

MISSION BAY

45

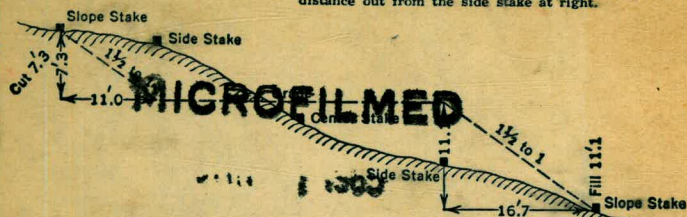
LEVEL BOOK

1822 A

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes 1 1/2 to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



Cut or Fill	Distance out from Side or Shoulder Stake																			Cut or Fill		
	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0	.1	.2	.3	.4	.5	.6	.7	.8		.9	
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40

KEUFFEL & ESSER CO., N. Y.

TOP GATE

F.B. 45

S/W C.R. BASE EL.
LAMPPOST # 4573 - 10.63

2 x 2 100' E/Q AT MON - 11.53

7.5
2.25
7.00
2.25
4.75
2.00

66
34
The paper in this book No. 373A
is made of 50% high grade rag stock
with a WATER RESISTING surface sizing.

INDEX

PAGE		DATE
64	FLOW LINE GRADES FOR 18" DRAIN AT MIDWAY INTERSECTION REVERSE CURVES ON L & R EDGES	
65	PAVEMENT SOUTH OF BRIDGE TIE IN OF LEAD PLUS & TALK TOP OF	
67	MANHOLE NEAR MIDWAY INTERSECTION & 2'x2' CONTROL PT.	
68	LEVELS & GRADES FOR MATCHING CURBS & EXISTING PAVEMENT	
69	LOCATION & PROFILE OF ISLAND COURT STORM DRAIN EXTENSION TO NEW PUMP HOUSE	7-21-49
70-71	PROFILE & GRADES TRAFFIC ISLANDS (NORTH & CENTER) MIDWAY INTER.	7-27-49
72	LOCATION ELECT. OUTLETS MIDWAY & VENTURA	7-26-49
73-74	GRADES AT INTERSECTION MISSION & VENTURA BASELINE ALONG ABANDONED R.R.	8-6-49
75	GRADE FOR LOCATION OF MHT BOUNDARY LINE	
77	SUNSET POINT LOCATION PROFILE PROPOSED DRAIN	4-7-50

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fro
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Color
Fill
0
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21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40

INDEX

<u>Page</u>		<u>Date</u>
	Ventura Blvd. & Midway Drive	
1-3	Construction Alignment Proj #60	5-11-49
4-7	Location of Traffic Islands at Midway & Ventura Blvd. Intersection	5-16-49
8	Profile & Grades on Curb Returns	
	N. Side Mission Blvd. Intersection	
9	Deflections & Chord Dist. for North Curb Return - Mission & Ventura Blvd.	6-1-49
	Angles for location of Drive ways & Elev.	
10	on South Curb - Mission & Ventura Inter.	6-2-49
11	Grades for 24" Conc. Drain Ventura Blvd. Curb. Inlet #2	6-1-49
	Levels along 12' Offset for Grades	
12	on 18" Culvert + 24" Drain Ventura	6-1-49
13-14	Location of Offset Line 15' from Left Edge of Pavement Ventura Blvd.	
15	Location of Offset Line 15' from Right Edge of Pavement Ventura Blvd.	
16	Sta. & Grades along Tangent for 15' off from Left Edge of Pavement Ven. Blvd.	
17	Sta. & Grades Along Tangent for 15' off Right Edge of Pavement Ven. Blvd.	
18	Location of 16' Off. Line from Left Edge of Pavement Ventura Blvd (500' R#1)	
19	Location of 16' Off. Right Edge of Pave- ment, Ventura Blvd (500' R#1)	6-3-49
20	Cuts and Grades for Storm Drain #2 + 12" Culvert #2,	
22-23	15' Offset from Left Edge of Pavement Ventura Blvd South of Bridge.	6-11-49
25	15' Offset from Right Side of Pavement Ventura Blvd.	
27	15' Offset Left Side Ventura	
30-31	15' Offset Right Edge "	

<u>Page</u>		<u>Date</u>
32-33	15' Offset Left Edge	
36	Location of Center Traffic Lane Ventura & Midway	
38	3' offset from Rt. Curb N.W. Traffic Lane	
39	3' Offset of Center Main Thorough fare Ventura Blvd.	6-17-42
40	3' Offset Right Edge of Pavement Center Section Ventura Blvd	
41	3' Offset from Left Edge of South Curve	
42-43	15' Offset from Rt. Edge of Pavement in Traffic Lane	
44	Profile & Grades on West Side of Ventura Curve	6-23-49
45-46	Profile and Grades Left Side	6-23-49
46-47	Profile and Grades Right Side Ventura Curve	6-23-49
48	Profile and Grades along & Line Traffic Island Midway	
49	Profile and Grades Right Edge ② Pavement Flood	
50	Profile and Grades Right Side	
53	Profile and Grades N. of Center Section W. of Existing N. Curb	
51-52	Grades to Cleanouts & Inlets Mission Blvd Intersection	
54	Sub-Grades Ventura Blvd + Mission Blvd to Bldg. Ventura	
55-57	LOCATION & GRADES FOR TRAFFIC ISLAND SOUTH OF CENTER MIDWAY	
58, 66	CURVE DATA PAVEMENT EDGES	
59-60	VENTURA BLVD NORTH OF BRIDGE	7-5-49
61-62	LOCATION & GRADES FOR TRAFFIC ISLAND @ MIDWAY & VENTURA INTERSECTION	7-13-49
68	CURVE DATA 2000' R. CURVE AT SOUTH END BRIDGE	

CONTD ON 1-ST PAGE

CURVE DATA - $\left\{ \begin{array}{l} R = 135' \\ L = 28.43' \end{array} \right.$

STA	OBJECT	ANGLE	FINISH GRADE ELEVATION
	B.C.		
0+00		0°	3.15
#2 CENTER LT.			
0+10		4°14'39"	3.12
0+20		8°29'18"	3.08
	F.C.		
0+28 ⁴³		12°03'58"	3.05
#2 RADIUS			
	E.C.		
0+28 ⁴³	RT.	90°	
0+48 ⁴³	"	"	2.86
0+68 ⁴³	"	"	2.61
0+88 ⁴³	"	"	2.36
	B.C.R-20		
1+01 ⁸⁴	"	"	2.18

1.27 90

CURVE DATA - $\left\{ \begin{array}{l} R-150' \quad R-154' \\ L-76.40 \quad L-78.44 \end{array} \right.$ FINISH GRADE ELEVATION

STA	OBJECT	ANGLE	R 150'	R 154'
	B.C.			
0+00		0°	3.64	3.64
#2 CENTER #2 LT.				
0+10		3°49'11"	3.61	3.61
0+20		7°38'22"	3.57	3.57
0+30		11°27'33"	3.54	3.54
0+40		15°16'43"	3.51	3.51
0+50		19°05'55"	3.47	3.47
0+56 ⁴⁰		21°32'36"	3.45	3.45
	E.C.			
0+70		26°49'17"		
	E.C.180°			
0+76 ⁴⁰		29°18'55"	3.35	3.35
#2 RADIUS				
	E.C.			
0+76 ⁴⁰	RT.	30°00'00"	3.35	
0+96 ⁴⁰	"	"	3.13	3.13
1+16 ⁴⁰	"	"	2.91	2.91
1+35 ⁴⁰	"	"	2.69	2.72
1+37 ⁸³	"	"	2.67	

$$\frac{.19}{56.40} = .3369 \text{ IN } 100'$$

1.11078

CURVE DATA - $\left\{ \begin{array}{l} R-169' \\ L-26.85' \end{array} \right\}$

STA	OBJECT	ANGLE	ELEVATION	FINISH GRADE
	B.C.			
	0+00		3.12	
#2				
CENTER	L.T.			
	0+05	1°41'43"	3.15	
	0+15	5°05'08"	3.10	
EC	0+26. ⁸⁵	09°06'13"	3.05	

#2
RADIUS

0+26. ⁸⁵	RT.	90°00'00"	
0+46. ⁸⁵	"	"	2.86
0+66. ⁸⁵	"	"	2.60
0+86. ⁸⁵	"	"	2.34
R-20	RC. R-20		BC. R-20
B.C.	0+97. ⁹³		2.24
	1+04. ⁹³	29°38'52"	2.12
	1+14. ⁹³	59°17'45"	2.00
	E.C. R-20		E.C. R-20
	1+25. ⁹³	88°58'28"	1.87

.62
48.08

$\frac{37}{31.06} = 1.19$

1.2892

LOCATION OF TRAFFIC ISLANDS AT
INTERSECTION OF MIDWAY DRIVE
AND VENTURA BLVD.

5-16-49

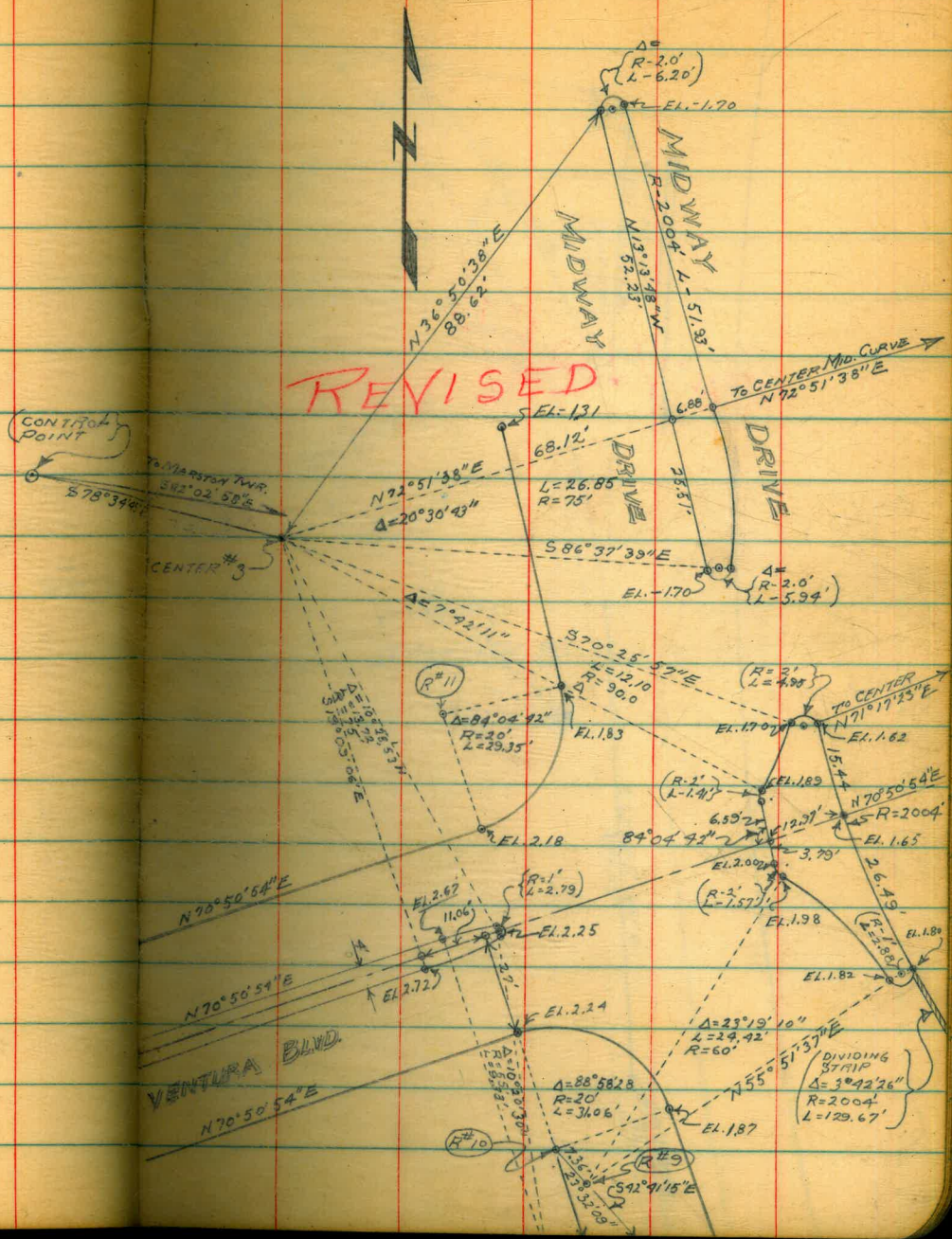
(4)

REVISED

REVISED

DEF. FOR RAISED CENTER DIVIDING STRIP
FINISHED

STA	DEF. L	CHORD	GRADE
65+71			1.65
	NORTH		
	0°13'14"	15.44'	1.62
	SOUTH		
	0°22'43"	26.49'	1.80
	0°42'53"	23.51'	1.75
	1°04'20"	25.00	1.69
	1°25'46"	25.00	1.63
	1°47'13"	25.00	1.58
	2°08'40"	25.00	1.52
	2°13'56"	26.16	1.50



STA- DEF. ANGLE CHORD

B.C. "Z"

STA-	DEF. ANGLE	CHORD
0+00	0	0
0+20	1° 05' 29"	20.0'
0+40	2° 10' 58"	"
0+60	3° 16' 26"	"
0+80	4° 21' 55"	"
1+00	5° 27' 24"	"
1+20	6° 32' 53"	"
1+40	7° 38' 22"	"
1+60	8° 43' 51"	"

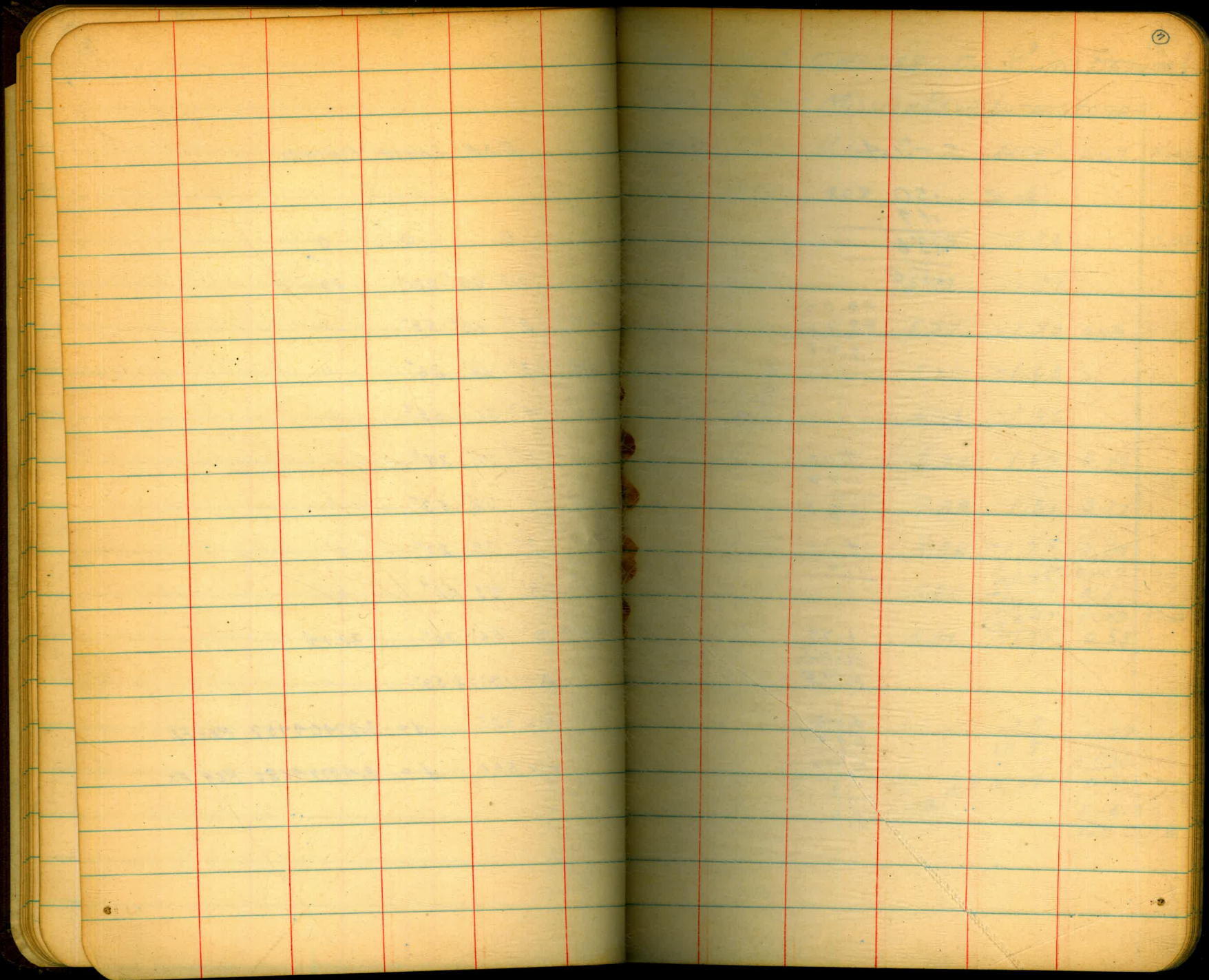
E.C.

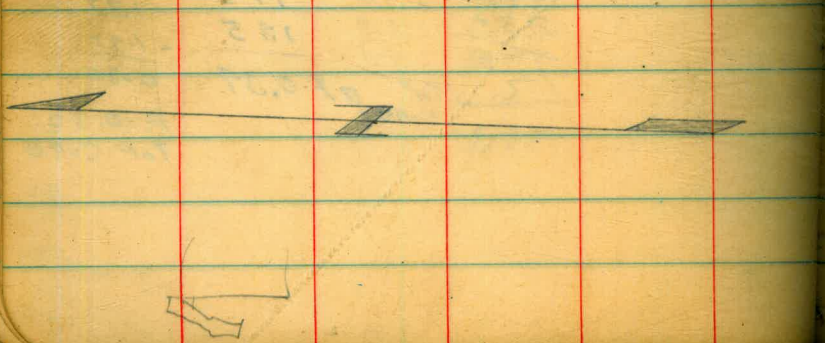
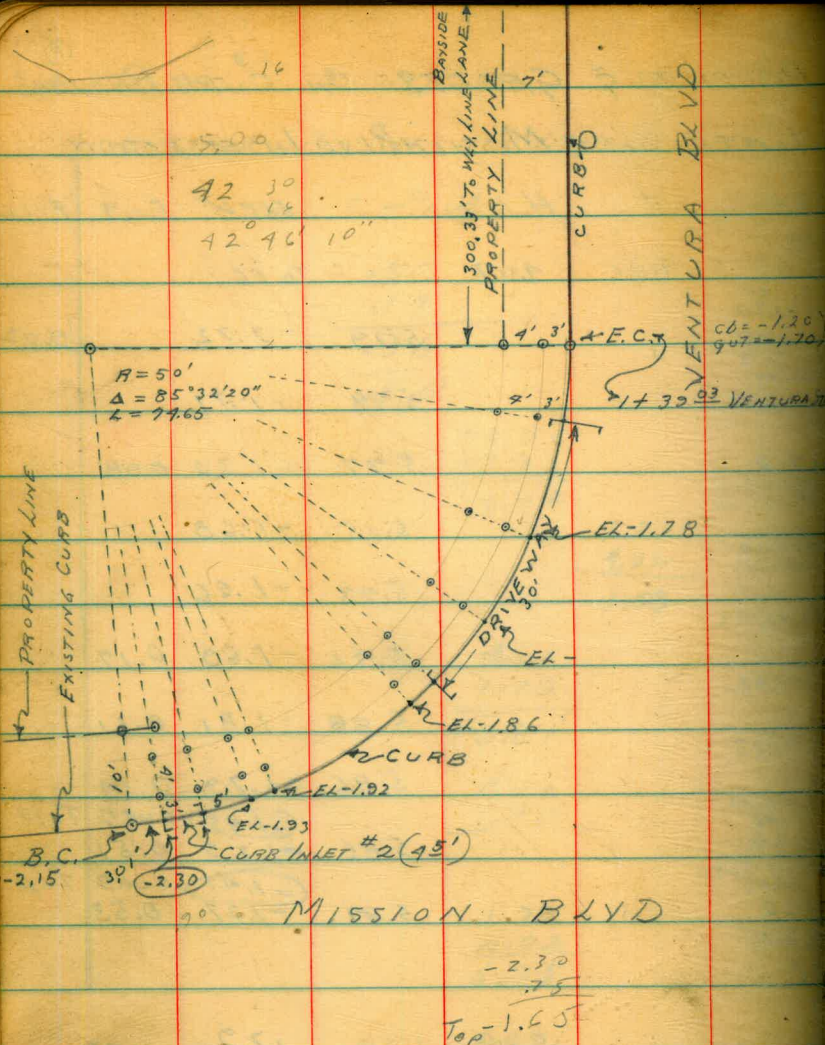
1+82 ¹⁹	9° 56' 30"	22.19'
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$\Delta = 19^{\circ} 52' 59''$

$R = 525' \quad d = 3.27409957 \text{ PER FT.}$

$R = 500' \quad d = 3.43779680 \text{ PER FT.}$





STAMPEY T. 6-1-49
BARRAGAN C.
SHERRY A. (9)

DEFLECTIONS & CHORD DISTANCES FOOT
NORTH CURB RETURN - MISSION & VENTURA BLVD -

STA	DEF. ANGLE	CHORD 47'R	CHORD 43'R	CHORD 50'R
X @ E.C. ON VENTURA BLVD (CURB)				
(10' ARC, 50'R = 9.38' CHORD 47'R)				
(10' ARC, 50'R = 8.59' CHORD 43'R) DEF. PER 10' CHORD = 5' 43" 16"				
EAST END DRIVEWAY	5° 09' 24"	8.15	7.73	8.99
EL-1.78	11° 47' 21"	19.21	17.57	
INTERMEDIATE POINT ON CURB	17° 31' 07"	28.30	25.89	
WEST END DRIVEWAY	22° 55' 06"	37.15	33.49	
EL-1.86	22° 20' 43"	35.74	32.70	38.02
EL-1.86	24° 20' 04"	38.73	35.44	
EL-1.92	34° 02' 26"	52.62	48.14	
EL-1.93	35° 29' 43"	54.58	49.93	
CURB INLET NORTH EDGE	38° 28' 00"	58.47	53.50	
CURB INLET	41° 02' 48"	61.73	56.47	
B.C.	85° 32' 20" (MISSION BLVD)			62.90'

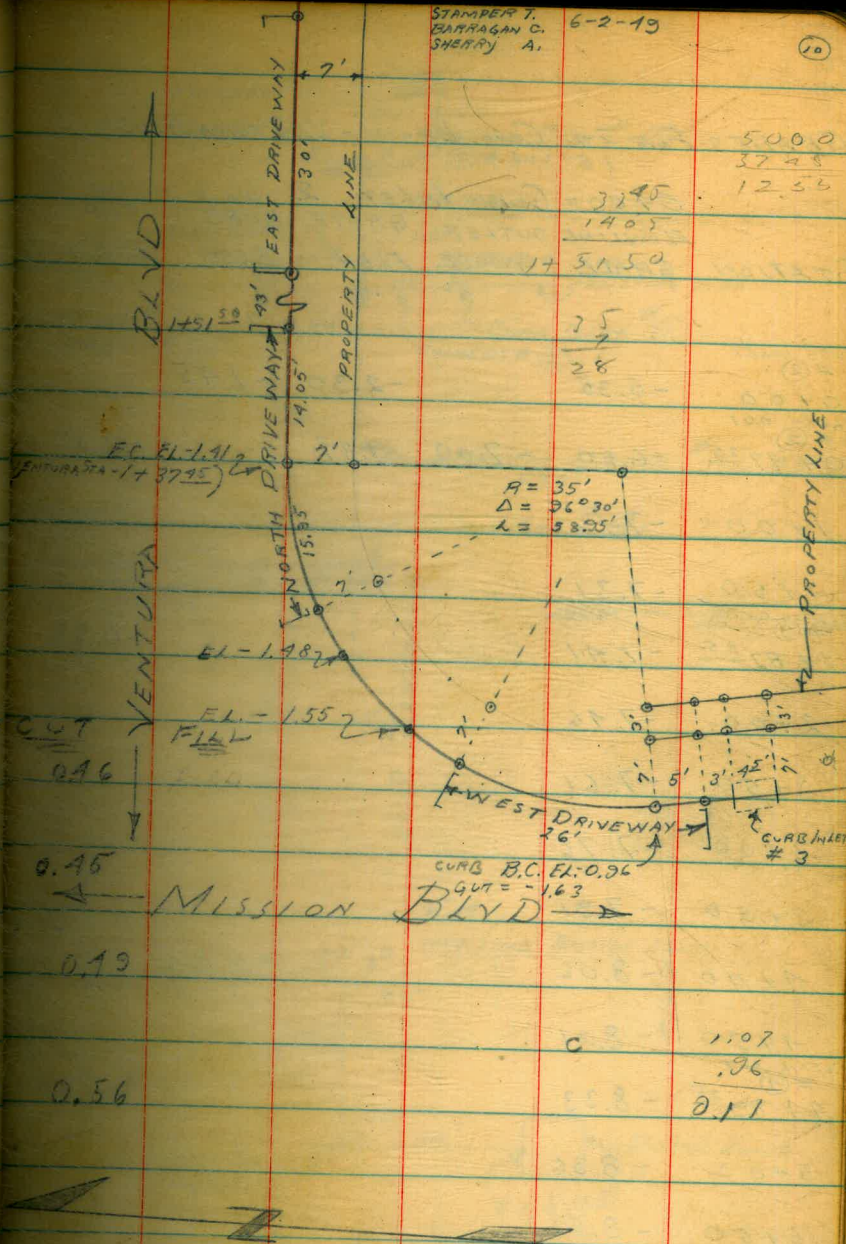
22 55
13 2
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STAMPER T.
BARRAGAN C.
SHERRY A. 6-2-19

(10)

ANGLES FOR LOCATION OF DRIVEWAYS
AND ELEVATION POINTS ON SOUTH
CURB RETURN - MISSION & VENTURA BLYD -

STA	ANGLE	DIST	ELEV	GRADE	CUT	FILL
$\pi @$	R-35'	$\Delta = 96^\circ 30'$ (SOUTH CURB)				
E.C.	$00^\circ 00' 00''$	35'				
WEST END OF NORTH DRIVEWAY	$26^\circ 08' 38''$	35'				
EL-1.48	$34^\circ 51' 00''$	35'				
EL-1.55	$51^\circ 39' 00''$	35'				
NORTH END OF WEST DRIVEWAY	$62^\circ 07' 21''$	35'				
B.C.						
EL-0.96	$96^\circ 30'$	35'				
STA B.M.	4.06	H.I.	-	ELEV +0.06	GRADE	
E.C.		7.12	5.07	-0.25	-1.41	0.46
W/END OF NORTH DRIVEWAY			5.15	-1.03		
EL-1.48			5.15	-1.03	-1.48	
EL-1.55			5.18	-1.06	-1.55	0.19
N/END OF DRIVEWAY			5.23	-1.11		
B.C.						
EL-1.63			5.19	-1.07	-1.63	0.56
END DRIVEWAY			5.18	-1.06		
END CURB			5.17	-1.03		



5000
37.48
12.56
37.40
14.05
17 51.50
7.5
2.8
$R = 35'$
$\Delta = 96^\circ 30'$
$L = 58.25'$
1.07
.96
0.11

LEVELS ALONG 12' OFFSET FOR GRADES ON

(18" CUL.#2)
(24" DRAIN)

VENTURA BLVD.

STA	+	H.I.	-	ELEV					
						5.97		6- -79	(12)
						4.10	1.87		
						-1.67	1.37		
							0.50 F		
					STA	H.I.	-	ELEV	5.60
					3+00	4.47	5.35	-0.88	
B.M.	2.88	9.91		7.03	3+50		5.37	-0.90	
T.P.	4.23	4.39	9.75	+0.16	4+00		5.13	-0.66	⊗ IN BAYSIDE LANE SOUTH END
T.P.	4.24	3.66	4.97	-0.58	4+50		4.22	+0.25	
	5.42	3.65	5.43	-1.77	4+89 ²⁵		4.34	+0.13	
			1.60	+2.05	5+00				0.80 3.55 +3.67
			3.59	+0.06	5+50				-1.97 -1.53 5.55 8.24 +3.61 +1.63
	3.79	3.85		+0.06	5+75				
0+00									
STA	+	H.I.	-	ELEV	T.P.	4.46	3.80	-0.66	⊗ BAYSIDE LANE/SOUTH END
	4.04	4.10		+0.06	T.P.	5.77	3.92	5.85	-2.05
			5.97	-1.87	T.P.	4.69	5.18	3.23	+0.49
	3.55	3.61		+0.06	T.P.	8.82	9.37	4.63	+0.55
				-1.65					
1+00		3.65	5.30	-4.25			2.34	7.03	BRASS PLUG SANTA BARBARA SEAWALK
1+50			4.95	-1.30		6.14	5.98		-0.66
1+82 ²⁵			5.18	-1.53	5+50		5.91	-0.42	
2+00			5.20	-1.55			6.69	-1.21	
T.P.									
2+50			4.96	-1.31	B.M.	4.64	3.98	-0.66	⊗ BAYSIDE LANE S/END.
T.P.	5.78	4.47		-1.31	SET				
					B.M.			4.46	-0.48
									AT EDGE OF SIDEWALK PROLONGATION EAST OF SOUTH SIDE RES-3216
									□ IN EDGE WALK-CONST. JOINT.

BRASS PLUG SEAWALK & SANTA BARBARA

TOP FINDER VENTURA MISSION ST EAST SIDE 1/2 W. AT WEST NORTH

1/2 W. PUMPS

BRASS PLUG SANTA BARBARA SEAWALK

⊗ BAYSIDE LANE S/END.

AT EDGE OF SIDEWALK PROLONGATION EAST OF SOUTH SIDE RES-3216 □ IN EDGE WALK-CONST. JOINT.

LOCATION OF OFFSET LINE (15') FROM LEFT

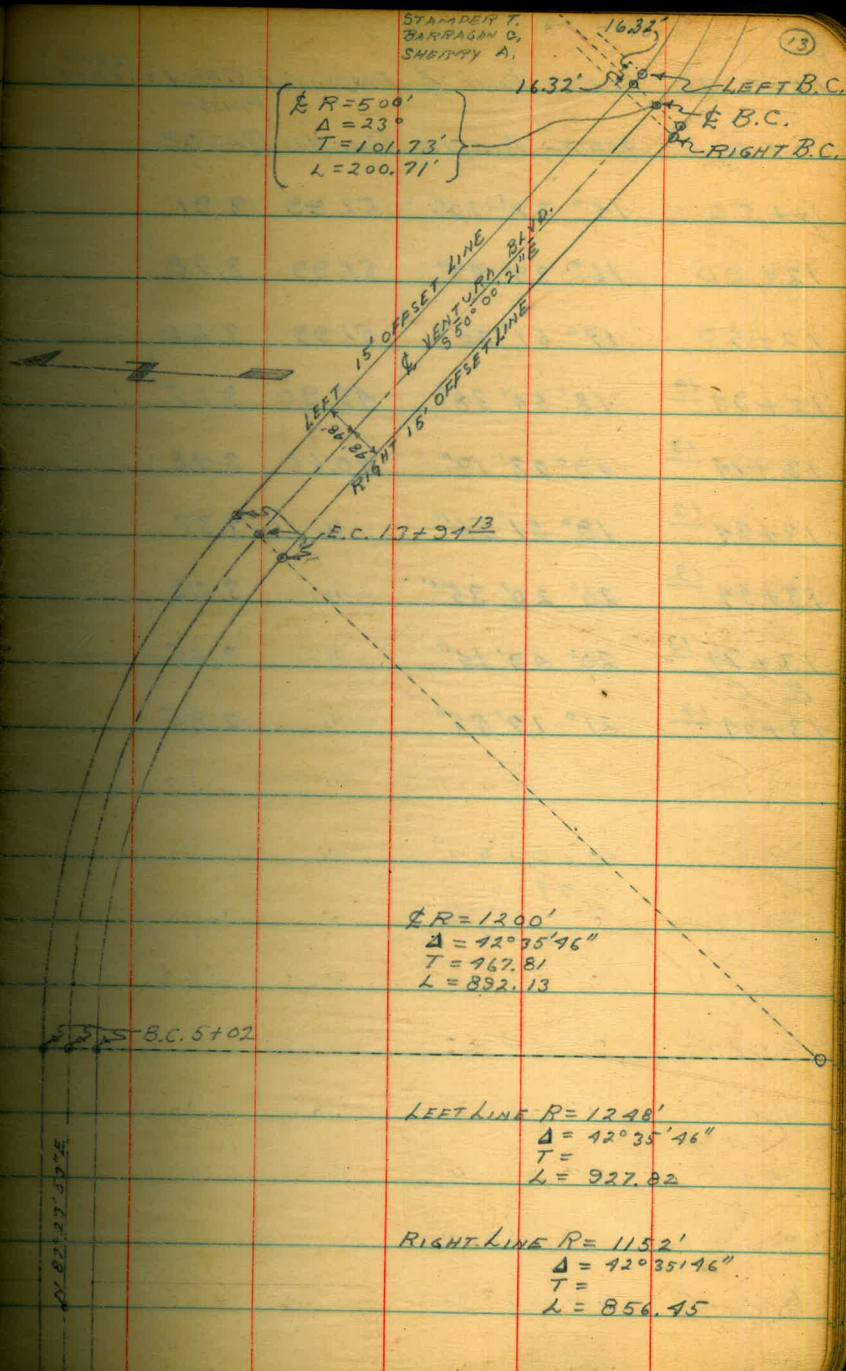
EDGE OF PAYEMENT VENTURA BLVD & GRADES

R=1248' L=927.82 Δ=42°35'46" FINISH

STA	DEF. ANGLE	CHORD	GRADE
5+02	0 0	0	1.06
5+22	0° 28' 27" ✓	20.66'	1.58
5+42	0° 57' 18" ✓	"	1.99
5+62	1° 25' 56" ✓	"	2.27
5+82	1° 57' 36" ✓	"	2.43
6+00	2° 20' 22" ✓	18.72	2.52
6+50	3° 32' 00" ✓	51.99	2.77
7+00	4° 43' 37" ✓	"	3.02
7+50	5° 55' 14" ✓	"	3.27
8+00	7° 06' 51" ✓	"	3.52
8+50	8° 18' 28" ✓	"	3.77
8+98 ⁶⁸	9° 28' 12" ✓	50.63	4.02
9+48 ⁷¹	10° 39' 52" ✓	52.03	4.26
9+68 ⁷¹	11° 08' 31" ✓	20.66	4.32
9+88 ⁷¹	11° 37' 10" ✓	20.66	4.31
10+00	11° 53' 20" ✓	11.74	4.28
10+50	13° 04' 57" ✓	51.99	4.16
11+00	14° 16' 34" ✓	51.99	4.03

STANLEY T.
BARRAGAN O.
SHEPHERD A.

R=500'
Δ=23°
T=101.73'
L=200.71'



R=1200'
Δ=42°35'46"
T=467.81
L=892.13

LEFT LINE R=1248'
Δ=42°35'46"
T=
L=927.82

RIGHT LINE R=1152'
Δ=42°35'46"
T=
L=856.45

N. 82° 37' 30" E.

LEFT 15' OFFSET LINE & PAVEMENT GRADES (LEFT EDGE)				
STA	DEF ANGLE	CHORD	FINISH GRADE	
11+50	15° 28' 12" ✓	51.99	3.91	
12+00	16° 39' 49" ✓	51.99	3.78	
12+50	17° 51' 26" ✓	51.99	3.66	
12+91 ¹³	18° 54' 38" ✓	45.90	3.55	
13+14 ¹³	19° 23' 17" ✓	20.66	3.48	
13+34 ¹³	19° 51' 56" ✓	"	3.37	
13+54 ¹³	20° 20' 35" ✓	"	3.23	
13+74 ¹³	20° 49' 14" ✓	"	3.05	
E. C. 13+94 ¹³	21° 17' 53" ✓	"	2.85	

1400.00

1394.17

65.87

LOCATION OF OFFSET LINE (15) FROM RIGHT

EDGE OF PAYEMENT VENTURA BLVD & GRADES

STA DEF ANGLE CHORD FINISH GRADE

$R = 1152'$ $L = 856.45'$ $\Delta = 42^\circ 35' 76''$ $11+00$ $14^\circ 16' 34''$ 47.99 $+2.02$

STA DEF ANGLE CHORD GRADE $11+50$ $15^\circ 28' 12''$ " 1.90

B.C.

$5+02$ 0 0 0 -0.01 $12+00$ $16^\circ 39' 49''$ " 1.77

$5+22$ $0^\circ 28' 27''$ 19.07 $+0.13$ $12+50$ $17^\circ 51' 26''$ " 1.64

$5+42$ $0^\circ 57' 18''$ 19.07 0.23 $12+91^{13}$ $18^\circ 54' 38''$ 42.37 1.55

$5+62$ $1^\circ 25' 56''$ 19.07 0.33 $13+14^{13}$ $19^\circ 23' 17''$ 19.07 1.50

$5+82$ $1^\circ 57' 36''$ 19.07 0.43 $13+39^{13}$ $19^\circ 51' 56''$ " 1.45

$6+00$ $2^\circ 20' 22''$ 17.78 0.52 $13+51^{13}$ $20^\circ 20' 35''$ 19.07 1.40

$6+50$ $3^\circ 32' 00''$ 47.99 0.77 $13+79^{13}$ $20^\circ 49' 14''$ " 1.35

$7+00$ $4^\circ 43' 37''$ " 1.02 $13+94^{13}$ $21^\circ 17' 53''$ 19.07 1.30

$7+50$ $5^\circ 55' 14''$ " 1.26

$8+00$ $7^\circ 06' 51''$ " 1.51

$8+50$ $8^\circ 18' 28''$ " 1.76

CHANGE OFFSET

$8+98^{68}$ $9^\circ 28' 12''$ 46.73 2.01

$9+48^{21}$ $10^\circ 39' 52''$ 48.03 2.26

$9+68^{21}$ $11^\circ 08' 31''$ 19.07 2.32

$9+88^{21}$ $11^\circ 37' 10''$ " 2.31

$10+00$ $11^\circ 53' 20''$ 10.83 2.28

$10+50$ $13^\circ 04' 57''$ 47.99 2.15

STATIONS & GRADES ALONG TANGENT

FOR (15) OFFSET FROM RIGHT EDGE STA DIST GRADE ELEV CUT FILL - P.O.D
 OF PAYING - VENTURA BLVD. (SEE PAGE 13) 21+00 50' 2.60 1.08 1.52 5.99
 H.I. = 7.07

FINISH H.I. = 6.95 (CITY DATUM) 21+50 50' 2.73 1.02 1.71 6.05

STA	DIST	FINISH GRADE	ELEV	CUT	FILL	P.O.D
B.C. T.P. 13+94 ¹³	0'	CITY DATUM 1.30	0.65 3.66		0.65	22+08 ²⁹ 20' 2.93 1.99 1.99 6.08
14+54 ¹³	60'	1.15	0.99		0.21	6.00 22+28 ²⁹ 20' 3.11 1.12 1.99 5.95
14+74 ¹³	20'	1.11	1.21	0.10		5.22+48 ²⁹ 20' 3.39 1.28 2.11 5.79
14+94 ¹³	20'	1.11	1.42	0.31		5.22+68 ²⁹ 20' 3.76 1.22 2.59 5.85
15+14 ¹³	20'	1.14	1.45	0.31		RIGHT B.C. 23+12 ¹² 43.68' 4.66 1.46 3.20 5.61

15+54¹³ 40' 1.29 1.23 0.01 5.50 STA + H.I. - ELEV.

15+94¹³ 40' 1.39 0.99 0.90 6.14 4.12 15.51 CITY DATUM 2.38 11.39 COASTER

16+50 55.87' 1.48 1.21 0.27 5.74 6.30 15.96 5.85 9.66 13+94¹³ B.C.

17+00 50' 1.60 1.19 0.46 5.80 T.P. 6.04 2.07 5.92 1.03 TOP HUB (B) OFFSET

17+50 50' 1.73 1.09 0.69 5.90 T.P. 6.66 8.12 5.61 5.61 1.46

18+00 50' 1.85 1.10 0.75 5.90 T.P. 6.66 8.12 5.61 5.61 1.46 EL = 2.15 2.13 5.99 CONC. MON N/BRIDGE

18+50 50' 1.98 1.03 0.95 5.90 T.R. W/LT. 22+68²⁹ 5.42 7.38 6.16 1.96 LEFT EDGE

19+00 50' 2.10 1.15 0.95 5.90 T.R. W/LT. 18+00 5.69 6.82 6.20 1.18 LEFT EDGE

19+50 50' 2.23 1.12 1.11 5.90 T.P. LT. 5.91 7.18 5.55 1.27 LEFT EDGE

20+00 50' 2.35 1.09 1.26 5.90 B.M. 4.87 EL = 11.39 2.38 2.31 U.S.C. & G.S. 'COASTER'

20+50 50' 2.48 0.88 1.62 6.00

LOCATION OF 15' OFFSET FROM RIGHTEDGE OF PAVEMENT-VENTURA BLVD. (500'R-#)
(SEE PAGE 18)

STA	DEF.	ANGLE	CHORD	FINISH GRADE	ELEV	CUT	FILL	6.66	H.I.	8.12	-	B.C. 23+29.22
RIGHT B.C. 23+12 ⁴²	} 0+00			4.66	1.46		3.20					1.46
0+17 ⁴⁰		0° 59' 49"	17.92	5.00	1.47		3.53				6.65	
0+38 ⁷²		2° 13' 07"	21.96	5.91	1.37		4.04				6.75	
0+60 ⁰¹		3° 26' 18"	21.93	5.78	1.66		4.12				6.46	
0+81 ²⁶		4° 39' 21"	21.88	6.06	1.93		4.07				6.13	
1+02 ⁴⁸		5° 52' 18"	21.85	6.24	2.10		3.84				5.72	
1+24 ³⁷		7° 07' 33"	22.51	6.34	1.85		4.49				6.27	
1+45 ⁵¹		8° 20' 14"	21.77	6.31	2.00		4.31				6.12	
1+66 ⁶²		9° 32' 48"	21.74	6.13	1.92		4.21				6.20	
1+87 ⁷⁰		10° 45' 16"	21.71	5.79	2.16		3.33				5.66	
RIGHT E.C. 21 2+00		11° 30' 00"	13.40	5.54	2.15		3.09				5.67	
To E.C. & STA-25+29 ²⁵												
TAN. DIST		00° 00' 00"	27.97	4.96	2.16		2.50				5.66	
To & STA-25+72 ⁶⁹												
END CONTRACT (NORTH)		TAN. DIST. = 43.19		4.05	2.31		2.74				5.81	

CUTS & GRADES FOR STORM DRAIN

(20)

1 AND 18" CUL. # 2

CENTER OF CUL. # 2 = 0+00

STA	+	H.I.	-	ELEV	GRADE	CUT.
B.M.	3.79	3.85		10.06		
1+00				1.25 ^{1.65}	-7.16	5.91 ^{5.51}
1+50				-1.30	-7.31	6.01
1+82 ²⁵				-1.53	-7.41	5.88
2+00				-1.55	-7.46	5.91
2+50				-1.31	-7.61	6.30
3+00				-0.88	-7.76	6.86
3+50				-0.90	-7.91	7.01
4+00				-0.66	-8.06	7.40
4+50				+0.25	-8.21	8.46
C.O. #1 25 4+89				+0.13	-8.33	8.46
5+50				-0.46	-8.51	8.05
5+75				-1.21	-8.58	7.37
5+83 ²⁵					-8.61	

12.71	
4.77	
17.98	
3.91	
13.57	17.16
9.50	1.45
18.07	12.71
5.12	
12.95	
3.99	12.34
16.94	6.25
6.25	12.09
10.69	12.34
	6.25
	12.09

STA	+	H.I.	-	ELEV	
	5.00	16.53		11.53	2x2" 100#/R @ MON SPND BRIDGE
W.C. 100	4.12	17.16	3.49	13.04	T.B.M
W.C. 100		17.48		12.71	13.71
T.P	4.77	18.48	4.45	13.77	4.27
		18.07		13.57	18.48
T.P	4.50	19.47	3.91	14.97	14.97
		16.94		12.95	4.50
6450	3.99	18.34	5.12	14.35	15.17
					5.12
					14.35
				6.25	10.69
				4.29	12.65
					W.C. 3.95
					BASE 8.77
					LAMP POST
					#4573
					LAST M.H.

15' OFFSET FROM LEFT EDGE OF PAVEMENT ELEVATIONS LEFT SIDE.

VENTURA BLVD. (SOUTH OF BRIDGE)

STA	CHORD 5.00	GRADE	FLEV	CUT	FILL	STA D.M. T.P.	+	H.I.	-	FLEV	
							5.00	16.53		11.53	
							4.12	17.16	3.49	13.09	
50+80 ²⁷		4.48	13.42	0.07					3.74	13.92	
51+40 ²⁷	60'	4.66	12.81	0.86					67	12.81	
51+80 ²⁷	40'	4.78	12.35	1.74			17.98		4.66	12.81	
52+20 ²⁷	40'	4.89	12.88	1.02					5.13	12.35	
52+60 ²⁷	40'	4.99	12.39	1.61					4.60	12.88	
53+00 ²⁷	40'	5.09	12.42	1.68					5.09	12.39	
53+60	59.73'	5.29	12.79	1.91					5.06	12.92	
53+80	20.00	5.28	12.71	1.58					4.69	12.79	
54+00	20.0'	5.29	12.80	1.99					4.77	12.71	
54+20	20.0'	5.28	12.87	1.92					4.68	12.80	
54+40	20.0'	5.29	12.68	1.51					4.61	12.87	
55+00	60.0'	5.09	12.75	1.38					4.80	12.68	
55+50	50.0'	4.97	12.64	1.31					4.73	12.75	
T.P.									17.98	4.73	12.75
56+00	50.0'	4.85	12.53	1.33					18.07	5.43	12.69
56+50	50.0'	4.72	12.72	1.01					5.54	12.53	
									5.35	12.72	

STA	CHORD	GRADE	ELEV	CUT	FILL	STA	+	H.I.	-	ELEV
			3.30							
57+00	50.0	4.60	12.91		0.70			18.07	5.16	12.91
57+50	"	4.47	12.98		0.50				5.09	12.98
58+00	"	4.35	12.96		0.40				5.11	12.96
58+50	"	4.22	12.53		0.70				5.54	12.53
59+00	"	4.10	12.76		0.35				5.31	12.76
59+50	"	3.97	12.89		0.08				4.77	12.76
60+00	"	3.85	12.92	0.06					5.18	12.89
60+50	"	3.72	13.11	0.38					5.15	12.92
61+00	"	3.60	12.78	0.17					4.96	13.11
B.C.			3.77					16.94	4.16	12.78
61+50	"	3.43	13.08	0.64					3.86	13.08
61+66		3.43	12.83						3.82	12.83

CHECK
B.M.

LEFT EDGE

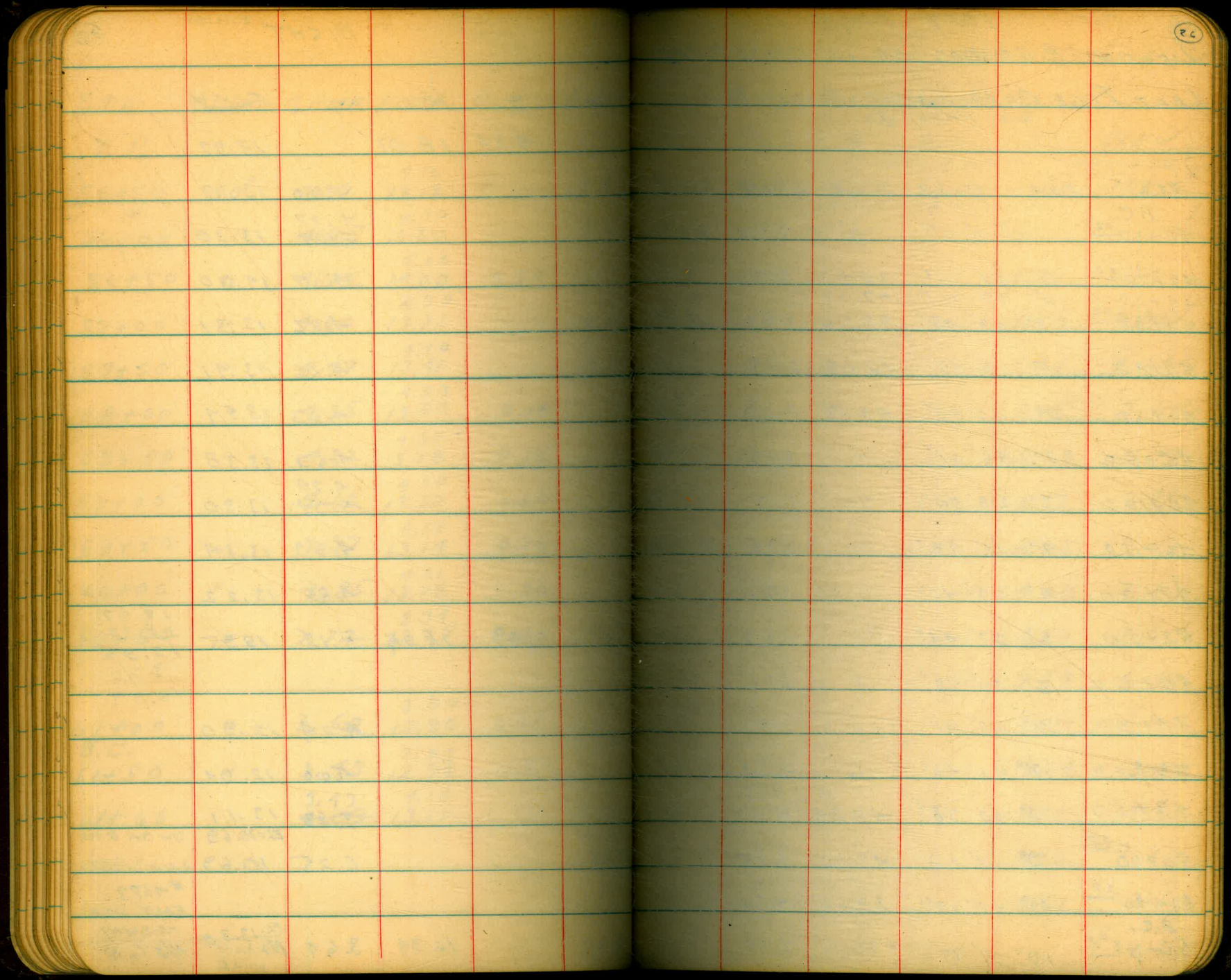
(23)

4.11 12.83
6.25 10.69

EL. = 10.69 S/W COR. BASE
LAMP POST #
4573

15' OFFSET FROM RIGHT EDGE PAVEMENT ELEVATIONS RIGHT SIDE

STA	CHORD	G. GRADE	ELEV	CUT	FILL	STA +	H.I. -	ELEV			
						B.M.	51.00	16.53	2.52 11.53	2x2 100' E/R AT M.M. 1/2 END BRIDGE	
						T.P.	4.12	17.16	3.49	17.16	
E.C.											
50+80 ²⁷	0	5.55	3.68 12.69		1.87	50+80 ²⁷		17.16	4.47	12.69	17.16 4.45 12.71
51+00 ²⁷	20'	5.40	3.70 12.71		1.70	T.P.	4.77	17.48	4.45	12.71	12.71 4.77
51+20 ²⁷	"	5.29	3.74 12.75		1.50			17.48	4.73	12.75	17.48
51+40 ²⁷	"	5.09	3.85 12.86		1.24			17.48	4.62 4.73	12.86	
51+60 ²⁷	"	4.96	3.87 12.88		1.03				4.60	12.88	
51+80 ²⁷	"	4.89	3.57 12.58		1.32				4.90	12.58	
52+00 ²⁷	"	4.86	3.38 12.39		1.44				5.09	12.39	
52+20 ²⁷	"	4.89	3.41 12.42		1.45				5.06	12.42	
52+60 ²⁷	40'	4.99	3.97 12.98		1.02				4.50	12.98	
53+00 ²⁷	"	5.09	3.55 12.56		1.54				4.92	12.56	
53+60	59.73	5.24	4.01 13.32		1.23				4.16	13.32	
53+80	20'	5.28	4.24 13.25		1.04				4.23	13.25	
54+00	"	5.29	4.25 13.26		1.04				4.22	13.26	
54+20	"	5.28	4.31 13.35		0.94				4.13	13.35	
54+40	"	5.24	4.57 13.58		0.67				3.90	13.58	13.51 4.50
55+00	60'	5.09	4.56 13.57		0.53	T.P.	4.50	18.07	3.91	13.57	18.07



LEFT EDGE

LOCATION & GRADES OF 15' OFFSET FROM

LEFT EDGE OF PAVEMENT - VENTURA BAYD -
SEE PAGE 32

STA	DEF	ANGLE	CHORD	GRADE	ELEV	CUT	FILL
B.C. 43+57 ⁰²		0° 0' 0"	0'	2.70	2.33		0.31
43+77 ⁰²		0° 17' 11"	19.51'	2.71	2.54		0.17
44+00 ✓		0° 37' 00"	42.98	2.84	2.54	0.01	
44+37 ⁰²		1° 08' 45"	58.56	2.84	2.54		
44+50 ✓		1° 19' 55"	12.68	2.87	2.54		0.23
45+00 ✓		2° 02' 53"	48.79	3.00	3.10	0.10	
45+50 ✓		2° 45' 51"	"	3.12	2.97		0.15
46+00 ✓		3° 28' 50"	"	3.25	2.76	0.51	
46+50 ✓		4° 11' 48"	"	3.38	3.02	0.24	
47+00 ✓		4° 59' 46"	"	3.51	3.22		0.14
47+50 ✓		5° 37' 44"	"	3.63	3.52		0.08
48+00 ✓		6° 20' 43"	"	3.76	2.67		1.09
48+50 ✓		7° 03' 41"	"	3.89	3.25		0.64
49+00 ✓		7° 46' 40"	"	4.02	3.67		0.35
49+50 ✓		8° 29' 38"	48.79	4.15	3.24		0.91
50+00 ²⁷		9° 12' 50"	49.06	4.25	3.29		0.96
50+40 ²⁷		9° 47' 13"	39.05	4.36	3.67	0.24	0.72
E.C. 50+80 ²⁷		10° 21' 35"	39.05'	4.48			

LEFT EDGE PAVEMENT

106 43'

102 43' (37)

50 | 53.3

3.18

+ H.I.

- ELEV

CITY = 8.25

CITY - 2.52

5.73 17.26

11.53

CITY-DATUM = 8.25

CUT	FILL
	0.31
	0.17
0.01	
	0.23
0.10	
	0.15
0.51	
0.24	
	0.14
	0.08
	1.09
	0.64
	0.35
	0.91
	0.96
0.24	0.72

5131117 GE RIGHT EDGE

LOCATION & GRADES OF 15' OFFSET FROM

RIGHT EDGE OF PAVEMENT

R=20.48'
A=20° 43' 11" 43

STA	DEF	ANGLE	CHORD	GRADE	ELEV	CUT	FILL
B.C.							
43+57 ⁰²	0	0	0	3.78	3.00		0.78
43+77 ⁰²	0°	17' 11"	20.47	3.99	3.29		0.75
43+97 ⁰²	0°	34' 23"	20.47	4.15	2.97		1.18
44+17 ⁰²	0°	51' 34"	"	4.27	3.10		1.17
44+37 ⁰²	1°	08' 45"	"	4.34	2.82		1.52
44+50	1°	19' 45"	13.30	4.37	2.93		1.38
45+00	2°	02' 53"	51.19	4.50	3.27		1.26
45+50	2°	45' 51"	"	4.62	2.95		1.67
46+00	3°	28' 50"	"	4.71	3.39		1.35
46+50	4°	11' 48"	"	4.87	3.39		1.48
47+00	4°	54' 46"	"	5.00	3.35		1.65
47+50	5°	37' 44"	"	5.12	3.12		1.99
48+00	6°	20' 43"	"	5.24	3.21		2.03
48+50	7°	03' 41"	"	5.37	3.10		2.21
49+00	7°	46' 40"	51.19	5.50	3.48		2.02
49+50	8°	29' 38"	51.19	5.62	3.35		2.27
50+00 ²⁷	9°	12' 50"	51.47	5.75	3.74		2.01
50+20 ²⁷	9°	30' 01"	20.47	5.78	3.93		1.85
50+40 ²⁷	9°	47' 13"	20.47	5.75	3.82		1.93
50+60 ²⁷	10°	04' 24"	20.47	5.68	3.82		1.86
50+80 ²⁷ E.C.	10°	21' 35"	20.47	5.55			

RIGHT EDGE PAVEMENT

+	H.I.	-	ELEV
5.73	17.26		11.53
CITY DATUM	- 9.25		
		5.25	3.00
		5.01	3.24
		5.28	2.97
		5.15	3.10
		5.43	2.82
		3.26	2.99
		5.01	3.24
		5.30	2.95
		4.86	3.39
		4.86	3.39
		4.90	3.35
		5.12	3.13
		5.04	3.21
		5.09	3.16
		4.77	3.48
		4.90	3.35
		4.51	3.74
		4.32	3.93
		4.43	3.82
		4.43	3.82

15' OFFSET FROM RIGHT EDGE OF PAVEMENT

STA	DEF.	ANGLE	CHORD	GRADE	ELEV	CUT	FILL	5.73	17.26	11.57
								CITY DATUM	8.25	
B.C.										
42+12 ⁶⁹	0°	0°	0	3.02	2.62		0.90			5.63 2.62
42+37 ⁰²	1°	12' 05"	23.75	2.95	2.58		0.37			5.67 2.58
42+57 ⁰²	2°	11' 14"	19.48	2.93	2.34		0.59			5.91 2.34
42+77 ⁰²	3°	10' 22"	19.48	2.99	2.81		0.15			5.41 2.81
P.R.C.										
42+85 ⁰²	3°	34' 01'	7.80		2.64					5.61 2.64
			P = 596.29		Δ = 07° 08' 02"					
P.R.C.										
42+85 ⁰²	0°	0' 00"			2.64					5.61 2.64
42+92 ⁰²	0°	35' 29"	12.31	3.11	2.63		0.78			5.62 2.63
43+17 ⁰²	1°	34' 37"	20.51	3.31	2.52		0.25			5.69 2.56
B.C.										
43+57 ⁰²	3°	34' 01"	41.91	3.78	3.00		0.78			

42 12 69
 14438
 35
 179

15' OFFSET FROM LEFT EDGE OF PAVEMENT
SOUTH OF BRIDGE

+ H.I.

FLEU (32)
272 NO. 4/02
MON. SOUTH BRIDGE
11.53

5.73 17.25

CITY DATUM - 8.25

STA	DEF	ANGLE	CHORD	GRADE	FLEV	CUT	FILL		
B.C. 42+12.69	0°	0'00"	0	3.02	2.32	5.93	0.70		2.32
12+69.83	2°	31'20"	50.83	2.89	2.72		0.16		2.73
P.P.C. 42+85.02	3°	31'01"	19.67		2.53			5.72	2.53
P.P.C.		R = 596.29'		Δ = 07° 08'02" RT.					
42+85.02	0°	0'							
43+17.02	1°	34'19"	32.72	2.75	2.33		0.42	5.92	2.33
43+37.02	2°	37'46"	20.51	2.71	2.33		0.38	5.92	2.33
B.C. 43+57.02	3°	34'01"	20.91	2.70	2.33		0.31	5.86	2.33

15' OFFSET FROM LEFT EDGE OF PAVEMENT

NORTH CURVE OF INTERSECTION - MIDWAY

R=177' A=100° 15' 52" LT.
A=97° 44' 40"

STA	DEF.	ANGLE	CHORD	GRADE	ELEV	CUT	FILE
B.C. 61+66	0° 0' 00"		0	3.43	3.31	0.38	
61+75	1° 20' 34"		8.30'	3.40	3.12	0.32	
62+00	5° 04' 23"		23.03	3.33	3.15	0.11	
+25	8° 48' 12"	"	"	3.25	3.21		0.01
+50	12° 32' 00"	"	"	3.18	2.96	0.22	0.22
+75	16° 15' 49"	"	"	3.11	3.10		0.01
63+00	19° 59' 38"	"	"	3.03	3.06	0.05	
+25	23° 43' 26"	"	"	2.95	2.64		0.31
+50	27° 27' 15"	"	"	2.87	2.62		0.25
+75	31° 11' 04"	"	"	2.78	2.52		0.26
64+00	34° 54' 53"	"	"	2.70	2.22		0.41
+25	38° 38' 41"	"	"	2.62	2.12		0.50
+50	42° 22' 30"	"	"	2.54	2.04		0.50
+75	46° 06' 19"		23.03	2.20 2.45	2.54		0.11
P.C. 65+01 64+93 ⁵⁷	50° 07' 56"		18.54 27.86	2.39 2.75	2.60		0.15
P.C.C.							

15' OFFSET FROM LEFT EDGE PAVEMENT

NORTH CURVE - INTERSECTION @ MIDWAY

R = 671.14 Δ = 21° 49' 18"

STA	DEF	ANGLE	CHORD	GRADE	FILL	CUT	FILL
P.C.C. 64+33.39		0° 0' 00"	0	2.39 2.75	2.0		0.15
65+25		1° 18' 49"	31.46 30.77	2.30	2.54	0.20	
+50		2° 21' 26"	34.75	2.20	3.00	2.80	
+75		3° 24' 04" ✓	"	2.10	2.94	0.84	
66+00		4° 26' 42" ✓	"	2.00	2.90	0.90	
+25		5° 29' 20" ✓	"	1.75	3.12	1.97	+1.57
66+33.06		5° 49' 31"	8.06	1.94			
+50		6° 31' 57" ✓	"		2.0		
+75		7° 34' 35" ✓	"		2.10		
67+00		8° 37' 13" ✓	"		2.10		
+25		9° 39' 50"	24.45		2.34		
END PROJ 87 67+53		10° 52' 09"	28.23		2.61		

LOCATION OF CENTER TRAFFIC LANE
OF INTERSECTION - VENTURA & MIDWAY -
FOR X-SECTION

61+66 P.C.	0
61+75	9.00
62+00	25.00
62+25	25.00
TO P.C. -	30.49

STA	DEF.	ANGLE	CHORD
B.C.			
62+55 ⁴⁹	0° 0' 00"		0
62+75	3° 43' 34"		19.50
63+00	8° 30' 03"		24.97
63+25	13° 16' 31"		24.97
63+50			
63+52 ⁵³	18° 32' 00"		27.23
63+75			22.47
64+00			25.00
64+25			"
64+50			"
64+75			"
65+00			"
65+25			"
65+			
65+			

3' OFFSET FROM RT. CURB ON
NLY. TRAFFIC LANE

3.16
32.09
.7

38

STA	DEF. ANGLE	CHORD	ELEV.	GRADE	CUT	FILL	FLEV	S/W COR. BASE LAMP POST # 4873
62+52.43 3' RADIUS CENTER			3.14	3.62	6.78	8.46	10.69	
						0.52	5.76	1.68
62+75			3.12	3.61		0.93	5.74	
63+00			3.12	3.53		0.91	5.34	
63+25			3.06	3.45		0.39	5.40	
+50			2.74	3.31		0.63	5.72	
+75			2.67	3.28		0.61	5.83	8.47
64+00			2.16	3.20		1.04	6.29	5.83
25			2.42	3.12		0.70	6.02	2.67
50			2.66	3.04		0.38	5.80	8.47
75			2.91	3.06		0.40	5.35	5.83
64+84.66 3' RADIUS CENTER			3.11	2.85		0.30	5.35	2.91
			3.12	2.75		0.30	5.34	3.11
							3.12	3.12

③ - LEFT EDGE OF CENTER MAIN

6-17-49

39

THOROUGHFARE VENTURA BLVD

4.85

M.I.H.

STA	DEF. ANGLE	CHORD	ELEV.	GRADE	CUT	FILL	H.I.	ELEV
B.C. 62+78.57	$R=115'4"=35^{\circ}54'43" \text{ LT.}$							
62+75.49	$4^{\circ}06'28"$	16.48	3.09	3.42		0.33	8.46	5.37
63+25	$11^{\circ}16'20"$	28.69	3.11	3.38		0.27		5.35
63+36 ⁵⁸	$14^{\circ}05'00"$	11.28	3.10	3.28		0.18		5.36
F.C. 63+52 ⁵³	$17^{\circ}57'21"$	15.53	2.83	3.19		0.36		5.63
63+72 ⁵³		20.00	2.77	3.03		0.26		5.69
64+00		27.47	2.50	2.80		0.30		5.86
64+51 ⁴⁹		54.44	3.05	2.40	0.59			5.47
B.C. 64+89 ⁶⁰	$4=88^{\circ}50'15" \text{ LT.}$	35.16	2.79	2.10	0.69			5.67
F.C. 65+05 ¹⁰	$L=15.50'$		3.26	1.96	1.30			5.20
65+26.81	? ?	21.73		1.66				
P.C.C. 65+35 ⁸³	$R=628'4"=77'17" \text{ RT.}$	9.04	3.64					4.82
65+41 ⁶⁵	$0^{\circ}16'00"$	5.85	3.42	1.60	1.82			5.04
65+75	$1^{\circ}47'44"$	33.50	3.15	1.95	1.20			5.31
66+00	$2^{\circ}56'29"$	25.12	2.82	2.21	0.61	3.??		5.65
E.C. 3'R 66+15.33	$3^{\circ}38'38"$	15.40	3.15	2.38	0.74	0.44		6.69
			3.12					5.31
								5.34

16.75	4.10	16.75	16.75
9.92	12.65	9.55	9.29
11.83	16.75	12.20	12.46
2.82		3.19	3.45

(3) FROM RIGHT EDGE OF PAVEMENT ON
CENTER SECTION VENTURA BLVD.

STA	DEF ANGLE	CHORD	ELEV.	GRADE	CUT	FILL	H.I.	-	ELEV
CENTER 3' R			3.60	3.53	0.07		8.46	4.80 ^{OK}	3.60
EC. 53 63+52	64+88 ²⁴ 63+52 ⁵³ 1+3623	0	3.52 3.63	3.34	0.18 0.29			4.83 ^{OK}	3.52 3.63
63+75		22.47	3.33	3.10	0.23			5.13 ^{OK}	3.33
64+00		25.00	3.11	2.96	0.15			5.35 ^{OK}	3.11
64+25		"	3.01	2.76	0.25			5.75 ^{OK}	3.01
64+50		"	2.98	2.56	0.42			5.78 ^{OK}	2.98
64+75		25.00	2.74	2.36	0.38			5.72 ^{OK}	2.74
D.C. 10' R 64+88 ⁷⁶	$\Delta = 89^\circ 15' 08''$ Rt. L=15.84	13.76	2.61	2.25	0.36			5.85 ^{OK}	2.61
P.C.C. 60 65+04	R=2062' $\Delta = 2^\circ 14' 11''$ Lt.		2.33	2.20	0.13			6.13 ^{OK}	2.33
65+25	0° 17' 02"	20.43	2.54	2.00	0.54			5.92 ^{OK}	2.54
65+50	0° 37' 54"	25.03	2.26	1.92	0.34			6.20 ^{OK}	2.26
65+75	0° 58' 46"	25.03	1.61	1.80		0.19		6.85 ^{OK}	1.61
P.C.C. 33 65+85	1° 07' 24" R=628' $\Delta = 9^\circ 10' 21''$ Lt.	10.34	1.72	1.75		0.03		6.74 ^{OK}	1.72
66+00	0° 40' 27"	14.78	1.63	1.79		0.16		6.83 ^{OK}	1.63
66+25	1° 49' 06"	25.12	1.21	1.86		0.65		7.25 ^{OK}	1.21
66+50	2° 57' 52"	"	1.18	1.94		0.76		7.32 ^{OK}	1.18
66+75	4° 06' 37"	25.12	1.06	2.01		0.95		7.10 ^{OK}	1.06
CENTER 3' R 66+85 ⁹² 65+92	4° 35' 10"	10.44	0.88 0.96	2.05		1.09		7.50 ^{OK}	0.96
								7.50 ^{OK}	0.88

③ FROM LEFT EDGE SOUTH CURVE

STA.	DEF. ANGLE	CHORD	ELEV.	GRADE	CUT	FILL	+	H.I.	-	ELEV
C CENTER 3'R.	TAN	49.36	3.60	3.49	0.11			8.46	OK 4.80	3.60
A POINT "E" P.C. 22.59 6 63+82	R=528.4=2257'35" RT.		3.44	3.23	0.21				OK 5.02	3.44
64+00	0°57'00"	17.51	3.58 3.50	3.14	0.74 0.36				4.88 4.96	3.58 3.50
+25	2°18'51"	25.14	3.01	3.01	GRADE				OK 5.45	3.01
+50	3°40'42"	"	2.84	2.88		0.04			OK 5.62	2.84
+75	5°02'33"	"	2.54	2.75		0.21			OK 5.92	2.54
65+00	6°24'25"	"	1.96	2.62		0.66			OK 6.50	1.96
D. 6 +25	7°46'15"	"	1.50	2.49		0.99			OK 6.96	1.50
P. 6 +50	9°08'07"	"	0.96 0.99	2.36		1.70 1.37			7.50 7.47	0.96 0.99
+75	10°30'00"	25.14	0.80 0.86	2.23		1.93 1.37			7.66 7.60	0.80 0.86
EC, 3'R 65+92.97	11°28'47"	18.07	0.88 0.96	2.11		1.23 1.15			9.04 7.50	0.88 0.96
									7.58	0.88

15' OFFSET FROM RT. EDGE OF PAVEMENT ON

SOUTH TRAFFIC LANE

STA.	DEF. ANGLE	CHORD	ELEV.	GRADE	CUT	FILL	H.X.	ELEV.
61+66 62+00		34.00	4.41	3.43	0.98	+6.78	8.46	4.05 4.41
+25		25.00	4.61	3.28	1.33		3.85	4.61
B.C. 62+66 ⁰³		41.03	4.68	3.18	1.50		3.78	4.68
	R=5154=7°15'08" Bt.							
63+00	1°56'47"	34.98	4.48	3.02	1.46		3.98	4.48
P.C.C. 63+23 ³²	3°37'34"	30.19	4.23	2.83	1.40		4.23	4.23
	R=4854=45°51'08" Bt.							
50	1°11'05"	20.06	4.09	2.72	1.37		4.37	4.09
63+92 ⁶¹	3°37'34"	41.31	3.29	2.48	0.81		5.17	3.29
64+25	5°28'55"	31.41	2.68	2.30	0.38		5.78	2.68
+50	6°54'52"	24.24	2.27	2.16	0.11		6.19	2.27
+75	8°20'49"	"	2.54	2.02	0.52		5.92	2.54
65+00	9°46'45"	"	2.37	1.88	0.49		6.09	2.37
+25	11°12'42"	"	1.55	1.74		0.19	6.91	1.55
65+50	12°38'38"	"	1.45	1.60		0.15	7.01	1.45
+75	14°04'35"	24.24	1.28	1.46		0.18	7.18	1.28
T.P. 65+92 ⁹⁷	15°06'22"	17.43	1.11	1.36		+5.80 0.25	7.35	1.11
66+12 ⁹⁷	16°15'06"	19.40	1.27	1.25	0.02		6.91	5.61 1.27
66+32 ⁹⁷	17°23'52"	19.40	0.78	1.14		0.36	6.13	0.78
66+52 ⁹⁷	18°32'38"	19.40	1.31	1.03	0.28		5.60	1.31

10.69
6.78
17.47
7.35
10.12
5.80
15.92

2.72
2.97

65+92⁹²

15' OFFSET FROM RT. EDGE OF

PAVING - SOUTH TRAFFIC LANE

7.7
3.5
5.2

(93)

STA	DEF. ANGLE	CHORD	ELEV.	GRADE	CUT	FILL	6.91	FLEV	15.92 5.27 10.65
66+72 ⁹⁷	19°41'23"	19.40	1.19	0.92	0.27			5.72	1.19
67+22 ²¹	22°30'40"	47.74	1.68	0.63	1.05			5.23	1.68
E.C. 26 67+29	22°55'35"	7.03		—	—	—		5.60	1.31
67+36 ⁷¹		7.25	1.33	0.62	0.71			5.58	1.33
+50		13.29	1.26	0.66	0.60			5.65	1.26
68+00		50.00	1.05	0.77	0.28			5.86	1.05
50		50.00	0.81	0.88		0.07		6.10	0.81
B.C. 68+92 ⁸⁶	R=65.4=16°12'07"14	42.86	0.68	0.96		0.28		6.23	0.68
69+25	1°32'04"	32.94	0.25	1.03		0.78		6.66	0.25
+50	2°43'42"	25.62	0.52	1.09		0.57		6.39	0.52
+75	3°55'20"	25.62	0.94	1.14		0.20		5.97	0.94
E.C. 69+99 ⁶⁹	5°06'03"	25.31	0.91	1.20		0.29		6.00	0.91
70+50		50.31	1.06	1.29		0.23		5.85	1.06
71+00		50.00	1.78	1.38	0.40			5.13	1.78
+50		50.00	1.42	1.47		0.05		5.49	1.42
71+98 ³¹		48.31	1.39	1.56		0.17		5.52	1.39
S/END PROJ									
B.M. SW COR.								5.28	EA=10.69 10.66

BASE LAMP
POST #4593

PROFILE & GRADES OF LEFT SIDE (13)

VENTURA CURVE - VENTURA BLVD

2.38
 5.11
 H.I. = 8.49

11.39

5.01

2.38

U.S. G. & G.S. - "COASTERS"

STA	T	H.I.	-	ELEV	GRADE	CUT	FILL
B.M.	6.11	8.49		2.38			
B.C.							
5+02				8.76	-0.27	1.06	1.33
5+22				8.65	-0.16	1.58	1.74
5+42				7.92	+0.57	1.99	1.42
5+62				8.27	+0.22	2.27	2.05
5+82				8.18	0.31	2.43	2.12
6+00				7.97	0.55	2.52	1.97
6+50				7.88	1.01	2.77	1.76
7+00				6.90	1.59	3.02	1.43
7+50				6.50	1.99	3.27	1.28
8+00				6.10	2.39	3.52	1.13
+50				5.51	2.97	3.77	0.80
8+98 ⁶⁸				5.50	2.99	4.02	1.03
9+48 ⁷¹				5.68	2.81	4.26	1.45
9+68 ⁷¹				5.76	2.73	4.32	1.59
9+88 ⁷¹				5.88	2.61	4.31	1.70

PROFILE & GRADES LEFT SIDE

STA	+	H.I.	-	ELEV	GRADE	CUT	FILL
10+00		8.49	6.20	2.29	4.28		1.99
+50			6.09	2.90	4.16		1.76
11+00			6.78	1.71	4.03		2.32
+50			7.31	1.18	3.91		2.73
12+00			6.20	2.29	3.76		1.99
12+50			7.42	1.07	3.66		2.59
12+99 ¹³			7.37	1.12	3.55		2.43
13+14 ¹³			7.42	1.07	3.48		2.91
13+39 ¹³			6.99	1.50	3.37		1.87
13+59 ¹³			6.85	1.64	3.23		1.59
13+79 ¹³			7.63 6.6	0.86	3.05		2.19
E.C. 13 13+99			xxx		2.85		

PROFILE & GRADES OF RIGHT (B)

VENTURA CURVE - VENTURA BLVD.

STA	+	H. I.	-	ELEV	GRADE	FILL	CUT
B.M.	6.11	8.99		2.38			
5+02			7.20	+1.29	-0.01		1.30
+22			6.81	1.67	+0.13		1.54
+42			6.52	1.97	0.23		1.74
+62			6.40	2.09	0.33		1.76
+82			6.38	2.11	0.43		1.68
6+00			6.42	2.07	0.52		1.45
+50			6.41	2.08	0.77		1.21
7+00			6.41	2.08	1.02		1.06
+50			6.16	2.33	1.26		1.07
8+00			6.42	2.07	1.51		0.56
+50			5.96	2.53	1.76		0.77
8+98 ⁶⁵			6.42	2.07	2.01		0.06
9+48 ⁷¹			6.46	2.03	2.26	0.23	
+68 ⁷¹			6.09	2.40	2.32		0.08
+88 ⁷¹			6.32	2.17	2.31	0.14	
10+00			6.45	2.04	2.28	0.24	

CITY = 2.38

EL = 11.39

U.S.C. & G.S. COASTER

PROFILE & GRADES RIGHT SIDE

STA	T	H.I.	-	ELEV	GRADE	CUT	FILL
10+50		8.49	6.65	1.84	2.15		0.31
11+00			6.71	1.78	2.02		0.24
+50			7.03	1.96	1.90		0.94
12+00			7.26	1.23	1.77		0.54
+50			7.36	1.13	1.64		0.51
+94 ¹³			7.40	1.09	1.55		0.96
13+14 ¹³			7.41	1.08	1.50		0.42
+34 ¹³			7.90	0.59	1.95		0.86
+59 ¹³			7.32	1.17	1.90		0.23
13+79 ¹³			7.43	1.06	1.35		0.29
EC. 13+94 ¹³			XXXX		1.30		XXX

62+55.49	59.7
29.86	63+52.53
62+99.95	30.87
	63+32.26

PROFILE & GRADES ALONG ϕ OF
 TRAFFIC ISLAND IN CENTER SECTION
 MIDWAY INTERSECTION

STA	+	H.I.	-	ELEV	GRADE	CUT	FILL
B.M	6.36	8.09		$\frac{10.69}{3.01}$ CITY 1.68			S/W COR. LAMP POST # 4573 (BASE) $\frac{8.09}{1.68}$ 6.36
STA - 62+80± B.C. (2' RADIUS)			7.51	3.53	3.82		0.29
63+00			7.53	3.51	3.77		0.26
+25			7.51	3.53	3.71		0.18
63+32 ²⁶			7.60	3.74	3.68		0.24
EG 63+52 ⁵³			7.68	3.36	3.59		0.23
+75			7.81	3.23	3.43		0.20
64+00			7.94	3.10	3.22		0.12
+25			5.09	2.95	3.01		0.06
64+54 ⁹¹			5.43	2.67	2.80		0.09
64+58 ²⁰			5.50	2.59	2.76		0.22
64+62 ⁹⁶			5.56	2.78	2.72		0.24
64+67 ²²			5.57	2.77	2.68		0.21
C-1' RADIUS 64+71 ⁷⁸			5.59	2.75	2.65		0.20

7' 4"
 5' 4"
 17'

PROFILE & GRADES ALONG RIGHT
EDGE (2) EDGE PAYEMENT

4.17 x

4.50

10 2
25 5

FINISH GRADES

2

STA + H.I. - ELEV GRADE CUT FILL

B.M. 4.54 4.60 +0.06 N/W COR. PLATE W/END NORTH PUMPS 4.50

1+00				-1.57	
+25				-1.47	
1+37 ⁴⁵		5.55	-0.95		
+50		5.40	-0.80	-1.31	0.56
+75		5.05	-0.45	-1.26	0.81
2+00		4.73	-0.13	-1.17	1.04
+25		4.46	+0.14	-1.07	1.21
+50		4.27	+0.33	-0.98	1.31
+75		4.00	+0.60	-0.89	1.49
3+00		3.82	+0.78	-0.80	1.58
+25		3.76	+0.84	-0.70	1.54
+50		3.64	+0.96	-0.61	1.57
3+75		3.58	+1.02	-0.52	1.54
4+00		3.51	+1.09	-0.42	1.51
+25		3.62	+0.98	-0.33	1.31
4+32 ³⁶		3.74	+0.86	-0.30	1.16
4+62 ³⁶		4.13	+0.47	-0.19	0.66
4+80		3.80	+0.80	-0.11	0.91
5+02		3.26	1.34	-0.01	1.35

6.53

PROFILE & GRADES ALONG (2) LEFT EDGE OF PAVEMENT

STA	H.I.	ELEV	GRADE	CUT	FILL
5+02	4.60	4.79	-0.19	+1.06	1.35
4 +80		4.51	+0.09	+0.50	0.41
4+62 ³⁶		4.92	-0.32	-0.10	0.22
4+32 ³⁶		5.20	-0.60	-0.60	GRADE
4+25		5.20	-0.60	-0.63	0.03
4+00		5.56	-0.96	-0.92	0.29
3+75		5.18	-0.58	-0.82	0.24
3+50		5.15	-0.55	-0.91	0.36
3+25		4.99	-0.39	-1.00	0.61
3+00		5.36	-0.76	-1.03	0.33
2+75		5.98	-1.38	-1.18	0.20
2+50		6.08	-1.98	-1.28	0.20
2+25		OUT		-1.38	X X X
2+00		5.27	-0.67	-1.47	0.80
1+75		5.82	-1.22	-1.57	0.35
1+50		5.86	-1.26	-1.66	0.40
E.C. 1+39 ⁰³		6.31	-1.71		
1+25					
1+00					
B.M.		4.54			

PROFILE & GRADES FOR CURBS

NORTH OF CENTER SECTION & INNER

WEST OF EXISTING WEST CURB (MIDWAY)

STA	+	H.I.	-	ELEV	WEST GRADE	EAST GRADE	WEST CUT	WEST FILL	EAST CUT	EAST FILL
B.M.	5.75	2.43		1.68						
# 3	(6)		5.89	1.54		1.85				0.31
# 2	(5)		5.90	1.53		1.82				0.29
# 1	(5)		5.78	1.65		1.73				0.14
= CENTER	(2) 19									
0+00			5.76	1.67	1.71	1.75		0.04		0.08
0+18	20		5.86	1.57	1.96		0.11			
0+39	65		5.98	1.45	1.16		0.29			
E.C.	56									
0+48			6.28	1.15	None		None	None		
0+54	15		6.11	1.32	1.10		0.22			
0+75			5.94	1.49	1.18		0.31			
1+00			6.04	1.39	1.23		0.11			
1+29	88		6.12	1.31	1.38			0.07		
1+44	88		6.07	1.36	1.46			0.10		
1+64	88		5.98	1.45	1.54			0.09		
1+84	88		5.04	2.39	1.12		0.77			
2+04	88		5.53	1.90	1.70		0.20			

1 P. PROFILE & GRADES FOR CURBS
 SOUTH OF CENTER SECTION & IMMEDIATE
 WEST OF EXISTING WEST CURB (MIDWAY)

STA	+	H.I.	-	ELEV	GRADE	CUT	FILL
RED HEAD # 3	INT. BLACK TOP OF CURB	NORTH 7.47	END	5.80	1.63	1.35	0.32
# 2				6.06	1.37	2.00	0.63
# 1				5.84	1.59	2.00	0.16
CENTER OF 2' RADIUS				5.95	1.48	2.10	0.62
# 1				5.77	1.66	2.00	0.40
# 2				5.90	1.53	2.00	0.19
RED HEAD INT. BLACK # 3	SOUTH TOP OF CURB	SOUTH END		5.81	1.62	1.35	0.36

SOUTH

PROFILE & GRADES FOR CURBS SOUTH
OF CENTER SECTION & IMMEDIATE WEST OF
EXISTING CURB - SEE PAGE (58)

STA	+	H.I.	-	ELEV	EAST GRADE	WEST GRADE	EAST CUT	EAST FILL	WEST CUT	WEST FILL
CENTER 1' RADIUS 0+00		7.43		5.89	1.59	1.99	1.97	0.05		0.07
#1 SOUTH #				5.84	1.59	1.52	1.15	0.07		0.19
#2 SOUTH #				5.71	1.72	1.56	1.92	0.16		0.30
0+17.5 # = E.C. 75 R. 0+17.5 J. SOUTH				5.71	1.72	1.59	1.40	0.13		0.32
0+35 P.C.				5.59	1.84	1.69	1.37	0.15		0.51
0+52.84				5.64	1.79	1.80	1.25	0.01		0.54
0+75 INLET				5.77	1.66	1.72	1.15	0.11		0.51
1+04.97 INLET				5.82	1.61	1.73	1.09	0.12		0.57
1+19.97 INLET				5.90	1.53	1.72	1.03	0.19		0.50
1+48.88 E.C.				5.88	1.55	1.68	1.15	0.13		0.40
1+71.60 P.AVEMENT AT NAIL				5.78	1.65	1.65	1.25	G. GRADE	G. GRADE	0.40
2+00 REDHEAD				5.85	1.58	1.61	1.37	0.03		0.21
2+15				5.88	1.55	1.59	1.43	0.04		0.12

PROFILE & GRADES FOR CURB RETURNS

VENTURA BLVD. TO BONITA BASIN BOAT

LAUNCHING RAMP

WEST CURB RETURN

STA	+	H.I.	-	ELEV	GRADE	CUT	FILL	CURB GRADE	CUT	FILL
B.M.	6.79	6.13		-0.66						
VENTURA 3+80 B.C.			5.11	+1.02	-0.50	1.52		+1.17		
+45° END CURB			5.13	+1.00	+0.30	0.70		+1.02		F.0.02
E.C. END PAVING		7.61	5.12	+1.01	+1.11	1.10	0.10	1.19		0.18
E.C. + 5'			5.09	+1.04	+1.11		F.0.07			
END W/PAVING			5.02	+1.11						

EAST CURB RETURN

STA	+	H.I.	-	ELEV	GRADE	CUT	FILL	CURB GRADE	CUT	FILL
VENTURA 4+90 B.C.		6.13	5.13	+1.00	-0.28	1.28		+1.39	0.61	0.23
B.C. + 45° END CURB			5.18	+0.95	+0.35	0.60		+0.72	0.23	0.60
E.C.			5.18	+0.95	+0.98		0.03	+1.05	0.03	0.03
E.C. + 5'			5.16	+0.97	+0.98				+3.5	1.02
EAST WEST END E.C. PAVING			5.02	+1.11					1.06	1
			5.15	+0.98	+0.98				.39	.39
									3.9	.67
									3.3	3.9
									7.2	1.02
									1.06	1.06

1.61
80
50
31
20
6.79
6.6
6.13

SUBGRADES FOR VENTURA BLVD. INTERSECT WITH MISSION BLVD. TO B.C. VENTURA CURVE

STA	+	H.L.	-	ELEV	LT	1/4	R	1/4	RT.
B.M.	6.11	6.17		10.06	N.W. COR. OF PLATE AT WEST END OF NORTH PUMPS (DOUGLAS)				
						6.17			
1+00					-2.11 8.28	-1.53 7.79	-1.33 7.50	-1.45 7.62	-1.72 7.89
+25					-2.61 8.18	-1.41 7.58	-1.21 7.38	-1.14 7.31	-1.02 7.19
+50					-1.81 8.08	-1.30 7.47	-1.10 7.27	-1.23 7.40	-1.61 7.78
+75					-1.82 7.99	-1.21 7.38	-1.01 7.18	-1.14 7.31	-1.51 7.68
2+00					-1.72 7.89	-1.11 7.28	-0.91 7.08	-1.04 7.21	-1.42 7.59
+25					-1.63 7.80	-1.02 7.19	-0.82 6.99	-0.93 7.12	-1.32 7.49
+50					-1.53 7.70	-0.93 7.10	-0.73 6.90	-0.86 7.03	-1.23 7.90
+75					-1.43 7.60	-0.83 7.06	-0.63 6.80	-0.76 6.93	-1.04 7.21
3+00					-1.34 7.51	-0.74 6.91	-0.54 6.71	-0.67 6.84	-1.05 7.22

LOCATION & GRADES FOR TRAFFIC

ISLAND SOUTH OF CENTER MIDWAY

SEE PAGE (53)

INTERSECTION
(TYPE "D" CURB)

5.19
1.59
6.78
5.18
1.10
1.79
1.65
9

(58)

6.68
① 5.29
7.39
② 5.31
1.37
③ 5.35
1.33
④ 5.35
1.33

STA	DEF. ANGLE	CHORD	GUTTER GRADE		ELEV	CUT	FILL
			EAST	WEST			
R = 2032 Δ = 1° 29' 19" LEFT							
0+17.23	0	0	1.53	1.43			
0+35	0° 15' 01"	17.75	1.69	1.33			
P.C.C.							
0+52.81	0° 30' 05"	17.81	1.80	1.25			
R = 598 Δ = 11° 20' 28" LEFT							
0+75	1° 03' 29"	22.08	1.77	1.15			
1+04.97	2° 29' 20"	29.86	1.73	1.05			
1+19.47	3° 10' 53"	14.45	1.72	1.02			
1+48.88	4° 35' 08"	29.31	1.68	1.15			
E.C.							
1+71.60	5° 40' 14"	22.64	1.65	1.25			
2+00	—	28.40	1.61	1.37	5.09	1.59	0.02
2+15	T	15.00	1.59	1.43	5.11	1.57	0.02
2+30.20	T	15.20	1.56	1.50	5.18	1.50	0.06
2+60.20	A	30.00	1.51	1.47	5.17	1.51	GRADE
2+90.20	N	30.00	1.46	1.45	5.22	1.46	GRADE
3+27		36.94	1.41	1.40	5.28	1.40	0.01
3+64.B.C.		37.08	1.35	1.35	5.29	1.35	0.04

10.69 B.M.

3.01

10.69 + 5.00 = 6.68 = H.I.

±

± ROD ELEV

±

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CURVE DATA LEFT EDGE OF
 PAVEMENT - CURVE NORTH OF BRIDGE



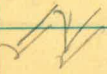
$R=500'$ $\Delta=23^\circ 47'$ $L=200.71$
 FINISH

STA	DEF ANGLE	CHORD	GRADE
R-B.C.			
23+28 ⁷⁹	0° 0'	0	
B.C. AT EDGE			
23+45 ⁰⁶	0° 0'	16.32	
		18.64	
23+48 ⁷⁹	0° 08' 07"	2.36	
23+68 ⁷⁹	1° 12' 26"	18.71	✓ 0
		21.07	
23+88 ⁹⁹	2° 16' 53"	18.75	✓ ✓
24+08 ⁷⁹	3° 21' 27"	18.78	✓ 0
24+29 ⁹⁵	4° 28' 35"	19.53	✓ 0
24+49 ⁹⁵	5° 33' 26"	18.86	✓ 0
24+69 ⁹⁵	6° 38' 22"	18.89	✓ 0
24+89 ⁴⁵	7° 43' 25"	18.92	✓ 0
25+29 ⁴⁵	9° 53' 48"	37.93	0
25+41 ⁹³	10° 36' 42"	12.48	0
E.C. AT EDGE			
25+57 ¹²	11° 30' 00"	15.49	0
25+61 ⁹³	T A	4.51	
25+72 ⁶⁴	N	10.71	

CURVE DATA FOR RIGHT EDGE OF PAYEMENT VENTURA BLVD. (60)

- CURVE NORTH OF BRIDGE -

R=500' Δ=23° LEFT L=206.71

STA	DEF ANGLE	CHORD	
RT. EDGE B.C. 23+12 ⁴²	0° 0' 0"	0'	
B.C. & 24+28 ⁷⁹	0° 56' 06"	16.32	
23+48 ⁷⁹	2° 09' 29"	21.32	
24+68 ⁷⁹	3° 23' 25"	21.29	
23+88 ⁷⁹	4° 35' 38"	21.25	✓
24+08 ⁷⁹	5° 48' 35"	21.22	✓
24+29 ¹⁵	7° 03' 50"	21.89	✓
24+49 ¹⁵	8° 16' 31"	21.79	✓
24+69 ¹⁵	9° 29' 05"	21.11	✓
24+89 ¹⁵	10° 41' 33"	21.08	✓
E.C. RIGHT 25+01 ⁴⁸	11° 30' 00"	14.09	
25+29 ¹⁵		27.97	
25+41 ⁹³		12.48	
25+61 ⁹³		20.00	
25+72 ⁶⁴		10.71	

T. C. STAMPER
 BARRAGAN
 E. WATSON
 A. SHEPARD 7-13-49

(61)

LOCATION & GRADES FOR CENTER
 ISLAND @ MISSION & VENTURA BLVD. INTERSECTION

1+00 = 1+00 VENTURA BLVD.

B.M. = + 0.06 + 3.79 = 3.85 = H.I.

STA	OFFSET DISTANCE	FINISH GUTTER GRADE	ELEV. HUB	FILL	- P.D
1+13 ⁴⁵	2.00'	-1.02	-1.03	GRADE	4.82
1+25	1.92'	-0.96	-1.25	0.29	5.10
1+50	1.76'	-0.85	-1.08	0.23	4.93
1+75	1.59	-0.76	-1.14	0.38	4.93
2+00	1.42'	-0.66	-0.94	0.28	4.73
2+25	1.26'	-0.57	-0.79	0.22	4.64
2+50	1.09'	-0.48	-0.69	0.21	4.54
2+63 ⁴⁵	1.00'	-0.43	-0.64	0.21	4.49

NORTH

LOCATION OF EAST SIDE OF TRAFFIC ISLAND

NORTH OF CENTER OF INTERSECTION (MIDWAY)

R = 912.53 Δ = 13° 58' 04" RT L = 222.96'

H.I. = 7.54

STA	DEF ANGLE	CHORD	GRADE	ELEV	FILL	CUT	-ROD
P.C.C. 0+48 ⁵⁶	0 0	0	2.00	1.53	0.27		5.81
0+75	0° 49' 48"	26.44	"	1.57	0.43		5.97
1+00	1° 26' 54"	25.00	"	1.63	0.31		5.85
1+25	2° 24' 00"	25.00	"	1.66	0.34		5.88
1+50	3° 11' 04"	25.00	"	1.73	0.21		5.75
1+75	3° 58' 10"	25.00	"	1.92	0.08		5.62
2+00	4° 45' 16"	25.00	"	1.97	0.03		5.57
2+25	5° 32' 21"	25.00	"	2.02	CUT → 0.02		5.52
2+50	6° 17' 26"	25.00	"	2.04	CUT → 0.04		5.50
2+71 ⁰²	6° 59' 02"	21.02	"	2.00	GRADE		5.54
SOUTH 0+48 ⁵⁶ 0+33 ⁷⁶	R = 2019'	SOUTH 17.80'	2.00	1.57	0.43		5.97

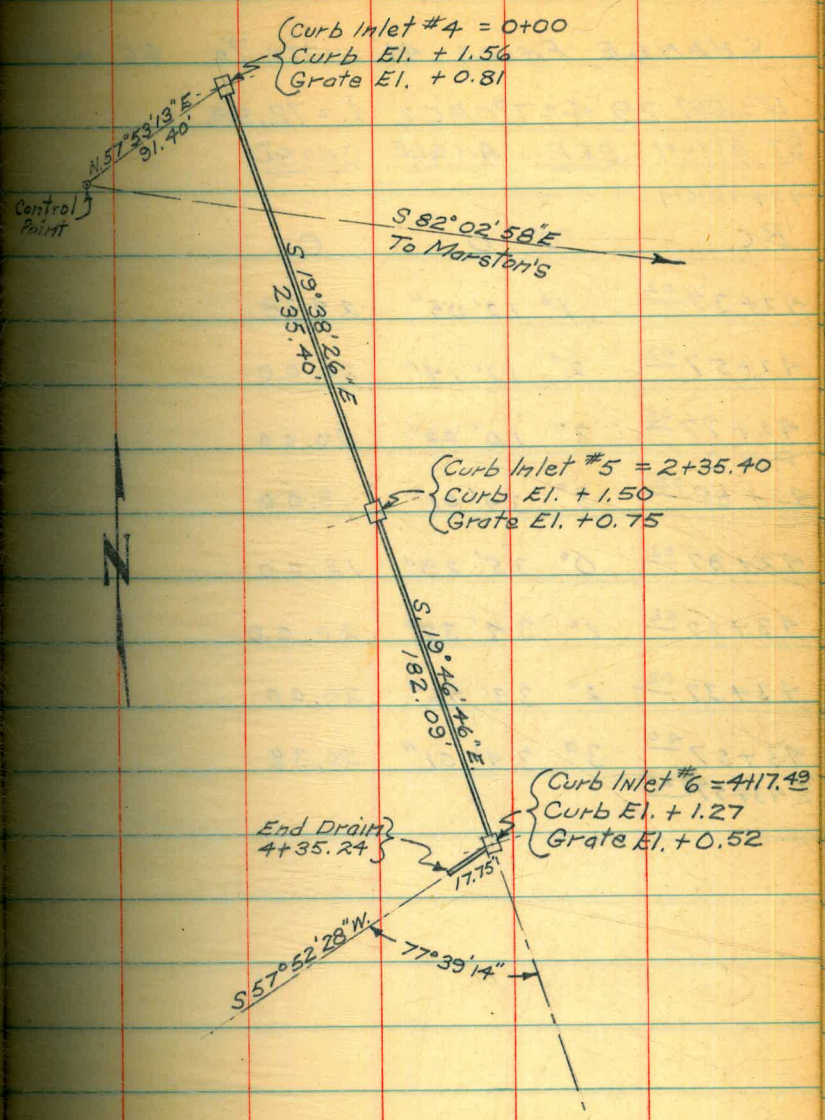
CURVE DATA 2000' R - AT SOUTH END
OF BRIDGE. $L=723.35$ $\Delta=20^{\circ}43'11''$ 2000

STA

43+57 ⁰²	0° 0'	0	
44+00	0° 36' 56"	42.98	✓
44+50	1° 19' 55"	50.00	✓
45+00	2° 02' 53"	"	✓
+50	2° 45' 51"	"	✓
46+00	3° 28' 49"	"	✓
+50	4° 11' 48"	"	✓
47+00	4° 54' 46"	"	✓
+50	5° 37' 44"	"	✓
48+00	6° 20' 42"	"	✓
+50	7° 03' 41"	"	✓
49+00	7° 46' 40"	"	✓
+50	8° 29' 38"	"	✓
50+00	9° 12' 36"	"	✓
+50	9° 55' 34"	"	✓
EC, 50+80 ²⁷	10° 21' 35"	30.21	✓

FLOWLINE GRADES FOR 18" DRAIN
AT MIDWAY INTERSECTION.

STA	DIST	GRADE	ELEV.	CUT	ROD
HUB					
B.M. EL. 1.68 + 4.95 = 6.13 = H.I.					
S/W COR. BASE LAMP POST # 4573					
INLET # 4					
0+00	0	-1.30	+1.55	2.85	4.58
+50	50'	-1.45	+1.63	2.18	4.50
1+00	50'	-1.60	+1.63	3.23	4.60
+50	50'	-1.75	+1.56	3.31	4.57
2+00	50'	-1.90	+1.64	3.54	4.49
INLET # 5					
2+35 ⁴⁰	35 ⁴⁰	-2.00	+2.26	4.26	3.38
+50	14.60'	-2.05	+1.63	3.68	4.50
3+00	50.0'	-2.20	+1.57	3.77	4.56
+50	50	-2.35	+1.59	3.94	4.54
4+00	50	-2.50	+1.47	3.97	4.66
INLET # 6					
4+17 ⁴⁹	17 ⁴⁹	-2.54	+1.46	4.00	4.67
END DRAIN					
4+35 ²⁴	17 ²⁵	-2.59	+0.76	3.35	5.37



REVERSE CURVES ON LEFT & RIGHT

EDGES OF PAYEMENT SOUTH OF BRIDGE

CHANGE FROM 44' WIDTH TO 66' WIDTH

$R=581.29 \quad \Delta=7^{\circ}08'02'' \quad L=72.38$

STATION DEF ANGLE CHORD

42+12.69

B.C. 0° 0' 0

42+37⁰² 1° 12' 05" 29.38

42+57⁰² 2° 11' 14" 20.00

42+77⁰² 3° 10' 22" 20.00

P.P.C.
42+85⁰² 3° 34' 01" 8.00

42+97⁰² 0° 35' 29" 12.00

43+17⁰² 1° 34' 37" 20.00

43+37⁰² 2° 33' 46" 20.00

43+57⁴⁰ 3° 34' 01" 20.38

43+57⁰²

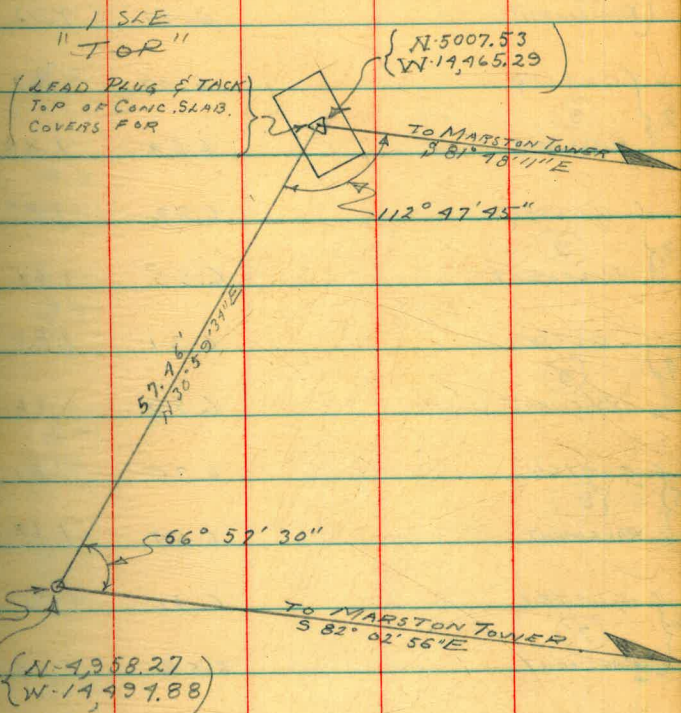
TIE OF LEAD PLUG & TACK TOP OF WATER M.H.
NEAR MIDWAY INTERSECTION ("TOP") AND
2" X 2" CONTROL POINT

STA	OBJECT	ANGLE	DIST
CONTROL "POINT" 2" X 2" W.D.S. TACK	(MARSTON'S TOWER)	① 66° 57' 30"	57.46
	LEFT	② 133° 55' 00"	
	(LEAD & TACK APPROX CENTER OF CONC. TOP "TOP" "ISLE")	AV. = 66° 57' 30"	

STA	+	H.I.	-	FLEV.
-----	---	------	---	-------

B.M.	6.25	16.94		10.69
SET "B.M. TOP"			4.25	12.69

"ISLE" "TOP"	(MARSTON'S TOWER)	① 112° 47' 30"
	RIGHT	② 225° 35' 30"
	("CONTROL" POINT (2" X 2"))	AV. 112° 47' 45"

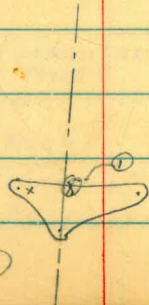


LEVELS & GRADES FOR MATCHING CURB

STA + H.I. - ELEV
 B.M. 6.48 8.16 CITY - 1.68 DATUM

10.69 U.S. CGS
 9.01

1.	GUTTER (11')	6.63	1.53	13
	PAVEMENT	6.49	1.72	
2.	GUTTER (9')	6.47	1.69	10'
	PAVEMENT	6.54	1.62	
3.	GUTTER (9')	6.32	1.89	11
	PAVEMENT	6.55	1.61	
4.	GUTTER (9')	6.31	1.85	13
	PAVEMENT	6.50	1.66	
5.	GUTTER (8')	6.35	1.81	13
	PAVEMENT	6.59	1.62	
6.	GUTTER (7')	6.41	1.75	11
	PAVEMENT	6.52	1.69	
7.	GUTTER (9')	6.44	1.72	10
	PAVEMENT	6.50	1.66	
8.	GUTTER (2')	6.43	1.73	12
	PAVEMENT	6.55	1.61	
	NORTH RADIOS OF "Y"	6.38	1.78	
	ISLANDS (1.)	6.42	1.74	



EXISTING PAVEMENT

SUB FINISH
 GRADE GRADE 1.68 + 4.60 = 6.28 H.I.

2 11'	@ 11'
1.21	1.46
3.07	
@ 9'	1.66
1.91	
2.51	@ 9'
	1.79
3 9'	
1.54	
4.74	@ 9'
	1.78
@ 9'	
1.53	
4.25	@ 8'
	1.74
@ 8'	
1.99	
3.17	@ 7'
	1.72
@ 7'	
1.47	
4.61	@ 4'
	1.71
@ 4'	
1.96	
2.82	@ 2'
	1.72
@ 2'	
1.47	

T. STAMPER
 C. BARRAGAN
 E. WATSON
 A. SHERRY

LOCATION & PROFILE OF ISLAND COURT

STORM DRAIN EXTENSION TO NEW PUMP HOUSE

7-21-49

69

3.59
~~9.00~~
~~12.59~~
~~1.59~~
 8.00

6'
 10'
 1.1'

STA	-ROD ELEV.	FLOWLINE	GRADE	CUT
B.M. EL = -0.48 + 4.07 = 3.59 = H.I.				

(14)	1+00 ⁶	4.14	-0.55	-6.76	6.21
------	-------------------	------	-------	-------	------

(14)	1+25 ⁶	4.10	-0.51	-7.36	6.85
------	-------------------	------	-------	-------	------

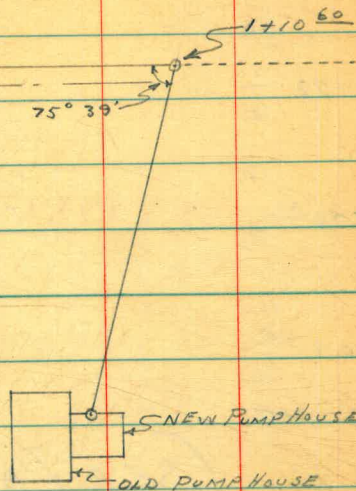
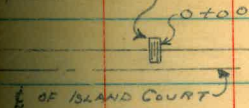
(16)	1+50 ⁶	4.07	-0.48	-7.96	7.48
------	-------------------	------	-------	-------	------

(13)	1+75 ⁶	4.06	-0.47	-8.56	8.09
------	-------------------	------	-------	-------	------

	1+90			-8.91	
--	------	--	--	-------	--

	1+97			-9.00	
--	------	--	--	-------	--

CURVE @ BAYSIDE LANE
 ISLAND COURT



PROFILE & GRADES WEST CURB NORTH SIDE

STA	+	H.I.	(OFFSET) - P.O.D	ELEV (GUTTER) - P.O.D	CUT	FILL
B.M	3.86	7.57		12.69 2.01 CITY = 3.68		

RADIUS = (1)

2+73	¹⁰ / ₍₂₎		5.53	5.54	2.00	0.01
------	--------------------------------	--	------	------	------	------

(1)

		5.56	5.56	1.78		GRADE
--	--	------	------	------	--	-------

2+40	²¹ / ₍₄₎		5.58	5.62	1.22	0.04
------	--------------------------------	--	------	------	------	------

REVISED

(5)

		5.64	5.65	1.39		0.01
--	--	------	------	------	--	------

2+07	⁸⁸ / ₍₆₎		5.64	5.74	1.90	0.04 0.10
------	--------------------------------	--	------	------	------	-----------

EXISTING GRADE (GUTTER)

GUTTER

			5.88	1.66		
--	--	--	------	------	--	--

(SEE PAGE (62) FOR EAST EDGE)

23

19

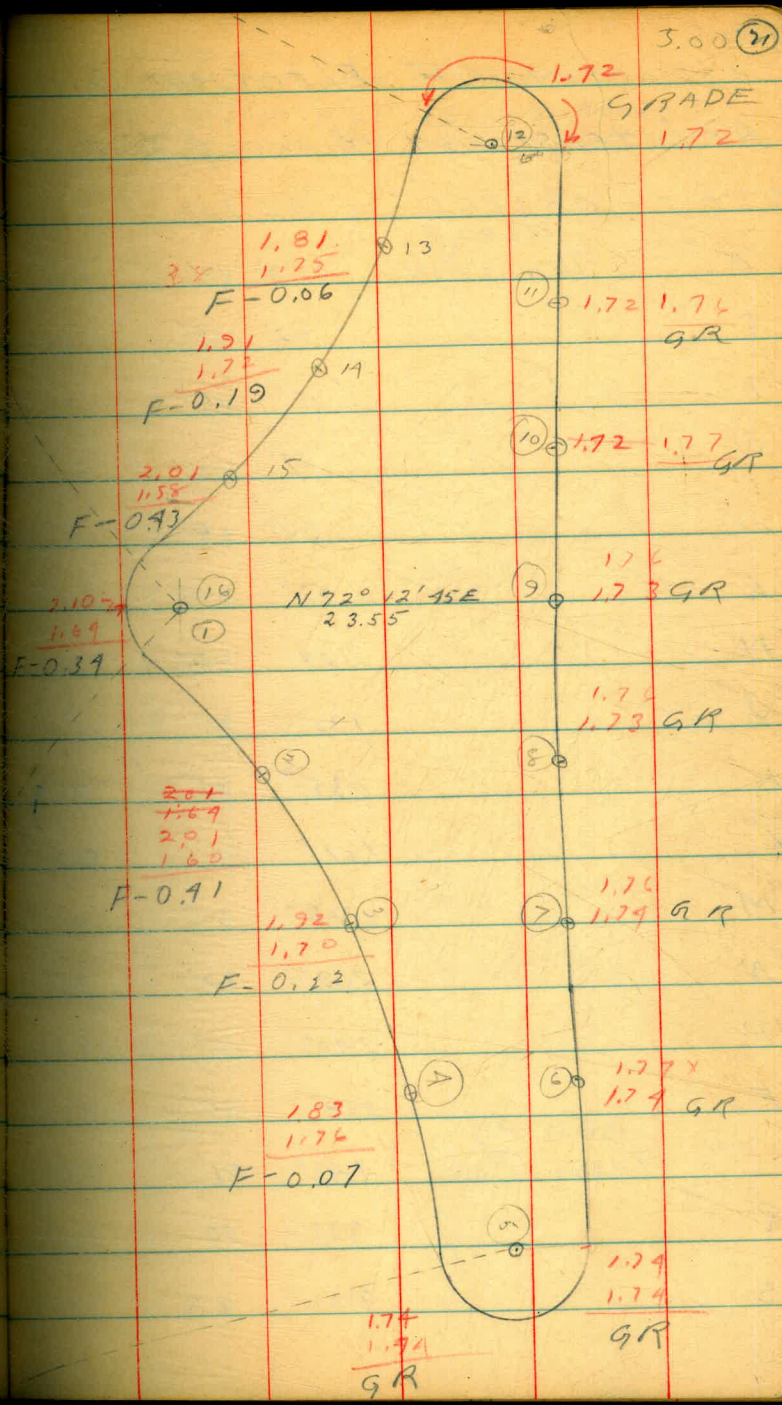
11

20

28

PROFILE & GRADES FOR CENTER
TRAFFIC ISLAND

STA	+	H.I.	-	ELEV
B.M	4.94	6.62		10.59 9.01 CITY 1.58
RADIUS				
①			4.98	1.64
②			5.02	1.60
③			4.92	1.70
④			4.86	1.76
⑤ RADIUS			4.88	1.74
⑥			4.85	1.77
⑦			4.86	1.76
⑧			4.86	1.76
⑨			4.86	1.76
⑩			4.85	1.77
⑪			4.86	1.76
⑫ RADIUS			4.80	1.72
⑬			4.87	1.75
⑭			4.90	1.72
⑮			5.04	1.58
⑯ RADIUS			4.98	1.64



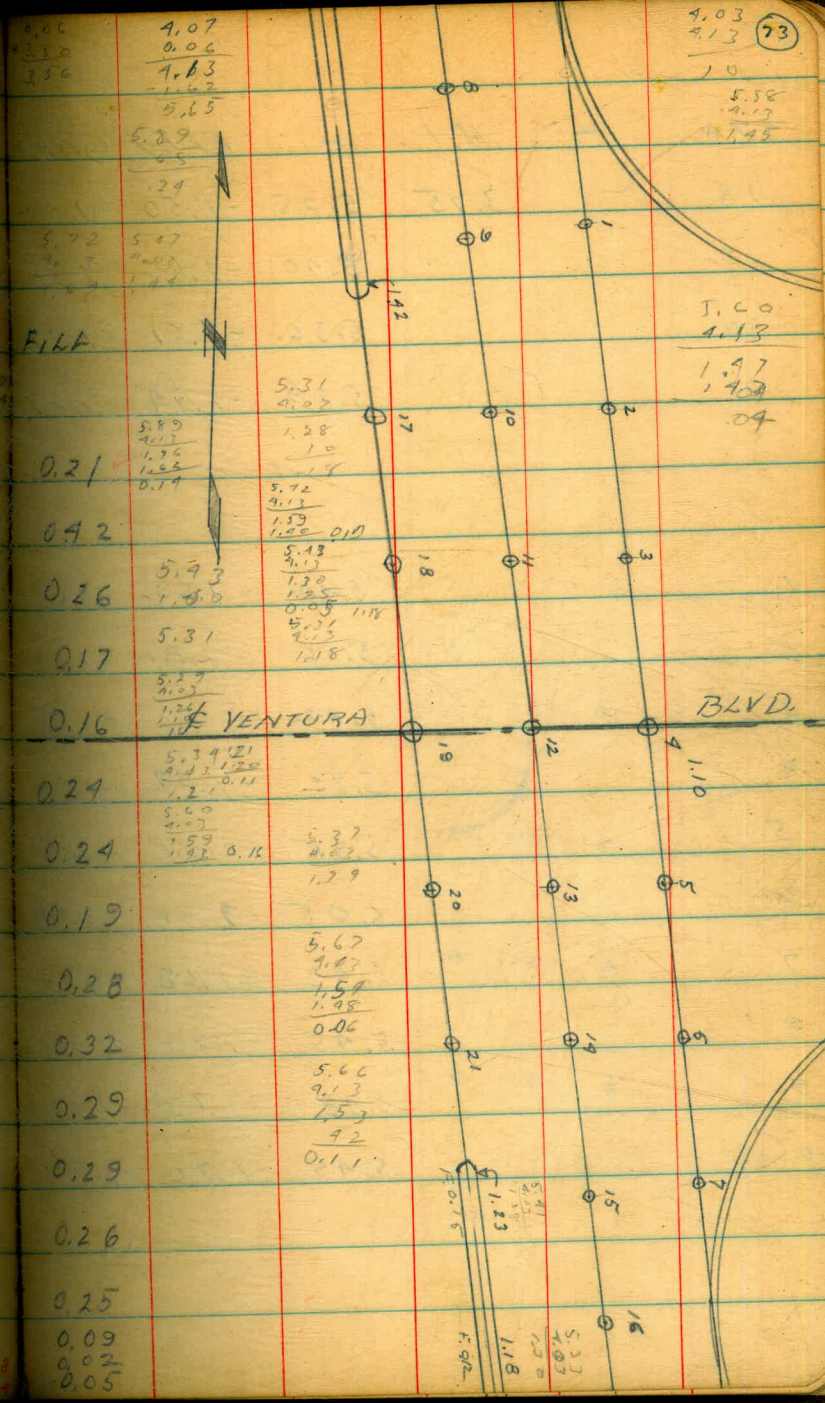
LOCATION OF ELECTRIC OUTLET
AT INTERSECTION MIDWAY & VENTURA

179 59 60
S 82 02 58 E To MARSTON
97° 57' 02" AZIM. To MARKS

STA	OBJECT	AZIM	DIST
"A"	NORTH TRANS. BOX	359° 17'	362'
"G" X		02° 05'	126'
"B"		15° 25'	129'
"C"		81° 04'	57'
"D" X		86° 08'	92'
"E"		97° 09'	111.5'
"H"		124° 40'	149.8'
"J"		132° 25'	120.0'
"K"		135° 30'	78.0'
"L"		161° 20'	157'
"M"		198° 30'	81'
"N"		209° 37'	70'
"P"		240° 15'	153'
"F"		268° 35'	53'
	(SOUTH) TRANS BOX	146° 26'	233'
"R"		326° 20'	261'
"S"		331° 28'	315'
		151° 28'	

GRADES AT INTERSECTION OF MISSION BLYD. AND VENTURA

STA	+	H.I.	-	ELEV	GRADE	FILE
B.M.	3.69 3.50	3.75 3.56	@ MISSION BLYD	+0.06 +0.06	3.85 5.18	
1				5.58	-1.83	-1.62 0.21
2				5.57	-1.82	-1.90 0.92
3				5.26	-1.51	-1.25 0.26
4				5.02	-1.27	-1.10 0.17
5				5.01	-1.26	-1.10 0.16
6				5.19	-1.44	-1.20 0.24
7				5.42	-1.67	-1.93 0.24
8				5.54	-1.79	-1.60 0.19
9				5.51	-1.76	-1.48 0.28
10				5.47	-1.72	-1.40 0.32
11				5.36	-1.61	-1.32 0.29
12				5.29	-1.54	-1.25 0.29
13				5.24	-1.49	-1.23 0.26
14				5.20	-1.45	-1.20 0.25
15				5.14	-1.39	-1.30 0.09
16				5.09	-1.34	-1.32 0.02
17				5.28	-1.53	-1.48 0.05

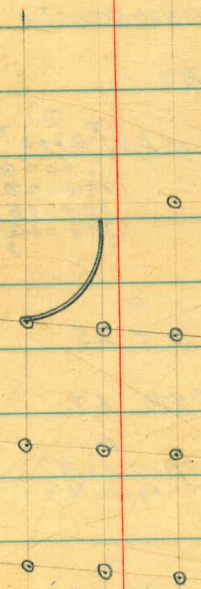


356

STA	+	H.I.	-	ELEV	GRADE	F.I.F
18		3.75	5.25	-1.50	1.49	0.06
19			5.90	-1.65	1.38	0.27
20			5.36	-1.61	1.32	0.29
21			5.29	-1.59	1.27	0.27

5.63
 4.93
 1.89
 0.86
 5.12
 1.08
 1.59
 0.57
 3.56
 1.12
 1.52
 0.27
 5.49
 4.03
 1.46
 1.27
 0.19

1			5.44	-1.69	-1.65	0.04
2			5.56	-1.81	-1.76	0.05
3			5.42	-1.67	-1.65	0.02
4			5.72	-1.97	-1.95	0.02
5			5.95	-2.20	-2.03	0.17
6			6.05	-2.30	-2.08	0.22
7			5.43	-1.68	-1.70	CUT -> 0.02
8			5.45	-1.70	-1.75	CUT -> 0.05
9			5.48	-1.73	-1.73	GRADE
10			5.45	-1.70	-1.70	GRADE



BASELINE ALONG ABANDONED P.R. GRADE FOR
 LOCATION OF M.H.T. BOUNDARY LINE (THRU. OCEAN BEACH PARK ANNEX)

BARRAGAN
 WATSON
 SNEYDY
 8-6-49 (75)

360
 2600
 38600 00
 146° 52' 00
 293° 49' 00

STA OBJECT ANGLE DIST BEARING
 U.S.F.D.
 "JEEPER" 0° 00' 00" 0° 00' 00" 25' N 61° 19' 28" E
 0+25

LINDA VISTA TRK (1) 34° 21' 00" 584° 19' 32" E
 0+25 RT. - (6) 206° 06' 00" 3375'
 P of B/A (8+00) AV. 39° 21' 00"
 (16+000)
 (14+000)
 (30+000)
 (34+000)

0+25 (1) 7° 23' 30" N 88° 16' 38" E
 (2) 14° 47' 00"
 34+00 DEF LT. (6) 44° 23' 00" 301.34
 "FAMOSA" (STA-43+01.32) 7° 23' 50"

34+00 (1) 146° 52' 00"
 (2) 293° 49' 00"
 "FAMOSA" RT. - (6) 881° 12' 00"
 LINDA VISTA TRK AV. 146° 52' 00"
 N 55° 08' 38" E
~~N 58° 35' 22" W~~ Computed N 55° 09' 00" E

NOTE: See F.B. 41
 45-50

161° 12'
 72
 146° 52' 00
 6
 29
 29
 31
 30
 5-312
 20
 12
 12

PROFILE ALONG L OF PROPOSED

C. BARTLEMAN
A. SHIPPY
N. BROWN A-7-50

(76)

DRAWN SUNSET POINT TO DANA BASIN 13.05

0+00 = VENTURA BLVD. ROAD STA - 71+12 E

4.49
17.54
5.76
11.76
5.03
16.79

STA + H.I. - ELEV

S/E COR. M.H.
@ VENTURA
STA-

B.M. 4.49 17.54 13.05

T.P. +5.03 16.79 5.78 11.76

S/E VENTURA
BLVD
S/E EDGE VENTURA

0+00 4.09 12.70

0+38 5.05 11.74

0+50 5.05 11.74

1+00 5.2 11.6

1+30 5.2 11.6

1+50 4.9 11.9

2+00 4.8 12.0

+50 5.1 11.7

3+00 5.2 11.6

+50 5.4 11.4

4+00 5.0 11.8

+50 5.1 11.7

5+00 5.6 11.2

5+23 5.8 11.0

5+50 5.7 11.1

4-7-50

DRAIN PROFILE CONT'D.

STA	+	H.I.	-	ELEV
6+00		16.79	6.1	10.7
6+91			6.4	10.4
+50			6.0	10.8
7+00			6.5	10.3
+50			6.0	10.8
8+00			5.6	11.2
+50			6.0	10.8
9+00			6.3	10.5
+50			6.4	10.4
9+73 ⁵			6.28	10.01

WEDGE OF
RAMP TOP

465
423
464
585
969

425
38
463

73
69
45

4-7-50

2-707 = 505

505

425

38

968

5530

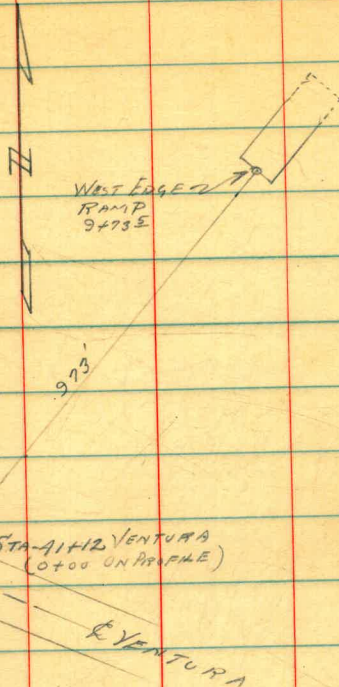
930

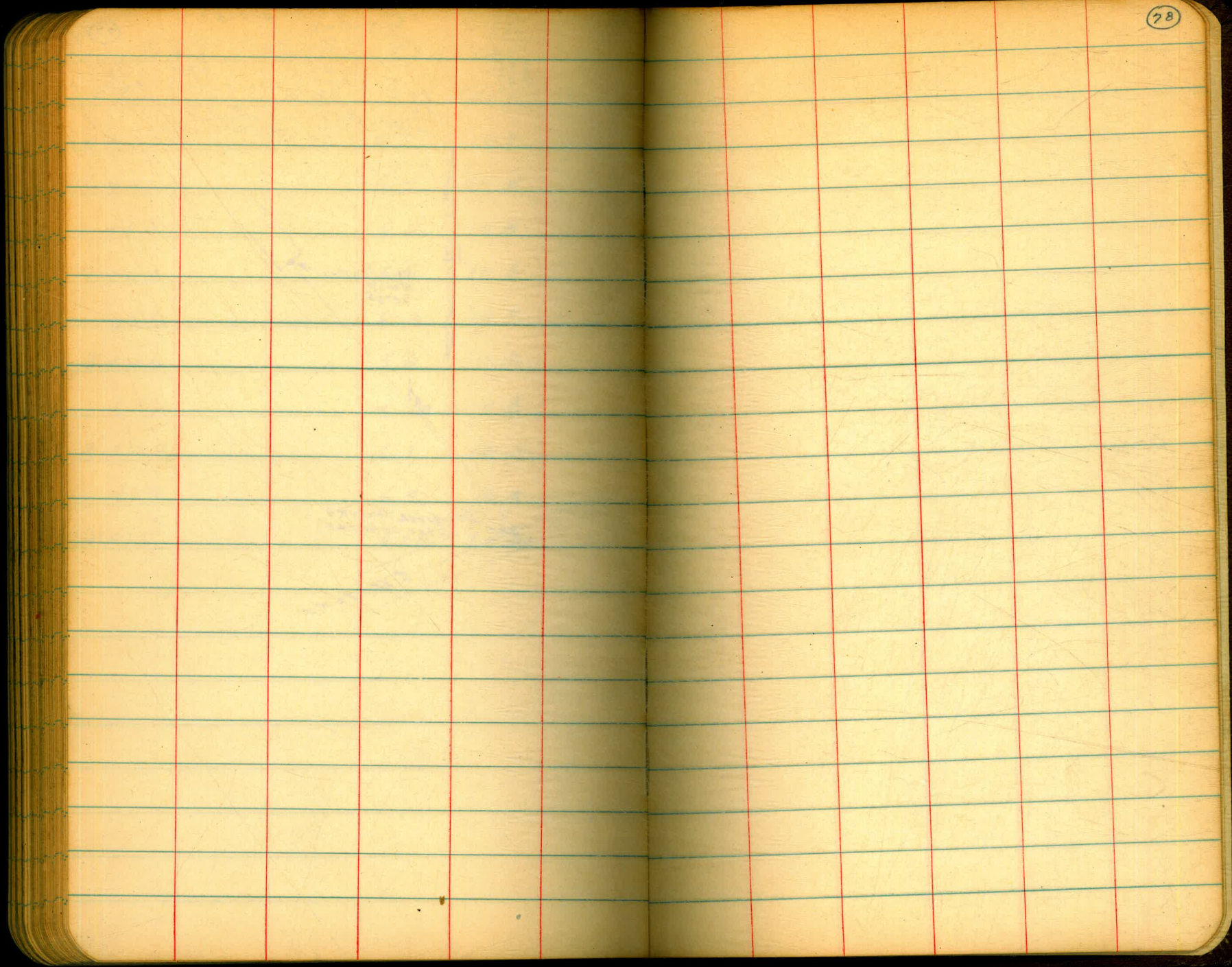
15.30

N40°00' E

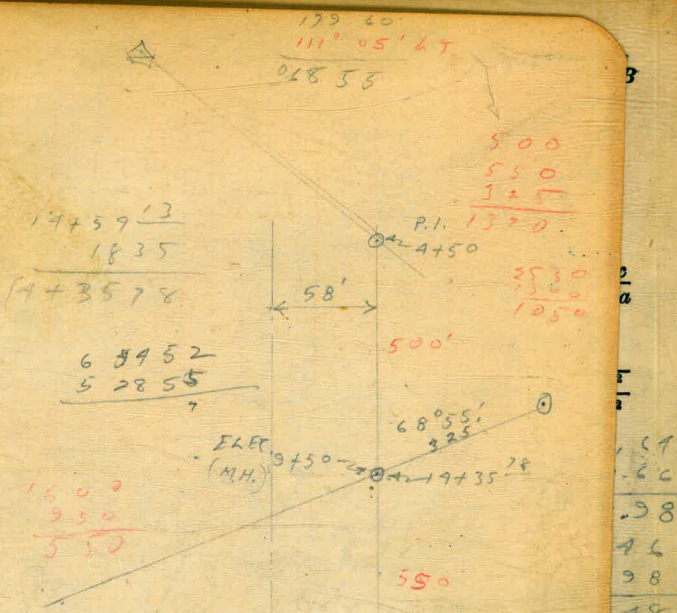
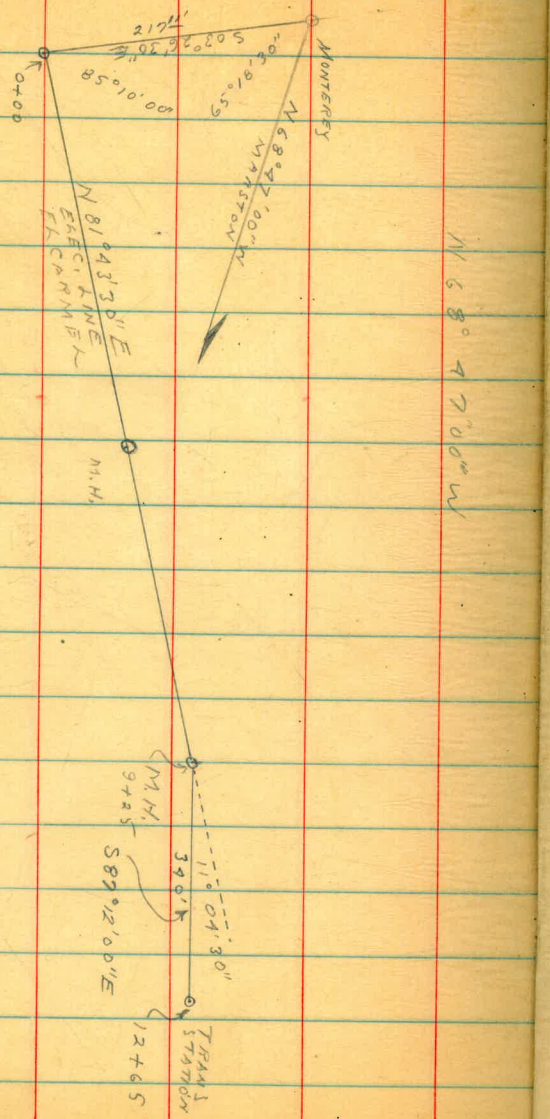
(77)

520
38
968





① $65^{\circ} 18' 30''$
 ② $130^{\circ} 37'$
 } EL CARMEN
 0700 85° 10' 00" To ♀ - MONTEREY
 9745 11° 7' 30" D.C.F. - RT.
 340
 12765



179 20
 111° 05' LT
 028 58
 500
 550
 125
 P.I. 1320
 4450
 58'
 500'
 68° 55' 32"
 17735
 ELECT. (M.H.) 9750
 550
 15+00 M.H. ELECT. B)
 ELECT. LINE 2
 3° 26' LT.
 550
 15+50
 ELECT. M.H.
 17759 13
 1835
 1443578
 68952
 52855
 7
 1600
 350
 550
 550
 550
 500
 1600
 325
 1925 - VENTURA
 1265 - ELCARMEN
 3180
 by the
 9.4ft.
 '10'=
 slope
 h the
 follow-
 =.0041.
 e dist-
 =14 ft.
 3 ft.
 . S.A.

11.

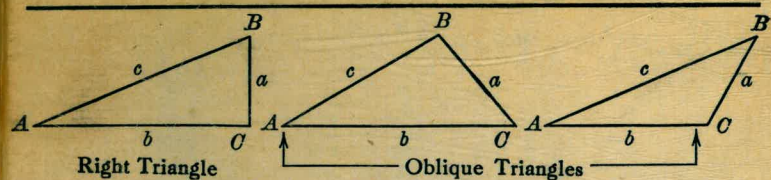
11.39	13.04	
8.01	4.94	
2.38	17.98	17.98
	5.98	6.15
	12.00	11.87
	9.01	7.50 - 5.98
	2.99	7.37 - 6.75
	8.25	8.25
	5.26	5.13

2.30	2.30	5.60	5.71
	-1.99	3.61	3.61
	-1.99	-1.99	3.61
		-2.11	1.58
		GUTTER	2.03

	5.29	-2.25
	3.61	-1.43
	1.63	0.62
	5.38	5.
	3.61	

	-1.77	-2.30
		-1.77
		C-0.53 INT # 2
5.80		
3.61		
-2.19		

TRIGONOMETRIC FORMULÆ



Solution of Right Triangles
 For Angle A. $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{b}$, $\text{cosec} = \frac{c}{a}$

Given	Required	
a, b	A, B, c	$\tan A = \frac{a}{b} = \cot B$, $c = \sqrt{a^2 + b^2} = a \sqrt{1 + \frac{b^2}{a^2}}$
a, c	A, B, b	$\sin A = \frac{a}{c} = \cos B$, $b = \sqrt{(c+a)(c-a)} = c \sqrt{1 - \frac{a^2}{c^2}}$
A, a	B, b, c	$B = 90^\circ - A$, $b = a \cot A$, $c = \frac{a}{\sin A}$
A, b	B, a, c	$B = 90^\circ - A$, $a = b \tan A$, $c = \frac{b}{\cos A}$
A, c	B, a, b	$B = 90^\circ - A$, $a = c \sin A$, $b = c \cos A$

Solution of Oblique Triangles

Given	Required	
A, B, a	b, c, C	$b = \frac{a \sin B}{\sin A}$, $C = 180^\circ - (A + B)$, $c = \frac{a \sin C}{\sin A}$
A, a, b	B, c, C	$\sin B = \frac{b \sin A}{a}$, $C = 180^\circ - (A + B)$, $c = \frac{a \sin C}{\sin A}$
a, b, C	A, B, c	$A + B = 180^\circ - C$, $\tan \frac{1}{2}(A - B) = \frac{(a - b) \tan \frac{1}{2}(A + B)}{a + b}$ $c = \frac{a \sin C}{\sin A}$
a, b, c	A, B, C	$s = \frac{a + b + c}{2}$, $\sin \frac{1}{2}A = \sqrt{\frac{(s - b)(s - c)}{bc}}$ $\sin \frac{1}{2}B = \sqrt{\frac{(s - a)(s - c)}{ac}}$, $C = 180^\circ - (A + B)$
a, b, c	Area	$s = \frac{a + b + c}{2}$, $\text{area} = \sqrt{s(s - a)(s - b)(s - c)}$
A, b, c	Area	$\text{area} = \frac{bc \sin A}{2}$
A, B, C, a	Area	$\text{area} = \frac{a^2 \sin B \sin C}{2 \sin A}$

REDUCTION TO HORIZONTAL



Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = 5° 10'. From Table, Page IX. $\cos 5^\circ 10' = .9959$. Horizontal distance = $319.4 \times .9959 = 318.09$ ft. Horizontal distance also = Slope distance minus slope distance times (1 - cosine of vertical angle) With the same figures as in the preceding example, the following result is obtained. $\text{Cosine } 5^\circ 10' = .9959$. $1 - .9959 = .0041$. $319.4 \times .0041 = 1.31$. $319.4 - 1.31 = 318.09$ ft. When the rise is known, the horizontal distance is approximately: —the slope distance less the square of the rise divided by twice the slope distance. Thus: rise = 14 ft., slope distance = 302.6 ft. Horizontal distance = $302.6 - \frac{14 \times 14}{2 \times 302.6} = 302.6 - 0.32 = 302.28$ ft.