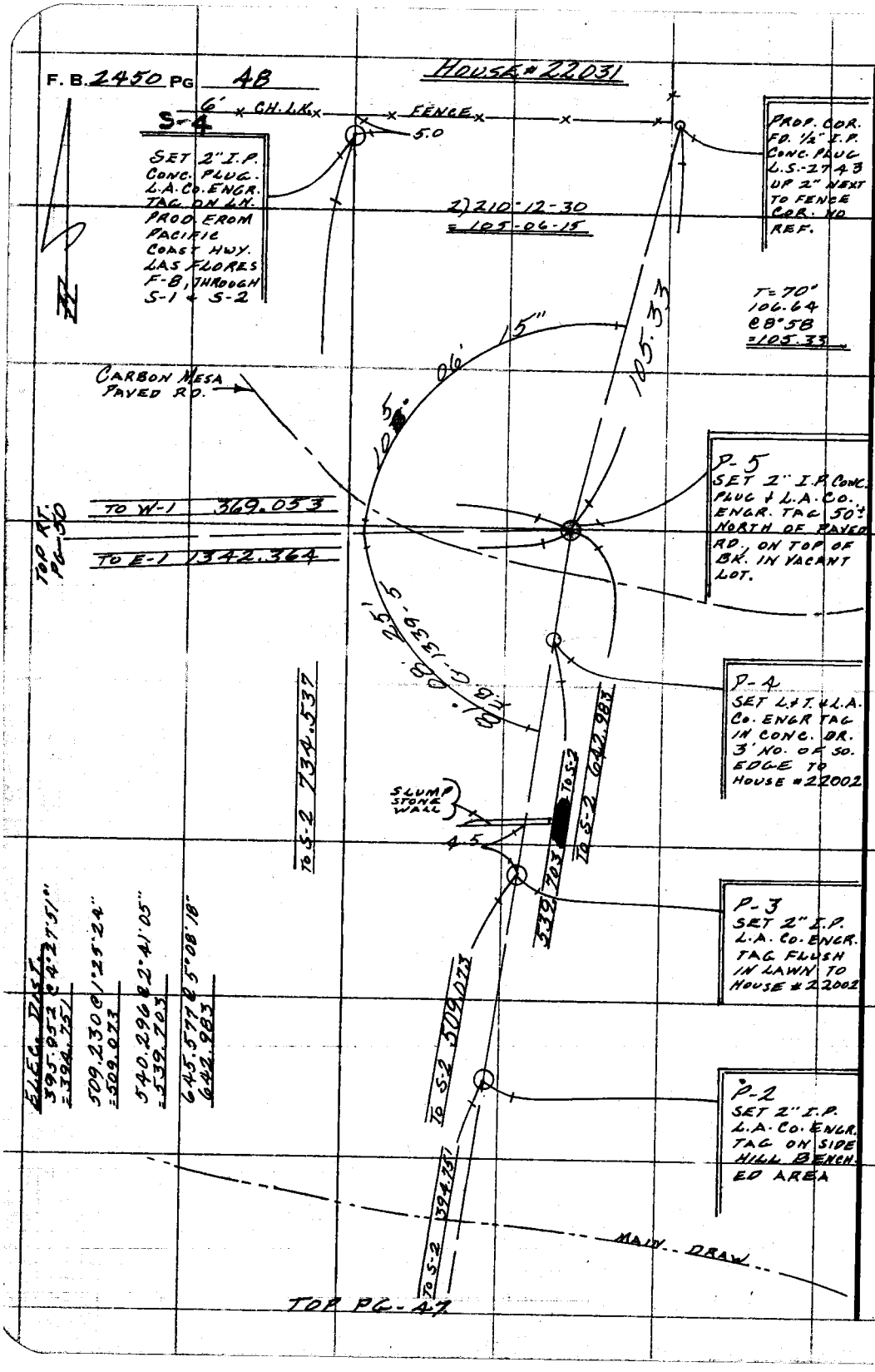


Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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

Do not extend this side of this line.

76F3095 CE#310 3-68



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

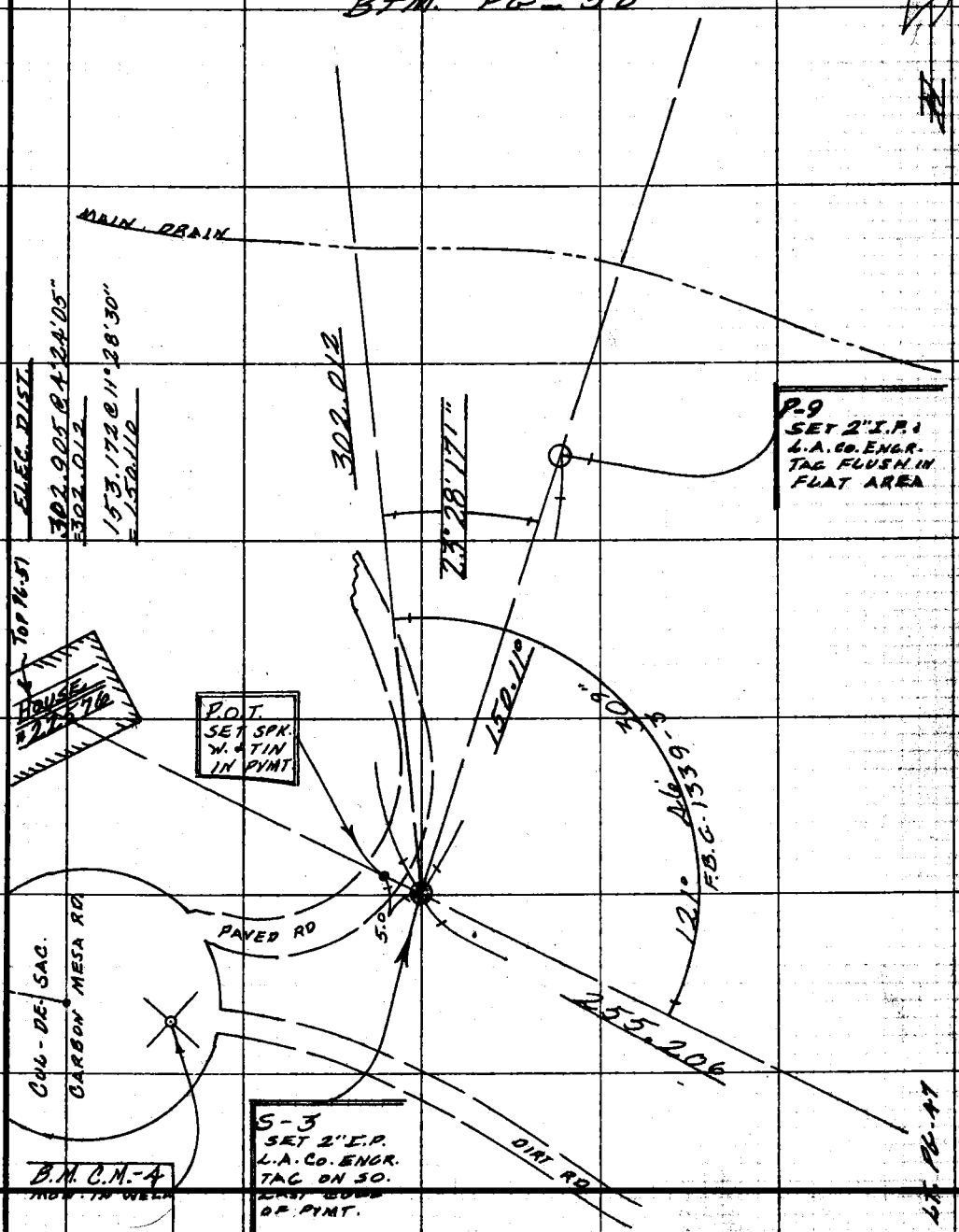
Do not extend this side of this line.

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 CARBON MESA LANDSLIDE
Map No.	JN 0021.92 Tape HP #3 Std °F
Office Work	Surveyed by R.C. DALE
Checked	Notes M.E. WACKER Date JAN. 74
Date	Indexed G.D. BAILEY MAR 7 74

F.B. 2450 PG. 49

BTM. PG. 50



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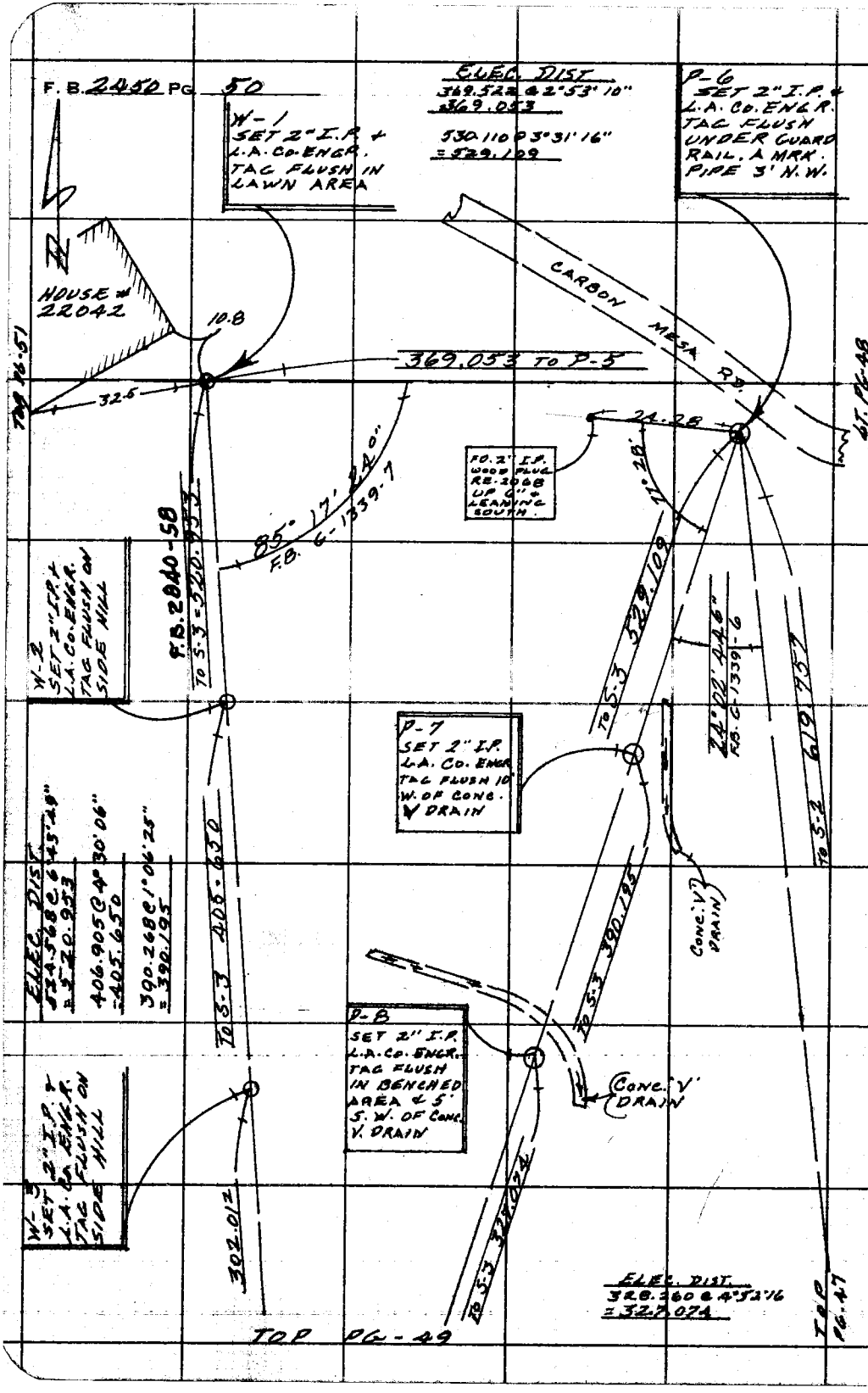
PLEASE RETURN TO
COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3096 CE#310 3-69



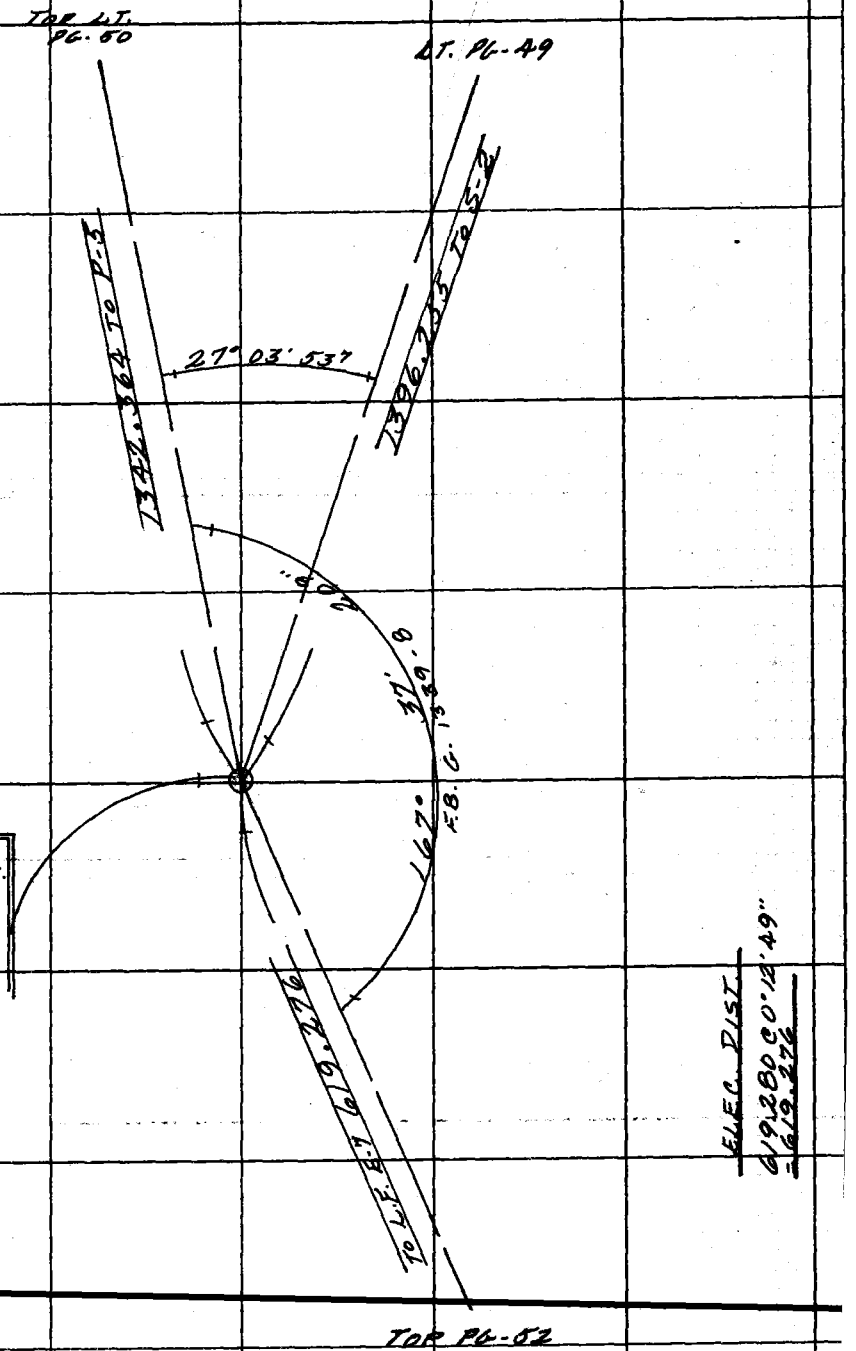
PLEASE RETURN TO
COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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 CARBON MESA LANDSLIDE
Map No.	JN 0021.92 Tape H.P. #3 °F
Office Work	Surveyed by R.C. DALE
Checked	Notes M.E. WACKER Date JAN-74
Date	Indexed G. D. BAILEY 7/74

F. B. 2450 PG. 51



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

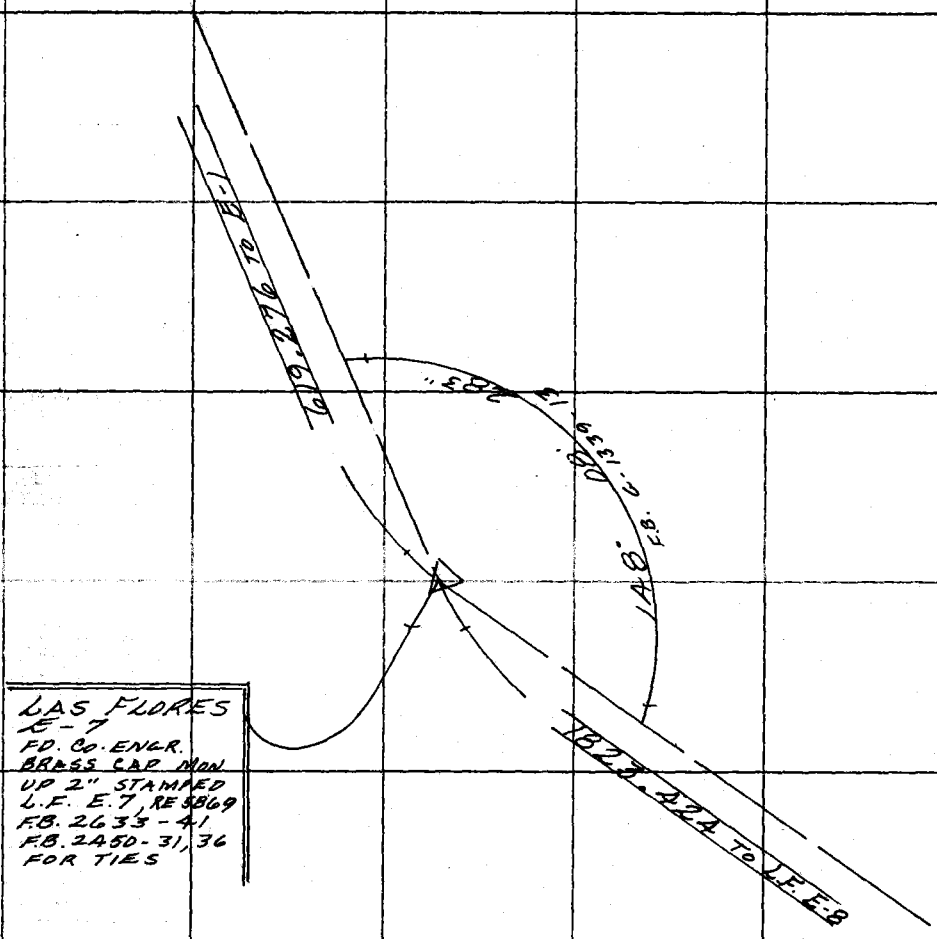
PLEASE RETURN TO
COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend this side of this line.

76F309 CE#310 3-68

F. B 2450 PG 52

BTM. PG-51



ELEC. DIST.

1862.910 @ 11°49'04"
-1823.424

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

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

Do not extend this side of this line.

Uha rict

COU ENGINEER
REPLY ___ CTN ___ INFO ___
REFD TO ___

Dec 18 9 24 AM '73

REPT TO ___ PREP REPLY ___
HTB ___ RKW ___ JTR ___
THA ___ RJR ___ RTR ___

December 14, 1973

TO: Mr. George J. Franceschini, Division Engineer
Survey Division

FROM: S. H. Miller

SUBJECT: LAND MOVEMENT CARBON MESA J.N. 0021.92

Attached is a map showing another area in Carbon Mesa area of Malibu where land movement has badly damaged one house (22002 Carbon Mesa Road) and threatening to damage another (22042 Carbon Mesa Road).

Would you please have your survey crews establish a control system that could monitor this slide?

Thank you for your help. MR. RUDERIAN

Sam H. Miller
Sam H. Miller
Regional Engineer

SHM:gm R-3
ATTACHMENT

dc: Building & Safety File

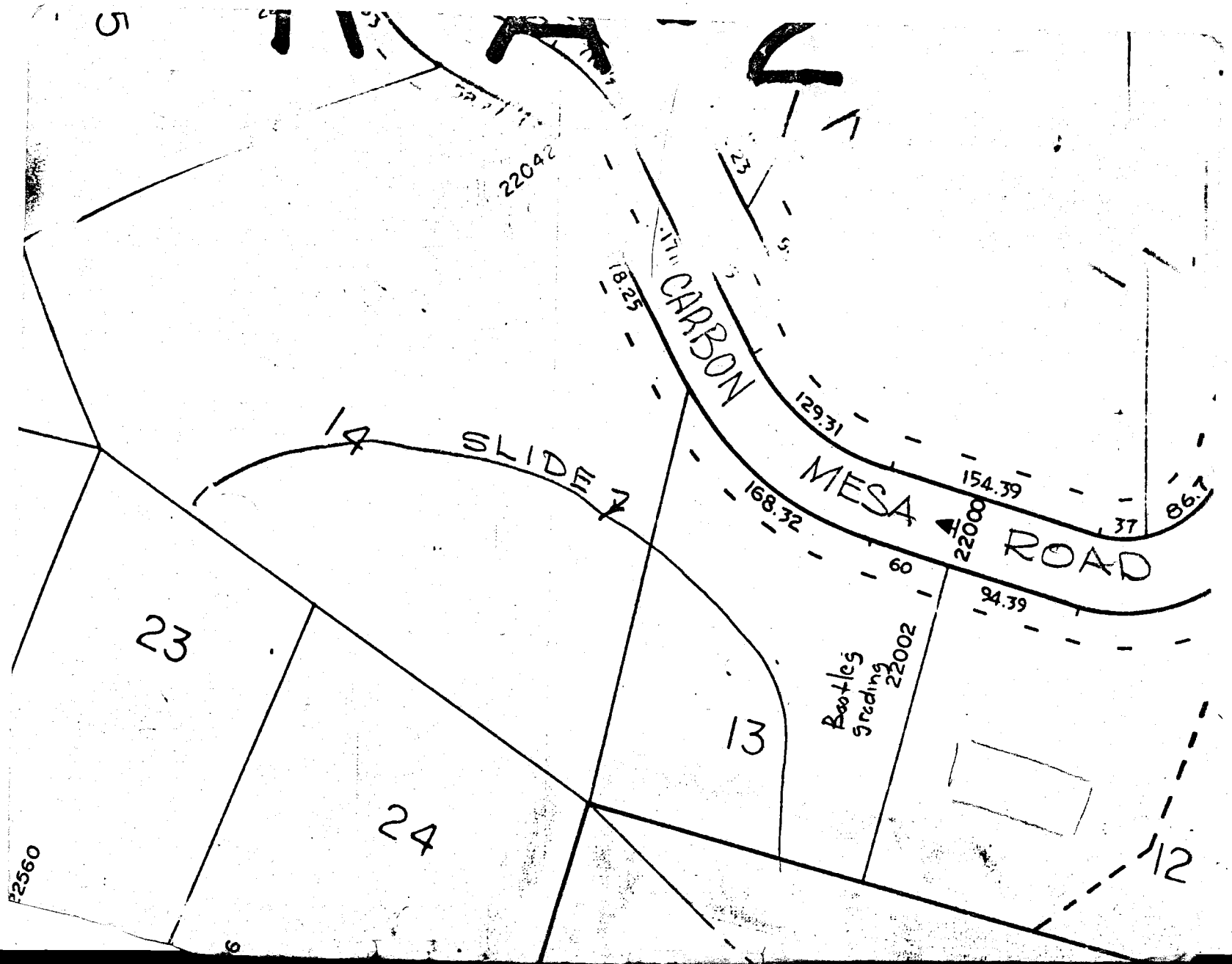
J.M.U.
Please have field engineer consult with J. McMillan before beginning work on this request.
R.J. Mitchell

To: Stock

(A)

12-18-73
J.M.U.

4559-I



CARBON
MESA
ROAD
SLIDE 7
14
23
24
13
12
22042
18.25
129.31
154.39
168.32
22000
60
94.39
37
86.7
Bootleg grading
22002
2560

Notes Ck'd by	Survey of CARBON MESA LANDSLIDE
Map No.	JN 0021.92 Tape H.P.#3 ~~Std~~ °F
Office Work	Surveyed by R.C. DALE
Checked	Notes M.E.W. Date 25-JAN-74
Date	Indexed G. D. BAILEY MAR 7 '74

F.B. 2450 PG. 53

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	S-2	2450-47	M.E.W	5.60		233.17
REFLECTOR	P-1	2450-47	W.J.D.	5.00		193.90

VERTICAL ANGLE

D	102° 38' 18"
R	257° 21' 58"
S	360° 00' 16"
M	12° 38' 10"

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G	P.P.M. CO2
60°	30.0	0

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 1[illegible].573 M

1 8 2 3 2 5

HORIZONTAL DISTANCE 54.227 M

1 7 7 9 0 9

CORRECT HORIZ. DIST.

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD. −BACK	ELEV.
3800A	S-2	2450-47	M.E.W.	5.60		233.7
REFLECTOR	P-2	2450-48	W.J.D.	5.72		202.20

VERTICAL ANGLE

D	94° 28' 02"
R	265° 32' 20"
S	360° 00' 22"
M	4° 27' 51"

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G.	P.P.M. COR.
60°	30.0	0

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 120.686 M

3 9 5 9 5 2

HORIZONTAL DISTANCE 120.[illegible] M

3 9 4 7 5 1

CORRECT HORIZ. DIST.

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

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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CENTERLINE NOTES CE 310 76F3095-4/73

Notes Ck'd by	Survey of CARBON MESA LANDSLIDE
Map No.	JN 0021.92 Tape H.P. # 3 Std °F
Office Work	Surveyed by R.C. DALE
Checked	Notes M.E.W Date 25-JAN-74
Date	Indexed G. D. BAILEY MAR 7 '74

F.B. 2450 PG. 54

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	S-2	2450-47	M.E.W.	5.60		233.17
REFLECTOR	P-3	2450-48	K.C.D.	5.50		245.92

VERTICAL ANGLE

D	88° 34' 44"
R	271° 25' 32"
S	360° 00' 16"
M	1° 25' 24"

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G	P.P.M. COR.
60°	30.0	0

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 1508.214 H.

		5	0	9	2	3	0

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE 1508.146 H.

		5	0	9	0	7	3

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	S-2	2450-47	M.E.W.	5.60		233.17
REFLECTOR	P-4	2450-48	K.C.D.	5.00		259.07

VERTICAL ANGLE

D	87° 19' 05"
R	272° 41' 15"
S	360° 00' 20"
M	2° 41' 05"

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G.	P.P.M. COR
60°	30.0	0

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 1540.683 H.

		5	4	0	2	9	6

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE 1624.500 H.

		5	3	9	7	0	3

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

CORRECT HORIZ. DIST.

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.

CENTERLINE NOTES
CE 310
76F3095-4/73

Notes Ck'd by	Survey of CARBON MESA LANDSLIDE
Map No.	JN C021.92 Tape H.P.# 3 °F
Office Work	Surveyed by R.C. DALE
Checked	Notes M.E.W. Date 25-JAN-74
Date	Indexed G. D. BAILEY MAR 7 '74

F.B. 2400 PG. 55

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	S-2	2450-47	M.E.W.	5.60		233.17
REFLECTOR	P-5	2450-48	R.C.D.	5.20		291.34

VERTICAL ANGLE

D	84° 51' 51"
R	275° 08' 27"
S	360° 00' 18"
M	5° 08' 18"

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G	P.P.M. COR.
60°	30.0	0

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 646377

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE 642983

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	S-3	2450-49	M.E.W.	5.60		248.46
REFLECTOR	P-6	2450-50	R.C.D.	5.22		281.42

VERTICAL ANGLE

D	86° 28' 50"
R	273° 31' 31"
S	360° 00' 30"
M	3° 31' 16"

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G.	P.P.M. COR.
66°	30.0	+03

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 530110

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE 529109

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

CORRECT HORIZ. DIST.

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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CENTERLINE NOTES
CE 310
76F3095-4/73

Notes Ck'd by	Survey of CARBON MESA LANDSLIDE
Map No.	JN 0021.92 Tape HP #3 ~~Std~~ °F
Office Work	Surveyed by R.C. DALE
Checked	Notes M.E.W. Date 25 JAN 74
Date	Indexed G. D. BAILEY MAR 7 '74

F.B. 2450 PG. 56

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	S-2	2450-47	M.E.W.	5.60		233.17
REFLECTOR	S-3	2450-49	R.C.D.	5.28		248.46

VERTICAL ANGLE

D	86° 38' 03
R	273° 22' 13"
S	360° 00' 16"
M	3° 22' 05"

+16 −8

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G	P.P.M. COR.
60°	30.0	0

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 77.722 M

2 5 5 6 4 8

HORIZONTAL DISTANCE 77.787 M

2 5 5 2 0 6

CORRECT HORIZ. DIST.

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD. −BACK	ELEV.
3800A	S-2	2450-47	M.E.W.	5.60		233.17
REFLECTOR	E-1	2450-51	W.J.D.	5.80		400.62

VERTICAL ANGLE

D	83° 09' 24"
R	276° 50' 56"
S	360° 00' 20"
M	6° 50' 46"

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G	P.P.M. COR.
60°	30.0	0

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 423.636 M

1 4 0 6 2 8 2

HORIZONTAL DISTANCE 425.579 M

1 3 9 6 2 5 5

CORRECT HORIZ. DIST.

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

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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CENTERLINE NOTES
CE 310
76F3095-4/73

Notes Ck'd by	Survey of CARBON MESA LANDSLIDE
Map No.	JN 0021.92 Tape H.P. # 3 Std °F
Office Work	Surveyed by R.C. DALE
Checked	Notes M.E.W. Date 25 JAN. '74
Date	Indexed G. D. BAILEY MAR 7 '74

F.B. 2450 PG. 57

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	S-3	2450-49	M.E.W.	5.60		248.46
REFLECTOR	D-7	2450-50	W.J.D.	5.55		240.99

VERTICAL ANGLE

D	91° 06' 36"
R	268° 53' 46"
S	360° 00' 22"
M	1° 06' 25"

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G	P.P.M. COR.
66°	30.0	+03

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 1" = 95' M.

3902688

HORIZONTAL DISTANCE 1" = 132' M.

3901955

CORRECT HORIZ. DIST.

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD. −BACK	ELEV.
3800A	S-3	2450-49	M.E.W	5.60		248.46
REFLECTOR	P.8	2450-50	W.J.D.	5.50		220.64

VERTICAL ANGLE

D	92° 52' 23"
R	265° 07' 51"
S	360° 00' 14"
M	1° 52' 16"

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G	P.P.M. COR.
66°	30.0	+03

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 1" = 100' M.

3282600

HORIZONTAL DISTANCE 1" = 132' M.

3270774

CORRECT HORIZ. DIST.

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

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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CENTERLINE NOTES
CE 310
76F3095-4/73

Notes Ck'd by	Survey of CARBON MESA LANDSLIDE
Map No.	JN 00.21.92 Tape H.P. * 3 Std °F
Office Work	Surveyed by R. C. DALE
Checked	Notes M.E.W. Date 25 JAN 74
Date	Indexed G. D. BAILEY MAR 7 '74

F.B. 2450 PG. 58

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	S-3	2450-49	M.E.W.	5.60		248.46
REFLECTOR	P-9	2450-49	W.J.D.	4.62		219.02

VERTICAL ANGLE

D	101° 28' 35"
R	258 31' 35"
S	360° 00' 10"
M	11° 28' 30"

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G	P.P.M. COR.
60°	30.0	0

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 46.687 M

		1	5	3	1	7	2

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE 45.754 M

		1	5	0	1	1	0

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	S-3	2450-49	M.E.W.	5.60		248.46
REFLECTOR	W-1	2450-50	W.J.D.	5.62		309.93

VERTICAL ANGLE

D	83 16 15
R	276° 43' 53"
S	360° 00' 08"
M	6° 43' 49"

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G	P.P.M. COR.
66°	30.0	+03

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 159.829 M

		5	2	4	5	6	8

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE 158.787 M

		5	2	0	9	5	3

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

CORRECT HORIZ. DIST.

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

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CENTERLINE NOTES
CE 310
76F3095-4/73

Notes Ck'd by	Survey of CARBON MESA LANDSLIDE
Map No.	JN 002192 Tape H.P. #3 Std °F
Office Work	Surveyed by R. C. DALE
Checked	Notes N.E.W Date 25 JAN 74
Date	Indexed G. D. BAILEY MAR 7 '74

F.B. 2450 PG. 59

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	S-3	2450-49	M.E.W.	5.60		248.46
REFLECTOR	W-2	2450-50	W.J.D.	4.98		280.91

VERTICAL ANGLE

D	85° 30' 03"
R	274° 30' 15"
S	360° 00' 18"
M	4° 30' 06"

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G	P.P.M. COR.
66°	30.0	+03

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 1240.025 M

4069 05

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE 1240.022 M

4056 50

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	S-3	2450-49	M.E.W.	5.60		248.46
REFLECTOR	W-3	2450-50	W.J.D.	5.05		225.73

VERTICAL ANGLE

D	94° 24' 13"
R	265° 36' 03"
S	360° 00' 16"
M	4° 24' 05"

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G	P.P.M. COR.
66°	30.0	+03

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 923.264 M

3029 05

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE 923.053 M

3020 12

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

CORRECT HORIZ. DIST.

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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CENTERLINE NOTES
CE 310
76F 3095 4/73

Notes Ck'd by	Survey of CARSON MESA LANDSLIDE
Map No.	JN 0021.92 Tape H.P. # 3 ~~Std~~ °F
Office Work	Surveyed by R. C. DALE
Checked	Notes DARVIS Date 28 JAN 74
Date	Indexed G. D. BAILEY MAR 7 '74

F.B. 2450 PG. 60

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	P-5	2450-48	WACKER	5.00		291.34
REFLECTOR	W-1	2450-50	DEITZ	4.95		309.93

VERTICAL ANGLE

D	87-07-00
R	272-53-20
S	360-00-20
M	02-53-10

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G.	P.P.M. COR.
68°	30.0	+04

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 112.491 M

0	0	3	6	9	5	2	2

HORIZONTAL DISTANCE 112.482 M

		3	6	9	0	5	3

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD. −BACK	ELEV.
3800A	P-5	2450-48	WACKER	5.00		291.34
REFLECTOR	E-1	2450-51	DEITZ	5.72		400.62

VERTICAL ANGLE

D	85-19-18
R	274-41-07
S	360-00-25
M	04-40-54.5

+25
-12.5

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G.	P.P.M. COR.
68°	30.0	+04

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 410.323 M

0	1	3	4	6	8	5	8

HORIZONTAL DISTANCE 410.193 M

	1	3	4	2	3	6	4

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

CORRECT HORIZ. DIST.

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CENTERLINE NOTES
CE 310
76F3095-4/73

Notes Ck'd by	Survey of CARBON MESA LANDSLIDE
Map No.	JN 202192 Tape H.P.# 3 °F
Office Work	Surveyed by R.C. DALE
Checked	Notes DAVIS Date 28-JAN-74
Date	Indexed G. D. BAILEY MAR 7 '74

F.B. 2450 PG. 61

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	S-2	2450-47	WACKER	5.75		233.17
REFLECTOR	LN. PROD NORTH 1st IP S-4	2450-48	DIETZ	4.85		315.00

VERTICAL ANGLE

D	83-42-41
R	276-17-25
S	360-00-06
M	06'-17'-22"

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G	P.P.M. COR.
62°	30	+1

VERTICAL ANGLE

D	
R	
S	
M	

406 -03

SLOPE DISTANCE (FEET) 223.243 M.

0	0	7	3	8	9	8	5

HORIZONTAL DISTANCE 223.287 M.

		7	3	4	5	3	7

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	S-2	2450-47	WACKER	5.75		233.17
REFLECTOR	D-6	2450-50	DIETZ	5.20		281.42

VERTICAL ANGLE

D	85-36-08
R	274-24-16
S	360-00-24
M	04'-24'-04"

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G	P.P.M. COR.
62°	30	+1

VERTICAL ANGLE

D	
R	
S	
M	

+24 -12

SLOPE DISTANCE (FEET) 187.861 M.

0	0	6	2	1	5	0	0

HORIZONTAL DISTANCE 122.902 M.

		6	1	9	7	5	7

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

CORRECT HORIZ. DIST.

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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CENTERLINE NOTES
CE 310
76F3095-4/73

Notes Ck'd by	Survey of CARBON MESA LANDSLIDE
Map No.	JN 0021.92 Tape H.P.# 3 STD °F
Office Work	Surveyed by M.E. WACKER
Checked	Notes M.E.W. Date 29-JAN-74
Date	Indexed G. D. BAILEY MAR 7 '74

F.B. 2450 PG. 62

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV
3800A	LAS FLORES E-8	2450-46	M.E.W.	6.55		15.69
REFLECTOR	LAS FLORES E-8	2450-45	V.L.H.	7.10		14.00

VERTICAL ANGLE

D	90° 00' 28"
R	269° 59' 36"
S	360° 00' 04"
M	0° 00' 26"

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G.	P.P.M. COR.
54°	30.3	-05

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 961.467 M

3 1 5 4 4 1 2

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE 961.467

3 1 5 4 4 1 2

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV
3800A	LAS FLORES E-8	2450-46	M.E.W.	6.55		15.69
REFLECTOR	S-1	2450-47	W.J.D.	5.17		232.82

VERTICAL ANGLE

D	71° 47' 26"
R	288° 13' 14"
S	360° 00' 40"
M	18° 12' 54"

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G.	PPM COR.
54°	30.3	-05

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 210.478 M

6 9 0 5 4 3

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE 199.931 M

6 5 5 9 4 0

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

CORRECT HORIZ. DIST.

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CENTERLINE NOTES
CE 310
76F3095-4/73

Notes Ck'd by	Survey of CARBON MESA LANDSLIDE F.B. 2450 PG. 63
Map No.	JN 0021.92 Tape H.P. #3 Std °F
Office Work	Surveyed by M.E. WACKER
Checked	Notes W.J.D. Date 29-JAN-74
Date	Indexed G.D. BAILEY MAR 7 '74

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	LAS FLORES E-8	2450-45	WACKER	6.05		14.00
REFLECTOR	LAS FLORES E-7	2450-52	DARVIS	5.62		377.8

VERTICAL ANGLE

D	78° 11' 02"
R	281° 49' 09"
S	360° 00' 11"
M	11° 49' 04"

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G	P.P.M. Cor.
60°	30.3	-03

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 567.216 H

	1	8	6	2	9	1	0

HORIZONTAL DISTANCE 565.781

	1	8	2	3	4	2	4

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD. −BACK	ELEV.
3800A	E-1	2450-51	M.E.W.	5.03		401.62
REFLECTOR	LAS FLORES E-7	2450-52	W.J.D.	5.78		377.8

VERTICAL ANGLE

D	90° 12' 55"
R	269° 47' 17"
S	360° 00' 12"
M	0° 12' 49"

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G	PPM. Cor.
74°	30.4	+05

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 188.157 H

		6	1	9	2	8	0

HORIZONTAL DISTANCE 188.116 H

		6	1	9	2	7	5

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

CORRECT HORIZ. DIST.

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

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LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

CENTERLINE NOTES
CE 310
76F3095-4/73

Notes Ck'd by	Survey of CARBON MESA LANDSLIDE
Map No.	JN 0021.92 ~~Tape~~ H.P.#3 ~~Std~~ °F
Office Work	Surveyed by M.E. WACKER
Checked	Notes DARVIS Date 29 JAN 74
Date	Indexed G. D. BAILEY MAR 7 '74

F.B. 2450 PG. 64

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV
3800A	S-1	2450-47	M.E.W.	5.60		2,82
REFLECTOR	LN. PROD. 19' SO. OF LAS FLORES F.B	2450-46	W.J.D.			16.0

VERTICAL ANGLE

D	107-46-45
R	252-13-55
S	360-00-40
M	17-46-25

+40 −20

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G.	PPM COR.
64°	30.2	0

VERTICAL ANGLE

D	107-44-50
R	252-15-32
S	360-00-22
M	17-44-39

HI = 5.22

SLOPE DISTANCE (FEET) 216.030

0	0	7	0	8	7	5		

SLOPE DISTANCE (FEET) 215.994

0	0	7	0	8	6	4	1	

HORIZONTAL DISTANCE 205.711

0	0	6	7	4	9	2	9	

HORIZONTAL DISTANCE

0	0	6	7	4	9	2	9	

CORRECT HORIZ. DIST

COR.

	STATION	F.B.	OBSERVER	H.I.	TR −3	ELEV
3800A						
REFLECTOR						

VERTICAL ANGLE

D	
R	
S	
M	

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G.	PPM COR.

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET)

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

CORRECT HORIZ. DIST.

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ENTERLINE NOTES
CE 310
76F3005-4/73

NOTES RED. _____ JOB NO. 0021.92 SURVEY OF CARBON MESA LANDSLIDE | F. B. 2450 PG. 65

DATE _____ SURVEY BY M.E. WACKER

NOTES CHKD. PAW NOTES BY M.E. WACKER DATE FEB-4-74

DATE 3-14-74 INDEXED G. D. BAILEY DATE MAR 7 '74

J.N. 0021.92

PRECISE LEVEL NET

CARBON MESA

LANDSLIDE AREA

BENCH LEVELS

PARTY:

DALE

WACKER

DARVIS

DIETZ

DESCRIPTION

ADJ. ELEV.

3RD RUN

2ND RUN

DIFF.

1ST RUN

B.M.

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

Do not extend notes this side of this line

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768420 S & E-353 9-55

NOTES RED. _____ JOB NO. 0021.92 SURVEY OF CARBON MESA LANDSLIDE | F. B. 2450 PG. 65

DATE _____ SURVEY BY N.E. WACKER

NOTES CHKD. PAW NOTES BY M.E. WACKER DATE FEB-4-74

DATE 3-14-74 INDEXED G. D. BAILEY DATE MAR 7 '74

J.N. 0021.92

PRECISE LEVEL NET

CARBON MESA

LANDSLIDE AREA

BENCH LEVELS

PARTY:

DALE

WACKER

DARVIS

DIETZ

DESCRIPTION

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.

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.

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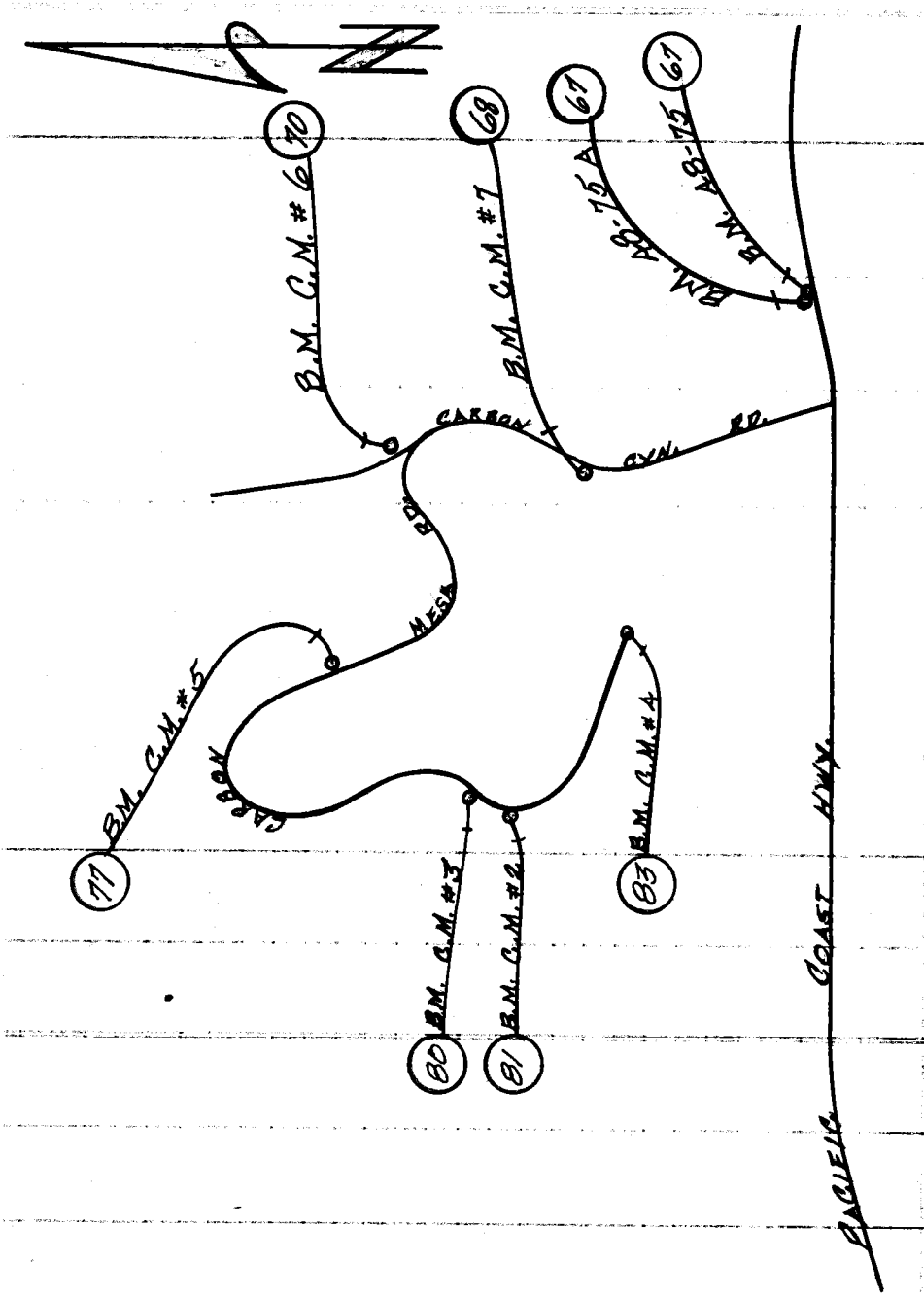
F. B. 2450 PG. 66

JOB NO. 0021.92 SURVEY OF CARBON MESA LANDSLIDE NOTES RED.

SURVEY BY M. E. WACKER DATE

NOTES BY M. E. WACKER DATE JAN. 74 NOTES CHKD.

INDEXED G. D. BAILEY DATE MAR 7 '74 DATE



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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION

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Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
B.M. 48-75	15.276					B.M. 48-75, ELEV. = 15.276
	4.983		4.953			1970 ADJ. PACIFIC COAST HWY. +
	20.259	+ 3.394	+ 3.391			CARBON CYN. RD. AT BRIDGE # 53-33.
	1.589		1.562			CITY OF LOS ANGELES BRASS BOLT
						SET IN THE CTR. OF THE NORTH CURB
						OF THE BRIDGE.
B.M. 48-75A	18.670					B.M. 48-75A, ELEV. = 18.668
	1.447		1.483			1970 ADJ. PACIFIC COAST HWY. +
	20.117	- 2.876	- 2.878			CARBON CYN. RD. AT BRIDGE # 53-33
	4.323		4.361			ON THE NORTH SIDE OF THE HWY.
T.P.	15.794					SET IN TOP OF THE NORTH CONC.
	8.720		8.787			GUARD RAIL OF BRIDGE, 0.8 FT. EAST
	24.514	+ 8.359	+ 8.360			OF THE WEST ANGLE PT. OF RAIL.
	0.361		0.427			A U.S. COAST + GEODETIC SURVEY
T.P.	24.153					BENCH MARK DISK. STAMPED
	11.316		11.349			B-1052, 1960
	35.469	+ 10.953	+ 10.951			
	0.363		0.398			
T.P.	35.106					
	8.583		8.673			
	43.689	+ 6.855	+ 6.855			
	1.728		1.818			
T.P.	41.961					
	9.753		9.822			
	51.714	+ 9.526	+ 9.524			
	0.227		0.298			
T.P.	51.487					

NOTES RED. JOB NO. 0021.92 SURVEY OF CARBON MESA LANDSLIDE
DATE SURVEY BY M. E. WACKER
NOTES CHKD. PEW NOTES BY M.E. WACKER DATE 4 FEB. 74
DATE INDEXED G. D. BAILEY DATE MAR 7 '74

F.B. 2460 PG. 67

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Do not extend notes this side of this line

JOB NO. 021.92 SURVEY OF Carbon Mesa Landslide NOTES RED. DATE
SURVEY BY M. E. WACKER DATE
NOTES BY M. E. WACKER DATE 4. FEB. 74 NOTES CHKD. Plan
INDEXED G. D. BAILEY DATE MAR 7 '74 DATE

F. B. 2452 PG. 68

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	51.487					
	11.317		11.432			
	62.804	+ 9.722	+ 9.721			
	1.595		1.711			
T.P.	61.209					
	4.959		5.001			
	66.168	+ 0.599	+ 0.599			
	4.360		4.402			
T.P.	61.808					
	5.827		5.890			
	67.635	+ 2.295	+ 2.294			
	3.532		3.596			
B.M. C.M.-7	64.103					B.M. CARBON MESA #7, ELEV.= CARBON CYN. RD. (WEST SIDE) ABOUT 0.2 MI. NLY. OF PACIFIC COAST HWY., 100 FT NLY. OF HOUSE #3859, 25 FT WEST OF ℄ PVMT.. A BT. SPK. IN LEAD IN THE TOP OF AN 'L' SHAPED CONC. HD. WALL. 0.6 FT. NORTH-WEST OF THE SO. EAST COR. MARKED B. M. C. M. - 7
	6.456		6.852			
	70.559	+ 6.183	+ 6.180			
	0.273		0.672			
T.P.	70.286					
	11.851		11.997			
	82.137	+ 11.354	+ 11.354			
	0.497		0.643			
T.P.	81.640					
	11.787		11.682			
	93.427	+ 11.306	+ 11.305			
	0.481		0.377			
T.P.	92.946					
	11.693		11.860			
	104.639	+ 11.309	+ 11.312			
	0.384		0.548			
	104.255					

76S420 S & E-353 9-55

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Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	104.255					
	11.699		11.810			
	115.954	+11.435	+11.434			
	0.264		0.376			
T.P.	115.690					
	11.772		11.863			
	127.462	+11.363	+11.361			
	0.409		0.502			
T.P.	127.053					
	11.742		11.868			
	138.795	+11.358	+11.358			
	0.384		0.510			
T.P.	138.411					
	10.702		10.779			
	149.113	+10.408	+10.407			
	0.294		0.372			
T.P.	148.819					
	11.363		11.667			
	160.182	+11.073	+11.074			
	0.290		0.593			
T.P.	159.892					
	11.217		11.403			
	171.109	+10.644	+10.643			
	0.573		0.760			
T.P.	170.536					
	9.866		9.814			
	180.402	+8.441	-8.439			
	1.425		1.375			
B.M. C.M.#6	178.977					B.M. CARBON MESA #6

NOTES RED. JOB NO. 0021.92 SURVEY OF CARBON MESA LANDSLIDE
DATE SURVEY BY M. E. WACKER
NOTES CHKD. NOTES BY M. E. WACKER DATE 4-FEB. 74
DATE INDEXED G. D. BAILEY DATE MAR 7 '74

F. B. 2450 PG. 69

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JOB NO. 0021.92 SURVEY OF Carbon Mesa Landslide NOTES RED. DATE
SURVEY BY M.E. WACKER DATE 5-FEB. 74 NOTES CHKD. [illegible]
NOTES BY M.E. WACKER DATE MAR 7 '74 DATE
INDEXED G.D. BAILEY DATE

F.B. 2450 PG. 70

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
B.M. C.M.-6	178.977					B.M. CARBON MESA #6 ELEV. = CARBON CYN. (MESA) RD. (EAST SIDE) ABOUT 0.4 MI NLY. OF PACIFIC COAST HWY., 90 FT. N. ELY. OF & PYM. OF CARBON MESA RD. & CARBON CYN. RD. 4 FT. SO. OF D.P., 25 FT. WEST OF THE N.W. COR. OF HOUSE # 3714. PROTECTED ON THE N.W. BY A LG. ROCK AND A 2" MKR. PIPE 2 FT. EAST. A STD. COUNTY ENGR. BUTTON MON. FLUSH. STAMPED B.M. C.M.-6, R.E. 7078
	6.941		6.889			
	185.918	+ 3.402	+ 3.404			
	3.539		3.485			
T.P.	182.379					
	10.377		10.403			
	192.756	+ 10.080	+ 10.081			
	0.297		0.322			
T.P.	192.459					
	11.499		11.524			
	203.958	+ 11.271	+ 11.269			
	0.228		0.255			
T.P.	203.730					
	11.512		11.522			
	215.242	+ 11.240	11.240			
	0.272		0.282			
T.P.	214.970					
	11.260		11.304			
	226.230	+ 11.070	11.068			
	0.190		0.236			
T.P.	226.040					
	11.446		11.477			
	237.486	+ 11.110	+ 11.110			
	0.336		0.367			
T.P.	237.150					
	11.204		11.234			
	248.354	+ 10.941	+ 11.940			
	0.263		0.294			
T.P.	248.091					

76S420 S & E-353 9-55

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Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	248.091					
	11.698		11.739			
	259.789	+10.977	+10.980			
	0.721		0.759			
P-4	259.068					
	0.517		0.690			
	259.585	-9.350	-9.352			
	9.867		10.042			
T.P	249.718					
	0.778		0.788			
	250.496	-3.795	-3.795			
	4.573		4.583			
P-3	245.923					
	3.752		3.718			
	249.675	-4.932	-4.930			
	8.684		8.648			
P-7	240.991					
	1.890		1.809			
	242.881	-9.587	-9.585			
	11.477		11.394			
T.P.	231.404					
	0.737		0.694			
	232.141	-10.763	-10.763			
	11.500		11.457			
P-8	220.641					
	0.563		0.535			
	221.204	-9.527	-9.529			
	10.090		10.064			
T.P.	211.114					

NOTES RED. JOB NO 0021.92 SURVEY OF CARBON MESA LANDSLIDE F. B. 2450 PG. 71
DATE SURVEY BY M. E. WACKER
NOTES CHKD. Paul NOTES BY M. E. WACKER DATE 5-FEB. 74
DATE INDEXED G. D. BAILEY DATE 8 MAR 7 '74

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JOB NO. 021.92 SURVEY OF Carson Mesa Landslide NOTES RED. DATE
SURVEY BY M.E. WACKER DATE NOTES CHKD. Paul
NOTES BY M.E. WACKER DATE 5-FEB. 74
INDEXED G.D. BAILEY DATE MAR 7 '74

F.B. 2450 PG. 72

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	211.814					
	2.083		2.003			
	213.197	- 8.909	- 8.909			
	10.992		10.912			
P-2	202.205					
	11.580		11.527			
	213.785	+ 9.782	+ 9.781			
	1.798		1.746			
T.P.	211.987					
	10.805		10.734			
	222.792	+ 9.382	+ 9.382			
	1.423		1.352			
T.P.	221.369					
	11.582		11.527			
	232.951	+ 11.328	+ 11.326			
	0.254		0.201			
T.P.	232.697					
	11.518		11.492			
	244.215	+ 11.189	+ 11.189			
	0.329		0.303			
T.P.	243.886					
	2.486		2.428			
	246.372	- 7.941	- 7.944			
	10.427		10.372			
T.P.	235.945					
	1.484		1.500			
	237.429	- 10.218	- 10.218			
	11.702		11.718			
W-3	225.727					

76S420 S & E-353 9-55

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Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
W-3	225.727					
	11.863		11.852			
	237.590	+10.216	+10.218			
	1.647		1.634			
T.P.	235.943					
	11.762		11.739			
	247.705	+7.940	+7.940			
	3.822		3.799			
T.P.	243.883					
	11.621		11.635			
	255.504	+11.404	+11.406			
	0.217		0.229			
T.P.	255.287					
	11.701		11.713			
	266.988	+11.036	+11.036			
	0.665		0.677			
T.P.	266.323					
	11.517		11.486			
	277.840	+11.243	+11.242			
	0.274		0.242			
T.P.	277.566					
	11.688		11.698			
	289.254	+3.342	+3.345			
	8.346		8.353			
W-2	280.908					
	8.343		8.324			
	289.251	-3.343	-3.343			
	11.686		11.667			
T.P.	277.565					

NOTES RED. JOB NO. 0021.92 SURVEY OF Carbo Mesa Landslide
DATE SURVEY BY M.E. WACKER
NOTES CHKD. [illegible] NOTES BY M.E. WACKER DATE 5-FEB. 74
DATE INDEXED G. D. BAILEY DATE 7-74

F.B. 2450 PG. 73

769420 S & E-353 9-55

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JOB NO. 0021.92 SURVEY OF Carson Mesa Landslide NOTES RED. ____ DATE ____
SURVEY BY M. E. WACKER NOTES CHKD. Final
NOTES BY M.E. WACKER DATE 5-FEB. 74
INDEXED G. D. BAILEY DATE MAR 7 '74

F.B. 2450 PG. 74

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P	277.565					
	11.338		11.269			
	288.903	+ 3.859	+ 3.857			
	7.479		7.412			
P.6	281.424					
	0.534		0.501			
	281.958	- 10.879	- 10.882			
	11.413		11.383			
T.P.	270.545					
	0.247		0.241			
	270.792	- 11.484	- 11.484			
	11.731		11.725			
P.4	259.061					
	11.745		11.770			
	270.806	+ 11.483	+ 11.482			
	0.262		0.288			
T.P.	270.544					
	11.830		11.822			
	282.374	+ 11.373	+ 11.373			
	0.457		0.449			
T.P.	281.917					
	11.180		11.146			
	293.097	+ 10.098	+ 10.100			
	1.082		1.046			
T.P.	292.015					
	5.532		5.492			
	297.547	- 0.676	- 0.675			
	6.208		6.167			
P.5	291.339					

76S420 S & E-353 9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
P-5	291.339					
	11.662		11.641			
	303.001	+11.045	+11.044			
	0.617		0.597			
T.P.	302.384					
	10.614		10.599			
	312.998	+7.576	+7.578			
	3.038		3.021			
T.P.	309.960					
	9.202		9.234			
	319.162	+5.046	+5.048			
S-4 S-LINE PROD	4.156		4.186			
	315.006					
	0.220		0.204			
	315.226	-11.305	-11.306			
	11.525		11.510			
T.P.	303.701					
	7.724		7.743			
	311.425	+1.694	+1.694			
	6.030		6.049			
T.P.	305.395					
	9.617		9.627			
	315.012	+4.929	+4.928			
	4.688		4.699			
T.P.	310.324					
	5.426		5.413			
	315.750	-0.393	-0.391			
	5.819		5.804			
W-1	309.931					

NOTES RED ____ JOB NO. 0021.92 SURVEY OF Carbon Mesa Landslide
DATE ____ SURVEY BY M. E. Wacker
NOTES CHKD. Paul NOTES BY M. E. W. DATE 5-FEB. 74
DATE ____ INDEXED G. D. BAILEY DATE MAR 7 '74

F. B. 2450 PG. 75

76S420 S & E-353 9-55

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Do not extend notes this side of this line

JOB NO. 0021.92 SURVEY OF Carson Mesa Landslide NOTES RED. DATE
SURVEY BY M. E. W. ACKER DATE NOTES CHKD. Four
NOTES BY M. E. W. DATE 7 FEB. 74
INDEXED G. D. BAILEY DATE MAR 7 74

F.B. 2450 PG. 76

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
W-1	309.931					
	5.922		5.938			
	315.853	+0.392	+0.394			
	5.530		5.544			
T.P.	310.323					
	7.842		7.818			
	318.165	+7.515	+7.515			
	0.327		0.303			
T.P.	317.838					
	11.401		11.389			
	329.239	+10.814	+10.815			
	0.587		0.574			
T.P.	328.652					
	11.546		11.594			
	340.198	+11.255	+11.256			
	0.291		0.338			
T.P.	339.907					
	11.914		11.902			
	351.821	+11.647	+11.646			
	0.267		0.256			
T.P.	351.554					
	11.792		11.804			
	363.346	+11.455	+11.456			
	0.337		0.348			
T.P.	363.009					
	11.982		11.969			
	374.991	+11.668	+11.665			
	0.314		0.304			
T.P.	374.677					

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NOTES RED _____ JOB NO. 0021.92 SURVEY OF Carbon Mesa Landslide
DATE _____ SURVEY BY R. C. DALE DATE 7-FEB-74
NOTES CHKD. RCD NOTES BY M. E. W. DATE 7-FEB-74
DATE _____ INDEXED G. D. BAILEY DATE MAR 7 74

F. B. 2450 PG. 77

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	374.677					
	10.259		10.276			
	384.936	+ 9.112	+ 9.111			
	1.147		1.165			
T.P.	383.789					
	9.135		9.153			
	392.924	+ 8.250	+ 8.250			
	4.885		4.903			
B.M. C.M.-5	388.039					B.M. CARBON MESA # 5, ELEV. =
	9.136		9.144			CARBON MESA RD. (NO. EAST SIDE)
	397.175	+ 8.804	+ 8.803			0.8 MI. NLY. OF PACIFIC COAST HWY.
	0.332		0.341			20 FT. ELY. OF A PUNT. 40 FT. NLY
T.P.	396.843					OF PVT. DRIVE TO HOUSE # 22105.
	11.754		11.738			5 FT. SO. OF TRANSFORMER P. # 706222E.
	408.597	+ 11.367	+ 11.369			A 2" MKR. POST 3 FT. NLY. A STD.
	0.387		0.369			COUNTY ENGR. BUTTON MON. FLUSH.
T.P.	408.210					STAMPED. B.M. C.M. - 5, R.E. 7078.
	11.783		11.821			
	419.993	+ 11.550	+ 11.549			
	0.233		0.272			
T.P.	419.760					
	11.979		11.966			
	431.739	+ 11.722	+ 11.721			
	0.257		0.245			
T.P.	431.482					
	11.748		11.736			
	443.230	+ 11.441	+ 11.441			
	0.307		0.295			
T.P.	442.923					

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JOB NO. 002.92 SURVEY OF CARBON MESA LANDSLIDE NOTES RED. DATE
SURVEY BY R. C. DALE
NOTES BY M. E. W. DATE 7-FEB. 74 NOTES CHKD. DATE
INDEXED G. D. BAILEY DATE 7-14

F.B. 2450 PG. 78

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	442.923					
	11.795		11.774			
	454.718	+11.418	+11.417			
	0.377		0.357			
T.P.	454.341					
	11.466		11.428			
	465.807	+11.123	+11.124			
	0.343		0.304			
T.P.	465.464					
	11.513		11.530			
	476.977	+11.241	+11.244			
	0.272		0.286			
T.P.	476.705					
	11.215		11.235			
	487.920	+10.957	+10.957			
	0.258		0.278			
T.P.	487.662					
	11.680		11.722			
	499.342	+11.368	+11.369			
	0.312		0.353			
T.P.	499.030					
	11.697		11.731			
	510.727	+11.311	+11.309			
	0.386		0.422			
T.P.	510.341					
	6.498		6.475			
	516.839	-5.150	-5.149			
	11.648		11.624			
T.P.	505.191					

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	505.191					
	0.400		0.411			
	505.591	-11.453	-11.452			
	11.853		11.863			
T.P.	493.738					
	0.278		0.264			
	494.016	-11.432	-11.435			
	11.710		11.699			
T.P.	482.306					
	0.260		0.248			
	482.566	-11.514	-11.515			
	11.774		11.763			
T.P.	470.792					
	0.257		0.248			
	471.049	-9.502	-9.504			
	9.759		9.752			
T.P.	461.290					
	3.449		3.489			
	464.739	+0.217	+0.216			
	3.232		3.273			
T.P.	461.507					
	9.381		9.390			
	470.888	-1.628	-1.681			
	11.059		11.071			
T.P.	459.829					
	0.487		0.399			
	460.316	-11.220	-11.220			
	11.707		11.619			
T.P.	448.609					

NOTES RED_____ JOB NO. 0021.92 SURVEY OF CARSON MESA LANDSLIDE F.B. 2450 PG. 79
DATE_____ SURVEY BY R. C. DALE
NOTES CHKD._____ NOTES BY M. E. WACKER DATE 2-FEB-74
DATE_____ INDEXED G. D. BAILEY DATE [illegible] 7'74

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JOB NO. 0021.92 SURVEY OF Carbon Mesa Landslide NOTES RED. DATE
SURVEY BY R. C. DALE
NOTES BY M. E. WACKER DATE 7-FEB-74 NOTES CHKD. [illegible]
INDEXED G. D. BAILEY DATE MAR 7 '74 DATE

F. B. 2450 PG. 80

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	448.609					
	0.662		0.403			
	449.271	-11.078	-11.077			
	11.740		11.480			
T.P.	437.531					
	0.449		0.443			
	437.980	-11.173	-11.171			
	11.622		11.614			
T.P.	426.358					
	0.266		0.252			
	426.624	-11.466	-11.467			
	11.732		11.719			
T.P.	414.892					
	0.332		0.228			
	415.224	-11.409	-11.409			
	11.741		11.637			
T.P.	403.483					
	1.314		1.191			
	404.797	-2.008	-2.006			
	3.322		3.197			
B.M. C.M.-3	401.475					B.M. CARBON MESA #3, EL = 401.316
	0.508		0.494			1960, F.B. 2633-15, CARBON
	401.983	-2.554	-2.555			MESA RD. (WEST SIDE) 1.2 MI
	3.062		3.049			NLY. OF PACIFIC COAST HWY. 17 FT
T.P.	398.921					WEST OF ℄ PVMT. AND 5 FT NORTH
	5.460		5.448			OF P.P. # 893371E. A STD. C.S.
	404.381	+1.694	+1.691			BRASS CAP MON. STAMPED
	3.766		3.757			C.M. #3. A 2" MKR. PIPE 2.5' N.
E-1	400.615					

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NOTES RED _____ JOB NO. 0021.92 SURVEY OF Carbon Mesa Annexation
DATE _____ SURVEY BY R.C. DALE
NOTES CHKD RMW NOTES BY M.E. WACKER DATE 7-FEB-74
DATE _____ INDEXED _____ G.D. BAILEY DATE MAR 7 '74

F.B. 2450 PG. 81

Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
E-1	400.615					
	3.849		3.861			
	404.464	-1.690	-1.691			
	5.539		5.552			
T.P.	398.925					
	2.994		3.047			
	401.919	+2.551	+2.551			
	0.443		0.496			
T.P.	401.476					
	0.473		0.521			
	401.949	-11.134	-11.134			
	11.607		11.655			
T.P.	390.342					
	0.559		0.868			
	390.901	-11.069	-11.070			
	11.628		11.938			
T.P.	379.273					
	0.347		0.497			
	379.620	-11.291	-11.291			
	11.638		11.788			
T.P.	367.982					
	0.461		0.514			
	368.443	-10.839	-10.838			
	11.300		11.352			
B.M. C.M.-2	357.143					B.M. CARBON MESA #2, EL.= 356.989, 1960, F.B. 2633-14, CARBON MESA RD. (WEST SIDE) 1.3 MI. NLY. OF PACIFIC COAST HWY. 4' E. OF R.P. 893370E A STD. C.S. BRASS CAP MON SET FLUSH. STAMPED C.M. #2
	0.534		0.801			
	357.677	-11.189	-11.189			
	11.723		11.990			
T.P.	345.954					

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JOB NO. 002192 SURVEY OF Carbon Mesa Interceptor NOTES RED. ____ DATE ____
SURVEY BY R. C. DALE
NOTES BY M. E. WACKER DATE 7-FEB. 74 NOTES CHKD. RWW
INDEXED G. D. BAILEY DATE MAR 7 74 DATE ____

F. B. 2450 PG. 82

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	345.951					
	0.528		0.607			
	346.482	-11.274	-11.274			
	11.802		11.881			
T.P.	334.680					
	0.195		0.296			
	334.875	-11.194	-11.194			
	11.389		11.490			
T.P.	323.486					
	0.434		0.527			
	323.962	-11.238	-11.239			
	11.672		11.766			
T.P.	312.248					
	0.273		0.235			
	312.521	-10.903	-10.905			
	11.176		11.140			
T.P.	301.345					
	0.881		0.932			
	302.226	-10.749	-10.749			
	11.630		11.681			
T.P.	290.596					
	0.581		0.627			
	291.177	-11.068	-11.067			
	11.649		11.694			
T.P.	279.528					
	0.528		0.631			
	280.056	-11.250	-11.251			
	11.778		11.882			
T.P.	268.278					

765420 S & E-353 9-55

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NOTES RED _____ JOB NO. 0021.92 SURVEY OF Carbon Mesa Landslide
DATE _____ SURVEY BY R. C. DALE
NOTES CHKD. RCD NOTES BY M. E. KACKER DATE 8 FEB. 74
DATE _____ INDEXED G. D. BAILEY DATE MAR 7 '74

F. B. 2450 PG. 83

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	268.278					
	0.226		0.351			
	268.504	-11.018	=11.018			
	11.244		11.369			
T.P.	257.260					
	2.136		2.170			
	259.396	-4.211	-4.212			
	6.347		6.382			
B.M. C.M.-4	253.049					
	3.561		3.847			B.M. CARBON MESA-4, ELEV.=
	256.610	-4.584	-4.585			AT THE END OF CARBON MESA ROAD.
	8.145		8.432			(IN CUL-DE-SAC), 1.5 MI. NLY OF
S-3	248.465					PACIFIC COAST HWY. 30 FT. SO. ELY.
	1.183		1.092			FROM RAD. P.T., ON E. PROD FROM
	249.648	-8.676	-8.678			THE N.W. A COUNTY ENGR. BUTTON
	9.859		9.770			MON. ON 8" IN WELL & CAP IN PMT.
T.P.	239.789					STAMPED B.M. C.M.-4, R.E. 7078
	2.720		2.702			
	242.509	-6.621	-6.620			
	9.341		9.322			
S-2	233.168					
	6.091		6.127			
	239.259	-0.351	-0.349			
	6.442		6.476			
S-1	232.817					
	3.832		3.791			
	236.649	-7.722	-7.721			
	11.554		11.512			
T.P.	225.095					

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JOB NO. 0021.92 SURVEY OF Carbon Mesa Landslide NOTES RED. DATE
SURVEY BY R. C. Dale NOTES CHKD. [illegible]
NOTES BY M. E. Wacker DATE 8 FEB 74
INDEXED G. D. BAILEY DATE MAR 7 '74 DATE

F. B. 2450 PG. 84

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	225.095					
	1.123		1.096			
	226.218	-9.869	-9.868			
	10.992		10.964			
T.P	215.226					
	6.120		6.088			
	221.346	+3.789	+3.792			
	2.331		2.296			
P-9	219.015					
	1.731		1.687			
	220.746	-9.927	-9.931			
	11.658		11.618			
T.P.	209.088					
	0.732		0.946			
	209.820	-9.987	-9.988			
	10.719		10.934			
T.P.	199.101					
	4.100		4.056			
	203.201	-5.204	-5.205			
	9.304		9.261			
P-1	193.897					
	8.147		8.129			
	202.044	-3.590	-3.592			
	11.737		11.721			
T.P.	190.307					
	0.343		0.305			
	190.650	-10.280	-10.281			
	10.623		10.586			
T.P	180.027					

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NOTES RED _____ JOB NO. 0021.92 SURVEY OF Cable Mesa Landslide
DATE _____ SURVEY BY R. C. Dale
NOTES CHKD. Plan NOTES BY M. E. Wacker DATE 2-FEB-74
DATE _____ INDEXED C. D. Bailey DATE MAR 7 74

F. B. 2450 PG. 85

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	180.027					
	0.301		0.257			
	180.328	-11.266	-11.267			
	11.567		11.524			
T.P.	168.761					
	0.521		0.450			
	169.282	-10.208	-10.209			
	10.729		10.659			
T.P.	158.553					
	0.397		0.321			
	158.950	-11.157	-11.155			
	11.554		11.476			
T.P.	147.396					
	0.237		0.246			
	147.633	-10.825	-10.824			
	11.062		11.070			
T.P.	136.571					
	0.633		0.638			
	137.204	-10.726	-10.729			
	11.359		11.367			
T.P.	125.845					
	0.653		0.621			
	126.498	-11.040	-11.042			
	11.693		11.663			
T.P.	114.805					
	0.233		0.227			
	115.038	-11.313	-11.313			
	11.546		11.540			
T.P.	103.492					

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JOB NO. 022.92 SURVEY OF CARBON MESA LANDSLIDE NOTES RED. DATE
SURVEY BY R.C. DALE DATE NOTES CHKD. DATE
NOTES BY M.E. WACKER DATE 3-FEB. 74
INDEXED G.D. BAILEY DATE MAR 7 '74

F.B. 2450 PG. 86

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	103.492					
	0.274		0.287			
	103.766	-11.380	-11.380			
	11.654		11.667			
T.P.	92.112					
	0.478		0.494			
	92.590	-11.264	-11.266			
	11.742		11.760			
T.P.	80.848					
	0.488		0.274			
	81.336	-11.225	-11.224			
	11.713		11.498			
T.P.	69.623					
	1.751		1.773			
	71.374	-5.539	-5.540			
	7.290		7.313			
B.M.C.M.#7	64.084					B.M. CARBON MESA #7, ELEV.= F.B. 2450 - 68
	2.854		2.889			
	66.938	-2.368	-2.369			
	5.222		5.258			
T.P.	61.716					
	4.701		4.721			
	66.417	-2.402	-2.403			
	7.103		7.124			
T.P.	59.314					
	0.647		0.628			
	59.961	-10.527	-10.531			
	11.174		11.159			
T.P.	48.787					

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	48.787					
	1.478		1.397			
	50.265	-7.700	-7.701			
	9.178		9.098			
T.P.	41.087					
	1.737		1.711			
	42.824	-7.705	-7.710			
	9.442		9.421			
T.P.	33.382					
	1.072		1.043			
	34.454	-9.236	-9.237			
	10.308		10.280			
T.P.	24.146					
	0.416		0.403			
	24.562	-8.361	-8.359			
	8.777		8.762			
T.P.	15.785					
	4.563		4.603			
	20.348	-0.514	-0.515			
	5.077		5.118			
B.M. 48-75	15.271					B.M. 48-75, ELEV. = 15.276, 1970 ADJ. PACIFIC COAST HWY + CARBON CYN. RD. AT BRIDGE # 53-33. CITY OF LOS ANGELES, A BRASS BOLT SET IN THE CTR. OF THE NORTH CURB OF THE BRIDGE. F.B. 2450-67

Note: For purposes of this survey no adj. to elevations was made

NOTES RED ____ JOB NO. 0021.92 SURVEY OF Carbon Mesa Landslide
DATE ____ SURVEY BY R. C. DALE
NOTES CHKD. FAW NOTES BY M. E. WACKER DATE 8-FEB. 74
DATE ____ INDEXED G. D. BAILEY DATE MAR 7 '74

F.B. 2450 PG. 87

F. B. 2450 PG. 88

JOB NO. ______ SURVEY OF ______ NOTES RED. ______

SURVEY BY ______ DATE ______

NOTES BY ______ DATE ______ NOTES CHKD. ______

INDEXED ______ DATE ______ DATE ______

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION

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76S420 S & E-353 9-55

Notes Ck'd by	Survey of CARBON MESA LANDSLIDE AREA
Map No.	JN0021.92 Tape — Std — °F
Office Work	Surveyed by R.C. DALE
Checked	Notes B.C.D. Date 2-15-74
Date	Indexed G. D. BAILEY MAR 7 '74

F. B. 2450 PG. 89

CARBON MESA LANDSLIDE AREA

JN 0021.92

FEB 15 1974

ADDITIONAL ANGLES & ELECTRONIC DISTANCES ON OLD POINTS OF ORIGINAL LANDSLIDE SURVEY

REF

FB 2633-27-41

PARTY

R.C DALE
T. OHASHIE
M.E. WACKER

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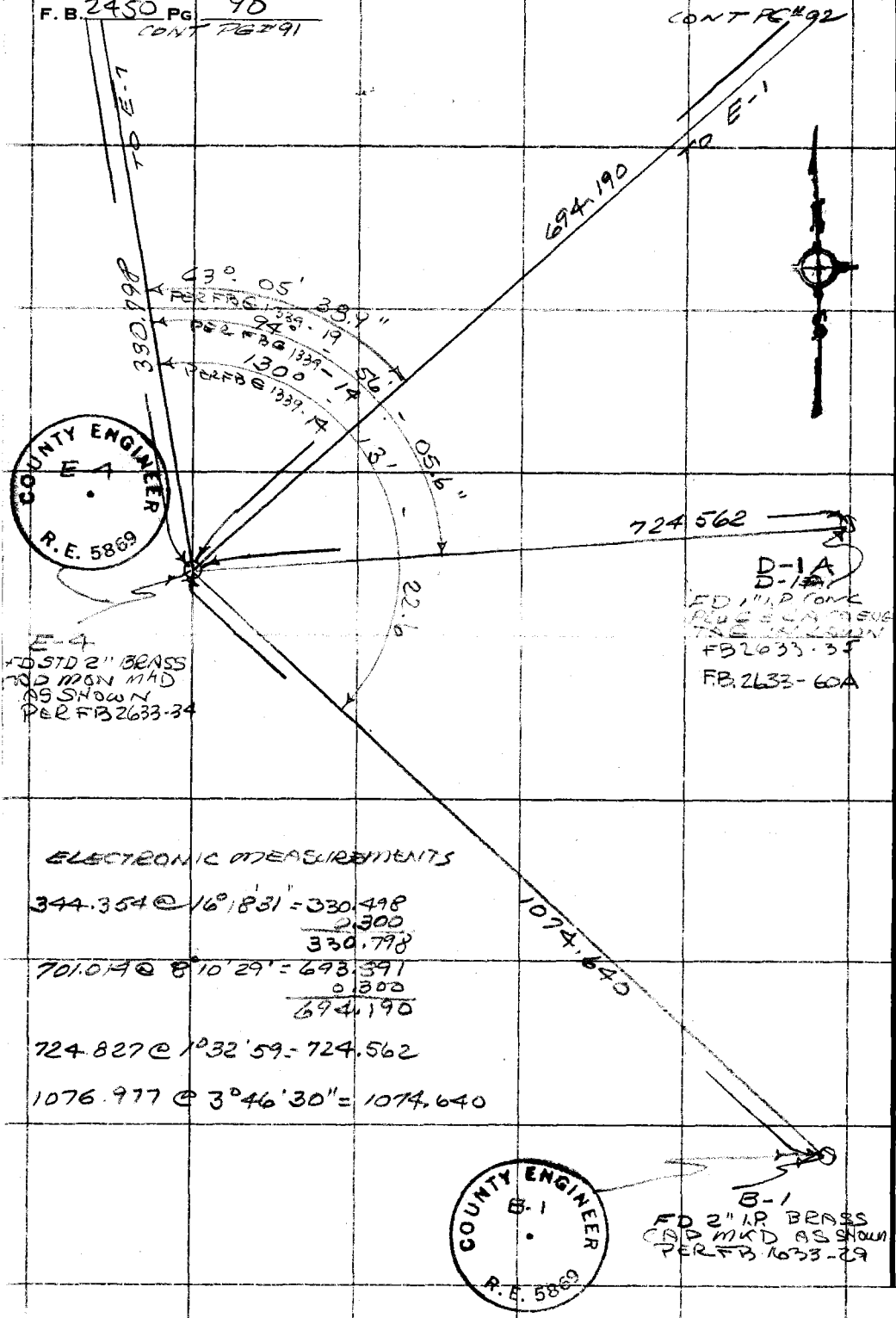
16F3 9S CE#310 3-68

F. B. 2450 PG 90
CONT PG #91



ELECTRONIC MEASUREMENTS

344.354 @ 16°18'31" = 330.498
0.300
330.798

701.014 @ 8°10'29" = 693.891
0.300
694.190

724.827 @ 1°32'59" = 724.562

1076.977 @ 3°46'30" = 1074.640

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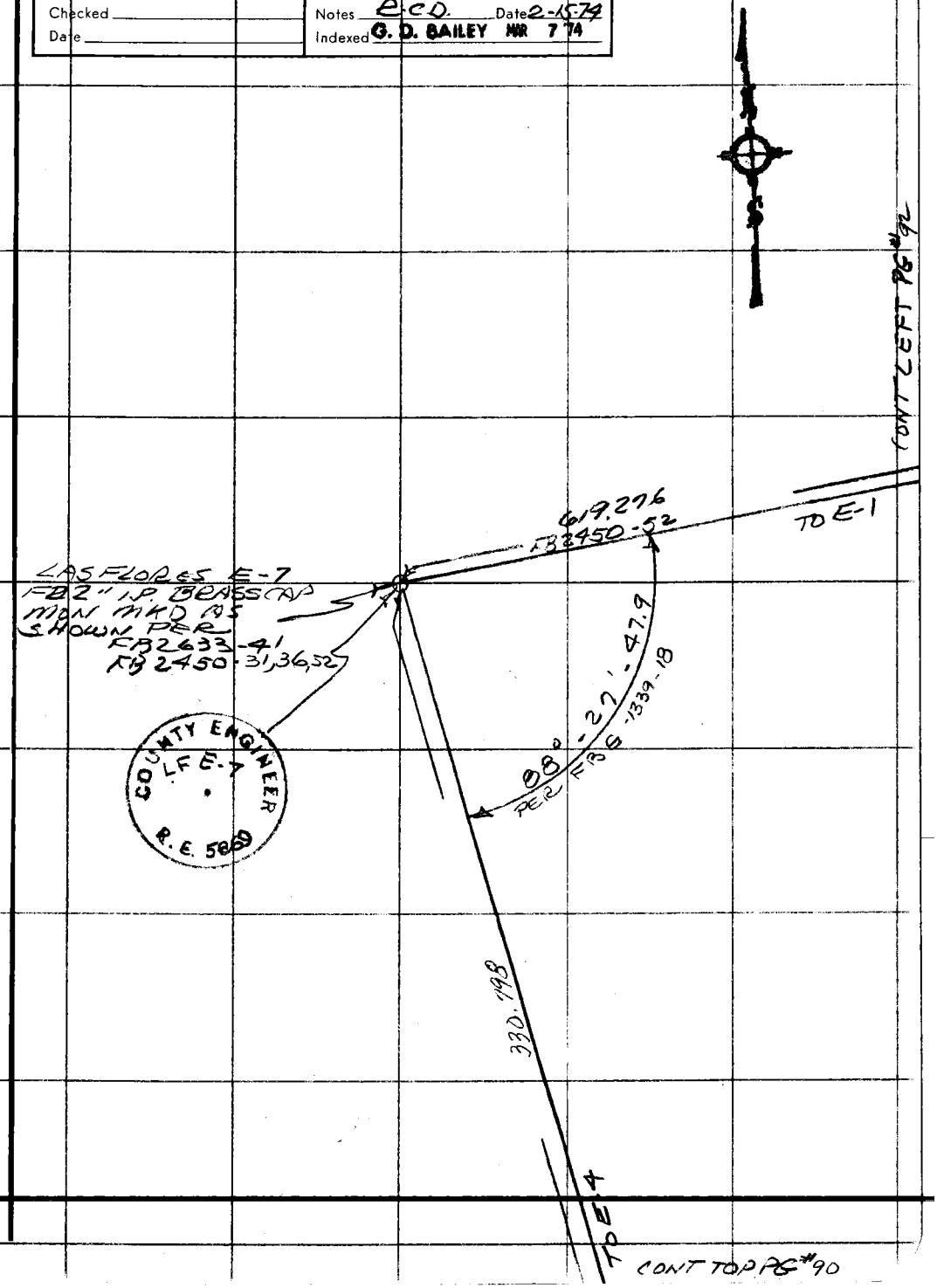
Notes Ck'd by	Survey of CARBON MESA LANDSLIDE AREA
Map No.	JN 0021.92 ~~Tape~~ — ~~Std~~ — °F
Office Work	Surveyed by R.C. DALE
Checked	Notes R.C.D. Date 2-15-74
Date	Indexed G. D. BAILEY MAR 7 '74

F. B. 2450 PG. 91



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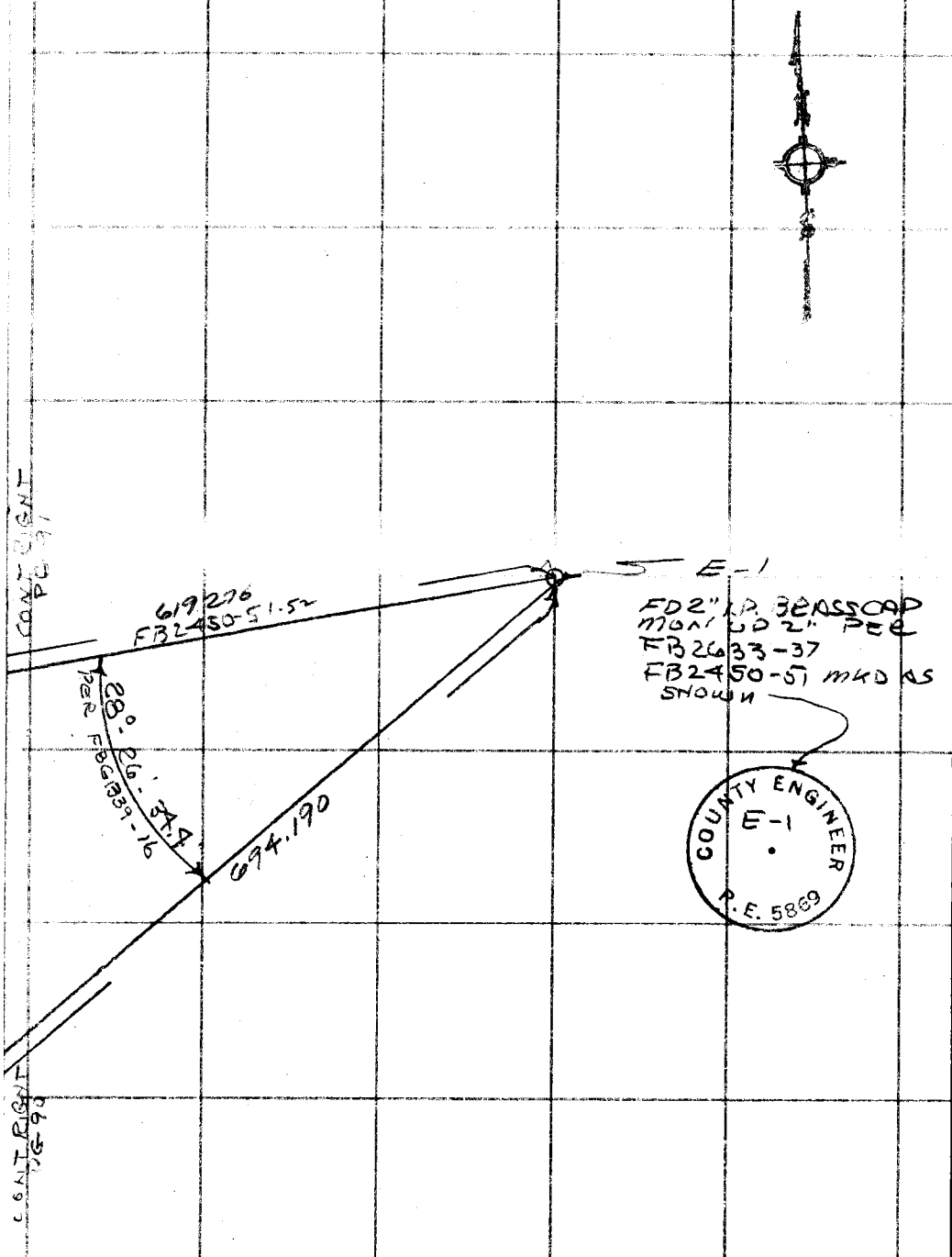
76F309S CE#310 3-69

F. B. 2450 PG. 92



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Notes Ck'd by	Survey of CARBON MESA LANDSLIDE
Map No.	JN 0021.82 Tape HP. # 3 STD °F
Office Work	Surveyed by R. C. DALE
Checked	Notes Date 14-FEB.74
Date	Indexed G. D. BAILEY MAR 7 '74

F.B. 2450 PG. 93

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	E-A		M.E.W.	5.07		299.80
REFLECTOR	D-1A		T.O.	5.17		319.07

VERTICAL ANGLE

D	88-27-10
R	271 33-08
S	360-00-18
M	01-32-59

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G	P.P.M. COR
60°	30.0	0.0

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 7248277

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE 7245622

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST. 7245622

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD. −BACK	ELEV.
3800A	E-A		M.E.W.	5.07		299.80
REFLECTOR	B-1		T.O.	4.66		371.11

VERTICAL ANGLE

D	93-46-37
R	266-13-37
S	360 00-14
M	03-46-30

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G	P.P.M. COR.
60°	30.0	0.0

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 10769777

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE 10746400

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST. 10746400

CORRECT HORIZ. DIST.

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CENTERLINE NOTES
CE 310
76F3095-4/73

Notes Ck'd by	Survey of CARBON MESA LANDSLIDE
Map No.	JN 0021.92 Tape H.P. #3 °F
Office Work	Surveyed by R. C. DALE
Checked	Notes Date 14-FEB-74
Date	Indexed G. D. BAILEY MAR 7 '74

F.B. 2450 PG. 94

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	E-4		M.E.W	5.07		299.80
REFLECTOR	E-7		T.O.	4.00	+0.30	397.66

VERTICAL ANGLE

D	73-41-40
R	286-18-42
S	360-00-22
M	16-18-31

METEC[illegible] DATA

TEMP. °F	PRESS. IN H.G	P.P.M. COR.
60°	30.0	+0.0

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 1044.159 M.

		3	4	4	3	5	4

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE 1009.796 M.

		3	3	0	4	9	8

HORIZONTAL DISTANCE

ROD CLAMP 0.300

CORRECT HORIZ. DIST.

		3	3	0	7	9	8

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD. −BACK	ELEV.
3800A	E-4		M.E.W	5.07		299.80
REFLECTOR	E-1		T.O.	4.00	+0.30	400.71

VERTICAL ANGLE

D	81-49-38
R	278-10-36
S	360-00-14
M	08-10-29

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G.	P.P.M. COR.
60°	30.0	+0.0

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 212.629 M.

		7	0	1	0	1	4

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE 211.419 M.

		6	9	3	8	9	1

HORIZONTAL DISTANCE

ROD CLAMP 0.300

CORRECT HORIZ. DIST.

		6	9	4	1	9	1

CORRECT HORIZ. DIST.

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CENTERLINE NOTES
CE 310
76F3095-4/73

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

Survey of CARBON MESA LANDSLIDE F.B. 2450 PG. 95
JN0021.92 Tape H.P. Std _____ °F
Surveyed by R.C. DALE
Notes R. JACKSON Date 6-12-74
Indexed L. M. PALMERI JUL 10 1974

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD. -BACK	ELEV.
3800A	P-#5	2450-48	JACKSON	5.56		291.38
REFLECTOR	E-1	2450-51		6.50		400.61

VERTICAL ANGLE

D	85-19-05
R	274-41-20
S	360°00'25"
M	+ 04°41'-08"

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G.	P.P.M. COR.
70°	29.8	+5

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 410.436 mtrs

	1	3	4	6	5	7	2

HORIZONTAL DISTANCE

	1	3	4	2	0	7	2

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

BRACKET + 3 0 0

CORRECT HORIZ. DIST.

	1	3	4	2	3	7	2

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD. -BACK	ELEV.
3800A	P-5	2450-48	JACKSON	5.56		291.38
REFLECTOR	W-1	2450-50		4.87		309.96

VERTICAL ANGLE

D	~~87-13-47~~
R	~~274-46-33~~
S	
M	

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G.	P.P.M. COR.
70°	29.8	+5

VERTICAL ANGLE

D	87-13-47
R	272-46-47
S	360-00-34
M	+02°-46'-30"

SLOPE DISTANCE (FEET) 112.629 mtrs

		3	6	9	5	1	6

HORIZONTAL DISTANCE

		3	6	9	0	8	3

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

		3	6	9	0	8	3

CORRECT HORIZ. DIST.

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CENTERLINE NOTES
CE 310
76F3095-4/73

Notes Ck'd by	Survey of CARBON MESA LANDSLIDE F.B. 2450 PG. 96
Map No.	JN0021.92 Tape H.P. Std °F
Office Work	Surveyed by R.C. DALE
Checked	Notes B. JACKSON Date 6-12-74
Date	Indexed T. M. PALMERI JUL 10 1974

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	S-2	2450-47	JACKSON	5.58		233.16
REFLECTOR	S-3	2450-49		5.17		248.45

VERTICAL ANGLE

D	86 40 18
R	273 19 44
S	360 00 02
M+	03° 19' 43"

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G.	P.P.M. COR.
70°	29.8	+5

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 77.911 MHr

		2	5	5	6	1	4

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

		2	5	5	1	8	3

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

		2	5	5	1	8	3

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD. −BACK	ELEV.
3800A	S-2	2450-47	JACKSON	5.58		233.16
REFLECTOR	E-1	2450-51		9.00		400.61

VERTICAL ANGLE

D	83-01-33
R	276-58-51
S	360-00-24
M+	06°-58'-39"

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G.	P.P.M. COR.
70°	29.8	+5

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 428.672 MHr

	1	4	0	6	4	0	0

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

	1	3	9	5	9	8	4

HORIZONTAL DISTANCE

BRACKET

	+	3	0	0	

CORRECT HORIZ. DIST.

	1	3	9	6	2	8	4

CORRECT HORIZ. DIST.

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CENTERLINE NO
CE 310
76F3095-4/73

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

Survey of CARBON MESA LANDSLIDE F.B. 2450 PG. 97
JN 002192 Tape H.P Std _____ °F
Surveyed by R.C. DALE
Notes B. JACKSON Date 6-12-74
Indexed T. M. PALMERI JUL 10 1974

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	S-3	2450-49	JACKSON	5.52		248.45
REFLECTOR	P-7	2450-50		5.07		240.81

VERTICAL ANGLE

D	91-12-28
R	268-47-25
S	359-59-53
M	01°-12'-32"

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G	P.P.M. Cor.
66°	29.8	+5

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 118.452 Mtr.

		3	8	8	6	2	2

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

		3	8	8	5	3	6

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

		3	8	8	5	3	6

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD. −BACK	ELEV.
3800A	S-3	2450-49	JACKSON	5.52		248.45
REFLECTOR	P-8	2450-50		5.25		228.24

VERTICAL ANGLE

D	95-00-35
R	264-59-25
S	360-00-00
M	−5°-00'-35"

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G.	P.P.M. COR.
66°	29.8	

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 99.609 Mtr

		3	2	6	8	0	2

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

		3	2	5	5	5	5

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

		3	2	5	5	5	5

CORRECT HORIZ. DIST.

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CENTERLINE NOTES
CE 310
76F3095-4/73

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

Survey of CARBON MESA LANDSLIDE F.B. 2450 PG. 98
JN 002192 Tape — Std — °F
Surveyed by R.C. DALE
Notes R.C.D. Date 6-12-74
Indexed T. M. PALMER JUL 10 1974

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	S-2	2450-47	JACKSON	5.58		233.16
REFLECTOR	P-1	2450-47		5.35		193.86

VERTICAL ANGLE
D 102-32-11
R 257-28-10
S 360-00-21
M −12°-32-00"

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G.	P.P.M. COR.
70°	29.8	+5

VERTICAL ANGLE
D
R
S
M

SLOPE DISTANCE (FEET) 55.560 M/Hr
1822828

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE
1779378

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.
1779378

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD. −BACK	ELEV.
3800A	S-2	2450-47	JACKSON	5.58		233.16
REFLECTOR	P-5	2450-48		4.50		291.38

VERTICAL ANGLE
D 84-55-25
R 275-04-24
S 359-59-49
M +5-04-29

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G.	P.P.M. COR.
70°	29.8	+5

VERTICAL ANGLE
D
R
S
M

SLOPE DISTANCE (FEET) 196.751 M/Hr
6455088

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE
6429788

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.
6429788

CORRECT HORIZ. DIST.

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CENTERLINE NOTES
CE 310
76F3095-4/73

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

Survey of CARBON MESA LANDSLIDE F.B. 2450 PG. 99
JN 0021.92 Tape H.P. Std _____ °F
Surveyed by R.C. DALE
Notes B. JACKSON Date 6-12-74
Indexed T. M. PALMER JUL 10 1974

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	S-3	2450-49	JACKSON	5.52		248.45
REFLECTOR	W-1	2450-50		5.10		309.96

VERTICAL ANGLE
D 83-19-10
R 276-41-05
S 360-00-15
M +06°-40'-57"

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G	P.P.M. COR.
66°	29.8	+5

VERTICAL ANGLE
D
R
S
M

SLOPE DISTANCE (FEET) 158.870 M/tr
5 2 4 5 0 8

HORIZONTAL DISTANCE
5 2 0 9 4 5

CORRECT HORIZ. DIST.
5 2 0 9 4 5

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD. −BACK	ELEV.
3800A	S-3	2450-49	JACKSON	5.52		248.45
REFLECTOR	W-2	2450-50		4.77		280.12

VERTICAL ANGLE
D 85-39-47
R 274-20-23
S 360-00-10
M +04°-20'-18"

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G.	P.P.M. COR.
66°	29.8	+5

VERTICAL ANGLE
D
R
S
M

SLOPE DISTANCE (FEET) 123.825 M/tr
4 0 6 2 4 8

HORIZONTAL DISTANCE
4 0 5 0 8 4

CORRECT HORIZ. DIST.
4 0 5 0 8 4

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

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.

CENTERLINE NOTES
CE 310
76F3095-4/73

Notes Ck'd by	Survey of CARBON MESA LANDSLIDE	F.B. 2450 PG. 100	
Map No.	JN0021.92 Tape H.P. Std °F		
Office Work	Surveyed by R.C. DALE		
Checked	Notes B. JACKSON Date 6-12-74		
Date	Indexed T. M. PALMER JUL 10 1974		

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	S-3	2540-49	JACKSON	5.52		248.45
REFLECTOR	P.9	2540-49		4.95		218.98

VERTICAL ANGLE

D	101-19-13
R	258-40-33
S	359-59-46
M	11°-19'-20"

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G.	P.P.M. COR.
66°	29.8	+5

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 46.659 Mtr

		1	5	3	0	8	2

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

		1	5	0	1	0	3

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

		1	5	0	1	0	3

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD. −BACK	ELEV.
3800A	S-2	2540-47	JACKSON	5.58		233.16
REFLECTOR	S-4	2540-48		4.87		315.00

VERTICAL ANGLE

D	83-42-20
R	276-18-13
S	360-00-33
M	6°-17'-57"

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G.	P.P.M. COR.
66°	29.8	+5

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 225.268 Mtr

		7	3	9	0	6	6

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

		7	3	4	6	0	4

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

		7	3	4	6	0	4

CORRECT HORIZ. DIST.

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CENTERLINE NOTES
CE 310
76F3095-4/73

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

Survey of CARBON MESA LANDSLIDE F.B. 2450 PG. 101
JN0021.92 Tape H.P. Std _____ °F
Surveyed by R.C. DALE
Notes B. JACKSON Date 6-12-74
Indexed L. M. PALMER JUL 10 1974

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	S-2	2450-47	JACKSON	5.58		233.16
REFLECTOR	P-4	2450-48		5.02		259.10

VERTICAL ANGLE

D	87-18-38
R	272-41-10
S	359-59-48
M+	02°-41'-16"

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G.	P.P.M. Cor.
70°	29.8	+5

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 164.684 Mtr

		5	4	0	3	0	0

HORIZONTAL DISTANCE

		5	3	9	7	0	6

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

		5	3	9	7	0	6

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD. −BACK	ELEV.
3800A	S-2	2450-47	JACKSON	5.58		233.16
REFLECTOR	P-3	2450-48		5.06		245.43

VERTICAL ANGLE

D	88-38-20
R	271-22-20
S	360-00-40
M+	01°-22'-00"

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G.	P.P.M. COR.
70°	29.8	+5

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 155.201 Mtr

		5	0	9	1	9	0

HORIZONTAL DISTANCE

		5	0	9	0	4	5

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

		5	0	9	0	4	5

CORRECT HORIZ. DIST.

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ERLINE NOTES

55-4/73

Notes Ck'd by	Survey of CARBON MESA LANDSLIDE F.B. 2450 PG. 102
Map No.	JN0021.92 Tape H.P. Std °F
Office Work	Surveyed by R.C. DALE
Checked	Notes B. JACKSON Date 6-12-74
Date	Indexed T. M. PALMERI JUL 10 1974

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	S-2	~~2450-47~~	JACKSON	5.58		233.16
REFLECTOR	P-2	2450-48		~~4.46~~	(4.34)	202.22

VERTICAL ANGLE

D	94-41-03
R	265-18-52
S	359 59-55
M	− 04°-41'-06"

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G.	P.P.M. COR.
70°	29.8	+5

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 120.719 Mtr

		3	9	6	0	5	8

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

		3	9	4	7	3	5

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

		3	9	4	7	3	5

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD. −BACK	ELEV.
3800A	S-2	2450-47	JACKSON	5.58		233.16
REFLECTOR	P-6	2450-50		5.42		281.44

VERTICAL ANGLE

D	85-34-00
R	274-26-18
S	360-00-18
M	+ 04° 26'-09"

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G.	P.P.M. COR.
70°	29.8	+5

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 189.470 Mtr

		6	2	1	6	2	0

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

		6	1	9	7	5	8

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

		6	1	9	7	5	8

CORRECT HORIZ. DIST.

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CENTERLINE NOTES
CE 310
76F3095-4/73

Notes Ck'd by	Survey of Carbon Mesa L.S.
Map No.	JN 0301.03 Tape H.P. #3 Std ——°F
Office Work	Surveyed by Dale, R.C.
Checked	Notes H.R.S. Date 6-12-74
Date	Indexed L. M. PALMERI JUL 10 1974

F. B. 2450 PG. 105

CARBON MESA LANDSLIDE

CARBON MESA RD AREA

COMPARISON SHEETS

J.N.0301.03

R.C. DALE
B.R. JACKSON
T. OHASHI
R.R. RODRIGUEZ
H.L. JACKSON

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76F305 CE#310 3-69

F. B. 2450 PG. 106

H.P. & Inst. @ S-3 Backsight on S-3 To W-1 Foresight W-1 S-2

Date	Horiz. Angle	Horiz. Off	Horiz. Dist.	Elev. S-2 = 233.168
1-25-74 F.B. 2450-58	121°46' 30.9" F.B.G 1339-3	0.00	520.953' F.B. 2450-58	W-1 = 309.931 FB 2450-75
6-12-74	121°46' 34.8" F.B.G 1341-10	0.00	520.945' F.B. 2450-99	W-1 = 309.959 F.B. 2450-128
1-6-76 F.B. 2450	121° 46' 43.5" F.B.G. 1341-16	0.00	520.96 ✓ F.B. 2450-137	S-2 = 234.987 ✓ F.B. 2450- [illegible]
7-27-76 F.B. 2450	121° 46' 38" F.B.G. 1341-27	0.00	520.97 F.B. 2950-160	S-2 = 234.976 F.B. 2450-165
7-26-77	121° 46' 38" F.B.G. 1330-19	0.00	520.96 F.B. 2450-170	S-2 = 234.969 F.B. 2450-175
3-15-78	121° 46' 48" ✓ FBG 1330-32	0.00	520.95 ✓	S-2 = 234.996 ✓ FB 2450-182
5-3-78	121° 46' 44"	0.00	520.91 F.B. 2450-197	S-2 = 235.009 F.B. 2450-191

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Survey of CARBON MESA CS.
JNO 30693 Tape HP#3 Std °F
Surveyed by P.C. DALE
Notes RCD Date 6-12-74
Indexed E. M. PALMER JUL 10 1974

F. B. 2450 PG. 107

S-3 TO W-2

H.P. & INST. @ S-3 BACKSIGHT ON W-1 DATE	HORIZ. ANGLE	HORIZ. OFF.	FORESIGHT HORIZ. DIST.	W-2 ELEV
1-25-74 FB 2450-59	——	0.00	405.650 FB 2450-59	W-2 = 280.908 FB 2450-73
6-12-74	——	0.28 R	405.084 FB 2450-99	W-2 = 280.119 F.B. 2450-128
1-6-76	——	0.62 R	~~404.11~~ 3.97 404.01 F.B. 2450-138	W-2 = 278.325 F.B. 2450-149
7-27-76	——	0.62 R	404.01 F.B. 2450-160	W-2 = 278.227 F.B. 2450-163
7-25-77	——	0.62 R	403.98 F.B. 2450-170	W-2 = 278.092 F.B. 2450-173
3-15-78	——	1.49 R	401.16	W-2 = 274.975 FB 2450-180
5-3-78	——	1.67 R	400.52 F.B. 2450-197	W-2 278.694 F.B. 2450-189

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76F3095 CE#3103-69

F. B 2450 Pg. 108

S-3 TO W-3

H.P. & INST. @ S-3 BACKSIGHT W-1 FORESIGHT W-3

DATE	HORIZ. ANGLE	HORIZ OFF.	HORIZ. DIST.	ELEV.
1-25-74	—	0.00	302.012 FB 2450-59	W-3 = 225.727 FB 2450-72
6-12-74	—	0.00	300.624 FB 2450-103	W-3 = 225.224 F.B. 2450-127
1-6-76	—	0.11 R	8:07 ~~297.997~~ F.B. 2450-139	W-3 224.218 F.B. 2450-149
7-27-76	—	0.09 R	297.73 F.B. 2450-160	W-3 = 224.189 F.B. 2450-163
7-25-77	—	0.10 R	297.63 F.B. 2450-170	W-3 = 224.098 F.B. 2450-173
3-15-78	—	0.16 R	293.56	W-3 = 223.085 F.B. 2450-179
5-3-78	—	0.20 R	292.68 2450-197	W-3 = 222.664 -189

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Survey of CARBON MESA LS
JN 0301.03 Tape HP 3 Std °F
Surveyed by R.C. DALE
Notes R.C.D. Date 6-12-74
Indexed T. M. PALMER JUL 10 1974

F. B. 2450 PG. 109

S-3 TO P-6

H.P. & INST. @ S-3 BACKSIGHT W-1 FORESIGHT P-6

DATE	HORIZ. ANGLE	HORIZ. OFF.	HORIZ. DIST.	ELEV.
1-25-74	23° 28' 17.1" F.B.G 1339-3	0.00	529.109 F.B. 2450-55	P-6 = 281.424 F.B. 2450-74
6-12-74	23° 28' 09.8" F.B.G 1341-10	0.00	529.118 F.B. 2450-105	P-6 = 281.436 F.B. 2450-128
1-6-76	23° 28' 08.5" F.B.G-1341-16	0.00	529.061 F.B. 2450-139	P-6 = 281.317 F.B. 2450-149
7-27-76	23° 28' 02" F.B.G-1341-27	0.00	529.08 F.B. 2450-160	P-6 = 281.366 F.B. 2450-163
7-26-77	23° 28' 05" F.B.G = 1330-19	0.00	529.07 F.B. 2450-170	P-6 = 281.322 F.B. 2450-173
3-15-78	23° 28' 24" F.B.G. 1330-32	0.00	528.96	P-6 = 281.391 F.B. 2450-180
5-3-78		0.00	528.95	P-6 281.382

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76F30 5 CE#310 3-69

F. B 2450 Pg 110

S-3 TO P-7

H.P. & INST. @ S-3 BACKSIGHT P-6 FORESIGHT P-7

DATE	HORIZ ANGLE	HORIZ OFF.	HORIZ DIST.	ELEV
1-25-74	—	0.00	390.195 FB 2450-57	P-7 = 240.991 FB 2450-71
6-12-74	—	0.97 R.	388.536 FB 2450-97	P-7 = 240.814 FB 2450-127
1-6-76	—	2.67 R.	385.345 FB. 2450-140	P-7 = 240.321 FB 2450-149
7-27-76	—	2.88 R	385.04 FB. 2450-160	P-7 = 240.318 FB. 2450-163
7-26-77	—	2.90 R	384.94 FB 2450-170	P-7 240.277 FB 2450-183
3-15-78	—	5.99 R	379.04	P-7 = 239.449 FB. 2450-179
5-3-78	—	6.65 R	377.75 2450-197	P-7 = 239.074 2450-185

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Survey of CARBON MESA LS.
JN 0301.03 Tape HP #3 Std °F
Surveyed by P.C. DALE
Notes P.C.D. Date 6-12-74
Indexed K. M. PALMER JUL 10 1974

F. B. 2450 PG. 111

S-3 TO P-8

HP & INST. @ S-3 DATE	BACKSIGHT P-6 HORIZ ANGLE	HORIZ. OFF.	FORESIGHT HORIZ. DIST.	P-8 ELEV.
1-25-74	—	0.00	327.074 FB 2450.57	P-8 = 220.691 FB 2450.71
6-12-74	—	0.84 R	325.555 FB 2450.97	P-8 = 220.236 FB 2450.71
1-6-76	—	2.50 R	322.~~730~~ 81 FB. 2450-140	P-8 = 219.297 FB. 2450-149
7-27-76	—	2.58 R	322.48 FB. 2450-160	P-8 = 219.257 FB. 2450-163
7-26-77	—	2.61 R	322.38 FB. 2450-169	P-8 219.186 FB. 2450-173
3-15-78	—	5.67 R	317.14	P-8 = 217.970 FB. 2450-179
5-3-78	—	6.35 R	316.05 FB 2450-197	P-8 = 217461 -189

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76F305 CE#310 3-69

F. B. 2450 Pg. 112 S-3 To P-9

NPE INST. @ S-3 BACKSIGHT = P-6 FORESIGHT = P-9

DATE	HORIZ ANGLE	HORIZ. OFF.	HORIZ. DIST	ELEV.
1-25-74	—	0.00	150.110 FB 2450-58	P-9 = 219.015 FB 2450-84
6-12-74	—	0.00	150.103 FB 2450-100	218.978 FB 2450-130
1-6-76	—	0.00	149.96 ~~150.007~~ FB. 2450-138	P-9 = 218.983 F.B. 2450-152
7-27-76	—	0.03 L	150.08 F.B. 2450-160	P-9 = 218.964 F.B. 2450-166
7-26-77		0.03'L	150.09 F.B. 2450-169	P-9 = 218.957 F.B. 2450-175
3-15-78		0.06 R	150.15	P-9 = 219.038 F.B. 2450-187
5-3-78	—	0.06 R	150.14 -197	P-9 = 219.054 -191

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Survey of CARBON MESA C.S.
JN 0301.03 Tape HP #3 Std °F
Surveyed by R.C. DALE
Notes RCD Date 6-12-74
Indexed M. PALMERI JUL 10 1974

F. B. 2450 Pg. 113

S-2 TO E-1

HP & INST @ S-2 BACKSIGHT: E-1 FORESIGHT: E-1

DATE	NORTH. DIST	ELEV =
1-25-74	1396.255 FB 2450-56	E-1 = 400.615 FB 2450-80
6-12-74	1396.284 FB 2450-96	E1 = 400.607 FB 2450-129
1-6-76	1396.278 F.B. 2450-141	E-1 = 400.593 F.B. 2450-151
7-27-76	1396.26 F.B. 2450-159	E-1 = 400.599 F.B. 3285-134
7-26-77	1396.26 F.B. 2450-116	E-1 = 400.599 F.B. 3285-144
3-15-78	1396.24 Calc. F.B. 2450-116	E-1 = 400.553 F.B. 3285-148
5-8-78	1396.28	E-1 = 400.534 3285-158

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76F309 S CE#3103-69

F. B. 2450 Pg. 114

S-2 TO S-3

H.P. & INST @ S-2 | BACKSIGHT = E-1 | FORESIGHT: S-3

DATE	HORIZ ANGLE	HORIZ OFF	HORIZ DIST.	ELEV
1-25-74	—	0.00	255.206 FB2450-56	S-3 = 248.465 FB2450-83
6-12-74	—	0.00	255.183 FB2450-96	S-3 = 248.458 FB2450-130
1-6-76	—	0.00	255.223 F.B. 2450-137	S-3 = 248.458 F.B. 2450-152
7-27-76	—	0.00	255.19 F.B. 2450-159	S-3 = 248.437 F.B. 2450-166
7-26-77	—	0.00	255.18 F.B. 2450-169	S-3 = 248.421 F.B. 2450-175
3-15-78	—		255.16	S-3 = 248.455
5-3-78	—	0.00	255.16	FB 2450-182 S-3 = 248.452

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Map No.	JN 0301.03 Tape HP #3 Std	°F	
Office Work	Surveyed by R.C. DALE		
Checked	Notes R.C.D. Date 6-12-74		
Date	Indexed L. M. PALMER JUL 10 1974		

S-2 TO P-6

HP & INST @ S-2 BACKSIGHT: E-1 FORESIGHT: P-6

DATE	HORIZ ANGLE	HORIZ. OFF.	HORIZ. DIST.	ELEV.
1-25-74	57° 39' 04.3" FBG 1339-1	0.00	619.757 FB 2450-61	P-6 = 281.424 FB 2450-74
6-12-74	57° 38' 51.0" FBG 1341-12	0.00	619.758 FB 2450-102	P-6 281.436 F.B. 2450-74
1-6-76	57° 38' 47.0" F.B.G. 1341-17	0.00	619.~~72~~ 68 F.B. 2450-141	P-6 = 281.317 FB. 2450-149
7-27-76	57° 38' 54" FBG-1341-26	0.00	619.72 FB. 2450-160	P-6 = 281.366 FB. 2450-163
7-26-77	57° 38' 45' F.B.G. 1330-18	0.00	619.72 F.B. 2450-169	P-6 = 281.322 F.B. 2450-173
3-15-78	57° 38' 46" FBG 1330-31	0.00	619.62	P-6 = 281.39 FB 2450-180
5-3-78	57° 38' 35"	0.00	619.59 -197	P6 = 281.382 -189

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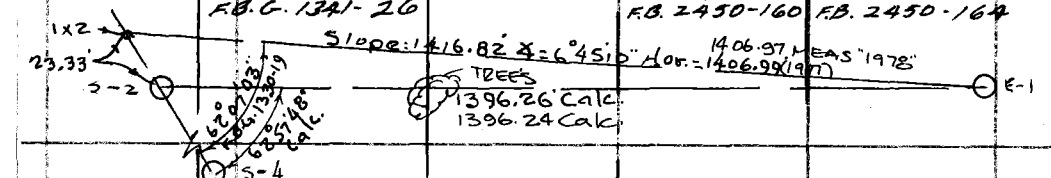
76F306 S CE#310 3-69

F. B 2450 Pg. 116

S-2 TO S-4

H.P. & INST. @ S-2	BACKSIGHT	E-1 FORESIGHT S-4	
DATE	HORIZ. ANGLE	HORIZ OFF.	HORIZ DIST.	ELEV
1-25-74	62° 57' 55.6" FBG 1339-1	0.00	734.537 FB 2450-61	S-4 = 315.006 FB 2450-75
6-12-74	62° 57' 43.0" FBG 1341-12	0.00	734.604 FB 2450-100	S-4 = 314.995 FB 2450-128
1-6-76	62° 57' 42.0" F.B.G. 1341-17	0.00	734.584 F.B. 2450-142	S-4 = 314.858 F.B. 2450-150
7-27-76	62° 57' 48" F.B.G. 1341-26	0.0	734.58 F.B. 2450-160	S-4 = 314.941 F.B. 2450-164
7-26-77	62° 57' 48" Calc from F.B.G 1330-19	0.00'	734.57 F.B. 2450-	S-4 = 314.882 F.B. 2450-174
3-15-78	S-3 TO S-4 53" 62° 57' ~~58~~" FBG. 1330-31	0.00 ~~0.00~~	734.50	S-4 = 315.062 FB 2450-180
5-9-78	Calc from 62°-57'-	0.00	734.50 -197	~~S-4 = 315.065~~ -189



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Map No.	JN0301.03 Tape NP#3 Std °F	
Office Work	Surveyed by R.C. DALE	
Checked	Notes R.C.D. Date 6-12-74	
Date	Indexed I. M. PALMER JUL 10 1974	

S-2 TO P-5

H.P.'S INST @ S-2 BACKSIGHT: E-1 FORESIGHT: P-5

DATE	HORIZ ANGLE	HORIZ. OFF.	HORIZ DIST.	ELEV:
1-25-74	71° 47' 38.5" F.B.G. 1339-1	0.00	642.983 F.B. 2450-55	P-5 = 291.339 F.B. 2450-74
6-12-74	71° 47' 35.25"	0.00	642.978 F.B. 2450-98	P-5 = 291.382 F.B. 2450-128
1-6-76	71° 47' 46.0" F.B.G. 1341-17	0.00	642.979 F.B. 2450-142	P-5 = 291.240 F.B. 2450-150
7-27-76	71° 47' 39" F.B.G. 1341-26	0.00	642.97 F.B. 2450-159	P-5 = 291.273 F.B. 2450-164
7-26-'77	71° 47' 27" F.B.G. 1330-18	0.00	642.95 F.B. 2450-169	P.S 291.163 F.B. 2450-174
3-15-78	71° 47' 41"	0.00	642.87	P-5 = 291.327 FB 2450-180
5-9-78	71° 47' 37"	0.00	642.85 -197	291.309 -190

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76F305 CE#310 3-69

F. B. 2450 Pg. 118

S-2 TO P-4

HP & INST. @ S-2

DATE	HORIZ ANGLE	HORIZ. OFF.	BACKSIGHT P-5 HORIZ. DIST	FORESIGHT P-4 ELEV.
1-25-74	—	0.00	539.703 FB 2450-54	P-4 = 259.068 FB 2450-71
6-12-74	—	0.00	539.706 FB 2450-101	P-4 = 259.102 F.B. 2450-127
1-6-76	—	0.04 L.	539.70 (corrected from 539.716) F.B. 2450-143	P-4 = 259.049 F.B. 2450-149
7-27-76	—	0.01 L	539.70 F.B. 2450-160	P-4 = 259.102 F.B. 2450-163
7-26-77	—	0.01 L	539.70 F.B. 2450-169	P-4 = 259.061 F.B. 2450-173
3-15-78	—	0.01 L	539.65	P-4 = 259.040 FB 2450-179
5-9-78	—	0.01 R	539.67 .197	-188 259.037

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Map No.
Office Work
Checked
Date

Survey of CARBON MESA C.S.
JN 0301.03 Type NP#3 Std °F
Surveyed by R.C. DALE
Notes R.C.D. Date 6.12.74
Indexed M. PALMER JUL 10 197

F. B. 2450 PG. 119

S-2 TO P-3

HP & INST. @ DATE	S-2 BACKSIGHT HORIZ ANGLE	HORIZ. OFF.	FORESIGHT P-5 HORIZ DIST.	FORESIGHT P-3 ELEV
1-25-74	—	0.00	509.073 FB 2450-54	P-3 = 245.923 FB 2450-71
6-12-74	—	0.00	509.045 FB 2450-101	P-3 = 245.931 F.B. 2450-71
1-6-76	—	0.03 L.	509.055 F.B. 2450-143	P-3 = 245.885 F.B. 2450-149
7-27-76	—	0.01 L.	509.05 F.B. 2450-160	P-3 = 245.931 F.B. 2450-163
7-26-77	—	0.03 L	509.05' F.B. 2450-169	P-3 245.887 F.B. 2450-173
3-15-78	—	0.01 L	509.02	P-3 = 245.927 FiB. 2450-179
5-[illegible]-78	—	0.01 R	509.02 -197	245.922 -189

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76F3QS CE#310 3-69

F. B. 2450 PG 120 S-2 TO P-2

HP & INST @ S-2 BACKSIGHT P-5 FORESIGHT P-2

DATE	HORIZ ANGLE	HORIZ. OFF.	HORIZ DIST.	ELEV.
1-25-74	—	0.00	394.751 FB 2450-53	P-2 = 202.205 FB 2450 — 72
6-12-74	—	0.00	394.735 FB 2450-102	P-2 = 202.215 FB 2450-127
1-6-76	—	0.02 L	394.757 F.B. 2450-144	P-2 = 202.146 F.B. 2450-149
7-27-76	—	0.01 L	394.73 F.B. 2450-160	P-2 = 202.216 F.B. 2450-163
7-26-77	—	0.00	394.72 F.B. 2450-169	P-2 = 202.170 ✓ F.B. 2450-173
3-15-78	—	0.00	394.64	P-2 = 202.187 FB 2450-179
5-9 78	—	0.00	394.66 -197	P-2 = -202.169 -189

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Map No.	JN 0301.03 Tape HP#3 Std ___ °F
Office Work	Surveyed by R.C. DALE
Checked	Notes R.C.D. Date 6.12.74
Date	Indexed T. M. PALMER JUL 10 1974

F. B. 2450 PG. 121

S-2 TO P-1

HP & INST @ S-2 BACKSIGHT P-5 FORSIGHT = P-1

DATE	HORIZ ANGLE	HORIZ. OFF	HORIZ DIST	ELEV
1-25-74	—	0.00	177.909 FB2450-53	P-1 = 193.897 FB2450-84
6-12-74	—	0.00	177.938 FB2450-98	193.868 FB2450-130
1-6-76	—	0.00	178.00 ~~177.959~~ F.B. 2450-144	P-1 = 193.855 F.B. 2450-152
7-27-76	—	0.00	177.92 F.B. 2450-159	P-1 = 193.847 F.B. 2450-165
7-26-'77	—	0.02'	177.91' F.B. 2450-169	P-1 = 193.835' F.B. 2450-175
9-13-'77	—	0.00	177.91 F.B. 2450-169	P-1 = 193.908 FB 2450-182
3-15-78	—	0.06 R	177.95	
5-9-78	—		178.00	P-1 = 193.933

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76F309S CE#310 3-69

F. B. 2450 Pg. 122

P-5 TO E-1

HP & INST @ P-5 BACKSIGHT - S-2 FORESIGHT E-1

DATE	HORIZ ANGLE	HORIZ. OFF	HORIZ. DIST	ELEV.
1-25-74	81° 08' 25.1" FBG 1339-5	0.00	1342.364 FB 2450-60	E-1 = 400.615 FB 2450-81
6-12-74	81° 08' 14.5" FBG 1341-11	0.00	1342.372 FB 2450-95	E-1 = 400.607 FB 2450-129
1-6-76	81° 08' 33" FB.G. 1341-18	0.00	1342.39 FB. 2450-145	E-1 = 400.593 FB. 2450-151
7-27-76	81° 08' 22" F.B.G-1341-27	0.00	1342.40 F.B. 2450-159	E-1 = 400.599 F.B. 3285.134
7-26-77	81° 08' 42" F.B.G. 1330-20	0.00	1342.35 F.B. 2450-169	E-1 = 400.599 F.B. 3285-144
3-15-78	81° 08' 39"	0.00	1342.39	E-1 = 400.553
5- -78	81° 08' 35"	0.00	1342.43 -197	E-1 = 400.534 3285-158

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Map No.	JN 0301.03 Tape ND #3 Std	°F	
Office Work	Surveyed by R S DALE		
Checked	Notes R.S.D. Date 6-12-74		
Date	Indexed J. M. PALMERI JUL 10 1974		

P-5 TO W-1

HP & INST @ P-5 DATE	HORIZ ANGLE	BACKSIGHT E-1 HORIZ. OFF.	FORESIGHT = W-1 HORZ. DIST.	ELEV.
1-25-74	—	0.00	369.053 FB 2450-60	W-1 = 309.931 FB 2450-75
6-12-74	—	0.03 R	369.083 FB 2450-95	W-1 309.959 FB. 2450-128
1-6-76	—	0.02 R	369.084 FB. 2450-145	W-1 = 309.932 FB. 2450-150
7-27-76	—	0.00	369.06 FB. 2450-160	W-1 = 310.007 FB. 2450-164
7-26-77	—	0.02 R	369.02 FB. 2450-170	W-1 = 309.932 FB. 2450-174
3-15-78	—	0.06 R	369.06	W-1 = 309.955 FB 2450-180
5-10-78	—	0.06 R	369.04	W-1 309.955

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76F305 CE#310 3-69

F. B. 2450 Pg. 124

P-6

From S-2 To S-3

1-25-74	24° 02' 44.6"	F.B. G 1339-6	
6-12-74	24° 02' 42.25	F.B.G 1341-A	
~~1-6-76~~	~~24° 02' 42.3"~~	~~F.B.G-1341-19~~	
7-27-76	24° 02' 40"	F.B.G-1341-28	
7-26-77	24° 02' 45"		1) 24° 02' 30" 4) 96° 11' 00"
3-15-78	24° 02' 52"	F.B.G. 1330-33	6) 144° 16' 30"
5-10-78	24°-02'-50"		

W-1

From P-5 To S-3

1-25-74	85° 17' 24.0	F.B.G 1339-7	
6-12-74	85° 17' 08.0	F.B.G 1341-13	
1-6-76	85° 17' 04.0"	F.B.G-1341-21	
7-27-76	85° 17' 10"	F.B.G-1341-28	
7-26-'77	85° 17' 03"		1) 85° 17' 00" 4) 341° 08' 20" 6) 151° 42' 20"
3-15-78	85° 16' 45"	F.B.G 1330-33	
5-10-78	85° 16' 20"		

E-1

From P-5 To S-2

1-25-74	27° 03' 53"	F.B.G 1339-8
6-12-74	27° 03' 54"	F.B.G 1341-15
1-6-76	27° 03' 49.5"	F.B.G-1341-20
7-27-76	27° 03' 59"	F.B.G-1341-29
7-20-'77	27° 03' 42"	F.B.G 1330-13
3-15-78	27° 03' 37" Calc.	
5-10-78	27° 03' 36" Calc.	

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F. B. 2450 PG. 125

Profile No. Notes Red Plotted Job No. 0301.03 Division No.
Date Date Survey of CARBON MESA LANDSLIDE AREA
X-Sec. No. Notes Chk'd. Checked Survey by P.C. DALE Notes B. JACKSON Date 6-24-74
Date Date Map No. Index Ed M. PALMER Date JUL 10 1974

CARBON MESA LANDSLIDE

LEVELS

J.N. 0301.03

RERUN OF LEVEL CIRCUIT FOR VERTICAL CONTROL

6-24-74

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

PARTY

P.C. DALE
B.R. JACKSON
R.R. RODRIGUEZ
T. OHASHI
H. JACKSON

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F. B. 2450 Pg. 126
Survey of CARBON MESA LANDSLIDE AREA Job No. 230103 Division No. Notes Red Plotted Profile
Survey by R.C. DALE Notes BR. JACKSON Date Date No. X-Sec.
Indexed Date JUL 10 1970 Notes Chk'd. Checked
Date Date No.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	
B.M. CM. 7	4.785			64.103	B.M. CARBON MESA #7, EL = 64.103 CARBON CYN. RD. (WEST SIDE), ABOUT 0.2 MI. N'LY OF PACIFIC COAST HWY, 100 FT. N'LY OF HSE. # 3859, 25 FT. WEST OF & PV'MT, FD. A BT. SPK. IN LEAD IN TOP OF AN "L" SHAPED CONC. HEAD WALL, 0.6 N.WEST OF THE S. EAST CORNER, MARKED BM. CM-7. F.B. 2450-68
T.P.	9.012	68.888	1.239	67.649	
T.P.	8.943	76.661	0.622	76.039	
T.P.	10.425	84.982	0.811	84.171	
T.P.	10.211	94.596	1.055	93.541	
T.P.	11.259	103.752	0.975	102.777	
T.P.	10.701	114.036	0.628	113.408	
T.P.	9.535	124.109	0.754	123.355	
T.P.	9.800	132.890	0.708	132.182	
T.P.	9.288	141.982	1.472	140.510	
T.P.	9.522	149.798	1.219	148.579	
T.P.	10.034	158.101	1.295	156.806	
T.P.	8.708	166.846	0.469	166.371	
T.P.	8.403	175.079	1.095	173.984	
B.M. CM #6	3.461	182.387	3.422	178.965	B.M. CARBON MESA #6, EL = 178.977 CARBON MESA ROAD (EAST SIDE), ABOUT 0.4 MI. N'LY OF PACIFIC COAST H'WY, 90 FT. N'ELY OF & PV'MT. OF CARBON MESA ROAD & CARBON CYN. ROAD, 4 FT. S OF P.P., 25 FT. WEST OF N.W. COR. OF HSE. # 3714, PROTECTED ON THE N.W. BY A LG. ROCK AND A 2" M'RK. PIPE 2 FT. EAST. FD A STD. CO. ENG'R BUTTON MON. FLUSH, STAMPED BM CM-6 RE 7078. F.B. 2450-70
T.P.	9.241	182.426	3.611	178.815	
T.P.	8.568	188.056	2.929	185.127	
T.P.	7.605	193.695	1.904	191.791	
T.P.	9.151	199.396	0.825	198.571	
T.P.		207.762	1.227	206.495	

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STATION	B. S.	H. I.	F. S.	ELEV.		
T.P.	9.681			206.495		
[illegible]	9.563	206.176	0.768	215.408		
T.P.	10.321	224.971	1.372	223.599		
T.P.	9.188	233.920	0.178	233.742		
T.P.	9.791	242.930	0.674	242.256		
T.P.	9.995	252.047	0.580	251.467		
P-4	1.728	261.462	2.360	259.102	F.B. 2450-48, 71	
T.P.	1.015	260.830	11.089	249.741		
P-3	3.318	250.756	4.825	245.931	F.B. 2450-48, 71	
P-7	0.667	249.249	8.435	240.814	F.B. 2450-50, 71	
T.P.	0.533	241.481	10.404	231.077		
P-8	0.702	231.610	11.374	220.236	F.B. 2450-50, 71	
T.P.	3.628	220.938	10.704	210.234		
P-2	11.801	213.872	11.647	202.215		
T.P.	8.271	214.016	0.285	213.731	F.B. 2450-48, 72	
T.P.	11.275	222.002	7.927	214.075		
T.P.	10.465	225.370	0.303	225.047		
W-3	10.280	235.582	10.268	225.~~684~~ 244	F.B. 2450-50, 72	
T.P.	11.830	235.524	3.744	231.780		
T.P.		243.610	1.549	242.061		

Profile Notes Red ____ Plotted ____ Job No. 0801.03 Division No. ____ F.B. 2450 Pg. 127
No. ____ Date ____ Date ____ Survey of CARBON MESA LANDSLIDE AREA
X-Sec. Notes Chk'd. ____ Checked ____ Survey by R.C. DALE Notes B. JACKSON Date 6-24-74
No. ____ Date ____ Date ____ Map No. ____ Index [illegible] M. PALMER Date JUL 10 1974

76-L-298 CE 307 5-66

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F. B. 2450 PG. 128 | Job No. 0301.03 Division No. | Notes Red | Plotted | Profile
Survey of CARBON MESA LANDSLIDE AREA | Date | Date | No.
Survey by R.C. DALE Notes B.R. JACKSON | Notes Chk'd. | Checked | X-Sec.
Indexed E. M. PALMER Date JUL 2 0 1974 | Date | Date | No.

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STATION	B. S.	H. I.	F. S.	ELEV.		
T.P.	8.165			242.061		
T.P.	11.659	250.226	0567	249.659		
T.P.	10.030	260.318	0.189	261.129		
T.P.	11.786	271.159	2.263	268.896		
W-2	11.122	280.682	0.563	280.119	F.B. 2450-50, 73	
P-6	10.447	291.241	9.805	281.436	F.B. 2450-50, 74	
T.P.	7.122	291.883	1.523	290.360		
P-5	8.749	297.482	6.100	291.382	F.B. 2450-48, 74	~~S-4?~~
T.P.	11.331	300.131	0.885	299.246		
T.P.	9.215	310.577	1.295	309.282		
S-4	3.362	318.497	3.502	314.995	F.B. 2450-48, 75	~~P-5?~~
T.P.	1.563	318.351	10.239	308.118		
T.P.	11.117	309.671	3.996	305.675		
T.P.	3.617	316.792	6.165	310.627		
W-1	4.278	314.244	4.285	309.959	F.B. 2450-50, 75	
T.P.	7.476	314.237	3.610	310.627		
T.P	11.325	318.097	0.230	317.867		
T.P.	10.070	329.192	1.080	328.012		
T.P	9.618	338.182	0.708	337.474		
T.P.		347.092	1.200	345.892		

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STATION	B. S.	H. I.	F. S.	ELEV.	
T.P.	10.190			345.892	
T.P.	9.642	356.082	0.487	355.595	
T.P.	10.388	365.237	0.179	365.058	
T.P.	11.109	375.446	1.011	374.435	
T.B.	8.039	385.544	2.280	383.264	B.M. CARBON MESA #5, EL = 388.039
B.M. CM #5		391.303	3.2~~13~~ 5	388.~~090~~ 050	CARBON MESA RD. (NO. EAST SIDE) 0.8 MI. N'LY OF PACIFIC COAST HWY, 20 FT E'LY OF ℄ PV'MT 40 FT N'LY OF PVT. DRIVE TO HSE # 22105, 5 FT. SO. OF TRANSFORMER POLE # 770622E, A 2" MKR. PIPE 3' N'LY, FD. A STD. CO. ENGR BUTTON MON. FLUSH, STAMPED BM CM-5, RE 7078
BM CM #3	0.491	401 966		401 475	BM CM #3 ELEV = 401.475 FB2450-80 CARBON MESA RD. (WEST SIDE) 1.2 mi NLY OF PACIFIC COAST HWY 17' WEST OF ℄ PVMT. & 5' N. OF P.P. 893371E. A STD CS BRASS CAP MON STAMPED CM #3 A 2" MKR PIPE 2.5' N PER FB 2450-80
T.P.	7 383	404 777	4 572	397 394	
E-1	4 178	404 785	4 170	400 607	E-1 ELEV = 400.615 FB2450-80 FD LA CO. BRASS CAP MON UP 2" MKD E-1 RE 5869 PER FB2633-37 FB2450-51
T.P.	1 368	398 763	7 390	397 395	
T.P.	0 423	388 288	10 898	387 865	
T.P.	0 922	377.622	11.588	376 700	
T.P.	1 275	367 483	11 414	366 208	
BM CM #2	0 368	357 511	10 340	357.143	BM CM #2 ELEV = 357.143 FB2450-81 CARBON MESA RD (WEST SIDE) 1.3 mi NLY OF PACIFIC COAST HWY. 4' EAST OF PP # 893370E A STD BRASS CAP MON SET FLUSH MKD C.M #2 RE 5869. PER FB 2633.14 FB2450-81
T.P.	0 525	346 631	11 405	346 106	
T. P.	0 534	335 557	11 608	335 023	
T. P.	0 785	325 315	11 027	324 530	

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 0301.03 Division No. ____
X-Sec. No. ____ Notes Chk'd. ____ Date ____ Checked ____ Date ____ Survey of CARBON MESA LANDSLIDE AREA
Survey by R.C. DALE Notes B.R.J. Date 6-24-74
Map No. ____ Indexed T. M. PALMER Date JUL 10 1974

F.B. 2450 Pg. 129

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.	
		325 315			
T.P.	0 941	315 456	10.800	314 515	
T.P.	1 410	306 604	10.262	305 194	
T.P.	0 212	295 766	11 050	295 554	
T.P.	0 549	284 875	11 440	284 326	
T.P.	0 347	273 988	11 234	273 641	
T.P.	1 048	263 753	11 283	262 705	
BM CM #4	3320	256 371	10 702	253 051	BM CM #4 ELEV = 253.049 AT END OF CARBON MESA RD (IN CULDE SAC) 1.5 MI NLY PACIFIC COAST HWY. 30'± SELY FROM RAD. POINT ON APPROX ℄ PROD. FROM NW. A LACO ENGR BRASS CAP BUTTON TYPE MON DN 8" IN CAP & WELL STAMPED BM CM-4 RE7078. PER FB2450-83
S-3	2 100	250 550	7 921	248 450	S-3 ELEV = 248.465 FB2450-83 FD 2" I.P. CONC PLUG & LA CO ENG TAG PER FB2450-49
T.P.	0.945	240 951	10 544	240 006	
T.P.	2402	233 700	9 653	231.298	
T.P.	1090	224 537	10,253	223 447	
P-9	1 798	220 776	5 559	218 978	P-9 ELEV = 219.015 FB2450-84 FD 2" I.P. CONC PLUG & LA CO ENG TAG PER FB2450-49.
T.P.	1 200	210.865	11 111	209 665	
T.P.	2 099	202 813	10151	200.714	
P-1	11 170	205 033	8 950	193 863	P-1 ELEV = 193.897 FB2450-84 FD 2" I.P. CONC PLUG & LA CO ENG TAG PER FB2450-47
T.P	10 320	214 523	0 830	204.203	
	10 666	224 321	0 868	213 655	

F. B. 2450 PG. 130

Job No. 030103 Division No. Notes Red Plotted Profile No.

Survey of CARBON MESA LANDSLIDE AREA Date Date X-Sec.

Survey by RCD Notes R.C. DALE Notes Chk'd. Checked No.

Indexed T. M. PALMER Date JUL 10 1974 Date Date

76-[illegible]-298 CE 307 8-70

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STATION	B. S.	H. I.	F. S.	ELEV.		
		224 321				
T.P.	10 612	234 573	0.360	223961		
S-2	7 404	240 563	1 414	233 159	S-2 ELEV = 233.168 FB2450-83 FD2" I.D CONC PLUG & LACO ENGTAG PER FB2450-47	
S-1	10 672	243 456	7 779	232 784	S-1 ELEV = 232.817 FB2450-83 FD2" I.D. CONC PLUG & LACO ENGTAG PER FB2450-47	
T.P.	11 735	254 150	1041	242.415		
Bm CM #4			1 105	253 045	Bm CM #4 ELEV = 253.049 FB2450-83	

Profile Notes Red____ Plotted____ Job No. 330.03 Division No.____
No.____ Date____ Date____ Survey of CARBON MESA LANDSLIDE AREA
X-Sec. Notes Chk'd.____ Checked____ Survey by R.C. DALE Notes R.K.P. Date 7-2-74
No.____ Date____ Date____ Map No.____ Indexed M. PALMERI Date JUL 10 1974

F. B. 2450 PG. 131

F. B. 2460 Pg. 132 | Job No. | Division No. | Notes Red | Plotted | Profile

Survey of | Date | Date | No.

Survey by | Notes | Notes Chk'd. | Checked | X-Sec.

Indexed | Date | Date | Date | No.

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

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76-L-298 CE 307 8-70

Notes Ck'd by	Survey of CARBON MESA L.S.
Map No.	JN 0301.03 Tape H.P. Std °F
Office Work	Surveyed by R.C. DALE
Checked	Notes B. JACKSON Date 7-30-74
Date	Indexed T. M. PALMERI AUG 8 1974

F. B. 2450 PG. 133

CARBON MESA LANDSLIDE

J.N. 0301.03

RESURVEY OF HORIZONTAL CONTROL
FB 2450 - 45 to 52

30 JULY '74

PARTY

R.C. DALE
B.R. JACKSON
~~R. DAVER~~
R.R. RODRIGUEZ
T. OHASHI

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16F3095. CE#310 3-69

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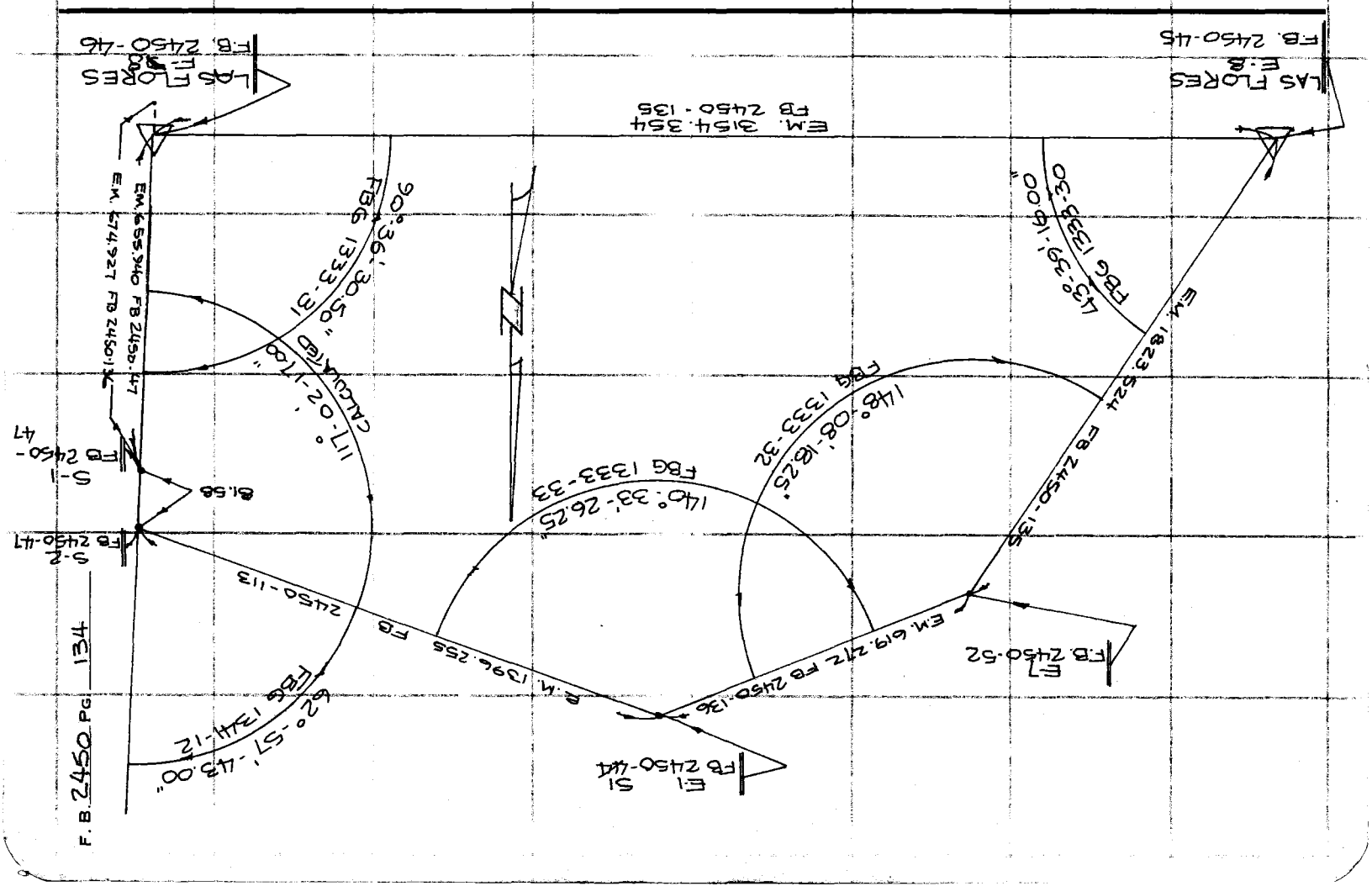

Es Ck'd by	Survey of CARBON MESA LANDSLIDE
Map No.	JN0021.92 Tape H.P. Std °F
Office Work	Surveyed by R.C. DALE
Checked	Notes B. JACKSON Date 6-12-74
Date	Indexed T. M. PALMERI JUL 10 1974

F.B. 2458 PG. 103

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	S-3	2450-49	JACKSON	5.52		248.45
REFLECTOR	W-3	2450-50		4.75		225.24

VERTICAL ANGLE

D	94-34-13
R	265-26-03
S	360-00-16
M	−04°-34'-05"

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G.	P.P.M. COR.
66°	29.8	+5

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 91.922 MH

		3	0	1	5	8	2

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

		3	0	0	6	2	4

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

		3	0	0	6	2	4

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD. −BACK	ELEV.
3800A	S-3	2450-49	JACKSON	5.52		248.45
REFLECTOR	P-6	2450-50		5.27		281.44

VERTICAL ANGLE

D	86-26-22
R	273-34-12
S	360-00-34
M	03°-33'-55"

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G.	P.P.M. COR.
66°	29.8	+5

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 161.588 MH

		5	3	0	1	4	4

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

		5	2	9	1	1	8

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

		5	2	9	1	1	8

CORRECT HORIZ. DIST.

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CENTERLINE NOTES
CE 310
76F3095-4/73

Notes Ck'd by	Survey of CARBON MESA LANDSLIDE F.B. 2450 PG. 135
Map No.	JN 0301.02 Tape H.P. Std ° F
Office Work	Surveyed by R.C. DALE
Checked	Notes B. JACKSON Date 7-31-74
Date	Indexed T. M. PALMER AUG 8 1974

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	E-8	FB 2450-45	DOVER	5.85		14.00
REFLECTOR	E-7	F.B. 2450-~~46~~ 57		5.00		397.8

VERTICAL ANGLE

D	78-09-10
R	281-50-45
S	359-59-55
M	+11°-50'-42"

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G	P.P.M. COR.
74°	30.0	0

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 567.811 M.

1862892

HORIZONTAL DISTANCE

1823224

BRACKET +300

CORRECT HORIZ. DIST.

1823524

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	E-8	F.B. 2450-45	DOVER	5.85		14.00
REFLECTOR	F-8	F.B. 2450-46		?		16.69

VERTICAL ANGLE

D	89-59-00
R	~~270-01-40~~
S	360-00-40
M	00-01-20

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G	PPM. COR.
~~74°~~	~~30.0~~	~~0~~

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 961.449 M.

3154354

HORIZONTAL DISTANCE

3154354

CORRECT HORIZ. DIST.

3154354

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

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310
F3095-4/73

Notes Ck'd by	Survey of CARBON MESA LANDSLIDE
Map No.	JN0301.02 Tape H.P. Std °F
Office Work	Surveyed by R.C. DALEY
Checked	Notes B. JACKSON Date 7-31-74
Date	Indexed T. M. PALMERI AUG 8 1974

F.B. 2450 PG. 136

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD. -BACK	ELEV.
3800A	S-1	2450-47	DOVER	5.04	232.82	~~233.82~~ 15.69
REFLECTOR	19' OFF F-8 (L&TAG)	2450-46				15.69

VERTICAL ANGLE

D	107-47-50
R	252-12-10
S	360-00-00
M	-17-47-50

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G.	P.P.M. COR.
86°	30.0	+10

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) ~~7188850~~

HORIZONTAL DISTANCE ~~7148846~~ 6749276

CORRECT HORIZ. DIST. ~~7143482~~

2/6.058 MTR

SLOPE DISTANCE (FEET) 7088850

HORIZONTAL DISTANCE 6749276

CORRECT HORIZ. DIST. 6749276

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD. -BACK	ELEV.
3800A	~~E~~ E-1	F.B. 2450-51	DOVER	P		400.6V
REFLECTOR	E-7	F.B. 2450-52 2633-41		P		397.8

VERTICAL ANGLE

D	90-09-00
R	269-51-20
S	360-00-00
M	-00-08-50

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G.	P.P.M. COR.
86°	30.0	+10

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 6189744

188.664 METER

HORIZONTAL DISTANCE 6189722

BRACKET +0300

CORRECT HORIZ. DIST. 6190272

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

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CE 310
76F3095-4/73

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Map No.	JN 0301.03 Tape ____ Std ____ °F
Office Work	Surveyed by M. E. WACKER
Checked	Notes DOVER Date JAN-76
Date	Indexed

F.B. 2450 PG. 137

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	S-3 (off set)	2450-49	DOVER	4.95	0.00	248.45
REFLECTOR	S-2	2450-47	JOHNSON	7.20	0.00	233.16

VERTICAL ANGLE

D 92-55-30
R 267 04 20
S 359 59-50 -10 +5
M 2°-55-35"

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G.	P.P.M. COR.
60°	30.6	-05

VERTICAL ANGLE

D
S
M

SLOPE DISTANCE (FEET) 79.4 MIN.

260.56

HORIZONTAL DISTANCE

260220

-500

CORRECT HORIZ. DIST.

255230

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD. −BACK	ELEV.
3800A	S-3	2450-49	DOVER	4.95	0.00	248.45
REFLECTOR	W-1	2450-50	TOLLISON	5.50	0.00	309.96

VERTICAL ANGLE

D 83 12 25
R 276 47 35
S 360 00 00 -00 +00
M 6°47'-35"

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G.	P.P.M. COR.
60°	30.6	-05

VERTICAL ANGLE

D
S
M

SLOPE DISTANCE (FEET) 159.914 MIN.

52465

HORIZONTAL DISTANCE

520.96

CORRECT HORIZ. DIST.

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

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LINE NOTES
5-4/73

Notes C'k'd by _____ Survey of CARBON MESA LANDSLIDE F.B. 2450 PG. 138

Map No. _____ JN 030103 Tape _____ Std _____ °F

Office Work _____ Surveyed by M. E. WACKER

Checked _____ Notes DOVER Date JAN. 76

Date _____ Indexed _____

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	S-3	2450-49	DOVER	4.95	0.00	248.45
REFLECTOR	W-2	2450-50	TOLLISON	5.3	0.00	260.17

VERTICAL ANGLE

D 85° 42' 40"

R 274 17 00

S 359 59 40 -25 +10

M 4°-17-10" + 123 519 MTK

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G.	P.P.M. COR.
60	30.6	-05

SLOPE DISTANCE (FEET)

4 0 5 . 2 4 5

HORIZONTAL DISTANCE

4 0 4 . 9 7 ✓

CORRECT HORIZ. DIST.

VERTICAL ANGLE

D

R

S

M

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD. −BACK	ELEV.
3800A	S-3	2450-49	DOVER	4.95		248.45
REFLECTOR	P-9	2450-49	JOHNSON	5.1		219.98

VERTICAL ANGLE

D 101° 03' 55"

R 258° 56' 00"

S 359° 59' 55"

M 11° 03' 58" ✓ 46.607

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G.	P.P.M. COR.
60	30.6	-05

SLOPE DISTANCE (FEET)

1 5 2 . 9 1 0

HORIZONTAL DISTANCE

1 4 9 . 9 6 ✓

CORRECT HORIZ. DIST.

VERTICAL ANGLE

D

R

S

M

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

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Map No. _____ JN 0301.03 Tape _____ Std _____ °F

Office Work _____ Surveyed by M. E. WACKER

Checked _____ Notes DOVER Date JAN-76

Date _____ Indexed _____

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD. -BACK	ELEV.
3800A	S-3	2450-49	DOVER	4.95	0.00	248.46
REFLECTOR	P-6	2450-50	JOHNSON	5.10	0.00	281.44

VERTICAL ANGLE
86°25'45"
273 34 20
S 360 00 05
M 3°34'17"

METEOROLOGICAL DATA
TEMP. °F | PRESS. IN H.G | P.P.M. COR.
60° | 30.6 | -05

+5 -2.5

161.572 MTR

SLOPE DISTANCE (FEET)
530.090

HORIZONTAL DISTANCE
529.04 X X

CORRECT HORIZ. DIST.

VERTICAL ANGLE
D
R
S
M

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD. -BACK	ELEV.
3800A	S-3	2450-49	DOVER	4.95		248.45
REFLECTOR	W-3	2450-50	TOLLISON	5.00		275.24

VERTICAL ANGLE
94 38 34
265 20 45
S 359-59 19
M 4°38'54"

METEOROLOGICAL DATA
TEMP. °F | PRESS. IN H.G | P.P.M. COR.

-41 +20

91.129

SLOPE DISTANCE (FEET)
298.980

HORIZONTAL DISTANCE
298.88 X X ✓

CORRECT HORIZ. DIST.

VERTICAL ANGLE
D
R
S
M

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

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INE NOTES
73

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

Survey of CARBON MESA LANDSLIDE F.B. 24 2 PG. 140
JN 0301.03 Tape _____ Std _____ °F
Surveyed by M.E. WACKER
Notes DOVER Date JAN 76
Indexed _____

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	S-3	2450-49	DOVER	4.95		248.45
REFLECTOR	P-7	2450-50	JOHNSON	4.80		240.81

VERTICAL ANGLE

D	91° 13' 40"
R	268° 45' 55"
S	359° 59' 35"
M	1° 13' 52"

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G.	P.P.M. COR.
60	30½	-05

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 117.481 MTR.

		3	8	5	4	3	5

HORIZONTAL DISTANCE

		3	8	5	3	~~5~~	~~6~~

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD. −BACK	ELEV.
3800A	S-3	2450-49	DOVER	4.95		248.45
REFLECTOR	P-8	2450-50	TOLLISON	5.0		270.24

VERTICAL ANGLE

D	95° 09' 00"
R	264° 50' 40"
S	359 59 40
M	5° 09' 10"

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G.	PPM. COR.
60	30½	-05

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 98.768 MTR.

		3	2	4	0	4	0

HORIZONTAL DISTANCE

		3	2	2	~~8~~	~~9~~	0

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ DIST.

HORIZ. DIST.

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CENTERLINE NOTES
CE 310
76F3095-4/73

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Map No.	JN 0301.03 Tape ____ Std ____ °F
Office Work	Surveyed by M. E. WALKER
Checked	Notes DOVER Date JAN-76
Date	Indexed

F.B. 24 2 PG. 141

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	S-2	2450-47	DOVER	6.75		233.16
REFLECTOR	E-1	2450-51	JOHNSON	5.4		460.61

VERTICAL ANGLE

D	83° 13′ 20″
R	276 46 40
S	360 00 00
M	6° 46′ 40″

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G.	P.P.M. COR.
66°	30.6	−02

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 1406.105

HORIZONTAL DISTANCE 1396.23 ✓

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD. −BACK	ELEV.
3800A	S-2	2450-47	DOVER	6.75		233.16
REFLECTOR	P-6	2450-50	TOLLSON	5.5		381.94

VERTICAL ANGLE

D	85° 41′ 10″
R	274 18 35
S	359° 59′ 45″
M	4° 18′ 42″

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G.	PPM. COR.
66°	30.6	−02

VERTICAL ANGLE

D	
R	
S	
M	

−15 +7.5

SLOPE DISTANCE (FEET) 189.427

HORIZONTAL DISTANCE 189.48 ✓

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

CORRECT HORIZ. DIST.

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ENTERLINE NOTES
E 310
6F3095-4/73

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Map No.	JN 0301.03 Tape Std. °F
Office Work	Surveyed by M.E. WACKER
Checked	Notes DOVER Date JAN-76
Date	Indexed

F.B. 24 2 PG. 142

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	S-2	2450-47	DOVER	6.75		233.16
REFLECTOR	S-4	2450-48	TOLLISON	5.30		315.00

VERTICAL ANGLE

D	83° 46′ 15″
R	276 13 30
S	359 59 45
M	6° 13′ 38″

−15 +7.5

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G	P.P.M. COR.
66°	30.5	−02

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 7389.4 — 225.229 MTR

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE 7389.4 ✓

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD. −BACK	ELEV.
3800A	S-2	2450-47	DOVER	6.75		233.16
REFLECTOR	P-5	2450-48	JOHNSON	5.10		291.38

VERTICAL ANGLE

D	84 59 40
R	275° 00′ 15″
S	359 59 55
M	5° 00′ 18″

−5 +2

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G	PPM COR.
66°	30.5	−02

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 6454.4 — 196.731 MTR.

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE 6429 ✓

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST

CORRECT HORIZ. DIST.

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CENTERLINE NOTES
CE 310
765 - 05-4/73

Ck'd by	Survey of ARBON MESA LANDSLIDE F.B. 24 PG. 143
Map No.	JN 0301.03 Tape Std °F
Office Work	Surveyed by M.E. WACKER
Checked	Notes DOVER Date JAN-76
Date	Indexed

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD -BACK	ELEV.
3800A	S-2	2450-47	DOVER	6.75		233.16
REFLECTOR	P-4	2450-48	TOLLSON	5.5		259.10

VERTICAL ANGLE

D	87°24'20"
R	272 35 35
S	359 59 55
M	2°35'38"

-5+2

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G.	P.P.M. COR.
66°	30.6	-02

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 164.675 MTR

		5	4	0	2	7	0

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

		5	3	9	7	9	6

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD. -BACK	ELEV.
3800A	S-2	2450-47	DOVER	6.75		233.16
REFLECTOR	P-3	2450-48	JOHNSON	5.1		245.93

VERTICAL ANGLE

D	88° 46' 20"
R	271 13 25
S	359 59 45"
M	1° 13' 33"

-15 +7.5

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G.	PPM. COR.
66°	30.6	-02

VERTICAL ANGLE

D	
R	
S	
M	

SLOPE DISTANCE (FEET) 155.198 MTR

		5	0	9	1	8	0

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

		5	0	9	0	5	3

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST

CORRECT HORIZ. DIST.

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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ENTERLINE NOTES
E 310
OF 3095-4/73

Ck'd by	Survey of ROSS MESA LANDSLIDE F.B. 24 PG. 44
Map No.	JN 0301.03 Tape Std °F
Office Work	Surveyed by M.E. WALKER
Checked	Notes DOVER Date JAN-76
Date	Indexed

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD −BACK	ELEV.
3800A	S-2	2450-47	DOVER	6.75		233.16
REFLECTOR	P-2	2450-48	TOLLISON	5.6		202.27

VERTICAL ANGLE

D	94°40'45"
R	265 18 55
S	359°59'40"
M	4°40'55"

−20
−410

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G	P.P.M. Cor.
66	30⅝	−02

VERTICAL ANGLE

D	
R	
S	
M	

120.725 MTR

SLOPE DISTANCE (FEET) 3960⅞

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE 3947⅞ ✓

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD. −BACK	ELEV.
3800A	S-2	2450-47	DOVER	6.75		233.16
REFLECTOR	P-1	2450-47	TOLLISON	5.1		193.86

VERTICAL ANGLE

D	103°00'50"
R	256 59 10
S	360 00 00
M	13°00'50"

METEOROLOGICAL DATA

TEMP. °F.	PRESS. IN H.G	P.P.M. COR.
66°	30⅝	−02

VERTICAL ANGLE

D	
R	
S	
M	

55.675

SLOPE DISTANCE (FEET) 18265⅞

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE 17⅞ ✓

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST

CORRECT HORIZ. DIST.

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ENTERLINE NOTES
E 310
5F3095-4/73

...es Ck'd by	Survey of CARBON MESA LANDSLIDE
Map No.	JN 0301.03 Tape ____ Std ____ °F
Office Work	Surveyed by M. E. WACKER
Checked	Notes DOVER Date JAN. 76
Date	Indexed

F.B. 24c PG. 145

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD -BACK	ELEV.
3800A	P-5		DOVER	4.92	0.00	291.38
REFLECTOR	W-1		TOLLISON	5.0	0.00	309.96

VERTICAL ANGLE

D	87° 05' 40"
R	272 54 05
S	359 59 45
M	2°-54-13"

-15 +7.5

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G.	P.P.M. COR.
60°	306	-05

VERTICAL ANGLE

D	
R	
S	
M	

112.642 MTR

SLOPE DISTANCE (FEET): 3 6 9 5 6

HORIZONTAL DISTANCE: 3 6 9 0 8 ~~6~~

CORRECT HORIZ. DIST.

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +AHD. -BACK	ELEV.
3800A	P-5		DOVER	4.92	0.00	291.38
REFLECTOR	E-1		JOHNSON	5.3	0.00	400.61

VERTICAL ANGLE

D	85 19 45
R	274° 40' 00"
S	359 59 45
M	4°-40'-08"

-15 +7.5

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G.	P.P.M. COR.
60°	306	-05

VERTICAL ANGLE

D	
R	
S	
M	

410.533

SLOPE DISTANCE (FEET): 1 3 4 6 8 9 0

HORIZONTAL DISTANCE: 1 3 4 2 ~~4~~ 3 ~~2~~ 9 x

CORRECT HORIZ. DIST

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE

CORRECT HORIZ. DIST.

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NTERLINE NOTES 310 F3095-4/73

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

Survey of CARSON MESA LINE
JN 63 01 03 Tape _____ Std _____ °F
Surveyed by MACKER
Notes M.E.W. Date JAN 76
Indexed _____

F.B. 2450 PG. 146

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +IND. -BACK	ELEV.
3800A	S-1	2450-154	DOVER	5.30	—	
REFLECTOR	S-5	2450-154	JOHNSON	5.10	—	

VERTICAL ANGLE
D 109-42-35
R 252-12-13
S 359-59-50
M 12-12-10

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G.	P.P.M. COR.
64°	30.1	+0

VERTICAL ANGLE
D
R
S
M

SLOPE DISTANCE (FEET) 216.052V
7082

SLOPE DISTANCE (FEET)

HORIZONTAL DISTANCE
67492

HORIZONTAL DISTANCE

CORRECTED HORIZ. DIST.

CORRECT HORIZ. DIST.

	STATION	F.B.	OBSERVER	H.I.	ECCENTRICITY +IND. -BACK	ELEV.
3800A	E-1	2450-154	DOVER	4.70		400.6V
REFLECTOR	E-7	2450-154	JOHNSON	4.30		397.8

VERTICAL ANGLE
D 90-18-57
R 269-40-45
S 359° 59' 42"
M 0° 19' 06"

METEOROLOGICAL DATA

TEMP. °F	PRESS. IN H.G.	PPM COR.
68	30.3	+0

VERTICAL ANGLE
D
S

SLOPE DISTANCE (FEET) 188.748 HTR
6192

SLOPE DIST. (FE

HORIZONTAL DISTANCE
6192Z

HORIZONTAL DISTANC

CORRECT HORIZ. DIST.

CORRECT HORIZ. DIST.

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ERLINE NOTES
0
)95-4/73

F. B. 2450 PG. 147

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0301.03 Division No. II
Date ____ Date ____ Survey of CARBON MEAS LANDSLIDE AREA
X-Sec. No. ____ Notes Chk'd. [illegible] Checked ____ Survey by WACKER Notes DOVER Date 6 JAN 76
Date ____ Date ____ Map No. ____ Index J. M. PALMER Date JAN 12 1976

J.N. 0301.03

CARBON MESA LANDSLIDE

LEVEL

RE-RUN OF LEVEL CIRCUIT FOR
VERTICAL CONTROL 6 JAN 1976

PARTY
M. WACKER
R. DOVER
G. TOLLISON
C. JOHNSON

STATION	B. S.	H. I.	F. S.	ELEV.
				REFERENCE F.B. 2450-68

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76-L 298 CE 307 8-70

76-L-298 CE 307 8-70

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STATION	B. S.	H. I.	F. S.	ELEV.	
B.M. CM 7	8.460	72.563		64.103	B.M. CARBON MESA #7 EL= 64.103 HELD
T.P.	10.882	83.203	0.242	72.321	CARBON CYN. RD. (WEST SIDE) ABOUT 0.2 MI N'LY OF PACIFIC COAST HWY, 100' FT N'LY OF HSE# 3859, 25' WEST OF ℄ PV'MT, F.D. A BT. SPK. IN LEAD IN TOP OF AN "L" SHAPED CONC. HEADWALL, 0.6 N. WEST OF THE S. EAST CORNER, MARKED B.M.CM.-7 PER F.B. 2450-68
T.P.	11.270	93.944	0.529	82.674	
T.P.	11.927	105.522	0.349	93.595	
T.P.	11.468	116.036	0.954	104.568	
T.P.	11.573	127.042	0.567	115.469	
T.P.	11.245	137.399	0.888	126.154	
T.P.	11.570	148.133	0.836	136.563	
T.P.	11.705	159.235	0.603	147.530	
T.P.	11.841	170.596	0.480	158.755	
T.P.	10.098	180.238	0.456	170.140	
B.M.CM #6			1.304	178.934	178.942 ADJ.
	4.423	183.357			
T.P.	10.090	191.487	1.960	181.397	
T.P.	10.710	201.666	0.531	190.956	B.M. CARBON MESA #6 EL= 178.977 CARBON MESA RD. (EAST SIDE), ABOUT 0.4 MI. N'LY OF PACIFIC COAST H'WY, 90 FT. N'LY OF ℄ PV'MT. OF CARBON MESA RD. & CARBON CYN. RD, 4 FT. S OF PP, 25 FT. WEST OF N.W. COR. OF HSE# 3714, PROTECTED ON THE N.W. BY A LG. ROCK AND A 2" MRK PIPE 2 FT. EAST. FOUND A STD. CO. ENGR'S BUTTON BRASS MON. FLUSH, STAMPED B.M.CM.-6 RE 7078 PER F.B. 2450-70
T.P.	10.602	211.911	0.357	201.309	
T.P.	10.930	221.741	1.100	210.811	
T.P.	11.228	232.606	0.363	221.378	
T.P.	11.322	243.464	0.464	232.142	
T.P.	11.616	254.752	0.328	243.136	
	8.475	262.424	0.803	253.949	

F. B. 2450 Pg. 148 Job No. 5301.03 Division No. Notes Red Plotted Profile
Survey of CARBON MESA LANDSLIDE Date Date No.
Survey by WACKER Notes R. DOVER Notes Chk'd [illegible] Checked X-Sec.
Indexed L. M. PALMERI Date JAN 12 1978 Date Date No.

76-L 298 CE 307 8-70

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STATION	B. S.	H. I.	F. S.	ELEV.		
		262.424				
P-4	1.101	260.150	3.375	259.049	F.B. 2450-48,71,127	257.059 ADJ.
T.P.	7.508	257.234	10.424	249.726		
P-3	4.783	250.468	11.349	245.885	F.B. 2450-48,71,127	245.815 "
P-7	6.754	247.075	10.347	240.321	F.B. 2450-50,71,127	240.331 "
T.P.	0.776	236.641	11.210	235.865		
T.P.	2.415	229.410	9.646	226.995		
P-8	0.653	219.950	10.113	219.297	F.B. 2450-50,71,127	219.307 "
T.P.	0.680	209.283	11.347	208.603		
P-2	11.796	213.942	7.137	202.146	F.B. 2450-50,71,127	202.156 "
T.P.	11.832	220.429	5.345	208.597		
T.P.	11.951	224.579	7.801	212.628		
W-3	10.578	234.796	0.361	224.218	F.B. 2450-50,72,127	224.231 "
T.P.	10.488	244.850	0.434	234.362		
T.P.	11.382	255.645	0.587	244.263		
T.P.	10.249	264.864	1.030	254.615		
T.P.	11.091	272.867	3.088	261.776		
T.P.	6.774	278.929	0.712	272.155		
W-2	10.902	289.227	0.604	278.325	F.B. 2450-50,73,128	278.340 "
P-6	11.296	292.613	7.910	281.317	F.B. 2450-50,74 & 128	
T.P.			0.588	292.025		

Profile Notes Red Plotted Job No. 030.03 Division No. 11
No. Date Date Survey of CARBON MESA LANDSLIDE
X-Sec. Notes Chk'd Checked Survey by WACKER Notes DOVER Date 6 JAN 76
No. Date Date Map No. Index No. Date JAN 12 1976

F. B. 2450 PG. 149

76-L-298 CE 307 8-70

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F. B. 2450 Pg. 150 | Job No. 030.03 Division No. 11 | Notes Red | Plotted | Profile
Survey of CARBON MESA LANDSLIDE | Date | Date | No.
Survey by WACKER Notes R. DOYER | Notes Chkd. [illegible] Checked | X-Sec.
Indexed T. M. PALMER Date JAN 12 1978 | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.		
T.P. (CONT.)	5.636	297.661		292.025 ✓		
~~S-4~~ P-5	11.682	302.922 ✓	6.421	291.240 ✓	FB 2450 – 48, 75, 128 ✓	291.256 ADJ
T.P.	11.889	313.341	1.470	301.452 ✓		
T.P.	9.050	319.115 ✓	3.276	310.065 ✓		
~~P-5~~ S-4	0436	315.294	4.257	314.858 ✓	FB 2450 – 48, 74, 128 ✓	314.876 ADJ.
T.P.	10620	315.985	9.929	305.365 ✓		
T.P.	4919	316.002	4.902	311.083 ✓		
W-1	5888	315770	6,070	309,932 ✓	F.B. 2450 – 50, 75, 128 ✓	309.950
T.P.	5,920	317,088	4,602	311,168 ✓		
T.P.	11.729	328.412	0.405	316,683 ✓		
T.P.	11.866	339,670	0.608	327.804 ✓		
T.P.	11,900	351.049	0.521	339,149 ✓		
T.P.	11 898	362.947	0.000	351.049 ✓		
T.P.	11.670	374,250	0.367	362.580 ✓		
T.P.	11.332	385.360	0.222	374.028 ✓		
T.P.	8.463	393,141	0,682	384,678 ✓		
B.M. CM#5			5.127	388.014	BM CARBON MESA #5 EL = 388.039 ✓ HELD CARBON MESA RD. (NO. EAST SIDE) 0.8 MI. N'LY OF PACIFIC COAST H'WY 20 FT. E'LY OF ℄ PV'MT 40 FT. N'LY OF PVT. DRIVE TO HSE # 22105, 5 FT. SO OF TRANSFORMER POLE # 770622E, A 2" MKR PIPE 3' N'LY, FD A STD CO. ENGR'S BUTTON MON. FLUSH, STAMPED "BM CM-5, R.E. 7078	

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STATION	B. S.	H. I.	F. S.	ELEV. (ADJ.)	
BM CM #3	0.279	401.754		401.475	B.M. CARBON MESA #3 EL=401.475 F.B. 2450-80 CARBON MESA RD. (WEST SIDE) 1.2 MI. N'LY OF PACIFIC COAST H'WY 17' WEST OF ℄ PVMT & 5 FT. N OF P.P.# 893371E, A STD BRASS CAP MON. STAMPED "CM#3 A 2" MKR. PIPE 2.5 N. PER F.B. 2450-80 (NO)
T.P.	11.552	401.890	11.416	390.338	
T.P.	5.809	404.854	2.845	399.045	E-1 ELEV. = 400.615 F.B. 2450-80
E-1	4.399	404.992	4.261	400.593	F.D. LA CO. BRASS CAP MON. UP 2" MKD E-1 RE 5869 PER F.B. 2450-51 (2633-37 0216.) (READING HIGHEST POINT)
T.P.	2.833	401.880	5.945	399.047	
T.P.	0.658	390.993	11.545	390.335	
T.P.	0.385	379.652	11.726	379.267	
T.P.	0.370	369.178	10.844	368.808	
	D:		12.041	357.137	BM CM NO. 2 ELEV = 357.143 F.B. 2450-81 CARBON MESA RD. (WEST SIDE) 1.3 MI. N'LY OF PACIFIC COAST H'WY 4 FT EAST OF P.P.# 893370E A STD. BRASS CAP MON. SET FLUSH MARKED C.M. NO. 2 RE 5869 (PER 2633-14-0216) 2450-81
	0.696	357.833			
T.P.	0.260	346.772	11.321	346.512	
T.P.	0.498	335.556	11.714	335.058	
T.P.	0.200	324.735	11.021	324.535	
T.P.	0.578	314.511	10.802	313.933	
T.P.	1.968	305.696	10.783	303.728	
T.P.	0.821	295.667	10.850	294.846	
T.P.	0.416	284.301	11.782	283.885	
T.P.			11.010	273.291	

Profile Notes Red_____ Plotted_____ Job No 0301.03 Division No. 11
No._____ Date_____ Date_____ Survey of CARBON MESA LANDSLIDE
X-Sec. Notes Ck'd. 1-13-76 Checked_____ Survey by WACKER Notes DOVER Date 7 JAN 76
No._____ Date_____ Date_____ Map No._____ Index No. PALMER Date JAN 12 1976

F. B. 2450 PG. 151

76-L-298 CE 307 8-70

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F. B. 2450 Pg. 152 | Job No. 8301.03 Division No. 11 Notes Red ____ Plotted ____ Profile
Survey of CARBON MESA LAND SLIDE Date ____ No. ____
Survey by M. WACKER Notes R. POWER Notes Chk'd ____ Checked ____ X-Sec.
Indexed by PALMER Date JAN 12 1976 Date ____ No. ____

STATION	B. S.	H. I.	F. S.	ELEV.	EL.
T.P. (CONT.)	0.537	273.828		273.291	
T.P.	0.358	262.986	11.200	262.628	
BM CM # 4	2.069	255.146	9.909	253.077	B.M. C.M. #4 ELEV = 253.049 HELD AT END OF CARBON MESA RD. (IN CUL-DE-SAC) 1.5 MI N'LY PACIFIC COAST H'WY, 30 FT S'ELY FROM RADIUS PT. ON APROX ℄ PROD. FROM N.W. A L.A. CO. ENGR'S BRASS CAP BUTTON TYPE MON. DN 8" IN CAP & WELL STAMPED "BM CM-4 RE 7078 PER F.B. 2450-83
					248.431 ADJ
S-3	1.022	249.480	6.688	248.458	F.B. 2450-83 EL = ~~253.049~~ 248.465
T.P.	0.932	239.034	11.378	238.102	
T.P.	1.797	230.099	10.732	228.302	
					218.951 ADJ
P-9	8.802	227.785	11.116	218.983	F.B. 2450-84 EL = 219.015
T.P.	0.900	217.486	11.249	216.536	
T.P.	0.325	206.019	11.742	205.694	
					193.835 ADJ
P-1	11.780	205.635	12.164	193.855	F.B. 2450-84 EL = 193.897
T.P.	11.489	216.656	0.468	205.167	
T.P.	10.609	225.388	1.877	214.779	
T.P.	11.477	235.557	1.308	224.080	
S-2	7.259	242.246	0.570	234.987	SET A CO ENGR'S BUTTON BRASS CAP MON. S-2 DN 2" OVER 2" I.P. L.A. CO. ENGR ℄ TAG (PIPE 2") MARKED "S-2 RE 7078" SEE 2450-47
					234.976 ADJ
T.P.	11.983	253.481	0.748	241.498	
~~BM CM # 4~~	5.456	253.900	5.037	248.444	B.M. CM. #4 SEE DESC. ABOVE
BM CM # 4			0.859	253.041	253.049 ADJ

Notes Ck'd by	Survey of CARBON MESA L.S.
Map No.	JN 0301.03 Tape Std °F
Office Work	Surveyed by M. E. WACKER
Checked [illegible]	Notes M.E.W. Date JAN-76
Date	Indexed J. M. PALMERI AUG 2 1976

F. B. 2450 PG. 153

J.N. 0301.03

CARBON MESA LANDSLIDE

RESURVEY

HORIZONTAL CONTROL

F.B. 2450-45 TO 52 + 133

PARTY:

WACKER
DOVER
TOLLISON
JOHNSON

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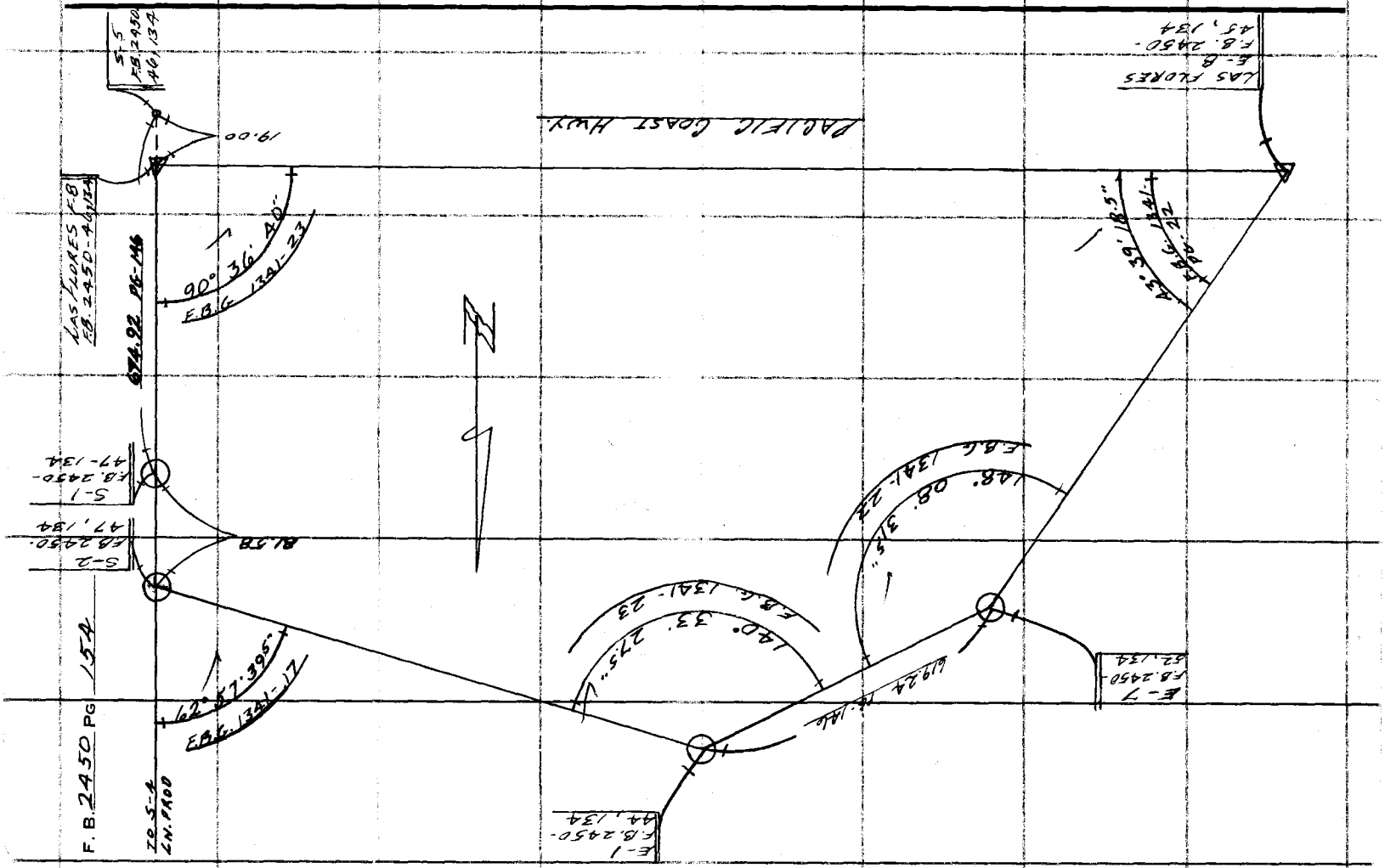

Notes Ck'd by R. C. BOWERS	Survey of CARBON MESA L.S.
Map No.	JN 0301.03 Tape Std °F
Office Work	Surveyed by M. E. WACKER
Checked	Notes M. E. W. Date JULY-76
Date	Indexed L. M. PALMER AUG 2 1976

F. B. 2450 PG. 155

J.N. 0301.03

CARBON MESA LANDSLIDE

RESURVEY

HORIZONTAL CONTROL

F.B. 2450 - 45 TO 52,

133, 153,

PARTY

WACKER

DOYER

TOLLISON

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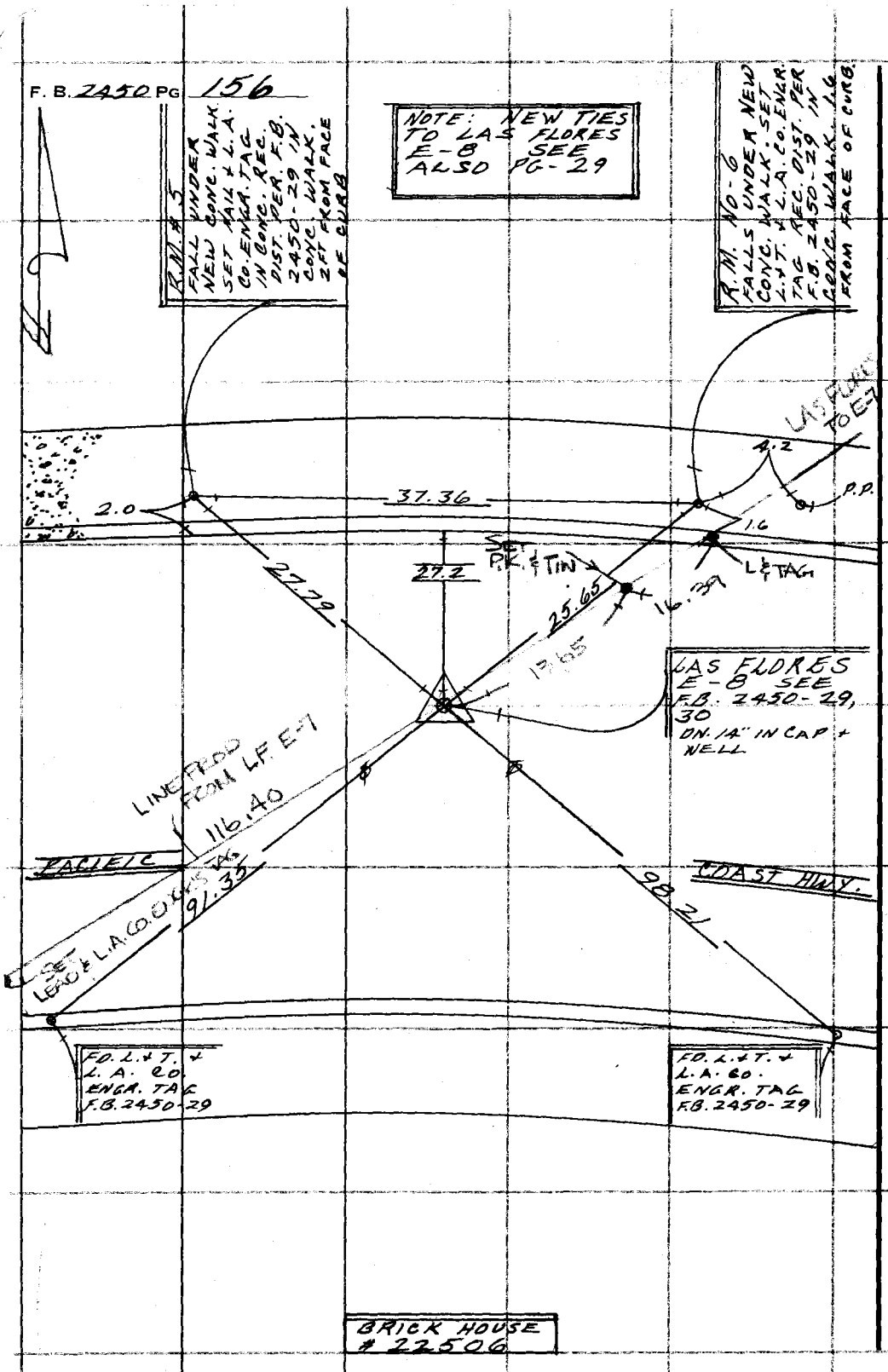
76 E 309 CE #310 2-68

F. B. 2450 PG 156



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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 R. C. BOWERS	Survey of CARBON MESA LANDSLIDE
Map No.	JN 0301.03 Tape Std °F
Office Work	Surveyed by M. F. WACKER
Checked	Notes M. F. W Date JULY 76
Date	Indexed E. M. PALMERI AUG 2 1976

F. B. 2450 PG. 157

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PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

1) 29° 18' 20"
2) 117° 13' 40"
3) 175° 50' 20"
= 29° 18' 23"

D-1 A
F.B. 2633-35
F.B. 2450-90
2633-60A

B-1
F.B. 2633-29
F.B. 2450-90

SEE PG-158

E-1

724.52 = PG-159

1074.58 = PG-159

29° 18' 23"

923.44 = PG-159

63° 05' 20"
94° 56' 02"
130° 13' 31"
189° 25' 39"
E.B.G. 1341-25

91° 29' 19"
E.B.G. 1341-24

330.76 = PG-159

526.13 = PG-159

SEE PG-158

TO E-1

E-A
F.B. 2633-34
F.B. 2450-90

B-6
F.B. 2633-32

T6F3098 CE#310 3-69

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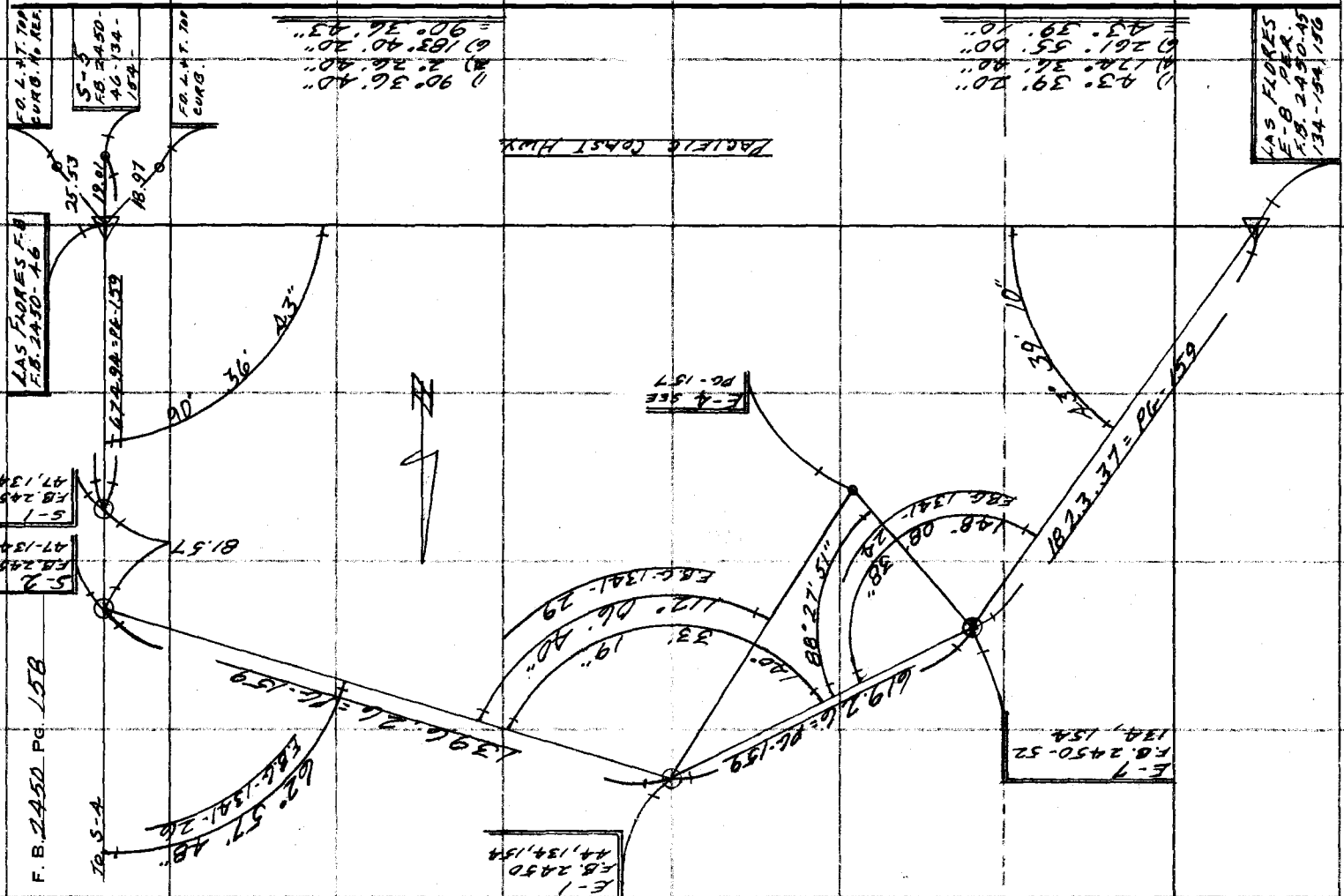

76F30 S CE#310 3-69

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FROM	TO	VERT. ANGLE	SLOPE DIST.	HORZ. DIST	F.B. REF.	TEMP.	PRESS	COR.
E-7	E-8	11°47'53"	1862.72	1823.37	2450-156	66°	30.2	±0
E-7	E-1	00°19'35"	619.265	619.26	2450-158	66°	30.2	0
E-4	E-1	8°13'15"	701.56	694.20	2450-158	66°	30.2	0
E-4	E-7	16°24'00"	344.79	330.76	2450-157	66°	30.2	0
E-4	D-1A	1°37'10"	724.81	724.52	2450-157	66°	30.2	0
E-4	B-1	3°47'05"	1076.93	1074.58	2450-151	66°	30.2	0
E-4	B-6	15°28'35"	545.92	526.13	2450-157	66°	30.2	0
B-1	B-6	4°43'[illegible]"	920.7[illegible]	9[illegible]	2450-[illegible]	72°	30.5	0
S-1	S-3	17°46'28"	[illegible]	674.9	2450-[illegible]	70°	30.5	0
S-2	S-3	3°10'38"	255.38	255.19	2450-114	68°	30.5	0
S-2	E-1	[illegible]	1406.47	1396.26	2450-113	68°	30.5	0
S-2	P-1	12°56'23"	182.555	177.919	2450-121	66°	30.5	0
S-2	P-5	5°03'02"	645.475	642.968	2450-117	66°	30.6	0
P-5	E-1	4°41'00"	1346.90	1342.40	2450-122	68°	30.5	

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

Survey of Carson Mesa Longshot F. B. 2450 PG. 159
JN 38-0-01 Tape °F
Surveyed by M. E. WACKER Date July-76
Notes
Indexed by E. B. PALMER AUG 2 [illegible]

H. P. # 1

F. B. 2450 Pg. 160

FROM	TO	VERT. ANGLE	SLOPE DIST.	HORZ. DIST.	F.B. REF		TEMP.	PRESS	COR.	
S-2	P-2	4°40'08"	396.04	394.726	[illegible]		66°	30.6	0	
S-2	P-3	1°15'33"	509.175	509.052	[illegible]		66°	30.6	0	
S-2	P-4	2°36'05"	540.258	539.701	[illegible]		66°	30.6	0	
S-2	P-6	4°20'25"	621.50	619.717	[illegible]		66°	30.6	0	
S-2	S-4	6°-13'-15"	738.93	734.578	[illegible]		66°	30.6	0	
S-3	P-9	11°02'-50"	152.91	150.077	[illegible]		66°	30.6	0	
S-3	P-8	5°07'-55"	323.775	322.477	[illegible]		66°	30.6	0	
S-3	P-7	1°-12'-50"	385.13	385.044	[illegible]		66°	30.6	0	
S-3	P-6	3°-36'-50"	530.13	529.076	[illegible]		66°	30.6	0	
S-3	W-1	6°-43'-40"	524.58	520.97	[illegible]		66°	30.6	0	
S-3	W-2	4°-06'-43"	405.05	404.01	[illegible]		66°	30.6	0	
S-3	W-3	4°42'-20"	298.74	297.732	[illegible]		66°	30.6	0	
RS	W-1	2°-58'-08"	369.56	369.06	[illegible]		68°	30.5	0	

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F. B. 2450 PG. 161

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0301.03 Division No. 11
Date ____ Date ____ Survey of CARBON MESA LANDSLIDE
X-Sec. No. ____ Notes Ch'd. R. C. BOWERS Checked ____ Survey by M.E.W. Notes M.E.W Date JULY-76
Date ____ Date ____ Map No. ____ Index J. R. PALMER Date AUG 2 1976

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

J.N. 0301.03

CARBON MESA LANDSLIDE

LEVELS

RERUN OF LEVEL CIRCUT FOR

VERTICAL CONTROL 28-JULY-76

REF:

F.B. 2450-68

PARTY:

WACKER

DOVER

TOLLISON

76-L298 CE 307 5-66

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.		
B.M. C.M.#7	6.085	70.188		64.103	B.M. CARBON MESA #7	EL= 64.103
					PER. F.B. 2450-68	
T.P.	11.044	80.991	0.241	69.947		
T.P.	11.458	92.187	0.262	80.729		
T.P.	11.818	103.725	0.280	91.907		
T.P.	11.918	115.416	0.227	103.498		
T.P.	11.999	127.128	0.287	115.129		
T.P.	11.944	138.864	0.208	126.920		
T.P.	11.680	150.295	0.249	138.615		
T.P.	11.469	161.488	0.276	150.019		
T.P.	11.195	172.427	0.256	161.232		
T.P.	9.340	181.319	0.448	171.979		
B.M. C.M.#6			2377	178.942	B.M. CARBON MESA #6	EL= 178.977
	10.838	189.780			PER. F.B. 2450-70,	ADJ. EL= 178.942
T.P.	11.824	201.297	0.307	189.473		
T.P.	11.272	212.078	0.491	200.806		
T.P.	11.223	222.085	1.216	210.862		
T.P.	11.594	233.080	0.599	221.486		
T.P.	11.358	243.943	0.495	232.585		
T.P.	11.068	254.480	0.531	243.412		
T.P.			0.491	253.989		

F. B. 2450 PG. 162 Job No. 03.01.03 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of CARBON MESA LANDSLIDE Date ____ Date ____ No. ____
Survey by M.E.W. Notes M. E. WACKER Notes Ck'd R. C. BOWERS Checked ____ X-Sec. ____
Indexed R. PALMERI Date AUG 2 1973 Date ____ Date ____ No. ____

76-L-298 CE 307 5-66

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Profile Notes Red ____ Plotted ____ Job No. 0320.03 Division No. 11
No. ____ Date ____ Date ____ Survey of CARBON MESA LANDSLIDE
X-Sec. ____ Notes R.H.G. BOWERS Checked ____ Survey by M.E.W. Notes M.E.W. Date JULY - 76
No. ____ Date ____ Date ____ Map No. ____ Index 30 E. PALMER Date AUG 2 1976

F. B. 2450 PG. 163

STATION	B. S.	H. I.	F. S.	ELEV.	
	8.387	262.376		253.989	
P-4	0.546	259.648	3.274	259.102	F.B. 2450 - 48, 71, 127, 149
T.P.	0.720	250.496	9.872	249.776	
P-3	4.435	250.366	4.565	245.931	F.B. 2450 - 48, 71, 127, 149,
P-7	5.708	246.026	10.048	240.318	F.B. 2450 - 50, 71, 127, 149,
T.P.	0.274	235.006	11.294	234.732	
T.P.	6.809	230.718	11.177	223.829	
P-8	0.941	220.198	11.461	219.257	F.B. 2450 - 50, 71, 127, 149,
T.P.	2.122	211.028	11.292	208.906	
P-2	8.480	210.696	8.812	202.216	F.B. 2450 - 50, 71, 127, 149.
T.P.	11.783	220.694	1.785	208.911	
T.P.	11.844	221.920	10.618	210.076	
T.P.	11.480	232.067	1.333	220.587	
W-3	8.100	232.289	7.878	224.189	F.B. 2450 - 50, 72, 127, 149,
T.P.	11.826	241.302	2.813	229.476	
T.P.	11.279	250.545	2.036	239.266	
T.P.	8.158	258.260	0.443	250.102	
T.P.	11.170	269.251	0.179	258.081	
T.P.	11.073	279.818	0.506	268.745	
W-2	10.253	288.480	1.591	278.227	F.B. 2450 - 50, 73, 128, 149,
P-6			7.114	281.366	F.B. 2450 - 50, 74, 128, 149,

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.	
	11.829	293.195		281.366	
T. P.	4.853	297.230	0.818	292.377	
P-5	12.000	303.273	5.957	291.273	F.B. 2450-48, 75, 128, 150,
T. P.	11.982	314.875	0.380	302.893	
T. P.	5.663	315.524	5.014	309.861	
S-4	0.480	315.421	0.583	314.941	F.B. 2450-48, 75, 128, 150
T. P.	11.363	315.078	11.706	303.715	
T. P.	5.044	315.715	4.407	310.671	
W-1	5.665	315.672	5.708	310.007	F.B. 2450-50, 75, 128, 150
T. P.	6.831	317.500	5.003	310.669	
T. P.	11.525	328.522	0.503	316.997	
T. P.	11.817	339.709	0.630	327.892	
T. P.	11.582	350.970	0.321	339.388	
T. P.	11.822	362.371	0.421	350.549	
T. P.	11.995	374.143	0.223	362.148	
T. P.	11.765	385.528	0.380	373.763	
T. P.	7.476	392.238	0.766	384.762	
B.M. CM#5			4.148	388.090	B.M. CM#5 EL = 388.039
					F.B. 2450-77

F. B. 2450 Pg. 164 Job No. 0301.03 Division No. 11 Notes Red Plotted Profile
Survey of CARBON MESA LANDSLIDE Date Date No.
Survey by M.E.W. Notes M. E. WACKER Notes Checked R. G. BOWERS X-Sec.
Indexed R. M. PALMERI Date AUG 2 1976 Date Date No.

76-L-298 CE 307 5-66

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Profile Notes Red____ Plotted____ Job No 23DL83 Division No 11
No.____ Date____ Date____ Survey of CARBON MESA LANDSLIDE
X-Sec. Notes R.E. BOWERS Checked____ Survey by M.E.W. Notes M.E.W. Date JULY - 76
No.____ Date____ Date____ Map No.____ Indexed R. PALMER Date AUG 2 1976

F. B. 2450 PG. 165

STATION	B. S.	H. I.	F. S.	ELEV.		
	1.457	202.467		201.010	= FROM BTM. PG-166	
P-1	11.962	205.809	8.620	193.847	E.B. 2450-84, 130, 152	
T.P.	11.474	216.727	0.556	205.253		
T.P.	11.612	226.261	2.078	214.649		
T.P.	11.679	237.048	0.292	225.969		
S-2			2.072	234.976	E.B. 2450-83, 131, 152	
	4.793	239.769			SEE PG-47	
S-1			6.989	232.780	E.B. 2450-83, 131,	
	9.324	242.104	.	.		
T.P.	8.856	250.218	0.742	241.362		
T.P.	8.950	256.104	3.064	247.154		
B.M. C.M.# A			3.052	253.052 (+0.002)	B.M. CARBON MESA #A E.B. 2450-83	EL = 253.049

76-L-298 CE 307 5-66

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F. B. 2450 Pg. 166 Job No. 030.03 Division No. 11 Notes Red ____ Plotted ____ Profile
Survey of CARBON MESA LANDSLIDE Date ____ No. ____ X-Sec.
Survey by M.E.W. Notes M. E. WACKER Checked R.O. BOWERS
Indexed by PALMER Date AUG 2 1966 Date ____ No. ____

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
B.M. C.M.# 2				357.143	B.M. CARBON MESA #2 EL = 356989 = 1960, F.B. 2633-14, F.B. 2450-81 = EL = 357.143	
	0.467	357.610				
T. P.	0.584	347.095	11.099	346.511		
T. P	0.456	335.666	11.885	335.210		
T. P.	0.540	324.398	11.808	323.858		
T. P.	0.728	313.409	11.717	312.681		
T. P.	1.773	304.090	11.092	302.317		
T. P.	0.533	292.959	11.664	292.436		
T. P.	0.422	281.793	11.588	281.371		
T. P.	0.565	270.767	11.591	270.202		
T. P.	0.703	259.680	11.790	258.977	(+0.059)	
B.M. CM# 4			6.622	253.058	B.M. CARBON MESA #4 EL = 253.049	
	4.639	257.697			F.B. 2450-83	
S-3	0.520	248.957	9.260	248.437	F.B. 2450-83, 130, 152.	
T.P.	0.534	237.964	11.527	237.430		
T.P.	0.933	228.152	10.745	227.219	F.B. 2450-83, 130, 152.	
P-9	0.797	219.761	9.188	218.964		
T.P.	4.130	212.570	11.321	208.440		
T.P.			11.560	201.010	= TO TOP PG-165	

Notes Ck'd by R. HILARIO	Survey of Carbon Mesa Slides
Map No.	JN 0301.03 Tape H.P. Std °F
Office Work	Surveyed by Tom Mankey
Checked R. HILARIO	Notes Tom M. Date 7-77
Date	Indexed G. D. BAILEY

F. B. 2450 PG. 167

J. N. 0301.03

CARBON MESA SLIDES

CONTROL INDEX

Mankey
Dover
Lund
Scherb

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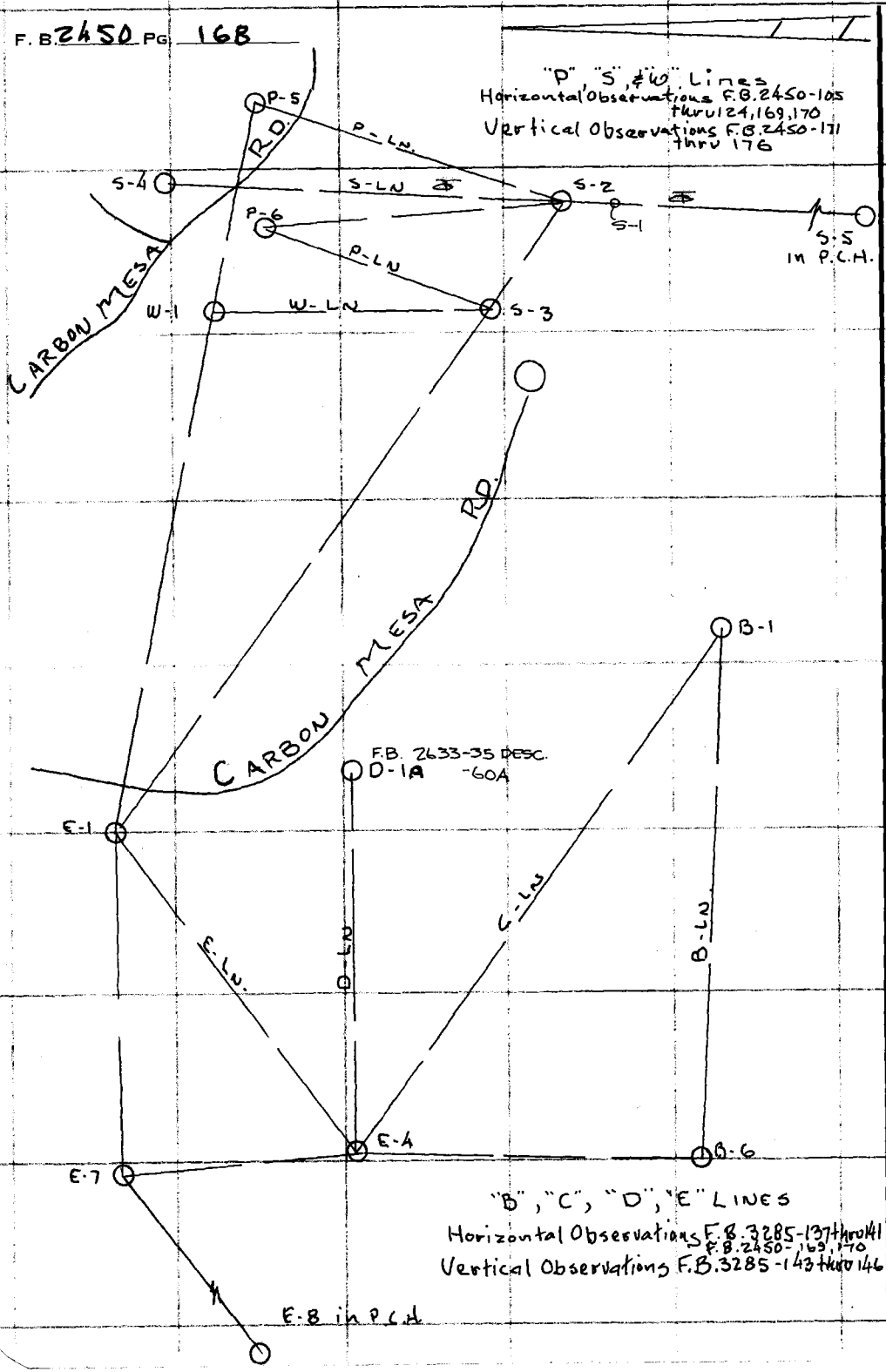
16F309 CE#310 3-69

F. B. 2450 PG. 16B



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From	To	Vert. Angle	Slope Dist.	Horiz Dist.	F.B. Ref	Temp	Press	Cor
L.F. E-7	L.F. E-8	11° 48' 00"	1862.74'	1823.38' ✓	2450-158	76°	30.4	+05
L.F. E-7	E-1	0° 09' 55"	619.26'	619.26' ✓	2450-158	"	"	"
E-4	E-7	16° 33' 55"	345.09'	330.77' ✓	2450-157	76	30.4	+05
E-4	B-6	15° 39' 25"	546.41'	526.14 ✓	2450-157	76	30.4	-05
*S-4	~~B-6~~ S-5	17° 51' 37"	709.11	674.94 ✓	2450-158	72	30.6	+00
S-1	S-2	⌓ 100'	Steel Tape #020	T=74° 81.56	2450-158			
~~S-1~~	~~S-1~~			~~674.94~~				
S-2	S-3	3° 07' 55"	255.56'	255.18 ✓	2450-114	72	30.6	0
S-2	P-1	12° 55' 00"	182.53	177.91 ✓	2450-121	"	"	"
S-2	P-5	4° 59' 40	645.40'	642.95 ✓	2450-117	"	"	"
P-5	E-1	4° 38 40	1346.775	1342.35 ✓	2450-122	"	"	"
S-2	P-2	4° 42' 45"	396.06'	394.72' ✓	2450-120	"	"	"
S-2	P-3	1° 15' 09"	509.17'	509.05' ✓	2450-119	"	"	"
S-2	P-4	2° 28' 47"	540.21'	539.70' ✓	" 118	"	"	"
S-2	P-6	4° 18' 20"	621.47'	619.72 ✓	" 115	"	"	"
S-2	S-4	6° 13' 15"	738.92	734.57 ✓	" 116	"	"	"
S-3	P-9	11° 08' 05"	152.966	150.09 ✓	" 112	"	"	"
S-3	P-7	1° 14' 42"	385.03'	384.94 ✓	" 110	78°	30.6	+05
S-3	P-8	5° 15' 31"	323.742	322.38 ✓	" 111	"	"	"

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

Survey of Carbon Mesa Slides
JN 0301.03 Tape H.P. Std °F
Surveyed by Tom Mankey
Notes Tom M. Date 7/2/77
Indexed G.D. BAILEY SEP 6 1977

F.B. 2450 PG. 169

F. B. 2450 Pg. 170

From	To	Vert. Angle	Slope Dist.	Horiz Dist	F.B. REF.	TEMP.	PRESS	COR
S-3	P-6	3° 30' 11"	530.064'	529.07'	2450-109	78	30.6	+05
S-3	W-1	6° 40' 53"	524.52'	520.96'	" 106	72	30.6	0.0
S-3	W-2	4° 03' 32"	404.994'	403.98'	" 107	"	"	"
S-3	W-3	4° 51' 17"	298.697'	297.63'	" 108	"	"	"
P-5	W-1	2° 57' 08"	369.51	369.02'	" 123	80	30.6	+05

July 1977

Transit at	Initial	Direction			
E-1	S-2	E-4	112° 06' 40"	F.B. 1330-13	2450 - 158
E-1	E-4	E-7	28° 26' 53"	" " 13	" "
E-7	E-1	E-4	88° 27' 51"	" " 15	" "
E-4	E-7	E-8	59° 40' 41"	" "	" "
E-4	E-7	E-1	63° 05' 30"	" " 16	" 157
E-4	E-1	D-1	31° 50' 53"	" " "	" "
E-4	D-1	B-1	17° 10"	" " "	" "
E-4	B-1	B-6	59° 12' 11"	" " 16	" "
B-6	E-4	B-1	91° 29' 03"	" " 1780	" "
B-1	B-6	E-4	29° 18' 29"	" " 20	" "

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F. B. 2450 Pg. 171

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0301.03 Division No. ____

Date ____ Date ____ Survey of Carbon Mesa Slides

X-Sec. No. ____ Notes Chkd. ____ Checked P. HILARIO Survey by Mankey Notes Dover Date 8-1-'77

Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date SEP 6 1977

J. N. 0301.03

CARBON MESA SLIDES

VERTICAL OBSERVATIONS

on

"P" LINE, "W" LINE, & "S" LINE

Mankey
Dover
Lund
Scherb

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

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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761-298 S & E #307—1-56

76L-298 S & E #307—1-56

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
B.M. C.M. #7 #(fd)	5.408	69.511		64.103	B.M. Carbon Mesa #7 F.B. 2450-68	EL.: 64.103
T.P.	11.322	78.970	1.863	67.648 ~~1.86~~		
T.P.	11.699	90.433	0.236	78.734		
T.P.	11.719	101.663	0.489	89.944		
T.P.	11.574	112.829	0.408	101.255		
T.P.	11.936	124.492	0.273	112.556		
T.P.	11.813	135.898	0.407	124.085		
T.P.	11.303	146.817	0.384	135.514		
T.P.	11.931	158.296	0.452	146.365		
T.P.	11.441	169.375	0.362	157.934		
T.P.	10.803	179.802	0.376	168.999		
B.M. CM #6			0.869	178.933	BM CM#6 ELEV = 178.977 PER F.B. 2450-70	
	0.863	179.796		+.044	ERROR OF CLOSURE	
T.P.	9.940	189.416	0.320	179.476		
T.P.	11.368	200.210	0.574	188.842		
T.P.	11.092	211.105	0.197	200.013		
T.P.	11.250	222.088	0.267	210.838		
T.P.	11.313	233.101	0.300	221.788		
T.P.	11.484	244.192	0.393	232.708		
T.P.	11.812	255.622	0.382	243.810		
			0.482	255.140		

F. B. 2450 PG. 172 Job No. 0301.03 Division No. Notes Red. Plotted Profile
Survey of Carbon Mesa Slides Date Date No. X-Sec.
Survey by Tom Manke Notes Dover Notes Chkd. Checked
Indexed G. D. BAILEY Date SEP 8 1977 Date Date No.

76-L 298 CE 307 8-70

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Profile Notes Red Plotted Job No. 0301.03 Division No.
No. Date Date Survey of Carbon Mesa Slides
X-Sec. Notes Chk'd. Checked R. HILARIO Survey by Mankel Notes Dater Date 1 Aug 77
No. Date Date Map No. Indexed J. D. Ball Fy Date

F. B. 2450 Pg. 173

STATION	B. S.	H. I.	F. S.	ELEV.	
T.P.	8.223	263.363		255.140	(CONT.)
P-4	0461	259.522	4.302	259.061	FB 2450 - 48-71-127-149-163
T.P	0842	250 579	9785	249.737	
P-3	4.467	250.354	4.692	245.887	FB 2450 - 48-71-127-149-163
T.P	3.362	247.624	6.092	244 262	
P-7	0353	240.630	7.347	240.277	FB 2450 - 50-71-127-149-163
T.P	0337	229.472	11495	229.135	
T.P	0.208	218.338	11.342	218.130	
T.P	2.475	211.340	9,473	208.865	
P-2	11.503	213.673	9,170	202,170	FB 2450 - 50-71-124-149-163
T.P.	10.148	222.453	1.368	212.305	
P-8	2.073	221.259	3.267	219.186	
T.P.	11.452	230.845	1.866	219.393	
W-3	8177	232.275	6.747	224,098	FB 2450 - 50-72-127-149-163
T.P.	11.137	240,533	2.879	229.396	
T.P.	8.607	248.647	0.493	240.040	
T.P.	11.801	260.255	0.193	248.454	
T.P	10.139	270.069	0325	259.930	
T.P.	10.999	278.513	2.555	267.514	
W-2	9725	287.817	0.421	278.092	FB 2450 - 50,73, 128, 149, 163
P-6			6.495	281.~~422~~ 322	FB 2450 - 50-73, 128, 149-163

76-L-298 CE 307 8-70

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F. B. 2450 Pg. 174 | Job No. 0301.03 Division No. | Notes Red | Plotted | Profile
Survey of Carbon Mesa Slide | Date | Date | No.
Surveyed by Tom Manley Notes Dewey | Notes Chk'd. | Checked | X-Sec.
Indexed G. D. B. Date | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.	
P-6	10.953	292.275		281.322	(CONT.)
T.P.	6.375	297.712	0.938	291.337	
P-5	8.110	299.273	6.549	291.163	FB 2450-48-75-128-150-164
T.P.	10.477	309.146	0.604	298.669	
T.P.	6.992	315.563	0.575	308.571	
S-4	0.678	315.560	0.681	314.882	FB 2450-48-75-128-150-164
T.P.	1.375	305.777	11.158	304.402	
T.P.	9.452	314.287	0.942	304.835	
W-1	5.758	315.690	4.355	309.932	FB 2450-50-75-128-150-164
T.P.	11.670	323.927	3.433	312.257	
T.P.	11.558	335.121	0.364	323.563	
T.P.	11.608	346.338	0.391	334.730	
T.P.	11.355	356.982	0.711	345.627	
T.P.	11.773	368.306	0.449	356.533	
T.P.	11.877	379.766	0.417	367.889	
T.P.	11.080	390.184	0.662	379.104	
BM "CM" #5			2.129	388.055	BM CARBON MESA #5 ELEV = 388.039

FB 2450-77
-.016 ERROR OF CLOSURE

76-L 298 CE 307 8-70

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STATION	B. S.	H. I.	F. S.	ELEV.	
BM CM #4	3.780	256.829		253.049	BM CARBON MESA #4 ELEV = 253.049
S-3	0.682	249.103	8.408	248.421	PER F.B. 2450-83 (THIS BENCH MARK NORMAL & NOT SHOWN TO BE MOVING PER LAST RUN PER FB 2450-166
T.P.	0.669	239.007	10.765	238.338	
T.P.	2.376	229.506	11.877	227.130	
P-9	1.899	220.856	10.549	218.957	
T.P.	0.217 ~~11.802~~	209.271	11.802	209.054	
T.P.	4.937	202.253	11.955	197.316	
P-1	11.007	204.842	8.418	193.835	FB 2450. 84, 130, 142, 165
T.P.	11.924	216.496	0.270	204.572	
T.P.	11.328	227.455	0.369	216.127	
T.P.	9.106	236.237	0.324	227.131	
S-2	4.829	239.798	1.268	234.969	FB 2450 - 83, 131, 152, 165
S-	8.451	241.219	7.030	232.768	FB 2450 - 83, 131, 165,
T.P.	11.056	251.814	0.461	240.758	
T.P.	7.204	258.205	0.813	251.001	
BM CM #4			5.155	253.050	BM CARBON MESA #4 ELEV = 253.049 (SEE ABOVE DESC.)

Profile Notes Red Plotted Job No. 0361.03 Division No.
No. Date Date Survey of Carbon Mesa Slide
X-Sec. Notes Chk'd. Checked H. HILARIO Survey by Ian Manley Notes Dover Date 1 Aug 77
No. Date Date Map No. Indexed G. D. BAILEY Date SEP 8 1977

F. B. 2450 Pg. 175

F. B. 2450 PG. 176 | Job No. 0301.03 Division No. | Notes Red | Plotted | Profile

Survey of Carbon Mesa Slide | Date | Date | No.

Survey by Tom Manley Notes Dover | Notes Chk'd. | Checked | X-Sec.

Indexed | Date | Date | Date | No.

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

76-L-298 CE 307 8-70

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F. B. 2450 PG. 177

Profile No. | Notes Red | Plotted | Job No. 0021.92 | Division No.
Date | Date R. HILARIO | Survey of CARBON MESA LANDSLIDE
X-Sec. No. | Notes Chk'd. | Checked | Survey by DALE & LIND | Notes RCD | Date 3-3-78
Date | Date | Map No. | Indexed S. D. BAILEY | Date MAY 23 1978

CARBON MESA LANDSLIDE A268

VERTICAL OBSERVATIONS

ON

"P" LINE, "W" LINE & "S" LINE

JN 0021.92

MARCH 3 1978

PARTY

LIND, DALE

DOVER

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

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76-L-298 CE 307 8-70

76-L-298 CE 307 8-70

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Do not extend notes this side of this line.

F.B. 2450 Pg. 179 | Job No 22192 Division No. | Notes Red | Plotted | Profile
Survey of CARBON MESA | Date | Date | No.
Survey by DALE ELLIS & Notes R.S.D. | Notes Chk'd R. HILARIO | Checked | X-Sec.
Indexed J. D. BAILEY | Date MAY 23 1970 | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.		
BM CM-7	6.136	70.289			BM CARBON MESA #7 EL=64.103 USE RB 2450-68 CARBON MESA RD. (WEST SIDE) 0.2± MI NLY PACIFIC COAST HWY. 100± NLY HSE #3839, 25' W. & PVMT. 4 BT FPR IN LEAD ON TOP OF L SHAPED CONC HEADWALL 0.6 NNW. OF SE. COR. MKD BM CM-7 RE 1970	
T.P.	10.541	60.553	0.358			
T.P.	10.162	71.055	0.560	71.110		
T.P.	11.700	102.250	0.505	60.340		
T.P.	11.823	113.658	0.527	101.827		
T.P.	11.356	124.635	0.379	113.302		
T.P.	11.954	136.284	0.305	124.680		
T.P.	11.609	146.913	0.980	135.304		
T.P.	11.512	158.554	0.235	147.402		
T.P.	11.586	170.055	0.385	158.969		
T.P.	10.617	179.505	0.767	169.388		
BM CM-6	0.958	189.410	0.973	178.452	BM IN TOP OF CONC HEADWALL AT E. SIDE OF CARBON MESA RD. 0.4± MI NLY PACIFIC COAST HWY. 90± N.ELY OF E PVMT. OF CARBON MESA RD & CARBON CYN RD. 4.0 S. OF R.R. 25± W OF NW. COR OF HSE #3714. PROTECTED ON N.W. BY L.G. SANDSTONE AND A 2" IRR PIPE 2' EAST. A STD. C.E. BUTTON TYPE MON. FLUSH MKD BM C.M.-6 RE 1970 PER FB 2450-70	
T.P.	10.107	188.339	1.203	177.232		
T.P.	10.052	197.889	0.502	187.837		
T.P.	6.342	203.921	0.510	197.579		
T.P.	10.746	212.051	2.610	201.305		
T.P.	11.212	222.735	0.624	211.523		
T.P.	11.957	234.331	0.361	222.374		
T.P.	10.842	244.329	0.844	233.487		
T.P.	11.733	256.217	0.370	244.484		
T.P.	6.447	262.447	0.220	255.770		

76-L 298 CE 307 8-70

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STATION	B. S.	H. I.	F. S.	ELEV.		
		262.457				
P-4	1.379	260.419	3.417	259.040	P-4 [illegible]	FB2450-48, 71, 127, 149, 163, 173
	0.981	251.848	9.552	250.867		
	2.122	247.514	6.456	245.392		
P-3	1.504	247.431	1.587	245.927	P-3	FB2450-48, 71, 127, 149, 163, 173
	1.310	237.852	10.889	236.542		
	0.537	227.631	10.758	227.094		
	0.654	216.657	11.628	216.003		
	8.079	214.159	10.577	206.080		
P-2			11.972	202.187	P-2	FB2450, 50, 71, 124, 149, 163
	8.291	221.507	0.943	213.216		
P-8			3.537	217.970	P-8	FB2450-50, 72, 127, 149, 163, 173
	11.806	232.768	0.545	220.962		
	11.285	243.620	0.433	232.335		
P-7			4.171	239.449	P-7	FB2450-50, 71, 127, 149, 163, 173
	6.296	247.483	2.433	241.187		
	2.128	239.751	9.860	237.623		
	2.744	231.181	11.314	228.437		
W-3			8.123	223.058	W-3	FB2450-50, 72, 127, 149, 163
	11.320	240.194	2.807	228.374		
	9.343	246.867	2.670	237.524		

Profile No. ____ Notes Red ____ Plotted ____ Job No. 002192 Division No. ____ F.B. 2450 PG. 179
Date ____ Date ____ Survey of CARBON MESA LANDSLIDE
X-Sec. No. ____ Notes Chk'd. R. HILARIO Checked ____ Survey by LIND & DALE Notes DALE Date [illegible]
Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date MAY 23 1978

76-L-298 CE 307 8-70

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STATION	B. S.	H. I.	F. S.	ELEV.		
		246.867				
	10.777	253.577	4.067	[illegible]		
	11.786	263.488	1.875	[illegible]		
	11.289	271.702	3.075	[illegible]		
	11.698	282.098	1.302	270.400		
W-2			7.123	[illegible]	W-2	FB2450-50, 73, 128, 149, 163, 173
	11.676	293.216	0.558	[illegible]		
	11.878	302.125	2.969	[illegible]		
	10.852	311.879	1.018	[illegible]		
	6.419	314.755	3.543	[illegible]		
W-1	2.328	312.~~283~~ 328	4.755	~~[illegible]~~ 310.00	W-1	FB2450-50, 75, 128, 150, 164, 174
	1.106	301.~~737~~ 82	11.652	[illegible] 676		
	0.218	290.~~441~~ 66	11.514	[illegible] 68		
P-6			9.050	291.~~391~~ 436	P-6	FB2450-50, 73, 128, 149, 163, 173
	11.534	301.~~750~~ 95	0.225	[illegible] 61		
P-5			10.423	291.~~327~~ 72	P-5	FB2450, 48, 75, 128, 150, 164, 174
	11.397	312.~~691~~ 736	0.456	301.~~294~~ 339		
	8.045	319.~~104~~ 69	1.632	[illegible] 104		
S-4			4.042	[illegible] 107	S-4	FB2450-48, 75, 128, 150, 164, 174
	0.910	309.~~144~~ 89	10.870	308.~~234~~ 79		
	9.623	314.~~[illegible]~~ 57	4.455	304.~~689~~ 734		

F. B. 2450 PG. 180 Job No. 0021.92 Division No. Notes Red Plotted Profile
Survey of CARBON MESA LANDSLIDE Date Date No.
Survey by LIND & VALE Notes RCD Notes Chk'd. R. HILARIO Checked X-Sec.
Indexed G. D. BAILEY Date MAY 23 1978 Date Date No.

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.		
		314.~~312~~ 357				
T.P.	11.772	335.~~169~~ 314	0.915	313.~~399~~ 442		
T.P.	11.679	336.~~574~~ 319	0.272	324.~~877~~ 942		
T.P.	11.[illegible]	347.~~234~~ 79	0.633	335.~~941~~ 86		
T.P.	11.740	358.~~[illegible]~~ 74	0.[illegible]	346.~~339~~ 434		
T.P.	10.3[illegible]	362.~~[illegible]~~ 71	0.272	357.~~269~~ 902		
T.P.	11.362	379.~~280~~ 314	0.30[illegible]	367.~~9[illegible]~~ 63		
T.P.	10.569	389.~~556~~ 601	0.293	37[illegible].~~[illegible]~~ 9.032		
Bm Cm#5			1.505	388.~~051~~ .090	BM. CM#5 EL = 388.039 CARBON MESA RD. N.E. SIDE. 0.8± M. NLY OF PACIFIC COAST HWY 20' ELY OF ℄ PAVEMENT 40' NLY OF PVT DRIVE TO ARC #22105 5' S. OF TRANSFORMER P#7706 22E A 2" MARKER P.P. 3' ARM. A STD. CE BUTTON TYPE MON. FLUSH STAMPED BM CM5 RE7078 F32450-77	

Profile Notes Red ____ Plotted ____ Job No. [illegible] Division No. ____ F. B. 24450 Pg. 781

No. ____ Date ____ Date ____ Survey of CARBON MESA LAND SLIDE

X-Sec. Notes Chk'd. R. HILARIO Checked ____ Survey by [illegible] Notes [illegible] Date 3-10-78

No. ____ Date ____ Date ____ Map No. ____ Indexed S. D. BAILEY Date MAY 23 1978

76-L-298 CE 307 5-66

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F. B. 2450 PG. 182 | Job No 22172 Division No. | Notes Red | Plotted | Profile
Survey of CULBERTA MESA LANE SEWER | Date | Date | No.
Survey by UDF & BAL Notes | Notes Chkd R. HILARIO | Checked | X-Sec.
Indexed D. BAL Date MAY 23 1978 | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.	
Bm Cm 4	1.833	254.882		253.049	Bm Cm 4 EL = 253.049 PER FB 2450, 166 83 AT END OF NEBOM MESA RD (NOW DESA) 1.5 MI EAST OF [illegible] ON APPROX ℄ PROJ. 4' TO ENGRAVED X IN HUB FB 2455-82
S-3	7.206	250.661	6.427	244.455	S-3 PER FB 2450-83, 175
	1.327	242.358	9.574	241.007	
	2.179	232.385	11.154	230.034	
P-9	0.679	224.285	7.777	223.606	
P-9	1.377	220.115	5.547	218.738	P-9 PER FB 2450-84
	9.741	214.088	10.768	204.347	
	0.523	205.120	9.511	204.597	
P-1	11.207	205.135	11.192	193.928	P-1 FB 2450-84, 130, 142, 165, 175
	9.634	214.384	0.385	204.750	
	11.522	223.266	2.640	211.744	
	11.141	233.152	1.255	222.011	
	7.574	239.397	1.337	231.823	
S-1	6.534	239.326	6.597	232.792	S-1 PER FB 2450-83, 131, 152, 165, 175
S-2	6.967	241.963	4.330	234.996	S-2 PER FB 2450-83, 131, 152, 165, 175
	9.035	250.595	0.393	241.560	
	6.651	256.453	0.793	249.802	
Bm Cm 4			3.402	253.051	Bm Cm 4 EL = 253.049 SEE ABOVE

Notes Ck'd by R. HILARIO	Survey of CARBON MESA LANDSLIDE F. B. 2450 PG. 183
Map No.	JN 0021.92 Tape H.P. Std — °F
Office Work	Surveyed by C.K. LIND
Checked	Notes R. DOVER Date 3-78
Date	Indexed G. D. BAILEY MAY 2 3 1978

J.N. 0021.92

CARBON MESA LANDSLIDE CONTROL INDEX

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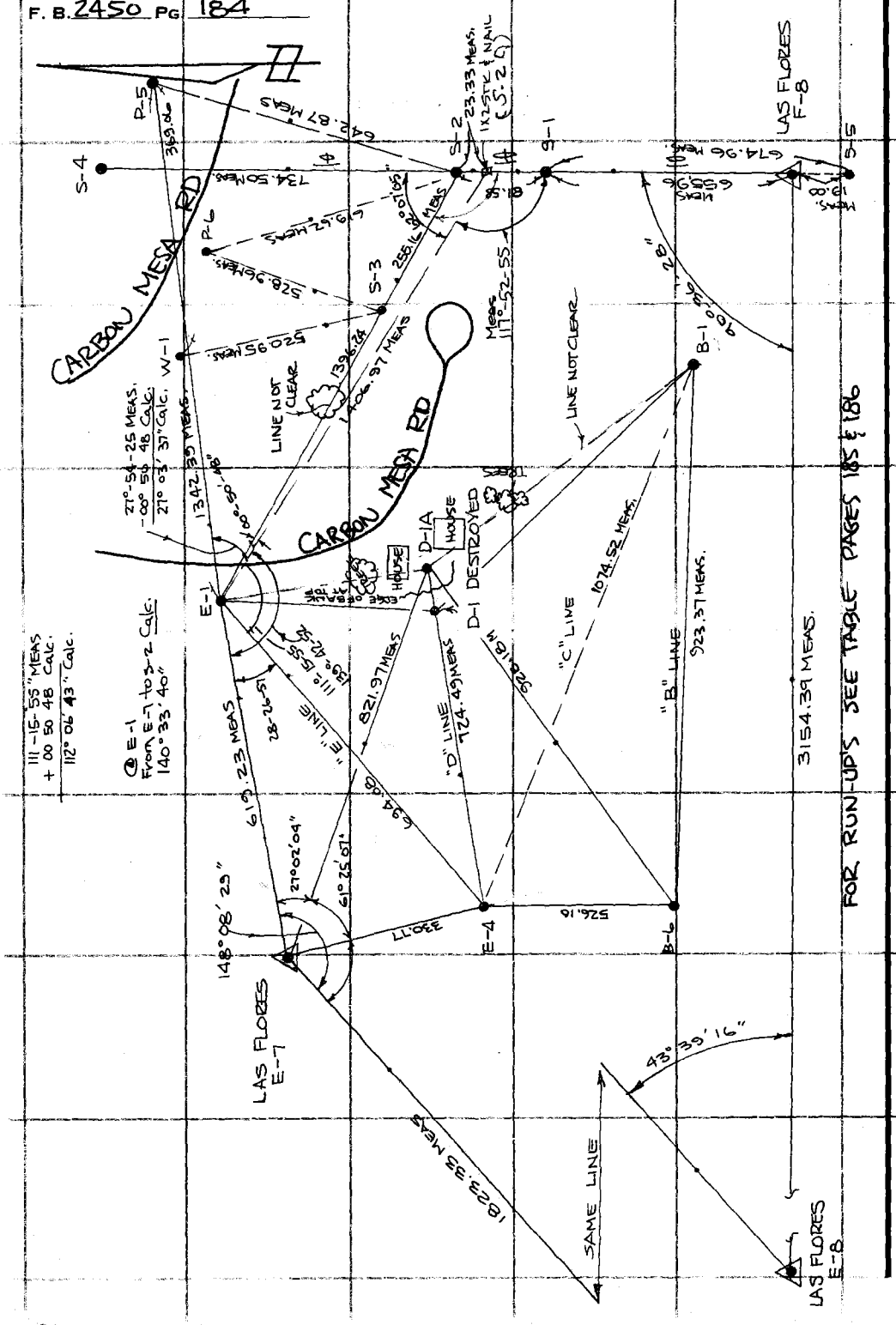
		PARTY
TERANOVA	LIND	ENGLISH
ALMANZAN	DALE	CARO
T.C. PETERSON	DOVER	BRADLEY

6F305 CE#310 3-68

F. B. 2450 PG 184



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76F300S CE#310 3-69

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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 this side of this line.

FROM	TO	VERT ∠	SLOPE DIST.	HORIZ DIST	F.B. REF.	TEMP	PRESS	CORR.
L.F. E-7	L.F. E-8	101° 53' 36"	1849.38	1809.68 +13.65 = 1823.33	F.B. 2450-184	58°	30⅛	-05
L.F. E-7	E-1	00° 08' 16"	619.23	619.23 ✓	F.B. 2450-184	68°	30⅙	00
E-4	E-7	286° 50' 30"	345.59	330.77 ✓	F.B. 2450-184	60°	30⅙	-05
E-4	B-6	105° 27' 48"	545.86	526.10 ✓	F.B. 2450-184	60°	30⅙	-05
S-1	S-5	71° 39' 11"	691.09	655.96 + 19.00 = 674.96	F.B. 2450-184	66°	31⅛	-05
S-2	S-3	93° 04' 50"	255.53	255.16 ✓	F.B. 2450-184-114	82°	30⅙	+02
S-2	P-1	103° 00' 40"	182.635	177.95 ✓	F.B. 2450-121	80°	30⅙	+02
S-2	P-2	94° 44' 23"	395.99	394.64 ✓	F.B. 2450-120	80°	30⅛	+02
S-2	P-3	~~272° 34' 48"~~ 271° 12' 52"	~~540.20~~ 509.135	~~539.65~~ 509.02	F.B. 2450-119	80°	30⅛	+02
S-2	P-4	272° 34' 48"	540.20	539.65 ✓	F.B. 2450-118	80°	30⅛	+02
S-2	P-5	84° 59' 20"	645.34	642.87 ✓	F.B. 2450-117-184	80°	30⅛	+02
S-2	S-4	276° 13' 45"	738.865	734.50 ✓	F.B. 2450-116-184	80°	30⅛	+02
S-2	P-6	85° 42' 58"	621.355	619.62 ✓	F.B. 2450-115-184	78°	30⅛	+02
S-3	P-6	86° 28' 00"	529.97	528.96 ✓	F.B. 2450-184-109	78°	30⅛	+02
S-3	P-9	101° 11' 00"	153.06	150.15 ✓	F.B. 2450-112-184	80°	30⅙	+02
S-3	P-8	95° 34' 40"	318.645	317.14 ✓	F.B. 2450-111	80°	30⅙	+02
S-3	P-7	91° 25' 30"	379.155	379.04 ✓	F.B. 2450-110	80°	30⅙	+02
S-3	P-6							
S-3	W-1	276° 42' 18"	524.535	520.95 ✓	F.B. 2450-184 & 106	82°	30⅛	+02
S-3	W-2	273° 39' 58"	401.98	401.16 ✓	F.B. 2450-107	80°	30⅙	+02
S-3	W-3	95° 02' 05"	294.70	293.56 ✓	F.B. 2450-108	80°	30⅛	+02
P-5	E-1	94° 38' 20"	1346.80	1342.39 ✓	F.B. 2450-184 & 122	70°	30⅙	-05
P-5	W-1	87° 06' 10"	369.53	369.06 ✓	F.B. 2450-184 & 123	92°	30⅙	+10
E-1	S-2	LINE NOT CLEAR		1396.24 Calc.	SEE 2450-116 ↙113 ALSO SKETCH			
E-1	S-2 AUX "X"	96° 42' 35"	1416.675	1406.972 ✓	F.B. 2450-116-184-113	70°	30⅛	

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

Survey of CARBON MESA LAND LINE
JN 0021.92 Tape ____ Std ____ °F
Surveyed by C.K. LUND
Notes R. POWER Date 3-78
Indexed G. D. BAILEY MAY 2 3 1978

F. B. 2450 Pg. 185
SEE F.B. 2450-168
"SEE SKETCH"

F.B. 2450 Pg 186

FROM	TO	VERT ∠	SLOPE DIST	HORIZ DIST	F.B. REF.		TEMP.	PRESS.	CORR.
E-1	E-4	8°09-25"	701.17	694.08	F.B. 2450-184		68°	30.6	0
S-1	S-2	LEVEL	———	81.58	F.B. 2450-		68°	30.6	0
LAS FLORES E-8	LAS FLORES F-8	89° 59' 37"	3154.39	3154.39	FB 2450-184		70°	31°	-04
F-8	E-8	90° 00' 45"	3154.39	3154.39	FB 2450-184				
D-1A	E-7	5° 31' 45"	825.81	821.97	FB 2450-184	NEW MEAS.	70°	30.6	0
D-1A	B-6	100° 04' 52"	942.73	928.18	FB. 2450-184		66°	30.2	0
D-1A	E-4	91° 27' 25"	724.72	724.49	F.B. 2450-184				
				SEE FB 3285 PG-155					

T@	INITIAL	TO	DIRECTION	F.B.G.	F.B.	
E-1	S-2	E-4	112°06'43" Calc.		SEE F.B. 2450-184	+ 00°-50'-48" Calc = 112°06'43" Calc.
	S-2 AUX	E-4	111°15'-55" Meas	1330-30		
E-1	E-4	E-7	28°26'57"	1330-21	F.B. 2450-184	
E-1	P-5	S-2	27°03'37" Calc.		F.B. 2450-184	27°-54-25-: 00-50'48" = 27°03'37" Calc.
		S-2 AUX	27°54'25" Meas	1330-30		
LAS FLORES E-7	E-1	D-1A	27° 02' 04"	1330-26	F.B. 2450-184	F.B. 3285-155
		E-4	88° 27' 11"	1330-26		
LAS FLORES →		E-8	148° 08' 23"	1330-26		
L.F. E-8	E-7 (L.F.)	F-8 (L.F.)	48° 39' 16"	1330-24	F.B. 2450-184	
L.F. F-8	E-8 (L.F.)	S-1	90° 36' 28"	1330-25	F.B. 2450-184	
E-4	B-1	B-6	59° 12' 33"	FBG. 1330-27 59° 12' 33"	F.B. 2450-184	F.B. 3285-155
		E-7	229° 45' 16"	63° 06 14"		
		E-1	292° 51' 30"	31° 50' 55"		
		D-1A	324° 42' 25	35° 17'35"		
		B-1				
D-1A	B-6	E-4	34° 24' 39"	1330-22	F.B. 2450-184	F.B. 3285-155
		E-7	58° 02' 46"	1330-22		
B-6	E-4	D-1A	91° 05' 07"	1330-29	F.B. 3285-155 F.B. 2450-184	E-4 to B-1 TOTAL ∠ = 91°-28'-53"
		B-1	40° 23 46			
B-1	B-6	E-4	29° 18' 22"	1330-23		

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0021.92

F. B. 2450 PG. 187

Profile No. | Notes Red | Plotted | Job No. 0021.92 | Division No.
Date | Date | Survey of Carbon Mesa Landslide
X-Sec. No. | Notes Chk'd. | Checked | Survey by English Notes Ed. Date 5-4-78
Date | Date | Map No. | Indexed G. D. BAILEY Date

CARBON MESA LANDSLIDE AREA.

J.N. 0021.92

Vertical Observations on "P" Line, "W" Line & "S" Line.

STATION	B. S.	H. I.	F. S.	ELEV.
Ref. : F.B. 2450 - 177 & 184.				
May 4, 1978. English Caro Stroud Bradley				

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76-L298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.	
Fd. B.M. CM-7	5864	69 967		64 103	B.M. Carbon Mesa #7, F.B. 2450-178
T.P.	10 272	79 576	0 663	69 304	
T.P.	10 615	88 817	1 374	78 202	
T.P.	11 262	99 323	0 756	88 061	
T.P.	10 825	109 331	0 817	98 506	
T.P.	11 294	120 240	0 385	108 946	
T.P.	11 146	130 988	0 398	119 342	
T.P.	10 590	141 211	0 367	130 621	
T.P.	11 089	151 248	1 052	140 159	
T.P.	11 432	162 083	0 647	150 601	
T.P.	11 004	172 717	0 370	161 713	
T.P.	9 701	180 853	1 565	171 152	
Fd. B.M. CM-6	0 000	179 028	1 825	179 028	B.M. Carbon Mesa #6, El = 178.992 F.B. 2450-178
T.P.	10 943	189 319	0 652	178 376	
T.P.	10 951	200 073	0 197	189 122	
T.P.	11 498	211 315	0 256	199 817	
T.P.	11 083	222 087	0 311	211 004	
T.P.	11 423	232 619	0 891	221 196	
T.P.	11 405	243 627	0 397	23[illegible] 22	
T.P.	11 197	254 056	0 768	242 759	
T.P.			0 382	25[illegible]	

F. B. 2450 Pg. 188 | Job No. 0021.92 | Division No. | Notes Red | Plotted | Profile
Survey of Carbon Mesa Landslide | Date | Date | No.
Survey by Emilio | Notes Ed. | Notes Chk'd. | Checked | X-Sec.
Indexed G. D. BAILEY | Date MAY 23 1978 | Date | Date | No.

76-L 298 CE 307 5-66

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Profile Notes Red. Plotted Job No. 20 21.92
No. Date Date Division No.
X-Sec. Notes Chk'd. Checked Survey of Carbon Mesa Landslide
No. Date Date Survey by English Notes Ed. Date 5-4-78
Map No. Indexed C. D. BAILEY Date MAY 23 1978

F. B. 2450 Pg. 179

STATION	B. S.	H. I.	F. S.	ELEV.		
T.P.	9 018	262 692		253 674		El = 259.040 F.B. 2450-179
P-4	0 413	259 450	3 655	259.037	P-4, L.& C.E. Tgg. in conc. drive. Ho.# 22002	
T.P.	2 160	250 342	11 268	248 182		
P-3			4 420	245 922	2" I.P., Pg. 179	
P-7			11 268	239 074	2" I.P., Pg. 179	
T.P.	0 842	239 446	11 238	238 604		
T.P.	0 367	228 417	11 396	228 050		
T.P.	0 594	217 538	11 473	216 944		
T.P.	1 916	214 066	11 468	206 070		
P-2			11 897	202 169	2" I.P., Pg. 179	
T.P.	9 970	221 513	2 523	211 543		
P-8	3 930	221 391	4 052	217 461	2" I.P., Pg. 179	
T.P.	10 583	225 314	6 660	214 731		
W-3			2 650	222 664	2" I.P., Pg. 179	
T.P.	11 972	237 072	0 220	225 094		
T.P.	10 928	247 209	0 849	236 281		
T.P.	11 588	258 542	0 255	246 954		
T.P.	11 124	268 746	0 920	257 622		
T.P.	11 365	279 634	0 477	268 269		
W-2	9 646	282 360	5 940	273 674	2" I.P., Pg. 180	
P-6	11 927	293 308	0 978	281 382	" " " "	

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.	
[illegible]		293 309			
T.P.	[illegible]	[illegible]	0.232	[illegible]	
T.P.	9.198	[illegible]	[illegible]	[illegible]	
W-1	2601	312 556	3.8[illegible]	[illegible]	2" I.P. PG-180
T.P.	0.[illegible]64	301.458	11.962	[illegible]	
P-5			10.149	291 309	2" I.P. PG-180
T.P.	[illegible]	312.341	0.4[illegible]	[illegible]	
T.P.	9.[illegible]	320 225	1.838	[illegible]	
S-4	4.[illegible]	319.557	5.160	[illegible]	2" I.P. PG-180
T.P.	0.610	308.999	11.168	[illegible]	
T.P.	11.998	312.151	8.846	[illegible]	
T.P.	11.832	323.691	0.292	[illegible]	
T.P.	11 979	335.407	0.263	[illegible]	
T.P.	11.639	346 798	0.238	[illegible]	
T.P.	[illegible]	358 587	0.212	[illegible]	
T.P.	11 968	370 325	0.230	[illegible]	
T.P.	11 [illegible]	382 0[illegible]	0.270	[illegible]	
	[illegible]	391 474	1.832	[illegible]	
BMCM-5			3.394	388.080	BMCM-5 ELEV=388.039 PER FB 2456-77

F. B. 2450 Pg. 190 | 0021.92 Job No. | Division No. | Notes Red | Plotted | Profile
Survey of Carbon Mesa Landslide | Date | Date | No.
Survey by English Notes Ed. | Notes Chk'd. | Checked | X-Sec.
Indexed J. D. BAILEY | Date MAY 23 1976 | Date | Date | No.

76-L 298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.	
BM CM4	4.962	258.011		253.049	BM CM-4 ELEV = 253.049 PER FB 2450-166. AT END CARBON MESA RD, INCUL DE SAC. 1.5 MI NW OF PACIFIC COAST HWY. 30' SLY RAD. POINT ON APPROX ℄ PROD. A COENG BRASS CAP IN 4" FB 2450-93
S-3	0.665	249.117	9.559	248.452	
T.P.	1.698	239.545	11.275	237.847	
T.P.	1.372	229.435	11.482	228.063	
P-9	1.936	220.995	10.381	219.054	P-9 2" I.P. PG 182
T.P.	1.541	210.878	11.652	209.338	
T.P.	4.224	204.406	10.692	200.187	
P-1	11.697	205.625	10.478	193.933	P-1 2" I.P. PG 182
T.P.	10.839	216.028	0.440	205.190	
T.P.	10.032	225.665	0.396	215.628	
T.P.	10.458	235.859	0.264	225.396	
S-2	4.910	239.905	0.859	234.995	S-2 - BRASS CAP MON PG 182
S-1	8.220	241.030	7.089	232.816	S-1 - 2" I.P. PG 182
T.P.	10.254	248.118	3.172	237.864	
T.P.	9.532	257.440	0.210	247.908	
BM CM4			4.375	253.065	BM CM4 SEE ABOVE

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0021.92 Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of CARBON CYN. LANDSLIDE
Notes Chk'd. ____ Checked ____ Survey by ENGLISH & DALE Notes RCD Date 5-5-78
Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date MAY 23 1978

F. B. 2450 PG. 191

F. B. 2450 PG. 192 | Job No. | Division No. | Notes Red | Plotted | Profile

Survey of | Date | Date | No.

Survey by | Notes | Notes Chk'd. | Checked | X-Sec.

Indexed | Date | Date | Date | No.

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

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76-L-298 CE 307 5-66

Notes Ck'd by	Survey of CARBON MESA	F. B 7450 PG. 193
Map No.	JN 0021.92 Tape H.P. Std °F	
Office Work	Surveyed by Lind	
Checked	Notes Lind Date 5-11-78	
Date	Indexed R. D. BAILEY MAY 23 1978	

J.N. 0021.92

CARBON MESA LANDSLIDE

HORIZONTAL CONTROL

MAY 11, 1978

LIND DALE ENGLISH
DOVER CARO
SCHERR

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76F3Os CE#310 3-69

TO BOTT PAGE 195

F. B 2450 PG. 194

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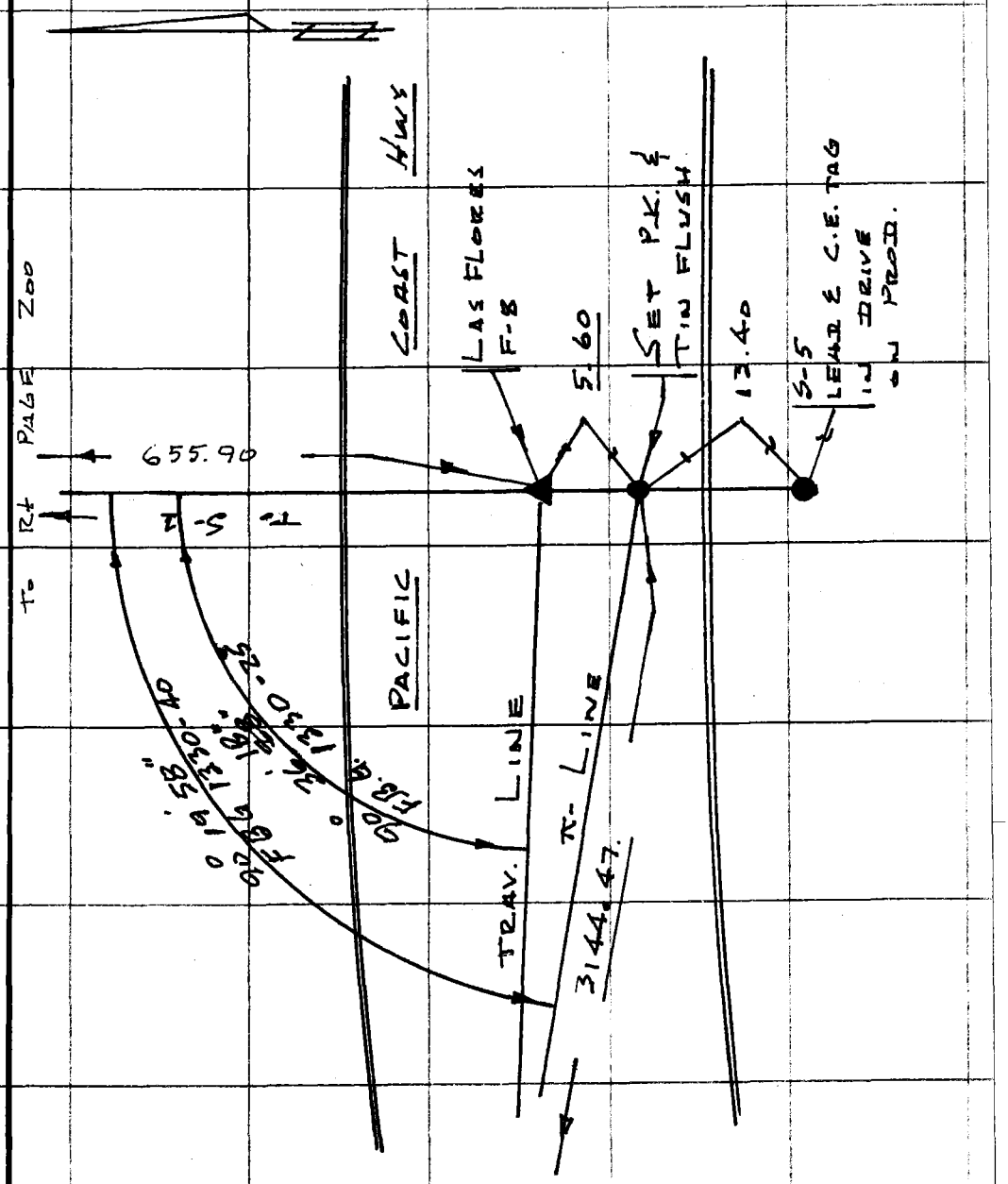
Notes Ck'd by	Survey of CARBON MESA	F. BZ450 PG. 195
Map No.	JN 0021.92 Tape H.P. Std ___ °F	
Office Work	Surveyed by LIND	
Checked	Notes Lind Date 5-12-78	
Date	Indexed G.D. BAILEY MAY 23 1978	



TO TOP PAGE 194

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76F309S CE#310 3-69

F. B. 2450 PG. 196

AT	INTIAL	TO	DIRECTION	FBS	FB REF
E-1	S-2 AUK	E-4	111° 15' 54"	1330-35	
E-1	E-4	E-7	28° 27' 10"	1330-35	
E-1	P-5	S-38	27° 54' 22"	1330-35	
LAST FOUND E7	E1	D1A	27° 02' 00"	1330-37	
		E4	88° 26' 55"	1330-37	
		E8	148° 08' 27"	1330-37	
E-7	E-7	E-1	63° 05' 54"	1330-39	
		D1A	94° 56' 50"	1330-39	
		B-1	130° 14' 25"	1330-39	
		B-6	189° 27' 16"	1330-39	
D1A	B-6	E-4	34° 24' 37"	1330-35	
		E-7	58° 02' 52"	1330-36	
B-6	D-1A	B-1	40° 22' 49"	1330-38	
		E-4	308° 55' 01"	1330-36	
B-1	B-6	E-4	29° 18' 30"	EDG 1330-36	

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76F30 S CE#310 3-69

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FROM	TO	VERT ∡	SLOPE DIST	HORIZ. DIST	F.B. REF.		TEMP	PRESS.	CORR.
L.F. E-7	L.F. E.8	101°54' 55"	1849.51	1809.66 ✓ 13.65 ✓ 1823.31 ✓	FB 2450-184				
E-4	L.F. E-7	73°35' 03"	344.85	330.79 ✓	FB 2450-184				
E-4	B-6	105°40' 32"	546.43	526.11 ✓	FB 2450-184				
E-4	E-3	93°29' 28"	492.03	491.12 ✓	FB 2450.				
E-4	D-3	106°22' 18"	323.58	310.46 ✓	FB 3185-164				
E-4	C-2	94°58' 47"	704.77	702.11 ✓	FB 3185-163				
E-4	C-3	104°28' 27'	466.91	452.09 ✓	FB 3185-163				
S-1	S-5	107°52' 40"	709.14	674.90 ✓	FB 2450-184				
S-2	S-3	273°04-10	255.53	255.16 ✓	FB 2450-184				
S-2	P-1	103°-00-30	182.69	178.00 ✓	FB 2450-121				
S-2	D-2	94°46'-10"	396.03	394.66 ✓	FB 2450-120				
S-2	P-3	271°13' 15"	509.14	509.02 ✓	FB 2450-119				
S-2	P-4	272°33' 00"	540.20	539.67 ✓	FB 2450-118				
S-2	P-5	274°55' 10"	645.23	642.85 ✓	FB 2450-184				
S-2	S-4	276°11' 20"	738.81	734.50 ✓	FB 2450-184				
S-2	P-6	274°19' 00"	621.35	619.59 ✓	FB 2450-184				
S-3	P-6	273°33' 50	529.97	528.95 ✓	FB 2450-184				
S-3	P-9	101°10' 00"	153.035	150.14 ✓	FB 2450-112				
S-3	P-8	95°38' 30	317.59	316.05 ✓	FB 2450-111				
S-3	P-7	91°27-10	377.87	377.75 ✓	FB 2450-110				
S-3	W-1	276°46'-10"	524.565	520.91 ✓	FB 2450-184				
S-3	W-2	273°34-50	401.30	400.52 ✓	FB 2450-107				
S-3	W-3	95°04' 55"	293.835	292.68 ✓	FB 2450-108				
P-5	E-1	274°40' 30	1346.92	1342.43 ✓	FB 2450-184				
P-5	W-1	272°56' 00"	369.52	369.04 ✓	FB 2450-184				

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

Survey of CARBON MESA L.
JN 0021.92 Tape — Std — °F
Surveyed by LINDE & DALE
Notes DALE Date 5-12-78
Indexed G.D. BAILEY MAY 23 1978

F.B. 2450 PG. 197

F.B. 2450 PG. 198

FROM	TO	VERT ∡	SLOPE DIST.	HORIZ DIST	FB REF
E-1	S-2 AUX	276° 44' 15"	1416.81	1407.03	
E-1	E-4	98°-19' 49"	701.46	694.06	
S-1	S-2	LEVEL	—	81.58	
E-8	F.8	SEE FB 2450 - 194 - 195			
F.8	E-8	SEE FB 2450 - 194 - 195			
DIA	E-7	84° 36' 56"	825.56	821.92	FB3285-165
DIA	B-6	100° 15' 28	943.23	928.15	FB3285-165
DIA	E-4	91° 36' 18	724.70	724.42	FB3285-165

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76F300S CE#310 3-69

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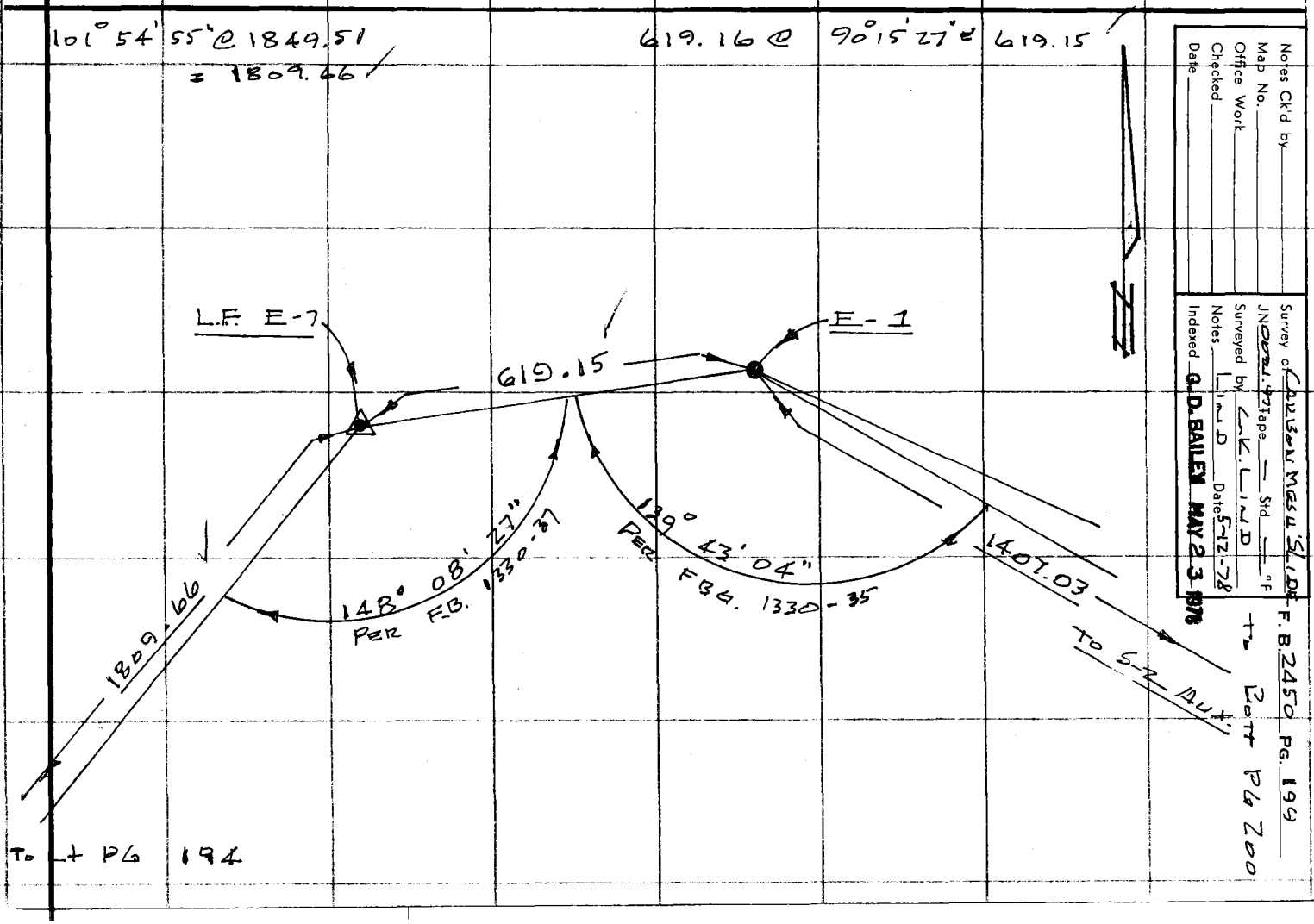

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of CARBON MESA SLIDE
JN 0001.47 Tape — Std — °F
Surveyed by C.K. LIND
Notes LIND Date 5-12-78
Indexed G.D. BAILEY MAY 23 1978

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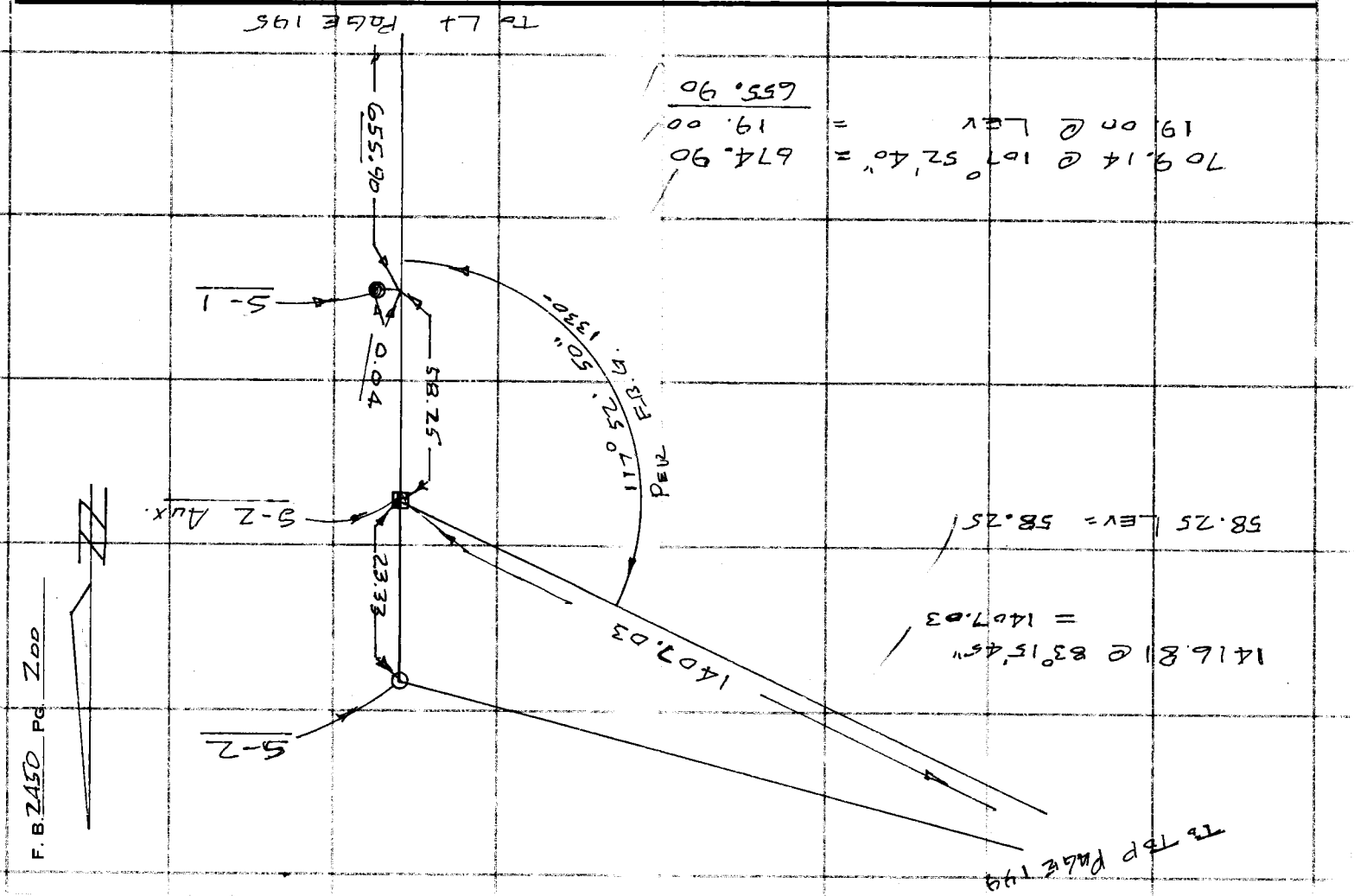

F. B. 2450 Pg. 200

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Survey of
JN Tape Std °F
Surveyed by
Notes Date
Indexed

F. B. PG.

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