B-27

IMPERIAL

ENGINEERS'

LEVEL BOOK

No. 4105

EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and SURVEYING INSTRUMENTS

Chicago New York San Francisco New Orleans Pittsburg Toronto

Distances from Center of Roadway for Cross-Sectioning
Roadway 16 feet wide. Side Slopes 1 on 1.
For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be 30.6+(20—16)÷2 or 2 ft. added to 30.6 =32.6. For slopes of 1 on 1½ see inside of back cover.

Copyright, 1914, by Eugene Dietzgen Co.

B-27

This Field Book is manufactured of a High Grade 50% Rag Paper having a WATER RESISTING SURFACE, and is sewed with Bing Special Enamel Waterproof thread.

Made in U. S. A.

Indexed

2018 Cypress 3

4464 Jewell 4

3615 Noell 5

Tennyson, Wells to Cat. Blvd } one Job 15

Alicia " " } 11

Atascadero " " }

Lot 101 Blvd Gardens - Marena 1294 77

Garrison & Scott curb gr. 30

Garrison N Side East of Rosecrans 32

N. Side Tourmaline - East of Mission Blvd 34

4052 Tennyson 35

Mancey 29th to 30th 36

06 stakes Lot 1 / 34 M.d. 37

" " Lot 70 / 37 Pt. Loma Hts 38

3020 - Univ Ave. 40

Lots 3 - 4 - Blk 6 Rosevill Hts 42

Merlin Drive 57-

Curbs - Noyes & Garnet, Lot 21 76

Blk - 206 - P.B.

Hendricks Stake 72' Curb & Sidewalk
Hardin Ohio & Monroe East Side
Smith
Worrell
Aug. 11, 1947
WO# 21018

LOT Por. 3 BLK. Partition ADD. Pueblo Lands
OWNER Western Construction Co.
CONTR. Stanley H. Highboro
PERMIT NO. 1144

Sta	+	H I	-	Elev Nails	Elev Grade	Fills
0+72 EC			3.91	384.92	(385.00 Plan) 384.92	
0+48			4.34	384.49	385.26	0.77
0+24			3.93	384.90	385.60	0.70
0+00 BC			2.89	385.94	386.00 Plan 385.94	
B.M.	9.88	388.83			378.95	

INDEXED
AUG 8 1951

50' Curb & Walk at

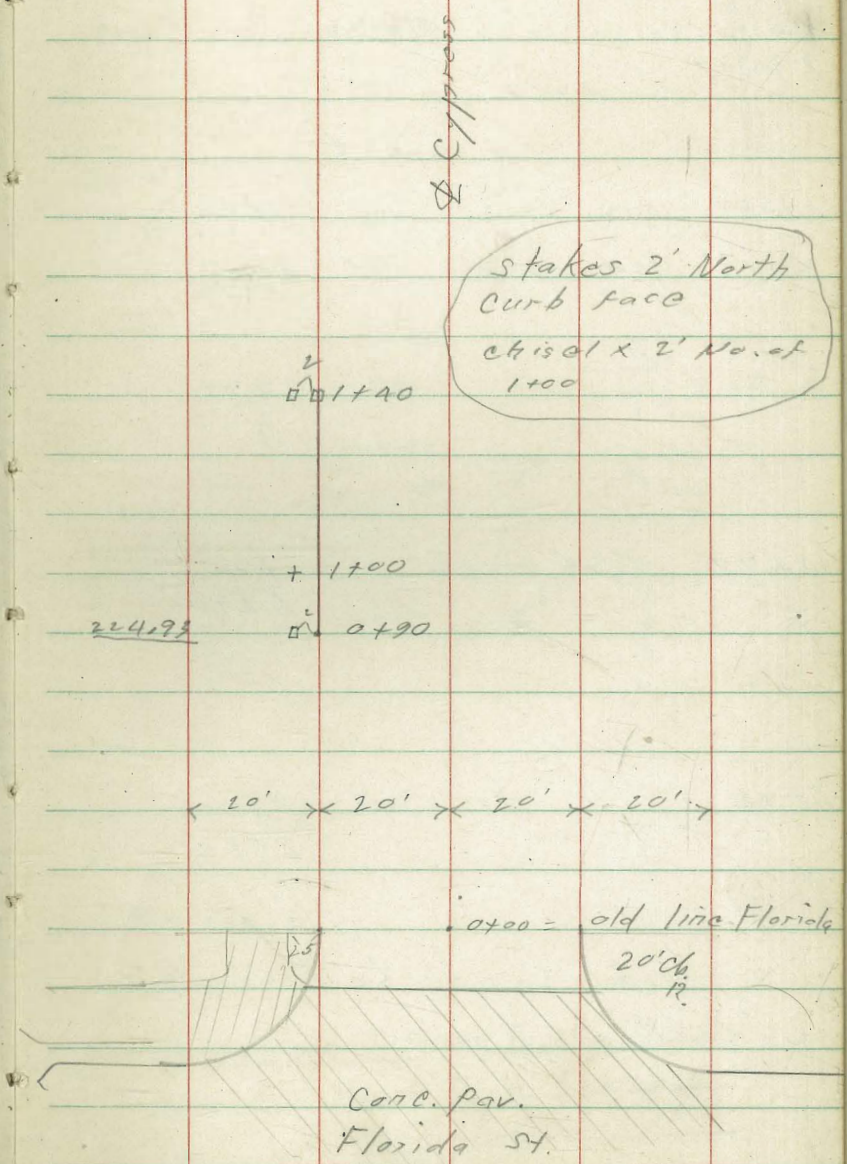
2018 Cypress 8-26-47

W.O. # 21018

Sommermeyer
W Moore
Sherman
Lamore

SWBP Florida & Cypress	160	237.60	—	236.00
	1.89	227.06	12.43	225.17

0+90	1+00	1+40
224.93	224.20	221.75
2.13 ✓	2.86	5.31 ✓
	2.46	
	C0.40 on drive	



Moore
Begg
Greer
Roberts
9-30-47

Curb grades for 5' walk

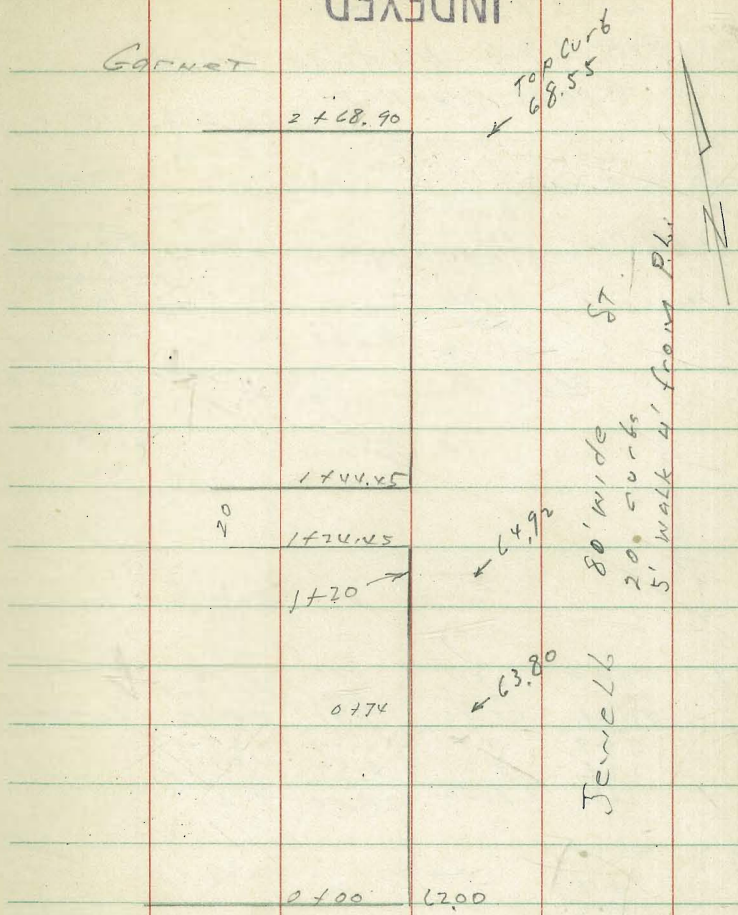
Lots 21-28 Blk 217 Pac. Beach

4x6x Jewell

W.O. 21018

NWBP	10.12	61.96		51.84	Jewell Grand
T.P.	9.49	70.49	0.96	61.00	
Sw. Top Cb	Garnet Jewell		1.94	68.55	
0+74	Curb grade			63.80	
				6.69 ✓	
1+20	"	"		64.92	
				5.57 ✓	

Stakes set 2' back Curb



LOT 21-28 BLK. 217 ADD. Pacific Beach
OWNER Pac. Beach Pres. Church
CONTR. L. C. Arderson Co.
PERMIT NO. 1471

Lots 1-2 + 11-12
Blk 194 Middle town
(3615 Noell St)

W.O. 21018

Check Exist Curb. Elsi NE.B.P. Noell + La Jolla

La Jolla	74.93	74.15
	392	0.78
	71.01 = 0.09 High	74.93
		12.57
Moore St.	50.92	62.36
	8.20	82
	42.72 = 0.09 High	63.18
		12.70
	Met these grades	50.48
		0.44
	14.3%	50.92

0+00	+50	1+00	1+50	1+97.9
74.63	74.63	63.10	63.10	
71.01	63.86	56.71	49.56	42.72
3.62	10.77	6.39	13.54	
3.61	8.77	2.39	7.54	
IN.	C 2.00	C 4.00	C 6.00	

74.15
0.48
74.63
12.27
62.36
0.74
63.10
12.62
50.48
4.73
55.21
12.49
42.72 = End Cl. Moore St.

AUG 9 1951

5

La Jolla

7' W + 10' N. Tack

curb in 10' Rad. Ret. Met

Profile G. 70.94

Sommermeyer
W Moore
E Sherman
10-3-47
W.O.#

0+00	71.02
0+50	63.86
1+00	56.71
1+50	49.56
1+97.9	42.72

Noell

IN.

Profile Grade 42.63

7' Tack.

10' Rad. Curb Ret. in Met

Moore

Curb Grades - 5th & Kalmia

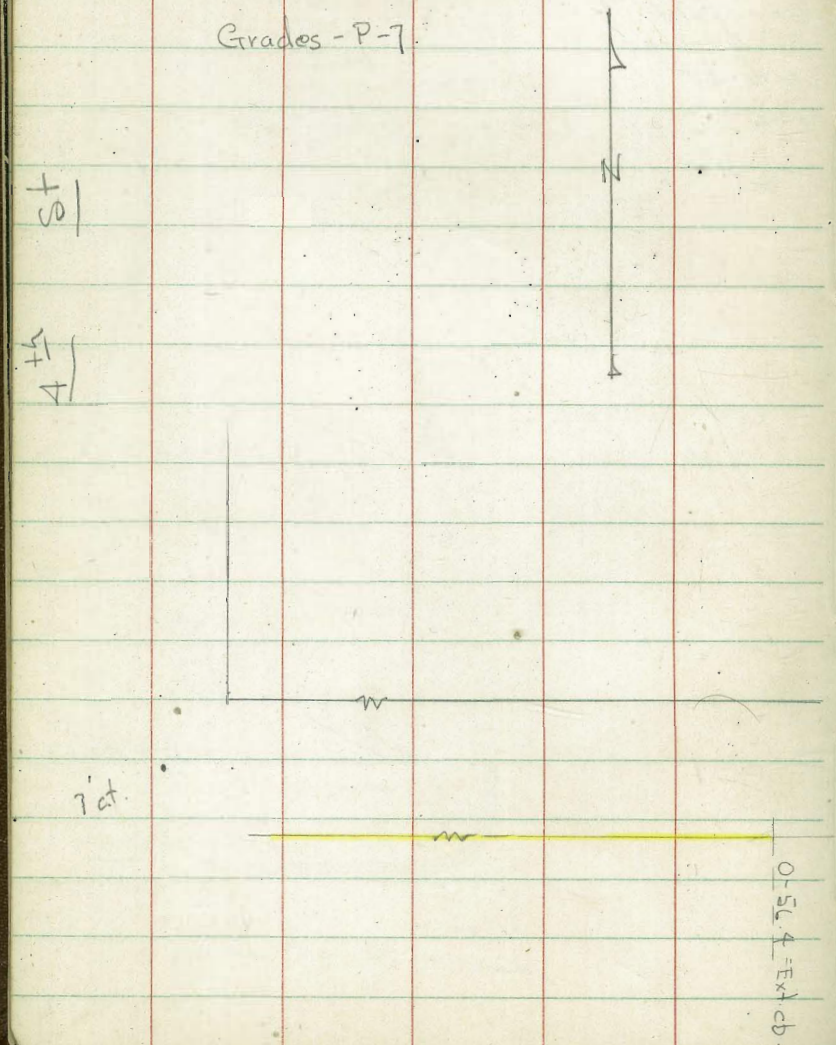
10-15-47

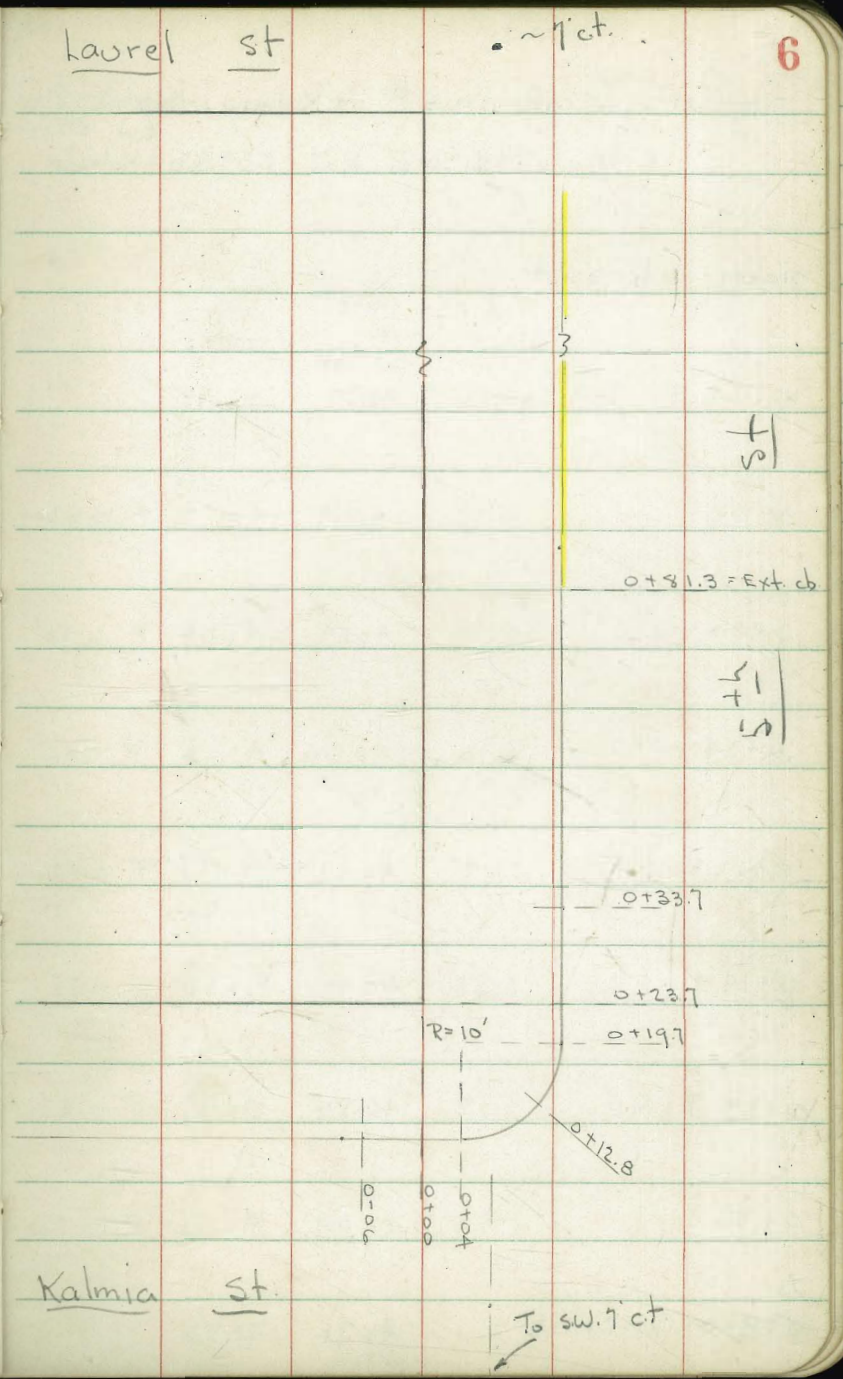
J. Osborne

W.O. 21018

Permit # 1511

Grades - P-7





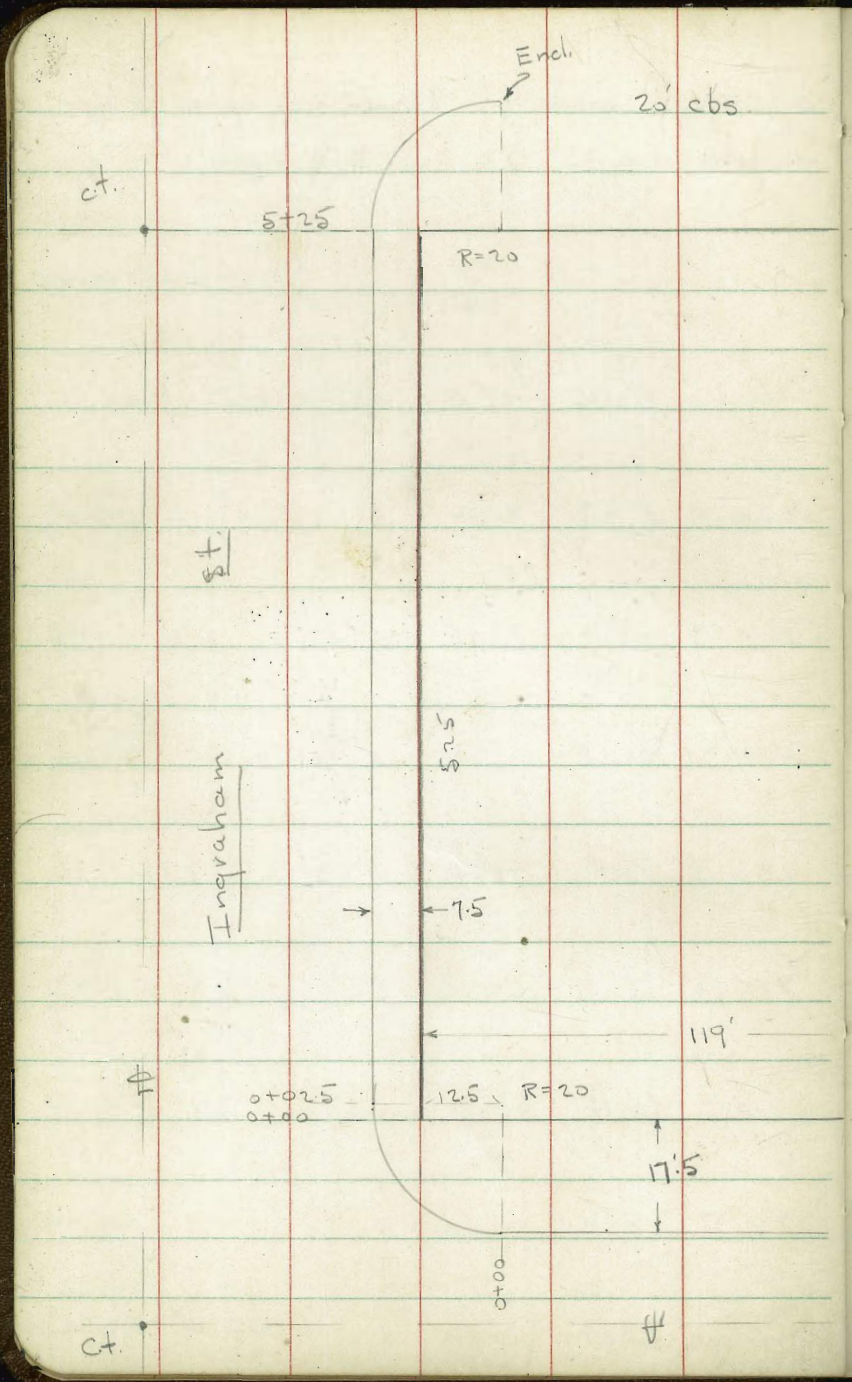
Curb Grades - 5th + Kalmia - Sketch - P. 6

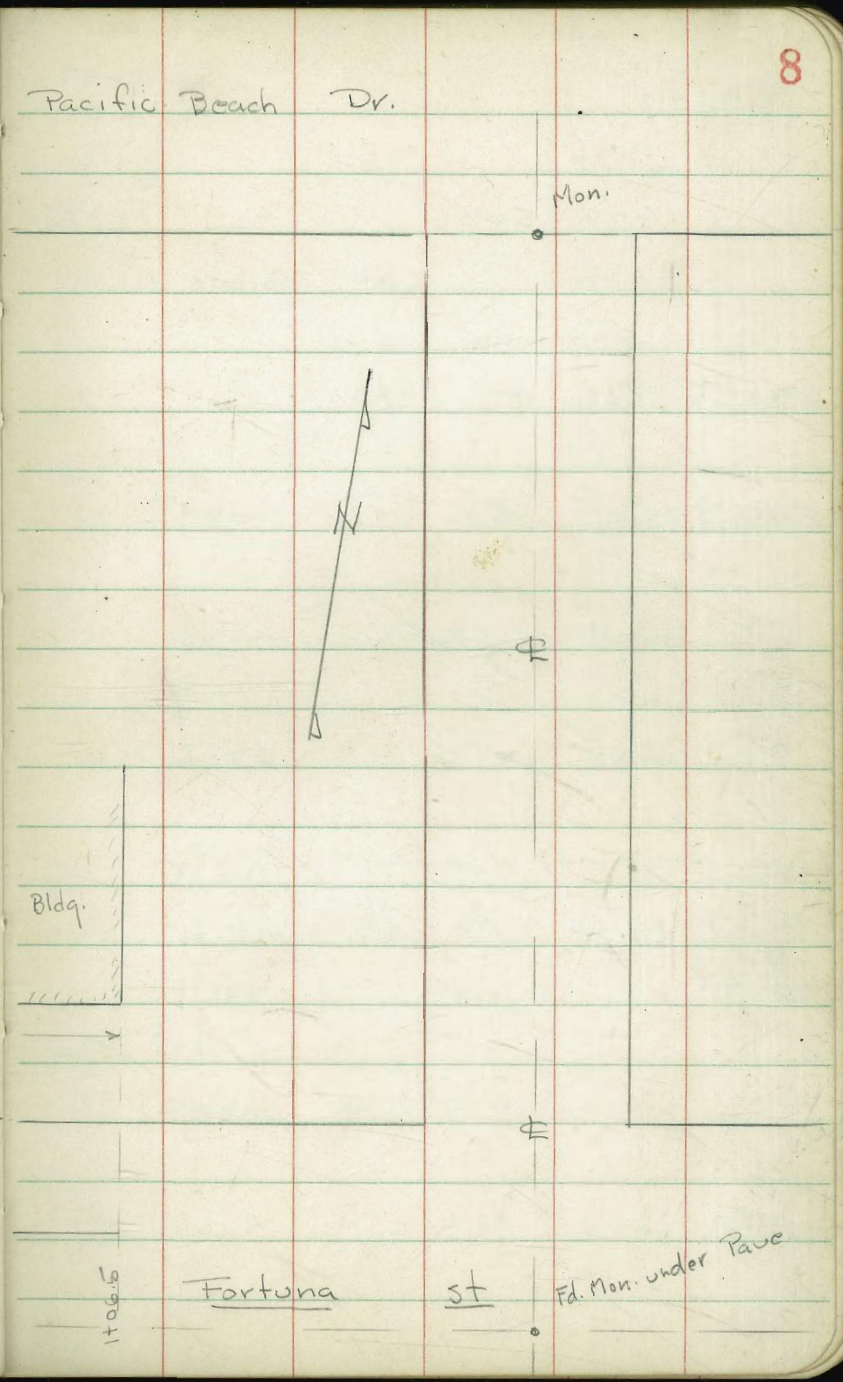
6.49 246.36 239.87 S.W. 5th & Kalmia

stakes = Nails - 3' out

		Rod	stake Ext. Top	Grade	
0-56.4	= Meet Ext. cb.		36.71	36.77	
0-06		6.17	40.19	40.72	F 0.53
0+00	W.L.	5.77	40.59	41.04	F 0.45
0+04	= P.C.	5.76	40.60	41.15	F 0.55
0+12.8	= ℄	5.87	40.49	41.27	F 0.78
0+19.7	= E.C.	5.58	40.78	41.33	F 0.55
0+23.7	= N.L.	5.52	40.84	41.37	F 0.53
0+33.7		5.37	40.99	41.55	F 0.56
0+81.3	= Meet Ext. cb.		42.71 Ext. Top.	42.53	

changed grade of Return to give proper curb face - OK By A. Brems


Encl.
20' cbs
c.t.
5+25
R=20
Ingraham
7.5
119'
0+02.5
0+00
12.5
R=20
17.5
0+00
c.t.


Pacific Beach Dr.
Mon.
Bldg.
1+00
Fortuna st
Fd. Mon. under Pave

Curb Grades - Ingraham + Fortuna

W.O. 21018

10-17-47

7.0

	4.24	50.35	46.11 Grade	℄ L+T. Ingraham + Pac. Beach
0+00 = N.L. Fortuna				
0+02.5 = P.C.				
0+50		5.26	45.09	
1 ~		5.16	45.19	
+50		5.07	45.28	
2 ~		4.97	45.38	
+50		4.88	45.47	
3 ~		4.78	45.57	
+50		4.69	45.66	

	Rod		Grade	
4 ~	4.59		45.76	
+50	4.50		45.85	
5 ~	4.40	390	45.95	= C 0.50
S.L. Pacific				
5+25 = P.C.	4.35	395	46.00	C 0.40
℄ Ret.	4.25		46.10	
E.C.	4.10		46.25	
	4.42	49.26	5.51	44.84 = ℄ t ℄ Ingraham + Fortuna
N.E. Ret.				
P.C. Ingraham	4.26		45.00	
1/4	4.30		44.96	

Ret. Cont.		49.26			
℄		4.37		44.89	
3/4		4.47		44.79	
P.C. = Fortuna = 0+00		4.64		44.62	
0+40		5.85	5.45	43.41	C 0.40
6+78.5 = Brk.		7.01		42.25	
1+06.5		7.49	7.35	41.77	
3 @ 2	+41.5			41.17	
	+76.5			40.57	

Grade Changed.

Curb Grades, Alicia Dr.
Wells to Cat. Blvd

W.O. 21018

Moore
Begg
Greer
Roberts
10-28-47

2+80					
2+60					
2+50	Beg. on North O.K.				
2+45	Beg. on South.				
T.P.	6.41	142.92	0.46	136.51 = 12-2-47.	
T.P.	7.68	144.91	0.11	137.23	
1+00	end on North				
0+50	Beg. on North				
B.M. Mon.	12.23	136.97		124.74	12-2-47.
0+00 = WL Wells					
N.W. Mon	12.60	137.34		124.74	
Alicia Wells	1743-11				

S			N	
3.38 ✓	139.54		138.94	3.98 1.98 C 2.0
	~~139.44~~ 5.47 2.07 C 3.4	curb ✓	138.83 6.08 4.15 C 1.93	4.09 3.09 C 1.0
they do not own this lot		✓	138.63 6.28 4.35 C 1.93	4.29 3.29 C 1.0
		cb & Walk not put in		
~~3.78~~	~~139.14~~ 5.77 1.47 C 4.3	✓	—	
		131.13	131.13 ✓ 6.21 3.57 C 2.64	5.84 ✓ 4.84 C 1.00
		Note! Stakes 3' Back cb 12-2-47.		
			128.31 ✓ 9.03 6.86 C 2.17	8.66 ✓
		128.31		

Alicia C6 grados

4+50					
.T.P.	0.44	131.26	12.10	130.82 ← 12-2-47	
T.P.	0.63	133.83	11.71	133.20	
4+00	E y C				
180					
160					
140					
120					
3+00		132.92	12-2-47		
		129.91			

5

1.68 ✓	129.58		128.98	2.28 ✓
	4.25		4.85	
	3.65		3.55	
	C 0.6		C 1.3	
8.87 ✓	134.05		133.45	9.47 ✓
	10.8 C		11.4 C	
	9.7 C		7.9 C	
	C 1.1		C 3.5	
7.23 ✓	135.69		135.09	7.83 ✓
	9.22		9.82	
	7.82		7.8	
	C 1.4		C 2.0	
5.87 ✓	137.05		136.45	6.47 ✓
4.81 ✓	138.11		137.51	5.41 ✓
	C.8		7.4	
	4.4		5.2	
	C 2.4		C 2.2	
4.03 ✓	138.89		138.28	4.64 ✓
3.5 C ✓	139.3 C		138.75	4.17 ✓
	5.55		6.16	
	1.65		3.10	
	C 3.9		C 3.06	

N 12

Alicia Dr.

6+80							108.81	10.67
6+60							110.29 12.14 9.60 C 2.50	9.19
6+45 end on South					7.32	112.16 10.27 7.77 C 2.5	—	
6+40 P.V.C. ✓					6.90	112.58 9.85 7.25 C 2.6	111.98 10.05 6.85 C 3.6	7.50
6+00					3.32	116.16 6.27 3.92 C 2.35	115.56 6.87 2.87 C 4.0	3.92
T.P.	0.76 ~~0.68~~	119.48 ~~119.40~~	12.54	118.72	12-2-47			
T.P.	0.77	122.43	12.17	121.66				
5+50					10.63	120.63 13.2 13.7 0.0	120.03 13.80 12.0 C 1.8	11.23
5+00					6.16	125.10 8.73 8.03 C 0.7	124.50 9.33 7.53 C 1.8	6.76
		131.26	= 12-2-47					
		133.83						

				N.Side	
	Alicia Dr.			↓	
7+00	check stakes 1-14-48			107.49 9.45 9.40 C 0.05	
6+80				108.81 8.13 8.07 C 0.06	
6+60				110.29 6.65 6.60 C 0.05 = cb	
end/S.side 6+45		112.16 4.78			
6+40 = PVC		112.58 4.36		111.98 4.96	4.94
	7.95	116.94		108.99	C 0.02
Check to BM F.Hyd			10.48	109.00	108.99
check to	Top F.H.	Cat. Blvd Alicia	3.27	109.00	108.99 0.01
7+00 end on North					
		119.48 = 12-2-47.			
T.P.	2.88	112.27 122.43	13.04	109.39	

S				N	
85 - 1 x 2 x 14					
—		✓		107.49 4.78 2.88 C 1.9	11.99 ✓

Curb grades S. side
Tennyson Betw. Wells & Cat. Blvd.

W/O 3.018

5+60					S 130.69			
					124.23	6.46 ✓		
5+40					125.16 ✓ (5.44, 2.44, C 3.0)	5.53 ✓		
5+20					125.85	4.84 ✓ (130.69)	106.92	BM
							1.57	
							118.49	
							1.14	
							117.35	TP
							10.90	
5+00	PVC.				126.30 ✓ (4.3, 2.7, C 2.1)	4.39 ✓	128.25	
							1.80	
							126.45	TP
							4.24	
							130.69	HI
4+80					126.50 ✓ (4.1, 2.0, C 2.1)	4.19 ✓		
4+50	Beg. on S.				126.60 ✓ (4.0, 1.8, C 2.2)	130.69	HI	
	00 = W.L Wells					126.60		
						4.09 ✓		

T.P.	11.39	130.61	0.06	119.22
SW Mon.	12.30	118.28		106.92 ✓
Tennyson & Wells				

7+50					11920			
					106.90 ✓	12.30 ✓		
					12.4			
					10.5			
					C 1.9			
							130 69	
							12 63	
7+00					11920			
					117.98 ✓	7.22 ✓	118 06 TP	
					7.3		1 14	
					C 2.2 ✓		119.20 HI	
							12.29	
							106.91 TP	
							091	
6+70					11920			
					115.02 ✓	4.18 ✓	107.82 HI	
	0.67	119.30			4.3			
T.P.			11.98	118.63	C 2.3			
					130 69			
6+40	E.C.				118.06 ✓	12.63		
					12.5 ✓			
					9.9 ✓			
					C 2.6			
					130 69			
6+20					119.97 ✓	10.72 ✓		
					10.63			
					7.63			
					C 3.0			
6					121.63	9.06 ✓		
5+80				130 69				
				130 61 8	123.05 ✓	130 69		
		13061			7.55	7.64 ✓		
					4.05			
					C 3.5			

	+	HI	−	EI	
		c3-m1-14-48			
		check curb grade			
8+00			0.88	101.84	
	13.19	102.72		89.53	
			8.12	89.59	89.53
T.P.	1.33	97.71	11.88	96.38	
8+05.25 = End cb on S.					
8+00					
	0.97	108.26			
		119.30	12.01	107.29	

40 − 1 × 2 × 14

20 2 × 2 × 14

107.82 HI
10.76
97.06
1.20
98.26
8.44
89.82

82
89.53
29

107.82
10.76
97.06
1.68
98.74
9.21
89.53

SE BP
Tennyson
Catalina

curb end 1743
22
Tennyson
Catalina

cb end

107.82

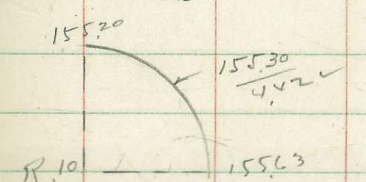
101.30 ✓ 6.52 ✓
6.96 4.91
5.32 1.61
c 1.64

107.82

101.84 5.98 ✓

Curb grades
Atascadero Dr
Wells to Cat. Blvd.
WO 21018

						S		N	
0+50	= end on S & Beg. on N.					3.00 ✓	156.72 3.67 1.33 C 2.3	156.13 4.26 4.92 F 0.66	2.63 ✓
+40	4.22	159.72		155.50	11-14-47 PM	3.18 ✓	156.54 3.85 1.65 C 2.2	—	
+20						3.79 ✓	155.93 4.46 2.56 C 1.9	—	
0+00	W L Wells = Beg. on S.					4.52 ✓	155.20 5.19 4.89 C 0.3	—	
11-14-47	3.26	158.76		155.50					
SWLy Con. Mon. atascadero + Wells	4.89	160.39		155.50					



SW. Cor atascadero + Wells

1+60				4.47	15525 5.14 3.44 C 1.7	—	
1+50	= end on N.			~~4.07~~ Not set	~~15565~~ 4.74 3.0 C 1.7	15505 5.34 2.34 C 3.0	3.71
1+40				3.67	15605 4.34 2.44 C 1.9	15545 4.94 2.44 C 2.5	3.31
1+20				3.09	15663 3.76 1.94 C 1.8	15603 4.36 2.26 C 2.1	2.73
1+00	Beg. on S.			2.76	15696 3.43 1.1 C 2.33	15636 4.03 2.13 C 0.9	2.10
0+80				—	—	15647 3.92 4.38 F .46	2.29
0+60		15977 PM 15876		—	—	15631 4.08 4.32 F .24	2.45
		16039					

							S			N		
3+50						7.37	140.70			140.10	6.43	
							7.8			8.4		
							6.4			6.8		
							C 1.4			C 1.6		
3 T.P.	0.87	148.07	12.52	147.20	P.M.	1.7	144.81	3.26		144.21	2.32	
T.P.	0.76	146.53	12.99	145.77	11-14-47	0.7	3.69			4.29		
T.P.	1.1 C	148.50	.1305	147.34	A.M.	C 1.0	3.29			2.89		
							C 0.4			C 1.4		
2+50	Beg. on N.					10.80	148.92			148.32	10.46	
							11.47			12.07		
							10.57			8.77		
							C 0.9			C 3.3		
2+20	E.V.C.					8.34	151.38			—		
							9.01					
							8.01					
							C 1.0					
2+00						6.82	152.90			—		
							7.49					
							7.09					
							C 0.4					
		154.72 = P.M.										
1+86		158.76	11-14-47.			5.54	154.18			—		
							C 2.1					
		160.39					4.9					
							C 1.3					

Catalina & Atasco dem.

Check to SEB-10			8.55	116.86	116.84
T.P.	1.24'	125.41	12.55	124.17	

5+50 end on North

5+00 = End on South

T.P. PM 4+50	0.75	135.84	12.98	135.09	
T.P.	0.41	133.86	13.08	133.45	11-14-47
	1.07	136.73			
T.P.			12.80	135.70	

T.P. PM 4+00

14807 PM.
14653 11-14-47

14850

85 - 2 x 2 x 14

—				123.67	10.19
				13.05	
				10.85	
				C 2.2	
7.46	12838		8.0	127.78	6.08
	8.34			8.94	
	8.04			7.84	
	F 0.3			C 1.1	
3.36	13248			131.88	1.98
	4.24			4.84	
	0.0			3.94	
				C 0.9	
11.48	13659			135.99	10.54
	11.91			12.51	
	19.2			11.5	
	C 2.7			C 1.0	

Walker
Hendricks
Becker
Johnson
12-30-47

CURB GRADES

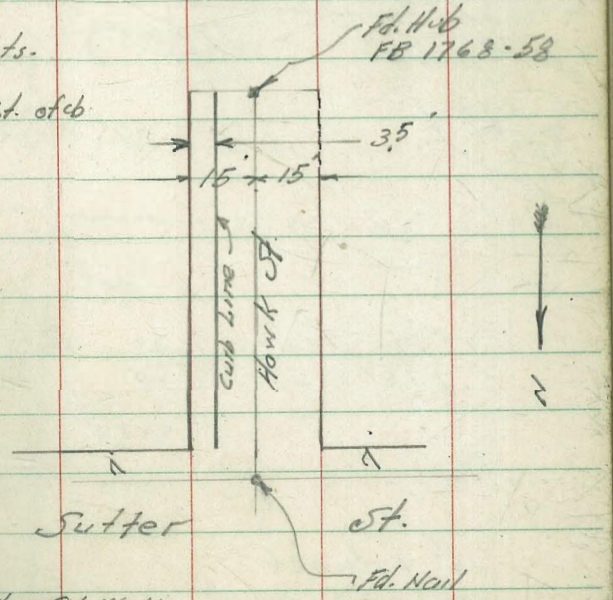
HAWK ST.

Indexed
SB

1+49.85		6.14	253.30	253.30
1+20		5.84	253.60	253.60
0+95		5.59	253.85	253.85
0+70		5.34	254.10	254.10
0+45		5.09	254.35	254.35
0+20 = Brk		4.84	254.60	254.60
0+00 = S. Line	Sutter	A84 St	254.60	254.60
	4.89	259.44		254.55

Cuts offsets.

2' Lt. of cb
"
"
"
"
"
"



B.M. on South edge Side Walk
East Line Hawk
FB 1768
59

Plotted. TPS 6/11 McQ

Curb Stakes

Moore Bogg Green Roberts 1-15-48

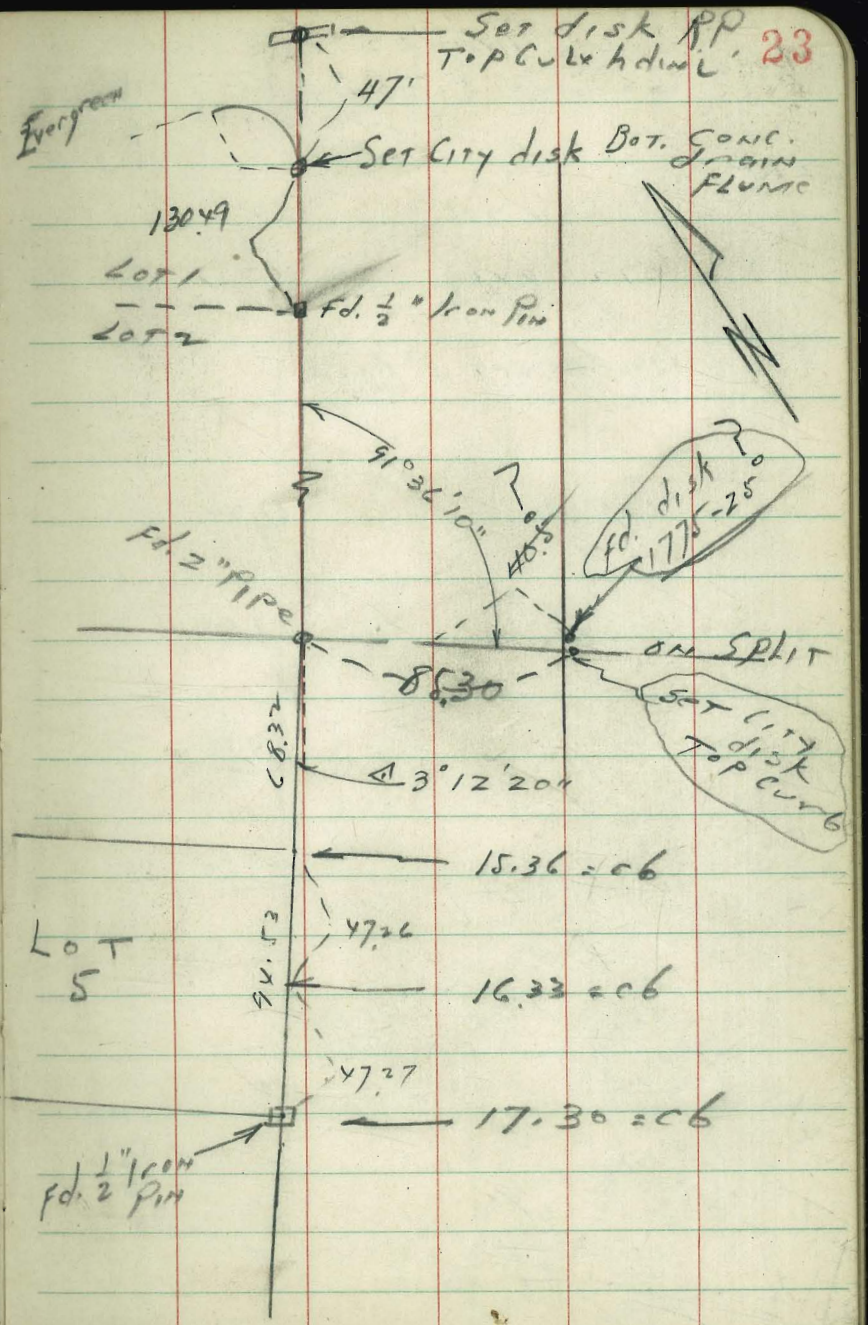
Lot 5 Blk 28 Montemar Ridge

W.O. 21018

Sw. A. Bolt on Curb	2.78	44.41	41.63	Rose crown Lytton 1775-17
T.P.	1.36	33.94	11.83	32.58
T.P.	1.58	22.72	12.80	21.14
		8.79	14.53	14.33
		1775-26		0.20 / 0.17

15.36 / 7.36 — 16.33 / 6.39 — 17.30 / 5.42

10' sdwalk
Stakes 3' Back curb line and set to grade



Curbgrades N.E. Cor.
Garnet & Jewell
W.O. 21018

Moore
Bagg
Green
Roberts
1-19-47.

SEBP Garnet Ingraham	7,16	6976		62.60
T.P.	6.72	7V.09	2.39	67.37

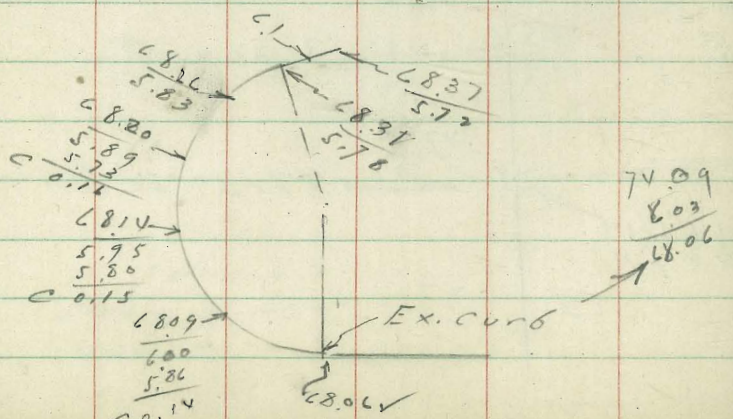
States set 3' back

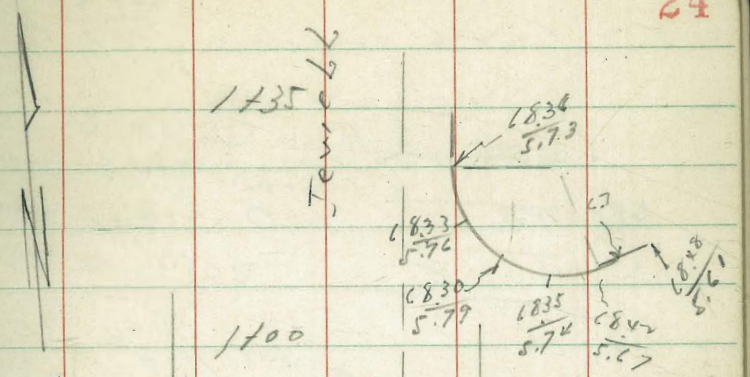
0+32.5 = E.C. #2 — 68.36 / 5.73

0+50 — 68.55

1+00 — 69.10

1+35 = ℄ old alley now closed — 69.50

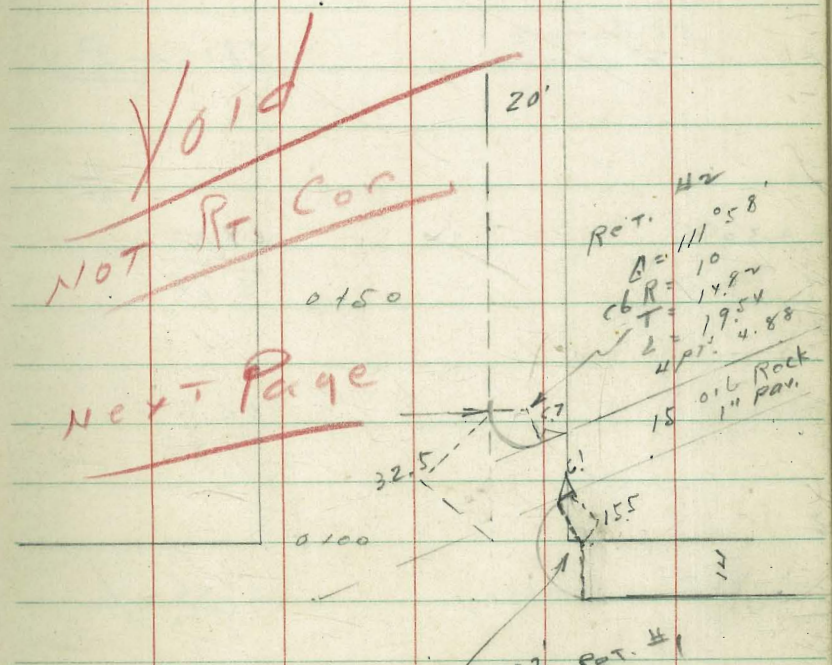




Void

Not Rt. Cor

Next Page



Curb grades Lot 20 / 217 P.P.
SW Cor of
Garnet & Jewell
MOORE WO 21018
1-19-48.

7409 ← H.I. P24 | 7409 / 5.54 / 68.55 ✓

0+00 SL Garnet Ex. cb. end | 68.55 ← P. 4

0+50 | 67.33 / 6.76

1+00 | 66.11 / 7.98

1+24.48 = NL alley | 65.56 / 8.53 ✓

Blk. 15 1.04 Short
stakes 2' back

LOT 20 BLK. 217 ADD. Pacific Beach
OWNER L. C. Anderson Co.
CONTR.
PERMIT NO. 1705

Lot 181

Stake 99.3 curb on Littlefield

Moore
Begg
Roberts
1-30-48

W.O. 21018

T.P.	F.B.			
1821-32	0.51	37.82		37.31 ✓
T.P.	37.6	33.45	8.10	= 29.72

25.50 = 27.39 29.28 32.75

7.90

25.58

0.57

32.96

0.21 H ✓

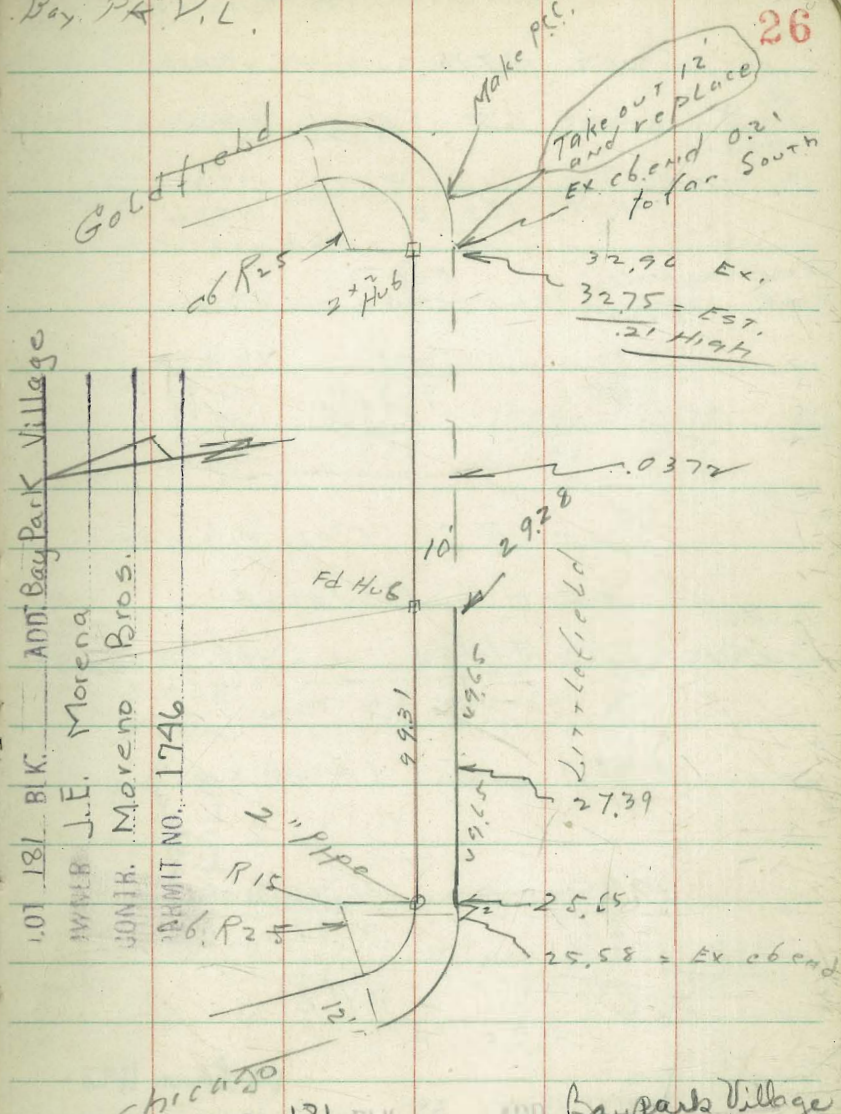
Top Ex c6
2' W of EC.

25.65 = 27.50 29.34

7.83 ✓ 5.98 ✓ V.I. ✓

Bay. Pk. V.L.

26



W.O. 21018

Curb Stakes on N.S. Atascadero Dr.

Moore
Begg
Green
Roberts
2-3-48

Lot 65 Catalina Villas

SW Mon Wells Atascadero

4.75 160.25 155.50

0+00 = WL Wells

EVC

2+00 2+20 2+50

152.30 150.78 148.32

7.95 9.47 11.93

Lot 86 Cat. Villas

0+00 WL Wells

BM SW Mon. 7.62 114.54 106.92 Tennyson Wells P.15

0+50 1+00

109.03 111.76

5.51 2.78

4.51 1.90

C1.0 C0.88

INDEXED
OCT 11 1951

Pt. Loma Hts.

LOT 65,84-86 BLK. 37 ADD. Catalina Villas

OWNER

CONTR.

PERMIT NO.

2-3-48
CSM

W.O. 21018

27

Lot 84 Cat. Villas

BM T.P. 12.00 136.74 124.74 P.11

8.92 144.22 1.44 135.30

WL Wells = 0+00

5' IN

2+55 2+60 2+80 3+00 3+05

138.73 138.83 138.94 138.75 138.63

5.49 5.39 5.28 5.47

5.53

0.06 Low cb. end

Permit said Blk 38 error should be

Lot 13 Pt. Loma Hts

37 was set. P.11

0+50 1+00

136.74

~~128.92~~ ~~131.74~~

128.31 131.13 See P.11

8.43 5.61

5.11

C0.50

LOT 13 BLK 37 ADD. Point Loma Heights

OWNER

CONTR.

PERMIT NO.

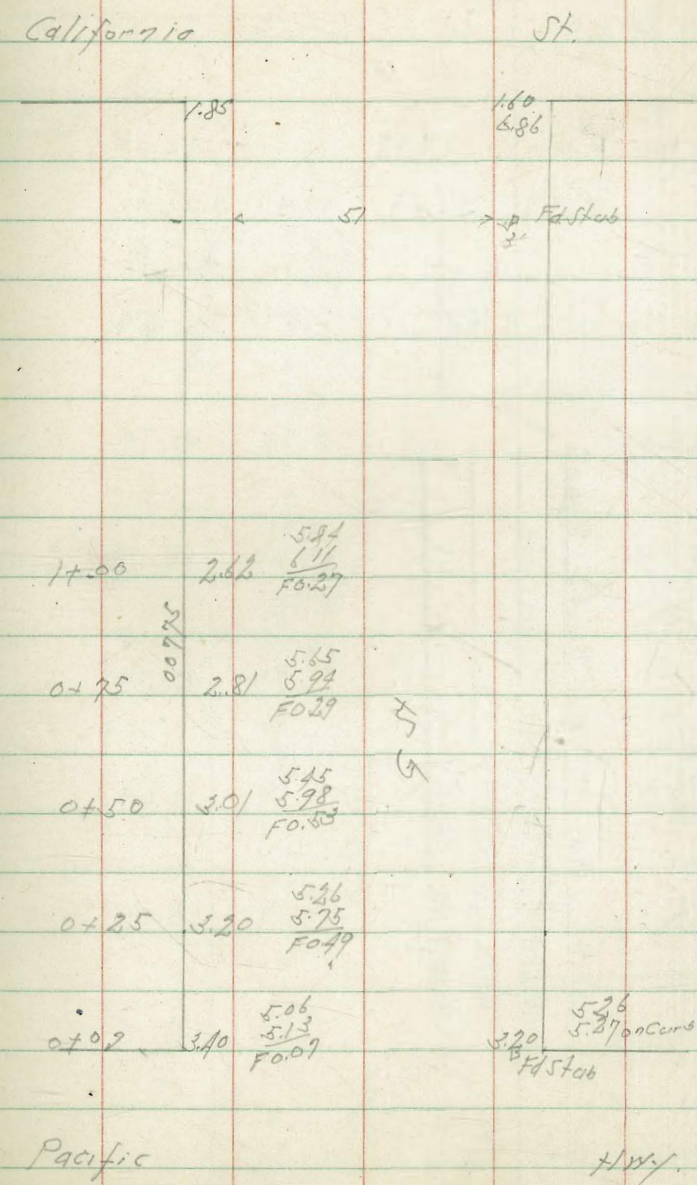
Curb Grades Lot F Block 35 New San Diego
North side G St. 100' East of Pacific Hwy

BM	5.50	8.46		2.96	SNBP G St + Kettner

Feb 5-48
Sisson
Allen
Smith
Johnson
W.O. 21018

5' Stakes offset 3' Back of Face of Curb

LOT Por. F BLK. 35 ADD. N.S.D
OWNER Santa Fe Railway
CONTR. Triple Construction Co.
PERMIT NO. 1770



W.O. 21018

2-16-48

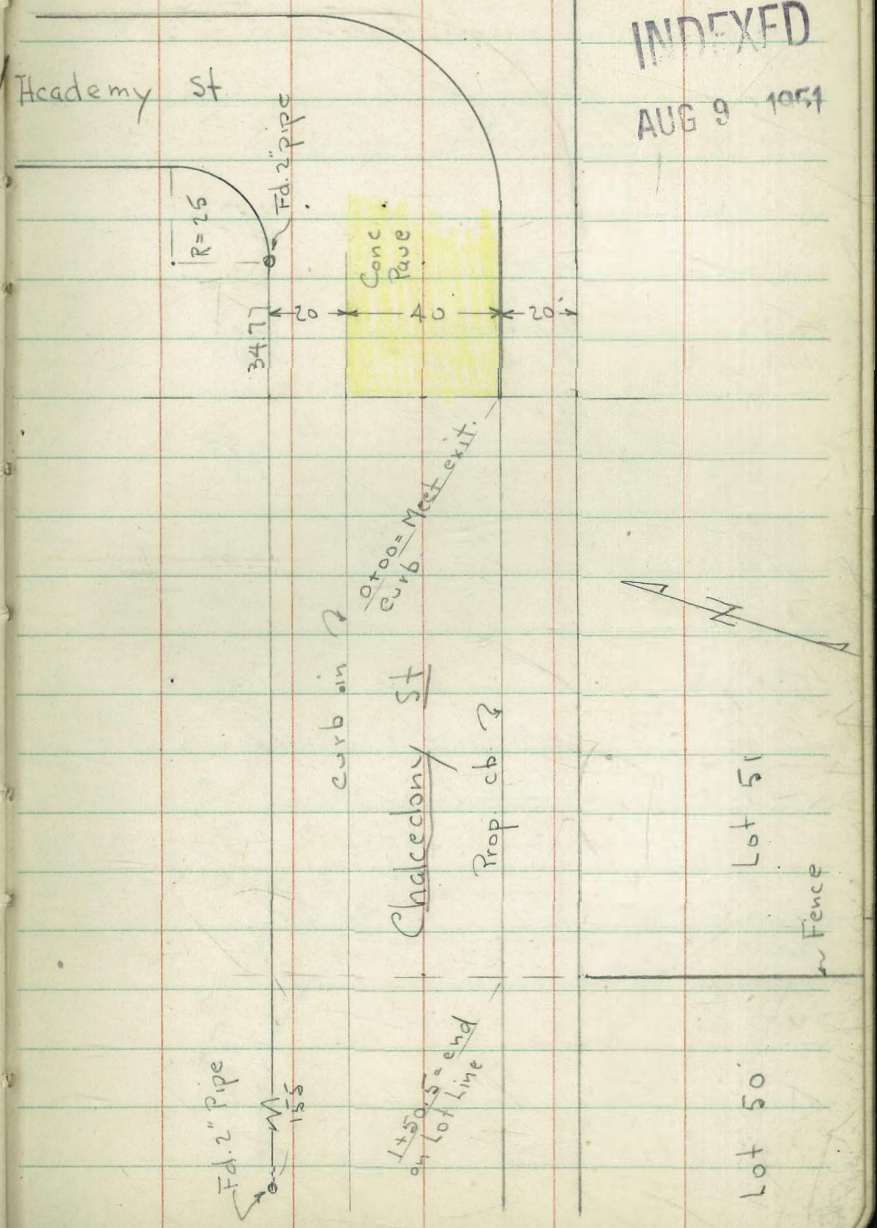
J.O. 29

INDEXED
AUG 9 1951

Stake - 150.5' of Curb on Chalcedony for Lot 51 - W. of Academy St.

	2.56	128.59		126.03	S.E. 7' ct. Chalcedony + Lamont
	2.29	118.41	12.47	116.12	
			Rods 6.88	Grade	
0+00 = Meet Exit. cb.			11.53	111.54	
0+24.55			5.62 12.79	11.79	C 1.00
+49.11			5.37 13.04	12.04	C 1.00
+69.11			6.12 12.29	12.29	
+89.11			5.77 12.64	12.64	
1+09.11			5.32 13.09	13.09	
+29.11			4.78 13.63	13.63	
1+50.5 = end.			4.08 14.33	14.33	

LOT 51 BLK. 1 ADD. Pacific Beach
OWNER Milton P. Sessions
CONTR. Griffith Co.
PERMIT NO. 17886



curb grades Sly side

of Garrison, Rosecrans to Scott

B.M.
SW BP.
Rosecrans
Garrison

W.O. 21018 — 1776-37

371 — 6.46 — 2.75

This is the curb

0+00 — ~~2.32~~ 4.14 — 2.20 4.26

Moore
Begg
Greer
Roberts
4-1-48

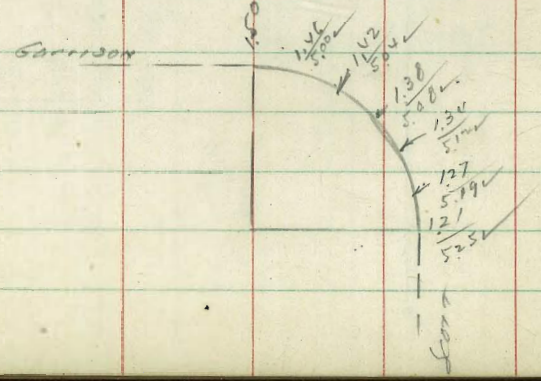
0+50 — 2.06 4.40

1+00 — 1.92 4.54

1+50 — 1.78 4.68

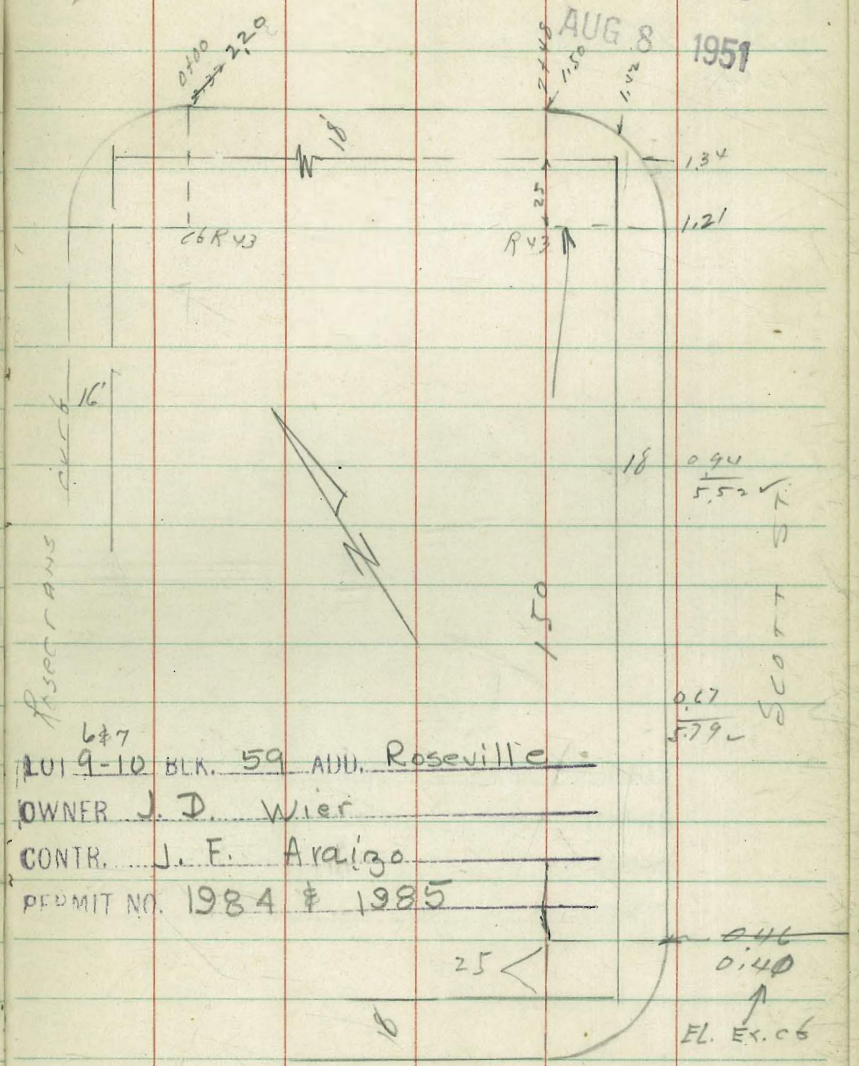
2+00 — 1.64 4.82

2+48 P.C. Curb — 1.50 4.96



Garrison

INDEXED 30
AUG 8 1951



6&7
LOT 9-10 BLK. 59 ADD. Roseville
OWNER J. D. Wier
CONTR. J. F. Araizo
PERMIT NO. 1984 & 1985

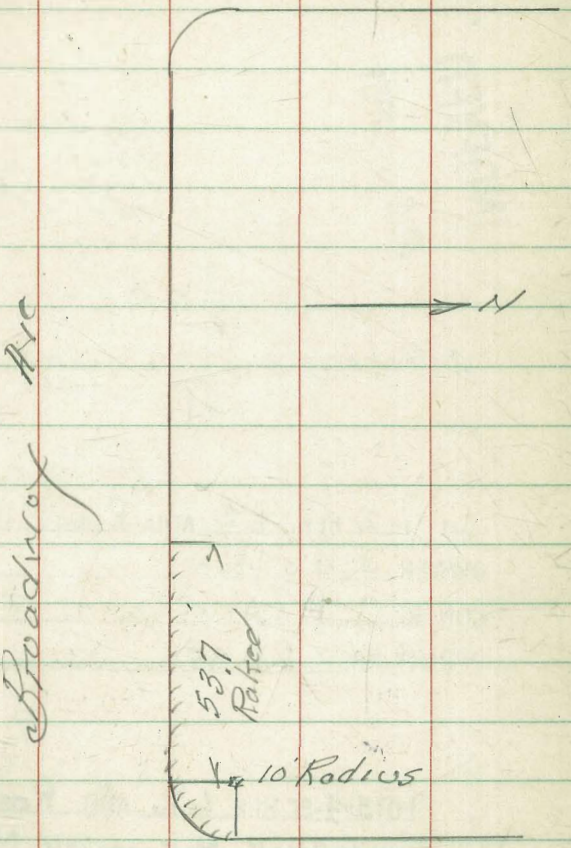
Fenelon

Walker Side Walk Grades
Hendricks on Broadway Between
Becker 7th & 6th
Williams
4-19-48

LOT G & H BLK. 34 ADD. Horton's
OWNER Thearle Music Co.
CONTR. M. H. Golden Constr.
PERMIT NO. 2028

RECEIVED
AUG 8 1951

6th Ave



Curb Grades Alg Garrison St.
Between Roseerans & Sco H Sts.

BM	4.65	7.40		2.75	SMBP Roseerans & Garrison

INDEXED AUG 8 1951

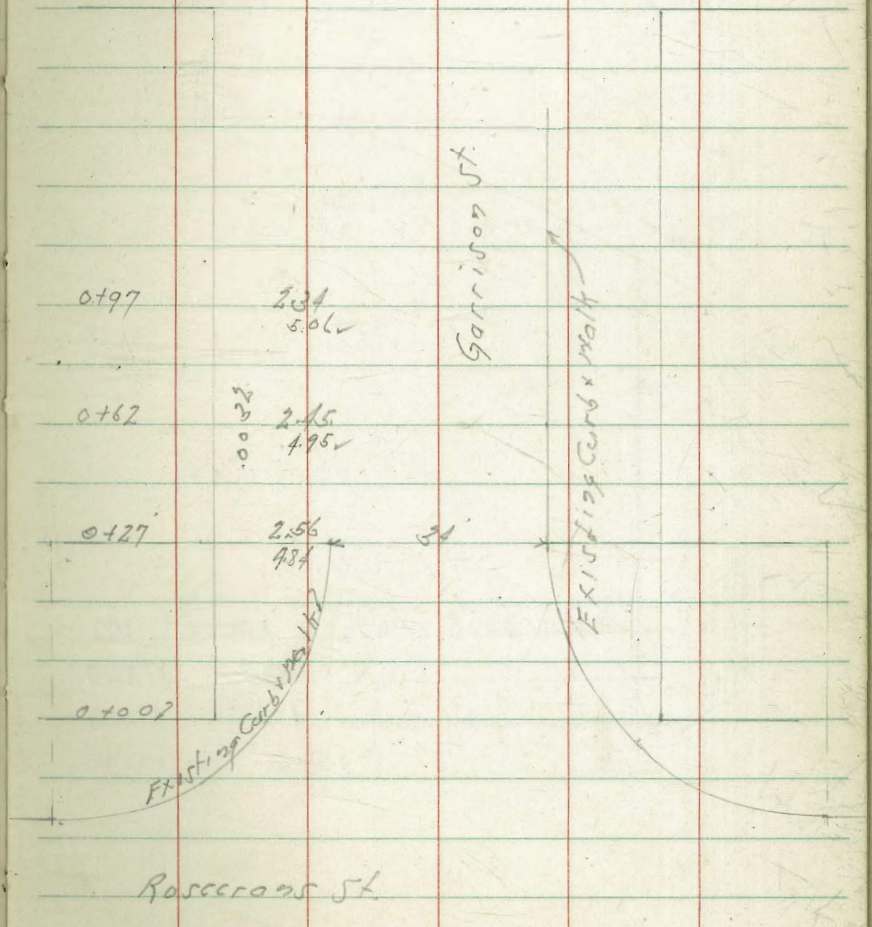
May 5-48
Sisson
Smith
Allen
Sobinson

W.O. 21018.

2 Stakes 1' Back of Face of Curb

LOT 5½ 1-2 BLK. 62 ADD. Roseville
OWNER J. Walton
CONTR. J. F. Araiza
PERMIT NO. 2035

LOT 3-4-5 BLK. 62 ADD. Roseville
OWNER Clark, McCormick, Machado
CONTR. J. F. Araiza.
PERMIT NO. 940



B.M.	11.46	14.80		3.34	S.W. 1" Disk Ingelow & Rosecrans
		= exist. cb.		4.80	
S.L. Ingelow				10.00	10.00
14'				4.65	
				10.15	10.15
12.68'					
P.C. 43' Rad.		25' S. of S.L. = 0+00		4.50	
				10.30	10.30
+25				4.40	
				10.40	10.40
+50				4.30	
				10.50	10.50
0+75 = Lot line				4.20	
				10.60	10.60

INDEXED

Curb. Stakes on Lot 12 - Block 74 - Roseville

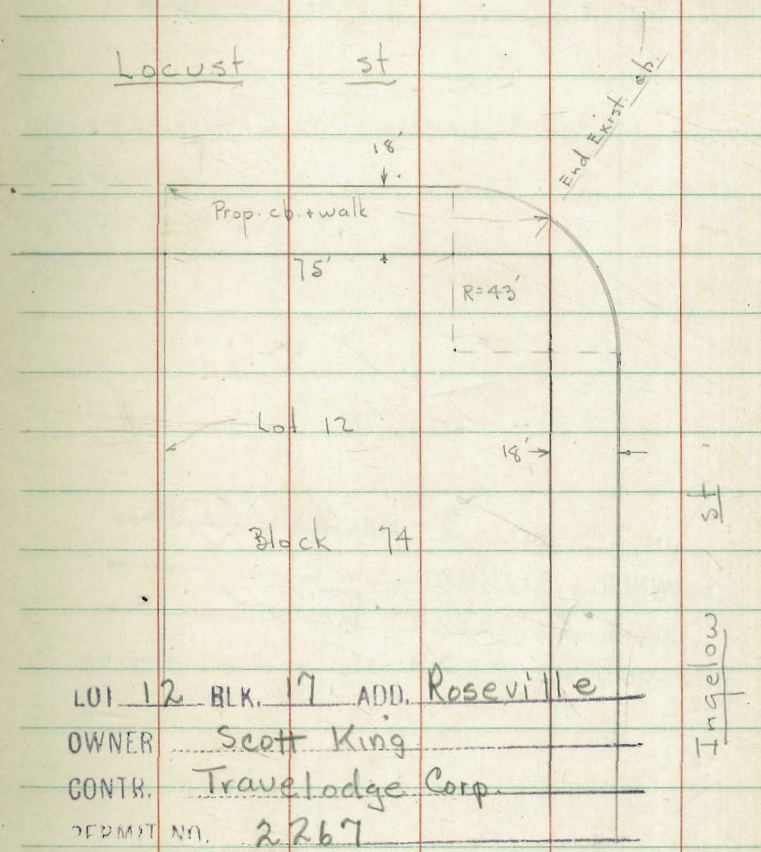
7-14-48

7.0.

#2503

W.O. 21018

Locust st



LOT 12 BLK. 17 ADD. Roseville

OWNER Scott King

CONTR. Travelodge Corp.

PERMIT NO. 2267

Stake 57$ cl. N. side Tourmaline

Stakes 3' Back of Ch. face

7-15-48

W.O.# 21018

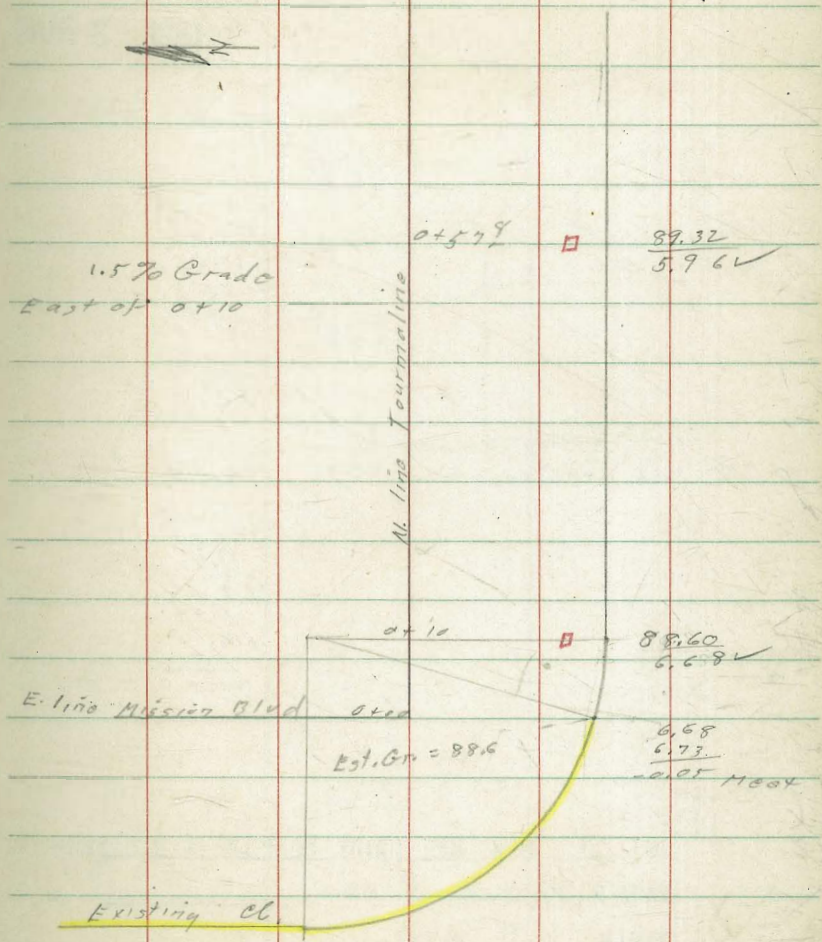
Sommermeyer
McCoy
Melton

N.W.B.P. Sapphire + Mission Blvd. 98.54
1.54
100.08
8.52
91.56
3.72
95.28

0+00
6.68

LOT 2-4 BLK. 3 ADD. Ocean Villa
OWNER Alvidson
CONTR. Callahan Bros.
PERMIT NO. 2229

East of Mission Blvd.



Lot. 1 Blk 35 Pt. Loma Hgts

4-23-48
W.O. 21018

Sommermeyer
McCoy π
W. Moore
Melton.

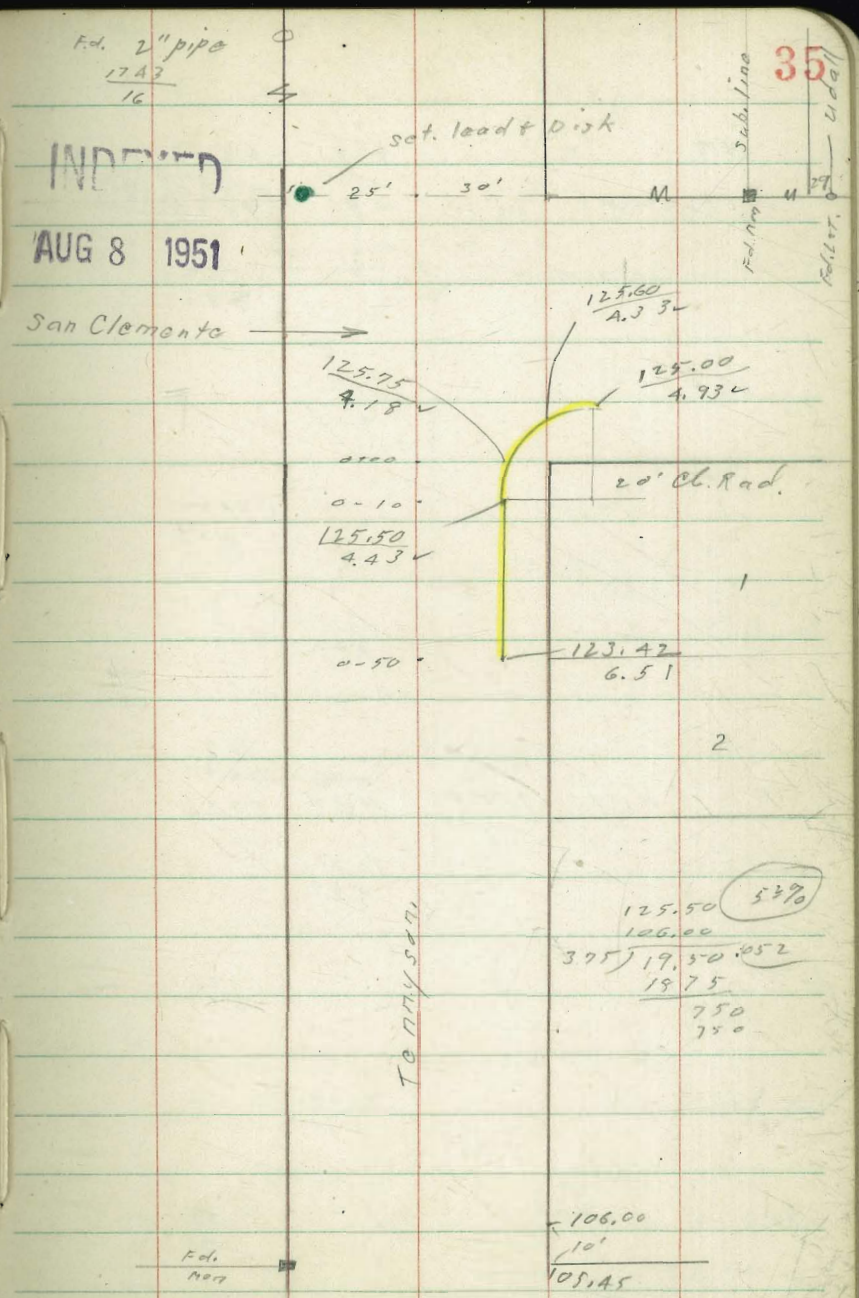
S.W. Mon. Wells & Tennyson 106.92
11.66
118.58
0.42
118.16
11.77
129.93 π

S. 5' inc Tennyson
Set. B.M. W.L. San Clemente 3.29 126.64

129.93
11.77
118.16
0.66
118.82
11.90
106.92 ✓ orig B.M.

LOT 1 BLK. 35 ADD. Point Loma Heights
OWNER Howard Close
CONTR. J. F. Araiza
PERMIT NO. 2259

INDEXED
AUG 8 1951



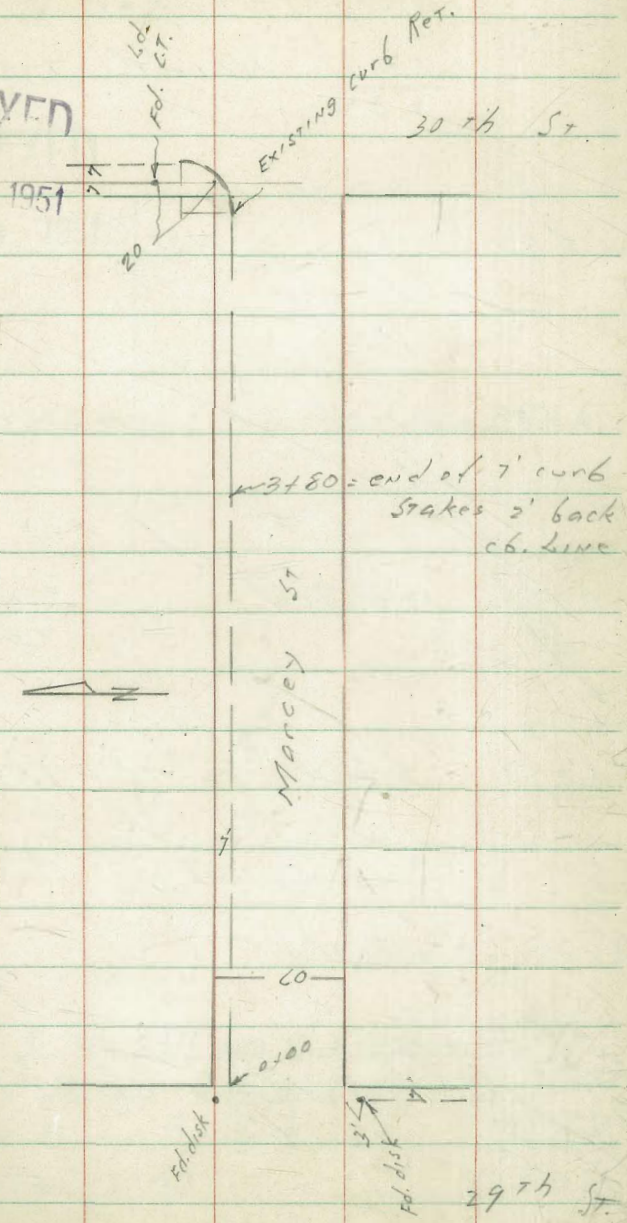
Stake 380' of 7' curb on N. side Marcey 29th toward 30th

Moore Begg Bunch 7-27-48

BM			6.75	68.46	68.45 01
TP	4.61	75.21	4.95	70.60	
3+80	Per order			71.62 3.93	
+50			71.50 4.05		
3				71.32 4.23	
+50			71.13 4.42		
2				70.94 4.61	
TP	4.79	75.55	4.34	70.76	
+50			70.76 4.34		
1				70.57 4.53	
0+50			70.39 4.71		
0+00	E.L. 29th			70.20 4.90	
NW BP Logan 29th	6.65	(75.10)		68.45	

KO 21018

INDEXED
AUG 8 1951



Curb stakes

Lot 1 Middletown
234

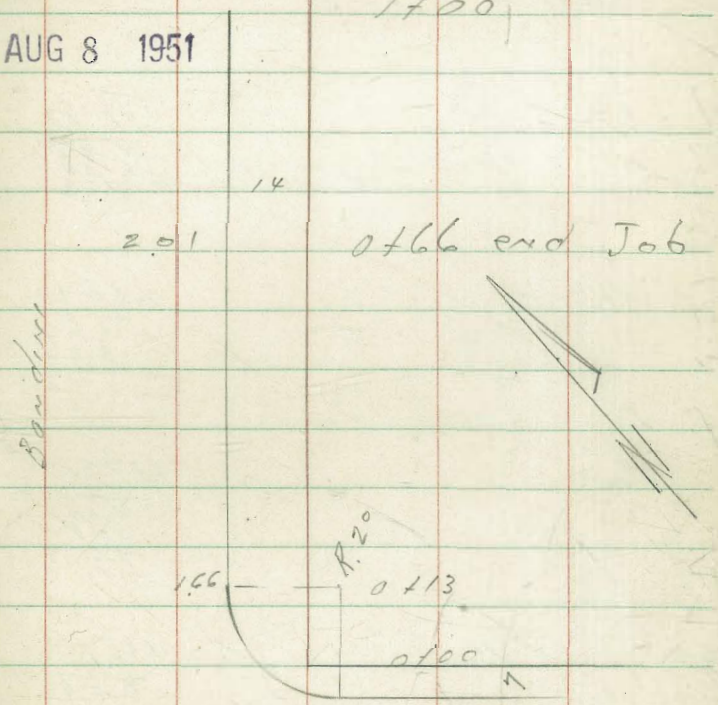
1+00		Not Set	2.04
0+80	Break	Not set	2.10
0+66	end Job		2.01 ✓
			4.84 ✓
0+13	c6 end		1.66
			5.19 ✓
			5.19
			0.0
0+00	Ely Pacific		

B.M.
SW 7" C.T. 5.37 6.85 1.53
Bonding
Kurtz
1675-X9

W.O. 21018

Moore
Bc99
Bunch
8-2-X8

INDEXED
AUG 8 1951



LOT 1 BLK. 234 ADD. Middletown
OWNER Wright Refrigeration
CONTR. A. S. Anderson
PERMIT NO. 3173

INDEXED
AUG 8 1951

Curb stakes

Lot 10 Blk 37 Pt Loma Hts.

W.O. 21018

Moore
Beggs
Burch 8-2-48

+60			138.83
	on Curb		3.22
			3.28
			0.06 Low
+40			138.43
			3.62
			3.22
			C 0.40
+20			137.71
			4.31
			3.31
			C 1.00
2+00	P.V.C.		136.76
			5.29
			4.29
			C 1.00

0+00 = W.L. Wells

T.P.	5.99	(142.05)	1.32	136.06
	12.64	137.38		+0.09
B.M. Mon.	~~12.67~~	~~137.41~~		136.74

N.W. Wells + Alicia.

INDEXED
AUG 8 1951

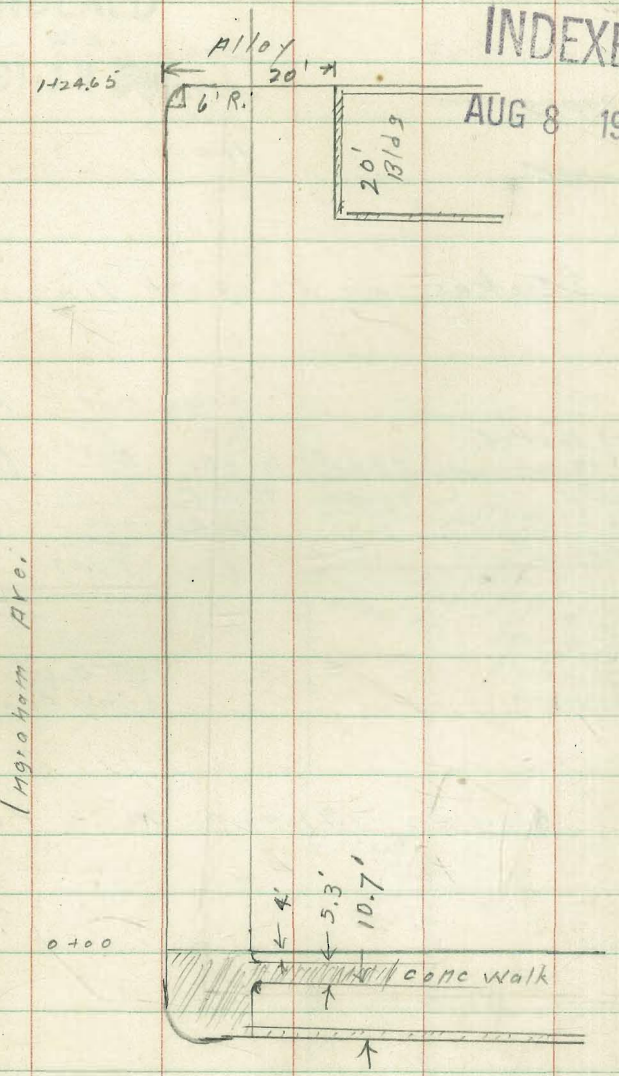
Hardin
Oakley
Decker
Duncan
8-13-48

Curb Grades

Grand To Alley E. side Ingraham
W.O. 21018

B.M. N.E. B.P. Grand & Ingraham

	5.33	61.18	55.85	
	Stakes 3' Back Curb face			
1+24.65	4.00	57.18	58.06	F 0.88
1+18.65	PC 4.00	57.18	57.90	F 0.72
0+93	4.24	56.94	57.47	F 0.53
0+64	4.52	56.66	56.93	F 0.27
0+31	5.17	56.01	56.39	F 0.38
0+00	N. Line of	Grand	Ave.	Meet 55.85



INDEXED
W.K.
OCT 19 1948

Curb Stakes 3020 Univ Ave.

10-1A-48

W.O. 21018

Sommermeyer
McCoy
Allen
Jones

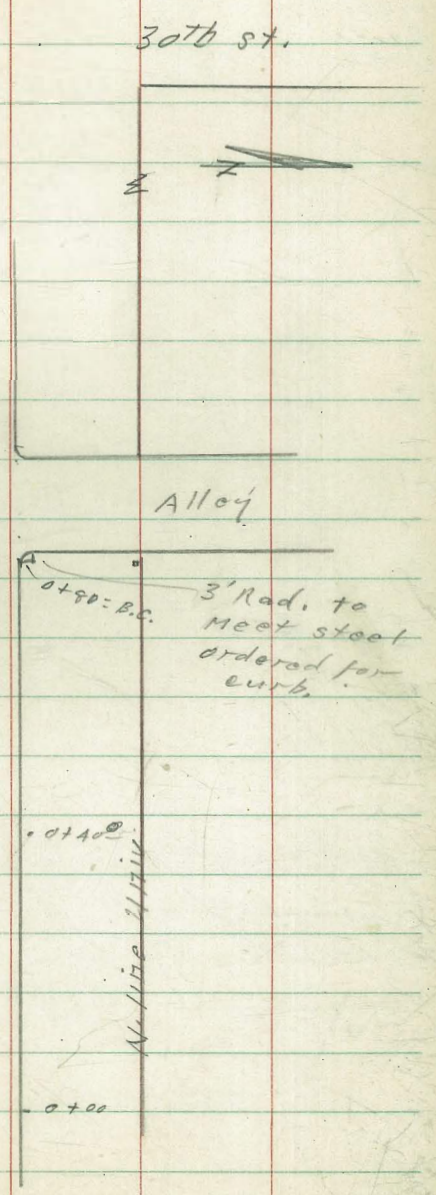
Stakes on 3' offset line

Meet Exist ol.		Alley Rot. B.C.	E.C.	Alley & Prop.
0+00	0+40 ℄	0+80		
5.37	94.98	95.35	95.38	95.49
94.62 = EL	5.01	4.64	4.62	4.50
Meet ol.	×		4.65	×
			F0.03	
Pave				
0+80				
5.32				
94.68 = EL				

Set 0.67 curb face

Assume 99.99 - π

℄ Univ. Ave.

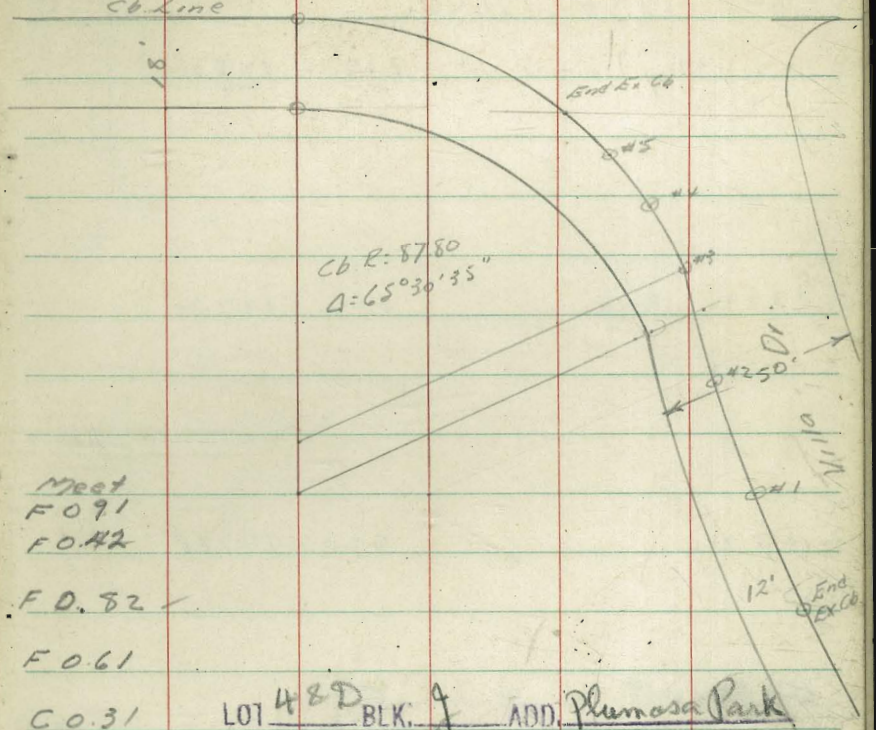


2-21-45 State Cb Lots 4&D Block J Plumosa Park
Hendricks
Bramby
Greer
Rorer
WO# 21018

INDEXED
AUG 8 1951

Meet Ex Cb		7.77	143.24	143.24
#1		7.86	143.15	144.06
#2		6.55	144.46	144.88
#3 PRC		6.13	144.88	145.70
#4		5.28	145.73	146.34
#5		3.72	147.29	146.98
Meet Ex Cb		3.38	147.63	147.63
	0.66	151.01		150.35

SE. curb Villa Dr & Elliott 41



Meet	
F 0.91	
F 0.42	
F 0.82	
F 0.61	
C 0.31	
Meet	

LOT 4&D BLK. J ADD. Plumosa Park
OWNER Ralph Krause
CONTR. Triangle Contractors
PERMIT NO. 3939

SEBP Villa Dr. & Elliot St.

C Moore
Bogg
D. Sisson

Curb stakes 4-7-49.

Lots 3-4 Blk 6 Roseville Hts

WO 21018

SEBP	0.35	156.46		156.11	Trumbull Akron
1+25	Sly Lot 4		8.15	148.31	
2+39.92	Bnk		8.66	147.80	
2+52			9.20	147.26	
end Top cb. Return			2.33	154.13	154.20 = 0.07

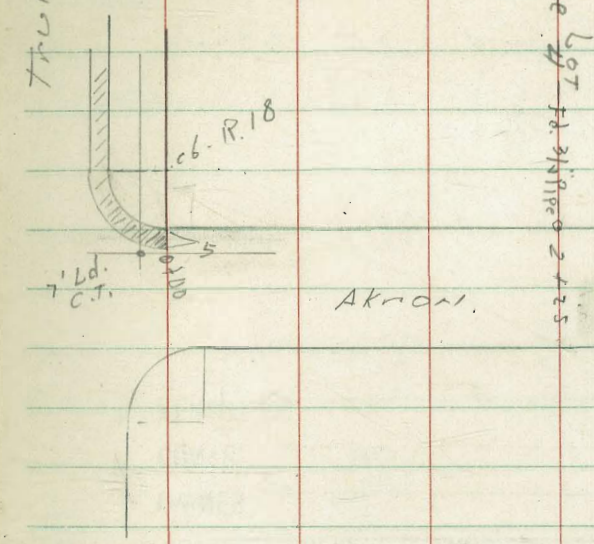
Nwly Cor. of Trumbull + Akron

Profile

INDEXED

AUG 8 1951

Blk 6



LOT 3-4 BLK. 6 ADD. Roseville Hts

OWNER Baker

CONTR. James J. Hill

PERMIT NO. 4035

Curb Grades South Side Main St.
West of 28th St.

BM	0.39	40.82		40.43	N.W. B.P. Boston + 28th St.
TP	1.49	30.19	12.12	28.70	

INDEXED

AUG 8 1951

PERMIT NO.
CONTR.
OWNER
LOT BLK. ADD.

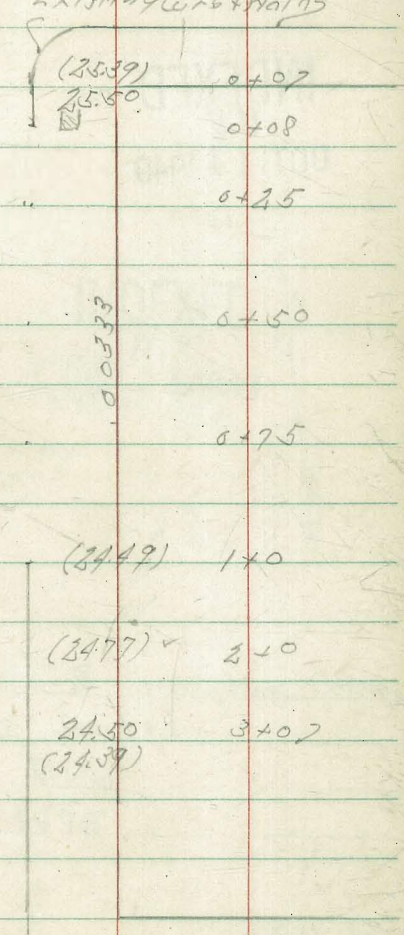
LOT 1-2-3-4 BLK. 22 ADD. Reed & Hubbell
OWNER Tipton
CONTR. Raymond Arnold
PERMIT NO. 4059 4-13-49

April 19-49
A. Sisson
D. Smith
W. Garber

W.O. 21018

28th St.

Existing Curb + Walk



(25.39) = Existing Curb

(25.39) 25.50 0+07
0+08
25.31 4.88 0+25
25.23 4.96 0+50
25.14 5.05 0+75
25.06 5.13 (24.49) 1+0
(24.77) 2+0
24.50 (24.39) 3+07

Main St.

0.0333

27th

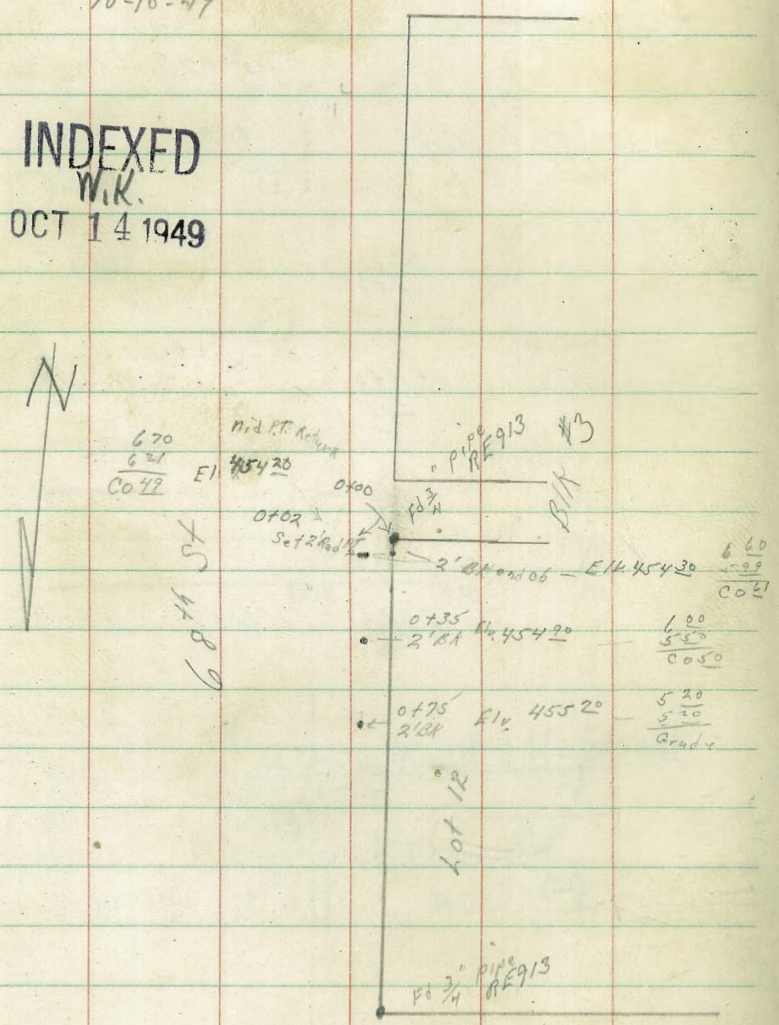
D. Smith III
C. Sommermeyer II
C. Allen
J. Rorer

Curb Stake 75' of walk North of Alley
lot 12 Blk 3 La Mesa Colony

WO# 20007
10-10-49

Amherst St

INDEXED
W.K.
OCT 14 1949



BM	3 50	460 90	457 40	SWBP 68th El Cajon.

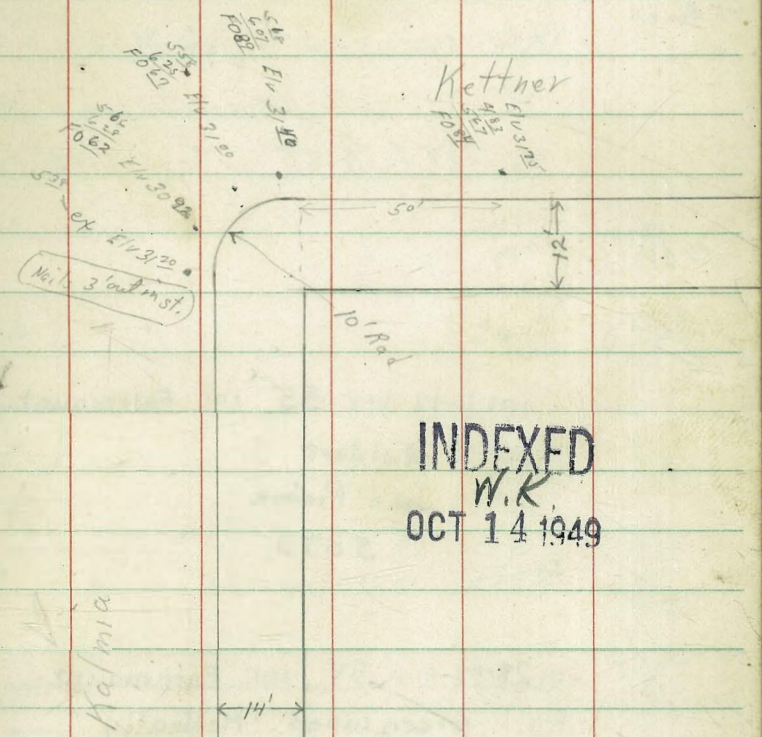
El Cajon Blvd.

D Smith III
C Sommermeyer II
C Allen
J Rorer

Stake curb Return Kalmia
Kettner

WO#20007
10-13-49

44



INDEXED
W.K.
OCT 14 1949

LOT 12 BLK. 3 ADD. La Mesa Colony
OWNER W.D. Jeahke
CONTR. Al Riley
PERMIT NO. 4475

TP	5 32	36 58	6 23	31 26	
BM	4 52	37 49		32 97	SE BP Laurel Kettner

D Smith
D Hendricks
J Greer
F Bunch

Stake curb + walks Estrella St.

btw. Orange + Trojan Ave.

Fd 7'x7' tack NW cor Orange + Estrella

Fd 7x7 tack SE cor Trojan + Estrella

INDEXED

AUG 8 1951

LOT 11-12 BLK. 35 ADD. Fairmount
OWNER Quidart
CONTR. John Picone
PERMIT NO. 5373

LOT 28-42 BLK. 34 ADD. Fairmount
OWNER Greenwood - McNeally
CONTR. John Picone
PERMIT NO. 5374

BM	0 33	348 78	348 45	SE cor BP Church steps Orange + Estrella

Permit # 5373 + 5374

wo# 20007

10-24-49

45

		cb Elv.	
west side 0+00 =	North of Nline Orange	346 50	2 28
0+90	Begin cb + walk	343 28	5 50 5 48 CO 02
1+07 5		342 65	6 13 6 23 FO 10
1+25	End cb + walk	342 02	6 76 7 01 FO 25
2+00	Begin cb + walk	339 47	9 31 9 71 FO 40
2+04 15		339 38	9 40 9 74 FO 34
2+17 85	Top cb inlet existing	339 17	9 61
2+28 85	Top cb inlet existing	339 09	9 69
2+44 15		339 35	9 43 9 75 FO 32
2+50	End cb + walk	339 59	9 19 9 69 FO 50

Permit # 5373-5374

East curb Estrella Lot 11+12

		cb Elv.	
3+50	Begin cb + walk	343.28	5.50 / 5.99 / FO 49
3+75		344.18	4.65 / 5.00 / FO 35
4+00	Connect existing cb	345.13	3.75 / 4.17 / FO 42
4+25		345.91	2.87
4+50	End walk	346.68	2.10

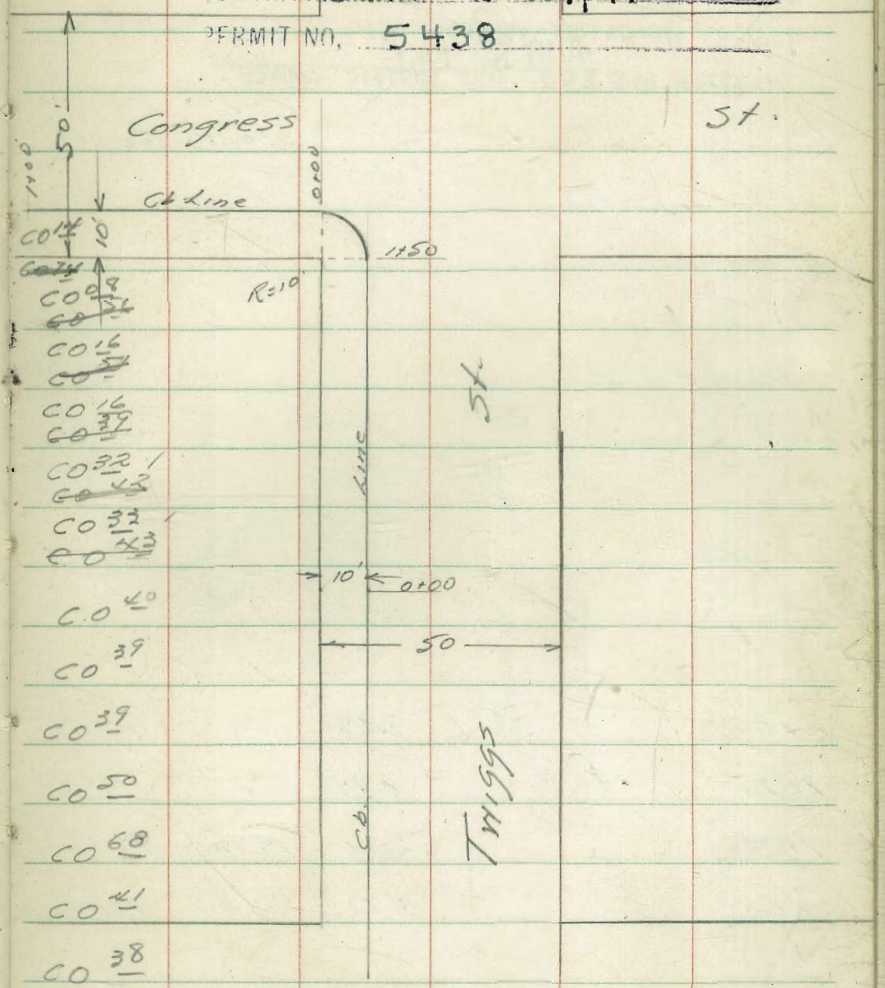
		cb elv.	3' BK cb face
3+50.15	North line Lot 10 existing cb	343.98	4.80 / 5.00 / 020 Low
3+28.65		343.13	5.65 / 5.79 / C006
3+07.15		342.29	6.49 / 6.49 / G
2+85.65		341.44	7.34 / 7.37 / FO03
2+64.15	BrK	340.60	8.18 / 8.56 / FO 38
2+50.15	End cb+walk South line Lot 12	340.04	8.74 / 9.03 / FO 29
2+30.75	North end Top cb inlet existing	339.52	
2+19.75	South end Top cb inlet existing	339.31	

HI 348.98

Stake Cbs Twiggs & Congress
Block 462 Lot 1

Sta	+	H.I	–	Elev. Stake	Elev. Gr.
CL Exist Cb 87' West of San Diego Ave			0.05	26.86	26.83
1+00			4.34	22.57	~~22.43~~ ~~21.83~~
0+75			4.61	22.30	~~22.22~~ ~~21.74~~
0+50			4.74	22.17	~~22.01~~ ~~21.66~~
0+25			4.94	21.97	~~21.81~~ ~~21.58~~
0+00 EC Cb			4.99	21.92	~~21.60~~ ~~21.50~~
#1 ℄ Curve			5.04	21.87	~~21.54~~ ~~21.44~~
1+50 EC 10' CbR			5.01	21.90	21.50.
1+25			4.40	22.51	22.12
1+05			3.90	23.01	22.62
0+85			3.29	23.62	23.12
0+65			2.61	24.30	23.62
0+45			2.38	24.53	24.12
0+25			1.91	25.00	24.62
0+00			0.97	25.94	25.25
T.P.	2.92	26.91	11.47	23.99	
B.M.	13.14	35.46			2232

LOT 1 BLK. 462 ADD. Old Town
OWNER D. y. Harbough
CONTR. Daniel E. Wipff.
PERMIT NO. 5438

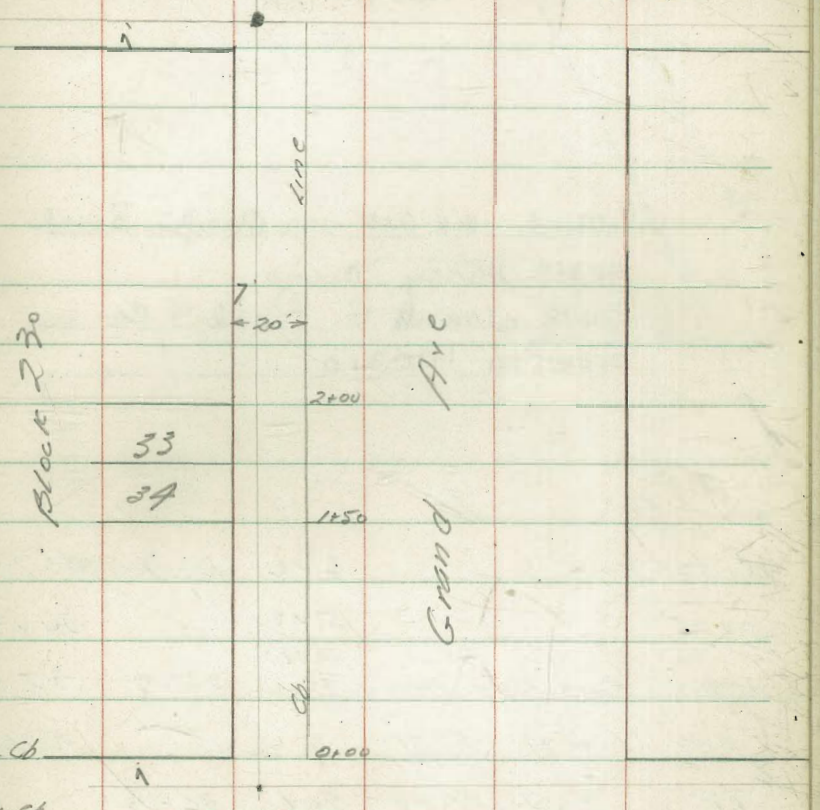


12-6-49
Hendricks
Johnson
Greer
Cota
W.O.# 20007

Stake CB & Sidewalk
Lots 33 & 34 Block 230 Pacific Beach

INDEXED.
AUG 8 1951

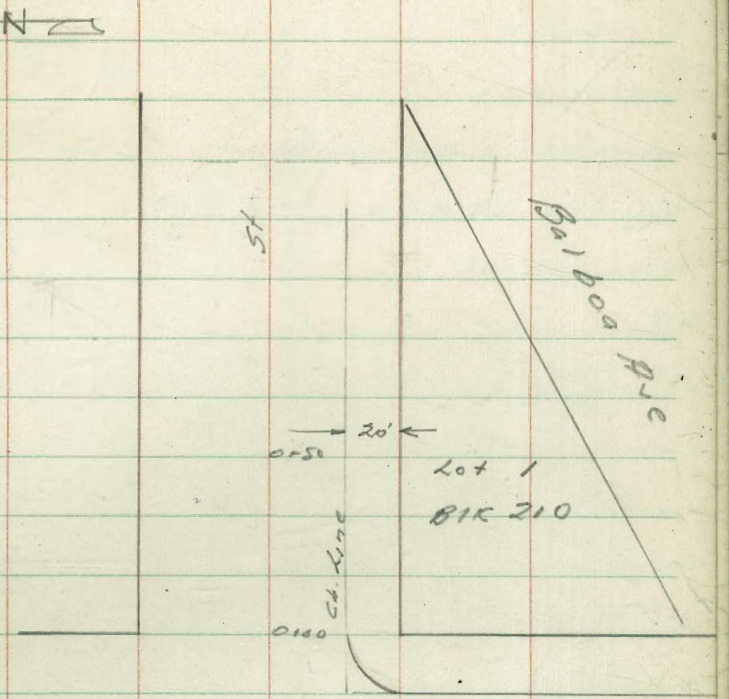
Sta	+	H.I	−	Elev. Stake	Elev. Grade
2+00			1.68		19.08
1+75			1.94		18.82
1+50			2.21	18.55	18.52
0+00			3.72	17.04	17.00
BM	9.01	20.76			11.75



12-27-49 Stake Cb's Lot 1 Block 210 Pacific Beach
Hendricks
Johnson
Cote
WO# 20007

INDEXED
AUG 8 1951

LOT 1 BLK. 210 ADD. Pacific Beach
OWNER Harry Muns
CONTR. Frank G. Real & Co.
PERMIT NO. 100310



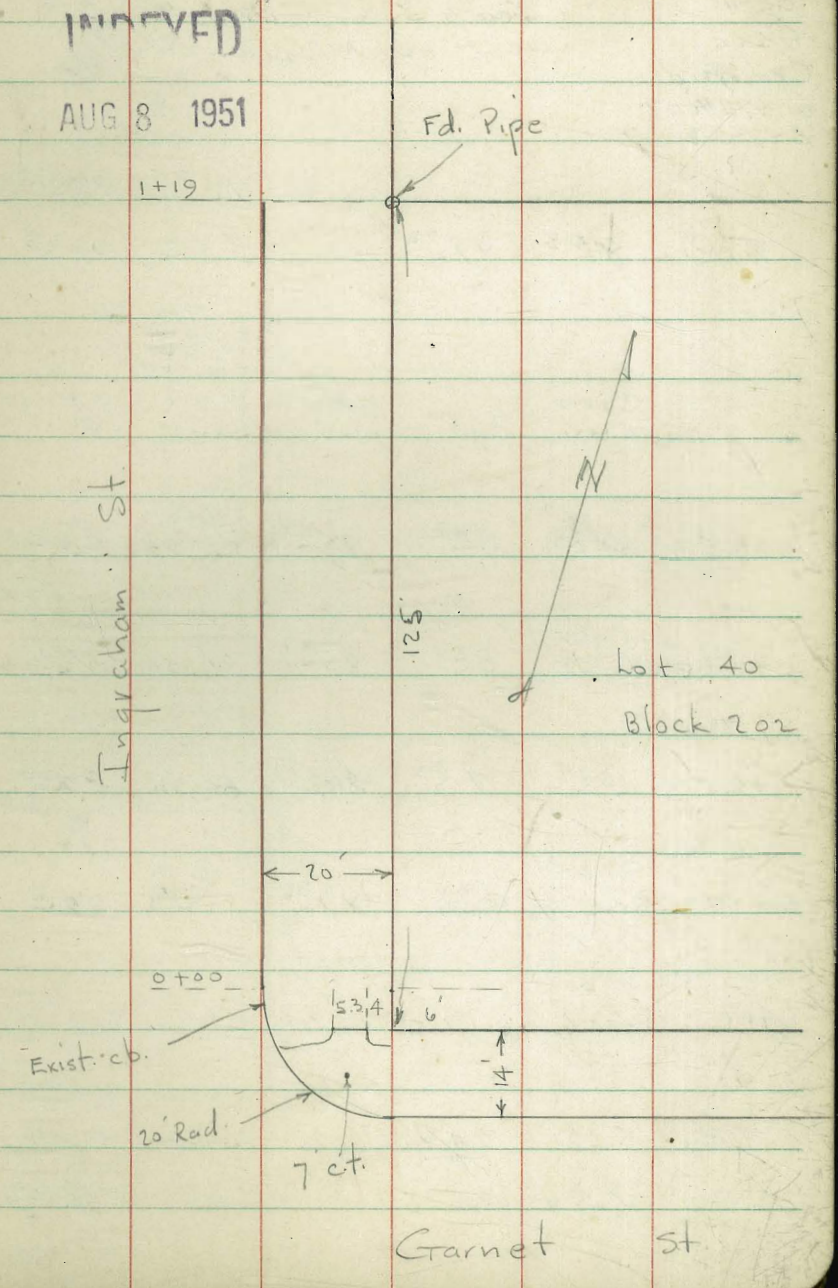
0+50	End		6.16		33.75	Pendelton 54
0+25			5.48		34.43	
0+00	East Line Pendelton	4.81	4.81	35.17	35.10	Ex. Cb
BM	4.81	39.91			35.10	(Ex Cb 0+00 used as B.M.)
TP	3.65	39.98	9.46	36.33		
BM	0.69	45.79			45.10	NWBP Garnet & Olney

Stake Curb along Lot 40' Block 202
Pac Beach - 6-21-50 - 70.
4579
W.O. 20007
N.W. 7' ct. Garnett & Ingraham 63.26
see Plan 7016-L for Elev.
N.L. Garnet.

6'N=		Grade	
P.C. 20' Rad = 0+00	63.21	63.32	
+30	63.70	63.74 (.70)	F 0.04
+60	64.08	64.16 (.08)	F 0.08
+90	64.20	64.58 (.20)	F 0.38
1+19 = end.	64.90	64.98 (.90)	F 0.08

LOT 40 BLK. 202 ADD. Pacific Beach
OWNER Safeway Stores, Inc.
CONTR. Morena Bros.
PERMIT NO. 2642

IMPROVED
AUG 8 1951



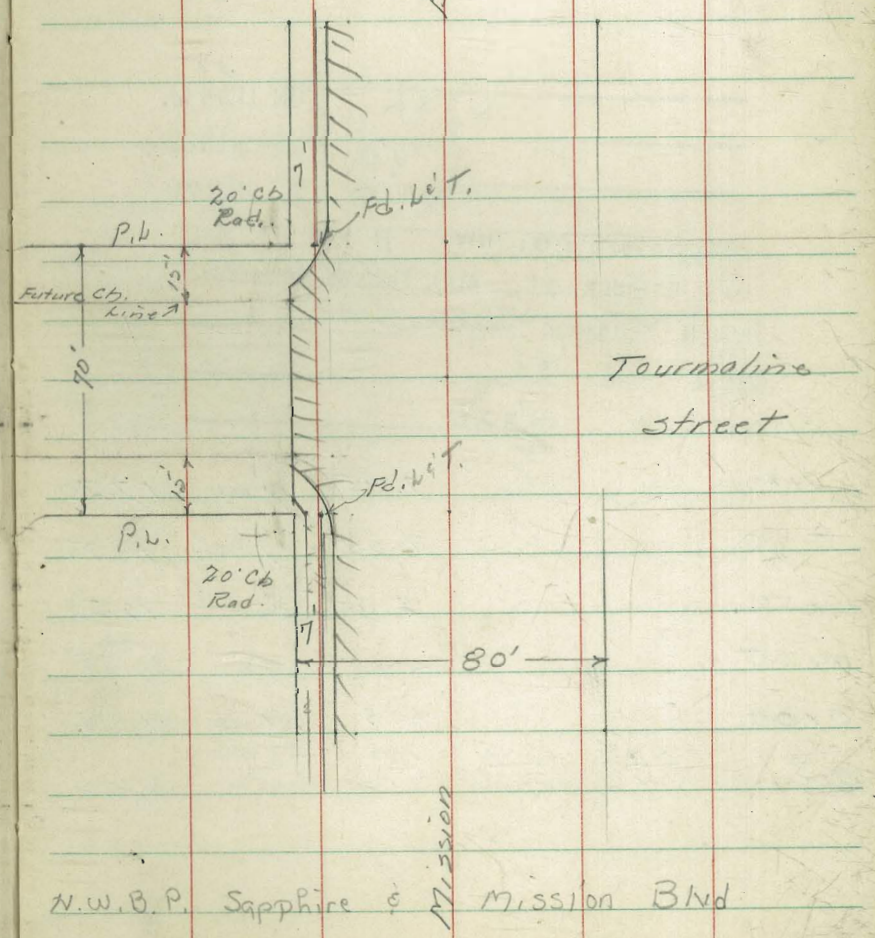
INDEXED APR 26 1951

Johnson
Cota
Greer
Crawford
W.O. 20007
8-7-50

Stakes for 50' Sidewalk
South Side Tourmaline St.
West of Mission Blvd

				1.18	98.54
T.P.	8.63	99.72		3.02	91.09
				6' from CB outside edge Sidewalk Grade	
	Curb Elev	Rod	Stake Elev.	Elev	Cuts or Fill
0+65 =	85.88	8.49	85.62	85.34	FO.32
0+50 =	End 86.24 Sidewalk	8.24	85.87	86.30	FO.43
0+25	86.84	7.24	86.87	86.90	FO.03
0+10 =	87.20 Brk.	6.79	87.32	87.26	CO.06
0+00 =	87.30 West Line Mission Blvd				
T.P.	5.02	94.11		10.96	89.09
B.M.	1.51	100.05			98.54

98.54 = N.W.B.P. Sapphire & Mission Blvd



N.W.B.P. Sapphire & Mission Blvd

9-6-50
Hendricks
Cota
Greer
Bunch
WO# 20007

Stake Cb Lots 10, 11, 12, & 13
Blk 11, New Roseville

INDEXED
AUG 8 1951

Stg.	+	H.I.	—	Elev. Stake	Elev. Grade

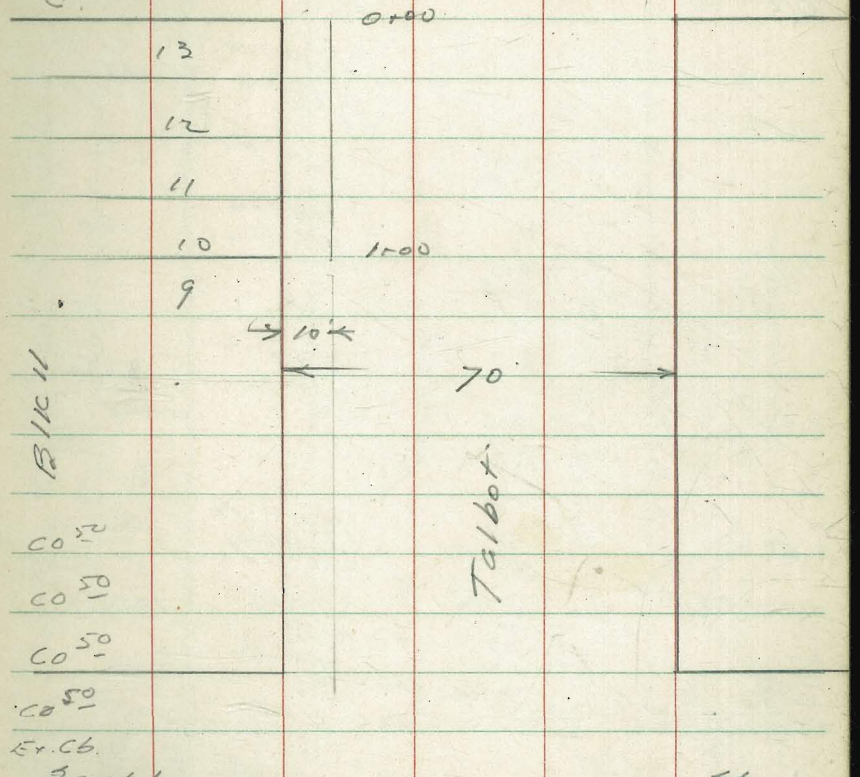
LOT 4-5 BLK. 11 ADD. New Roseville
OWNER Marie Tillman
CONTR. Al Riley
PERMIT NO. 4826

1+00			7.45	18.00	17.50
0+70			6.25	19.20	18.70
0+50			5.45	20.00	19.50
0+25			4.45	21.00	20.50
0+00			4.03	21.42	21.50
TP	4.03	25.45	7.86	21.42	
BM.	1.46	29.28			27.82

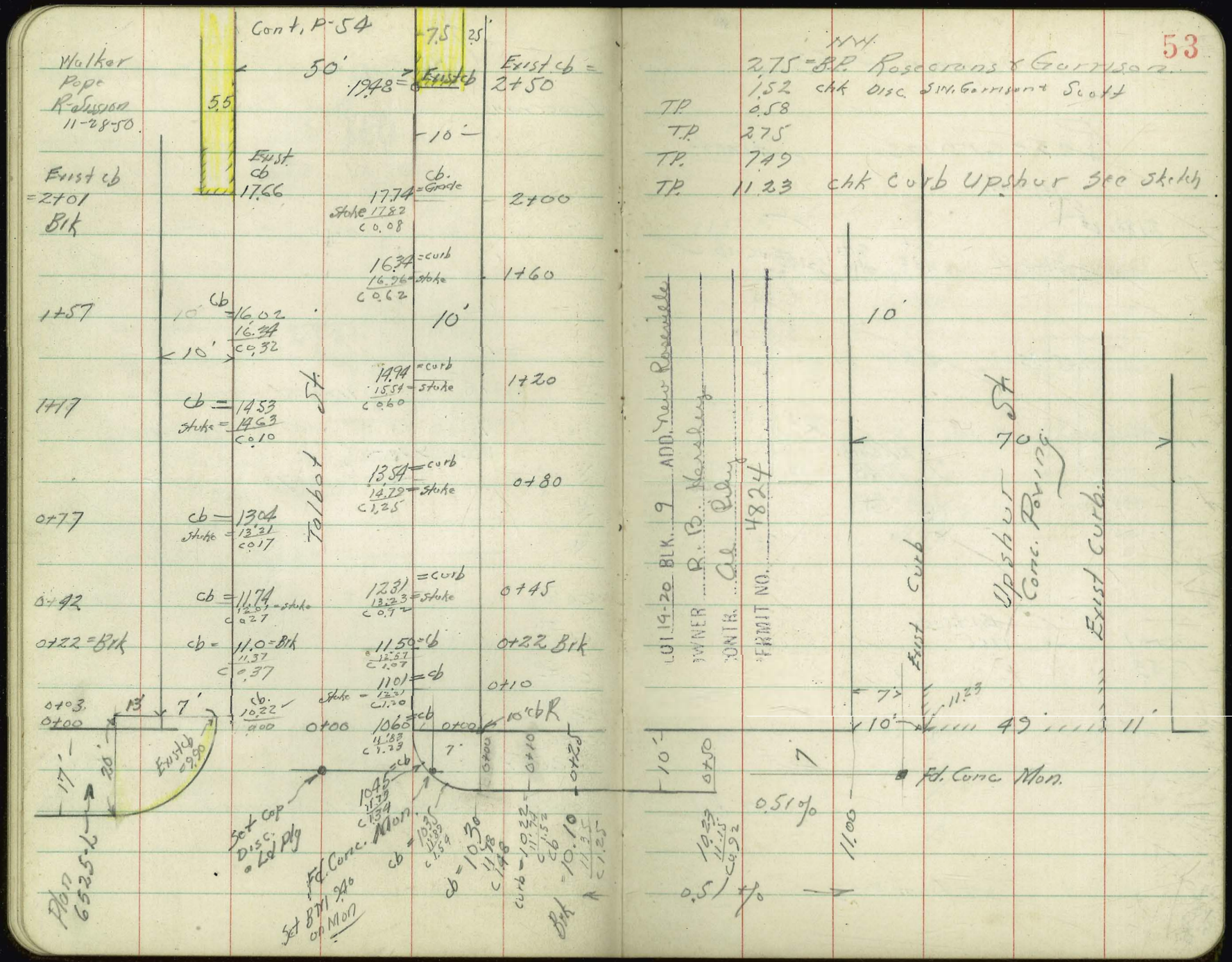
52

LOT 10-13 BLK. 11 ADD. New Roseville
OWNER Paul Conner
CONTR. Al Riley
PERMIT NO. 4823

Rosecrans



NW 4 BP Bessemer & Rosecrans



NW

2.75 = B.P. Rosecrans & Garrison

1.52 chk Disc. S.W. Garrison & Scott

T.P. 0.58

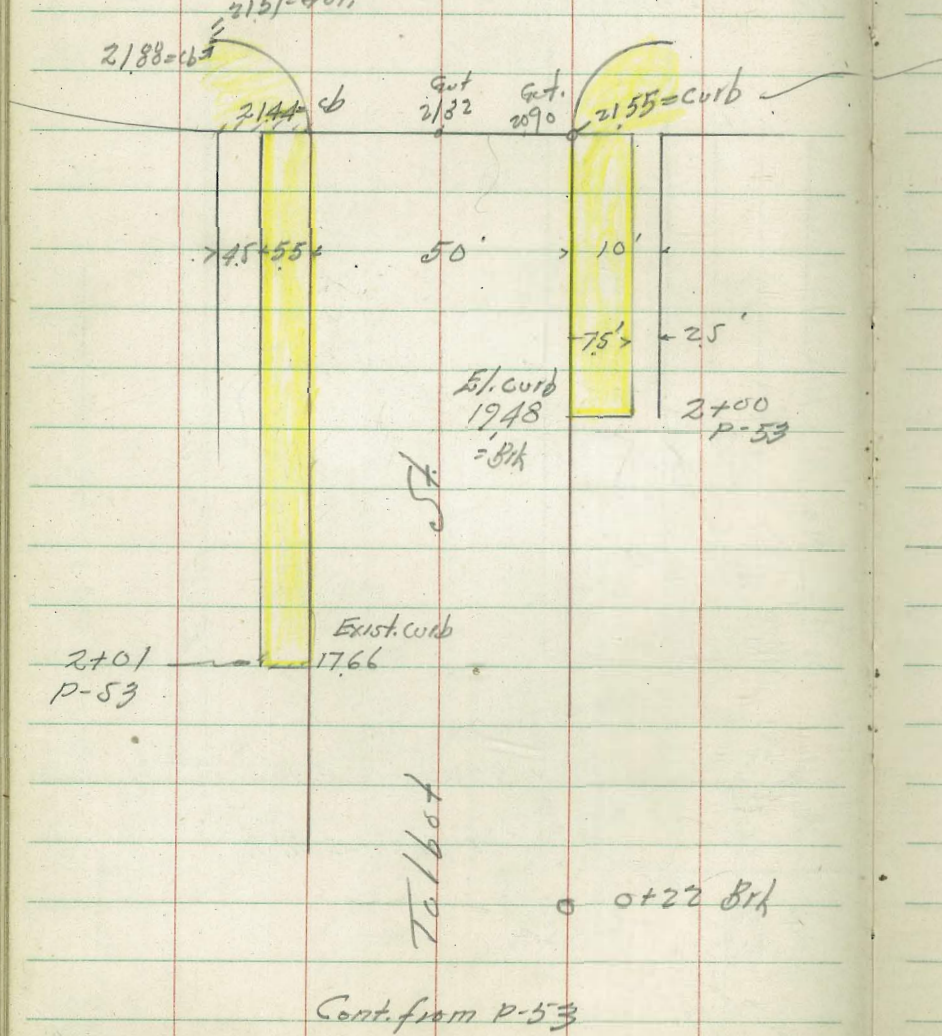
T.P. 2.75

T.P. 7.49

T.P. 11.23 chk curb Upshur See sketch

Cont. from P-53

Rosecrans Street



LOT 17-18 BLK. 9 ADD. New Roseville
OWNER G.R. Wood
CONTR. Al Riley
PERMIT NO. 4825

LOT 17-18 BLK. 9 ADD. New Roseville
OWNER J. E. Conn
CONTR. Al Riley
PERMIT NO. 4828

12-8-50

Grade stakes for cbs. 11th. st. South line
Market st. = 0+00. South to 1+50 (on West.)

1+50 meet exist. cb.	40.75 Exist.
1+25 end drive	41.13 40.85 F - 0.28
0+85 begin drive	41.75 41.46 F - 0.29
0+50 end drive	42.29 41.99 F - 0.30
0+10 begin driveway	42.91 Elev. Grade 42.60 Elev. stake F - 0.31
0+00 (So. line Market st.)	43.06 Exist.

Direct Elev. Rod.

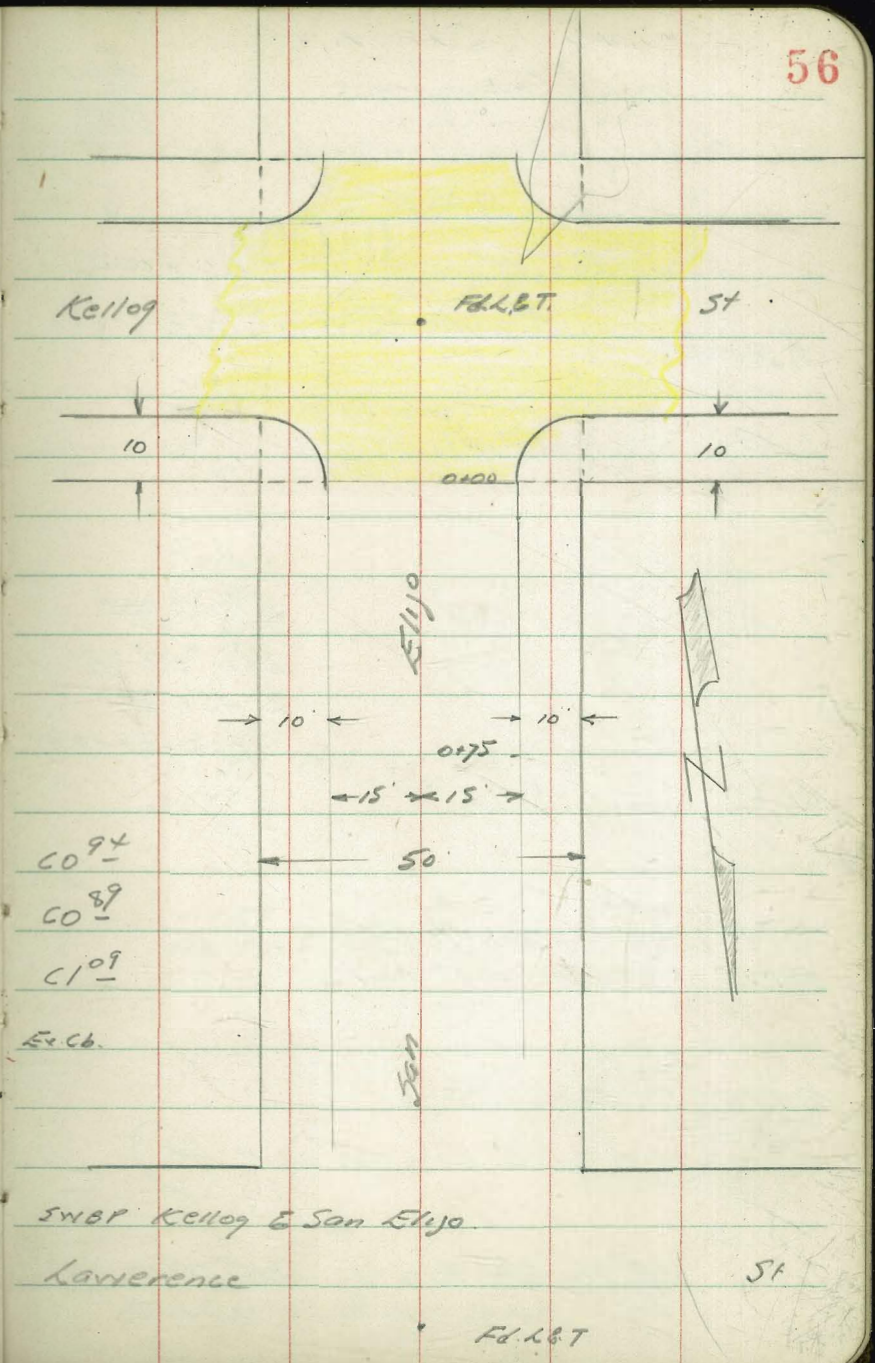
B.M. Elev. = 38.47 N.W.B.P. Island & 11th.

X-25-51 Stake C&S Block 126
Hendricks Lot 4 La Playa Sub
Allen
Shepard
Bruner
HO #20007

INDEXED
APR 26 1951

LOT 4 BLK. 126 ADD. La Playa
OWNER Ernest Montero
CONTR. Silver Strand Constr.
PERMIT NO. 37244

		Elev. Stake	Elev. C&S
0+75		C1.32	60.38
0+50		61.14	60.25
0+25		61.21	60.12
0+00 ℄ Line Kellog		60.05	60.00
BM			59.58



~ MERLIN DRIVE ~

CURB GRADES

Walker
Pope
Clark
Huffman
5-22-51

Lots - 1-7 Blk 1; 1-12 - Blk 2;

" 1-20 Blk 3

Used:- Sub Map 2699. W.O. 20007

Alignment = Page 67-72

℄ Station	def	
0+88	1°31.42	
0+62	1°04.4	℄ R = 1654.4 Δ = 15°48'24" L = 456.41 def. per ft = 1.039'
0+36	0°37.4	

0 17.56 = cb on Rt. E.C. Ret. 27'R 0°18.5'

~~0+10~~ 0+16.40 = B.C. 0°17.06

0+00 = B.C. Rt. N.L. Kenwood

(NW & NE Returns on P-66)

12.12 222.14 210.02

Lt.	℄	Rt.
Top cb	Subgrade = Oiled finish = 0.33 below Future Paving With 0.25' crown per inst. Rader.	Top cb.

INDEXED

AUG 8 1951

C 0.10				F 0.01
218.44	17.94	18.12	18.46	218.96
218.54				218.95
3.60				3.19
C 0.93				C 0.22
216.46	15.96	16.14	16.48	216.98
217.39				217.20
4.75				4.94
C 0.52				C 0.24
214.48	13.98	Sub 14.16	Gut 14.50	215.00
215.00				215.24
7.14				6.90
C 0.87	Gut 12.49	Fin 13.03 12.71 Sub.	Gut 13.08	C 0.21
212.99 = cb				213.58 = cb
213.86 Stakes				213.79

222.14

B.M. SW Top cb Gd Book 274-7
Kenwood & Merlin Drive

Merlin Drive Curb Grades

North of Kenwood

2+40		4°09.34			
2+20		3°48.56			
2+00		3°27.78			
1+80		3°07			
1+60		2°46.22			
1+40 P.V.C.		2°25.44			
T.P.	12.20	234.04	0.30	221.84	
1+14		1°58.43			
		222.14			

Lots 1-20 in Block 3
1-12 in "2"
1-7 Blk. "1" Amended Hills
Owner C. J. & Ida Smyth
Cameron Bros.
Permit No. 40625 - 40626

Lt.		℄		Rt.
T.P. Ch. F 0.03			Gut.	Top Ch. C 0.13
228.86	28.36		228.86	229.36
228.83				229.49
5.21				4.55
C 0.09				C 0.22
227.77	27.27	27.44	27.77	228.27
227.86				228.49
6.18				5.55
F 0.13				C 0.37
226.57	26.07		26.57	227.07
226.44				227.44
7.60				6.60
C 0.04				C 0.36
225.28	24.78		25.28	225.78
225.32				226.14
8.72				7.90
C 0.07				C 0.32
223.90	23.40	23.87	23.90	224.40
223.97				224.72
10.07				9.32
C 0.15				C 0.39
222.42	21.92		22.42	222.92
222.57				223.31
11.47				10.73
		234.04		
220.55 T.P.				
C 0.14				F 0.14
220.42	19.92	20.10	20.44	220.94
220.56				220.80
1.58				1.34
		222.14		

58

T.P. 228.61

Melin Drive Curb Grades

3+80		6°34.96'		
3+60		6°14.18		
3+40		5°53.40		
T.P.	8.43	242.22	0.25	233.79
3+20		5°32.62		
3+00		5°11.84		
2+80		4°51.06		
2+60 = EVC		4°30.14'		
		234.04		

Lt. Top cb		℄		Rt. cb
C 0.15				C 0.25
235.65	35.15		35.65	236.15
235.80				236.40
6.42				5.82
C 0.14				C 0.24
234.68	34.18		34.68	235.18
234.82				235.42
7.40				7.00
C 0.22				C 0.29
233.71	33.21	33.38	33.71	234.21
233.93				234.50
8.29		242.22		7.72
C 0.14				C 0.24
232.74	32.24		32.74	233.24
232.88				233.48
1.16				0.56
C 0.30				F 0.37
231.78	31.28		31.78	232.28
232.08				231.91
1.96				2.13
C 0.48				C 0.30
230.82	30.32	30.49	30.82	231.32
231.30				231.62
2.74				2.42
F 0.09				C 0.14
229.86	29.96		29.86	230.36
229.77				230.50
4.27				3.54
		234.04		

Merlin Drive - Curb Grades

					Lt.	℄	Rt	
								F.L. Gutter
5+00		0°48.5'			C 0.05 241.48 241.53 9.34	40.98 v. 41.18 = Sub.		C 0.42 241.48 41.90
4+75		0°20.5			C 0.17 240.27 240.44 v 10.43	cb Gut. 39.77		C 0.46 240.27 40.73
Spike in Pole 4+40 on Lt. T.P.	9.14	250.87	0 49	241.73		250.87		
4+57.86 = End Curb on Rt.					C 0.02 239.43 239.45 2.77 239.45 2.77	38.93 v	39.10 = Sub.	F 0.06 v 239.93 239.87 2.35	239.43 v
4+36.41 = PCC		7°54.2							
4+40		7°37.3'			C 0.23 v 238.56 238.79 3.43	38.06 v		C 0.04 239.06 239.10 3.12	238.56 v
4+20		7°16.52			F 0.04 v 237.57 237.55 4.67	37.09 v		C 0.21 238.09 238.30 v 3.92	237.57 v
4+00		6°55.74			C 0.10 v 236.62 236.72 5.50	36.12	36.29 v	36.62	C 0.18 237.12 237.30 4.92
		242.22				242.22			

236.06 T.P.

Merlin Drive Curb Grades

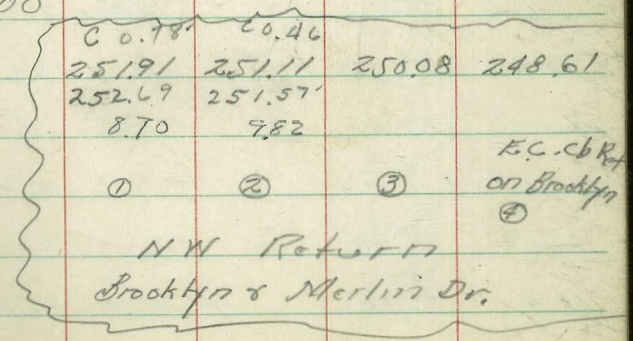
Grd. 27X-12
Chk Stake Lat #19

				0.02							
				247.55							
			3.30	247.57							
								Lt Gutter		Rt. Elev. Gutter	
			C 5.14	C 2.48	C 1.37	C 0.68	F 0.46	Gut.		Gut.	
6+34.86 Meas.		3°16.67	242.25	245.43	247.37	248.11	248.04=cb	247.54	47.71=Sub.	248.04	
~~6+35.67~~=P.R.C. Rt.		~~3°17.6~~	247.39	247.91	248.74	248.79	247.58			48.53	
			3.48	2.96	2.13	2.08	3.29			C 0.49	
			#4	#3	#2	#1					
			E.C. on Brooklyn								
							F 0.49			Gut.	
6+25		3°05.92'					247.56=cb	247.06'		247.56	
							247.07			48.10	
							3.80			C 0.54	
							C 0.21			C 0.69	
6+00		2°38.35'					246.34	245.84	46.01=Sub.	246.34=Gut.	
							246.55			47.03	
							4.32				
							C 0.27			C 0.69	
5+75		2°10.78'					245.13	44.63		245.13	
							245.40			45.92	
							5.47				
											244.55=TP
							F 0.01			C 0.64	
5+50		1°43.2					243.91	43.41	43.58=Sub.	243.91	
							243.90			44.55	
							6.97				
							F 0.09			C 0.49	
5+25		1°15.64'					242.70	42.20		242.70	
							242.61			43.19	
							8.26				
		250.87						250.87			

℄ Street Station				Elev. Stakes	West Side El. Curb
1+00	1°44'		5.23	256.16	256.38
0+75	1°18'		6.19	255.20	255.40
0+50	0°52'		7.25	254.14	254.43
				℄R=1654.4 Δ=11°31'43 ℄L=332.89	
0+25	0°26'		7.95	253.44	253.45
			8.60	252.79	252.47
0+00=B.C. = P.R.C. curb R on Lt. = NW Cor Brooklyn					
T.P.	11.53	261.39 250.87	1.01	249.86	Spk. in Pole on Lt 6+00

		Lt. Gut.	℄	Rt. Gut.	
F0.22		255.88	56.05=Sub.	C 0.77 257.15 256.38	
F0.20		254.90		C 0.92 256.32 255.40	256.32 T.P.
F0.29		253.93	54.15=Sub.	C 0.78 255.21 254.43=Gut.	254.2
F0.01		252.95 251.97		C 0.69 253.45=Gut. 254.14=Stake 253.09 252.47	C 0.62=Gut.
C 0.32	0+00	C 0.78 251.91 252.69 8.70 ①	C 0.46 251.11 251.57 9.82 ②	250.08 ③	248.61 E.C. Cb Ret on Brooklyn ④

NW Return
Brooklyn & Merlin Dr.



Curb Grades – Merlin Drive on northerly side

℄ Merlin Stations					Elev. North curb
4+60.68		3°23.86'	6.69	272.05	271.41
4+40.68		2°51.96'	7.89	270.85	270.45
4+20.68		2°20.06'	9.12	269.62	269.48
4+00.68		1°48.16'	9.98	268.76	268.52
3+80.68		1°16.26'	10.54	268.20	267.60
3+60.68		0°44.36'	11.95	266.79	266.68
3+40.68		0°12.46'	12.85	265.89	265.80
3+32.89		0°00			
3+3289-PCC	5°45.93		13.36	265.38	265.46
T.P.	12.96	278.74			
3+25	5°38'		7.53	265.78	265.15
3+00	5°12'		9.34	263.97	264.18
2+75	4°46'		10.19	263.12	263.20
2+50	4°20		11.09	262.22	262.23
T.P.	12.07	273.31			
2+25	3°54'		0.15	261.24	261.25
2+00	3°28'		1.05	260.34	260.28
1+75	3°02'		2.03	259.36	259.30
1+50	2°36'		3.03	258.36	258.33
1+25	2°10'		4.27	257.12	257.35
		261.39			

	Lt. Gut.	℄ Subgrade	Rt. Gut.	
			C 0.48	271.89 TP
			71.89	
C 0.64	270.91		271.41	
			C 0.45	
C 0.40	269.95		70.90	
			270.45	
			C 0.49	
C 0.14	268.98	69.15	69.97	
			269.48	
			C 0.32	
C 0.24	268.02		68.84	
			268.52	
			C 0.31	20.27 Lt.
C 0.60	267.10		67.91	19.73 Rt.
			267.60	
			C 0.49	
C 0.11	266.18	66.35	67.17	
			266.68	
			C 0.56	
C 009	265.30		66.36	
			265.80	
				7.91 Lt.
				7.69 Rt.
			C 0.55	
F 0.08	264.96		66.01	
			265.46	
			C 0.55	
C 0.63	264.65		65.70	
			265.15	
			C 0.68	
F 0.21	263.68	Sub. 63.85	64.86	
			264.18	263.92 TP
			C 0.72	
F 0.08	262.70		63.92	
			263.20	
			C 0.56	
F 0.01	261.73	Sub. 61.90	62.78	
			262.23	
			C 0.65	
F 0.01	260.75		61.90	
			261.25	
			C 0.60	
C 0.06	259.78	59.75 Sub.	60.88	
			260.28	
			C 0.61	
C 0.06	258.80		59.91	
			259.30	
			C 0.75	
C 0.03	257.83	Sub. 58.00	59.68	
			258.33	
			C 0.58	
F 0.23	256.85		57.93	
			257.35	

Merlin Drive

Stations = 25' South of N. Line		Curb Grades			Elev. North Curb			Lt Gut.	℄	Rt Gut.	
7+20.38 = Brk			6.91	283.73	282.98	C 0.75		282.48	283.00 = Fin.	C 3.34 286.32 282.98	
6+91.23			8.15	282.49	281.92	C 0.57		281.42	Sub = 81.58 281.91 = Fin.	C 1.09 283.14 282.05	283.97 Pipe SE. lone
6+62.08 = Brk			9.48	281.16	280.86	C 0.30		280.36	280.90 = Fin.	C 1.04 281.98 280.94	
6+54.67 = E.C.		8°33.5'	9.90	280.74	280.70	C 0.04		280.~~20~~ .10	280.65 Fin.	C 1.04 281.64 = Stake 280.60	
6+45.68		8°19.12'	10.35	280.29	280.24	C 0.05		279.74	= Sub. 79.71	C 0.87 81.11 280.24	281.11 T.P.
6+25.68		7°47.22	11.33	279.31	279.40	F 0.09		278.90		C 0.50 79.90 279.40	
6+05.68		7°15.32'	11.86	278.78	278.51	C 0.27		278.01		C 0.59 79.10 278.51	
T.P. 5+85.68	12.67 P.V.C	290.64 6°43.42'	0.77	277.97	277.55	C 0.42		277.05	77.22	C 0.57 78.12 277.55	
5+65.68		6°11.52'	1.42	277.32	276.58	C 0.74		276.08		C 0.64 77.22 276.58	
5+48.32			2.58								
P.R.C. 2' Alley Rt. on Merlin 5°43.75				276.16	275.72	C 0.44		275.22		C 0.67 76.39 275.72	
B.C. 2' R on N.E. Alley Rt.			2.58	276.16	275.64	C 0.52		275.14			
N.E. Prop on Alley			~~3.96~~	276.66 ~~274.78~~	275.72	C 0.94 ~~F 0.94~~		275.22			
N.W. Prop Alley			~~5.06~~	274.81 ~~273.68~~	274.77	~~F 1.09~~	C 0.04	274.27			
N.W. E.C. 2' R on Alley			3.49	275.25	274.69	C 0.56		274.19			
5+24.93 = P.R.C. 2' cbR Alley 5°06.46'			3.49	275.25	274.57	C 0.68		274.07	74.24	C 0.71 75.28 274.57	
5+00.68		4°27.66	4.96	273.78	273.34	C 0.44		272.84		C 0.78 74.12 273.34	
4+80.68		3°55.75'	5.70	273.04	272.37	C 0.67		271.87	Sub. 72.04	C 0.64 73.01 272.37	
		278.74									

Merlin Drive Curb Grades

		col	Elev. North Curb	Lt. Gutter		Rt. Gutter	
	Broadway		282.13				
Chk S.W. B.P. 60th	8.50	282.14					
25 N	8.74	281.80					
10' N	8.31	282.33					
E.C. on East cb	8.03	282.61	282.60	✓	282.10		
10 +86.03 B.C. 10' cb R	7.71	282.93	282.88	C 0.05	282.38 (34)		
10+64.6 = Exist. Pav.						284.32 = Exist. Pav.	
10+61.80 opp SW cor. 60th	7.45	283.19	283.38	F 0.19	282.88	C 3.27 87.31 284.24	
10+64.6 = Pav. on Rt.							C 3.79 2880 284.06
10+51.72 = B.C.	7.20	283.44	283.50	F 0.06	283.00	284.06 = 10+31.72	
10+31.72			283.82		283.32	283.61	7.85 → C 3.02
10+11.72 = Brk	6.41	284.23	284.13	C 0.10	283.63	C 4.79 89.33 284.83	
9+76.28	5.60	285.04	284.68	C 0.36	284.18	84.53	C 3.29 88.53 285.04
9+40.85 = E.V.C.	5.28	285.36	285.24	C 0.12	284.74		C 2.79 88.49 285.24
9+20.85	5.30	285.34	285.50	F 0.16	285.00	85.17	C 2.80 88.47 285.50
9+00.85	5.24	285.40	285.67	F 0.27	285.17		C 2.77 88.50 285.67
8+80.85 Vertex	5.27	285.37	285.73	F 0.36	285.23		C 2.79 88.47 285.73
8+60.85	5.30	285.34	285.68	F 0.34	285.18	85.35	C 3.14 88.68 285.68
8+40.85	5.68	284.96	285.54	F 0.58	285.04		C 3.66 88.96 285.54
8+20.85	5.62	285.02	285.30	F 0.28	284.80		285.30 3' Back
8+00.85	5.83	284.81	284.95	F 0.14	284.45	84.62	C 3.17 88.12 284.95 1' Back
7+80.85 = P.V.C.	5.97	284.67	284.50	C 0.17	284.00		C 3.26 87.76 284.50 2' Back
7+50.61 ✓	6.42	284.22	283.74	C 0.48	283.24	83.41	C 3.44 87.18 283.74 2' Back

2.9064

Merlin Drive - Curb Grades

4 = E.C. on Merlin		5.60	213.80	213.58	C 0.22
3	NE Return	6.09	213.31	212.74	C 0.57
2	NE Return	5.84	213.56	212.12	C 1.44
1	NE Return	3.87	215.53	211.77	C 3.76
B.C. on Kenwood		3.86	215.54	211.70	C 3.84
4 = E.C. on Merlin		5.53	213.87	212.99	C 0.88
3	NW Ret.	5.92	213.48	212.19	C 1.29
2	NW Ret.	5.56	213.84	211.38	C 2.46
1	NW Ret.	5.47	213.93	210.57	C 3.36
B.C. on Kenwood		5.58	213.82	209.76	C 4.06
	9.38	219.40		210.02	BM Top Ch.

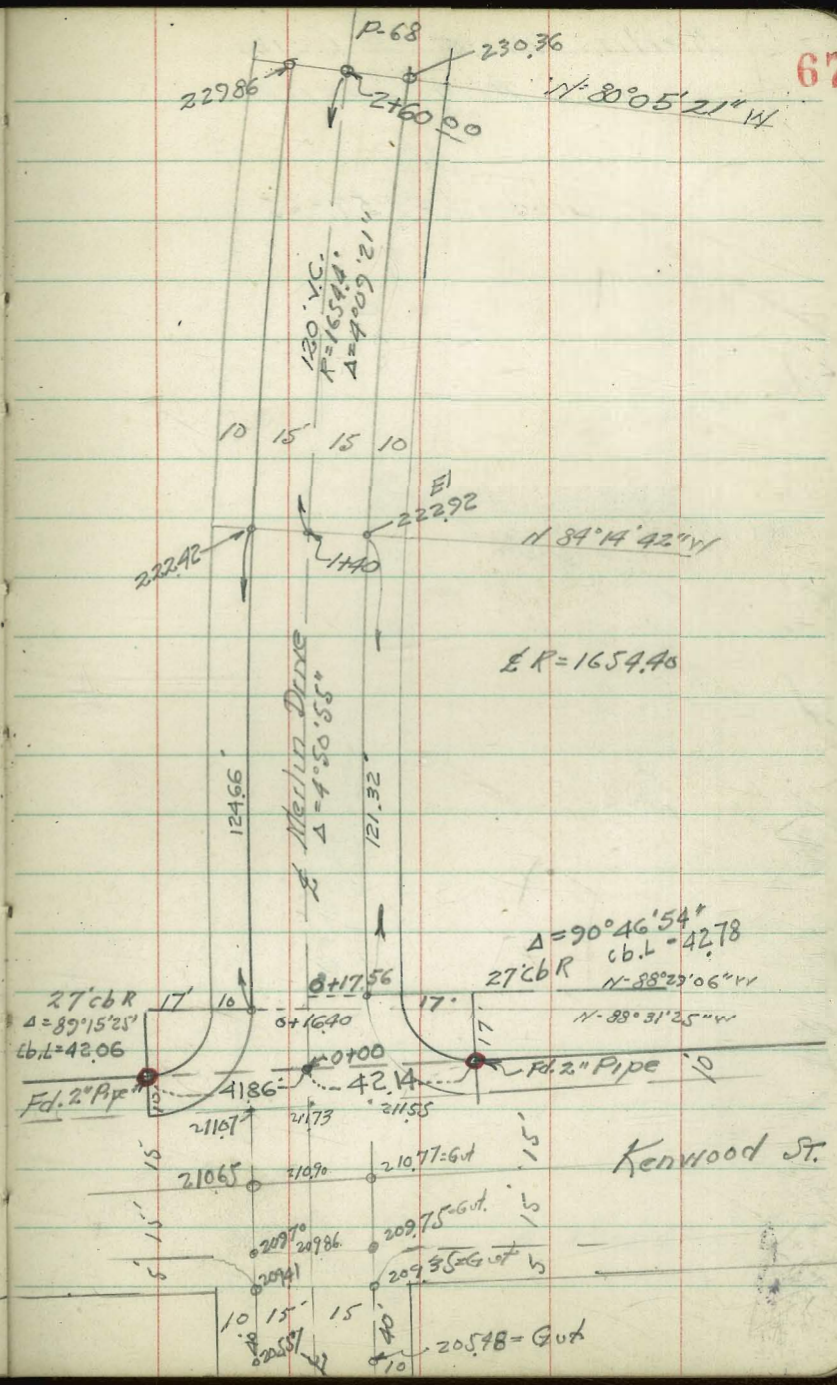
Merlin Drive ~ Curbs
Alignment. ~

INDEXED
AUG 8 1951

Walker
Pope
Clark
Huffman
6-1-51

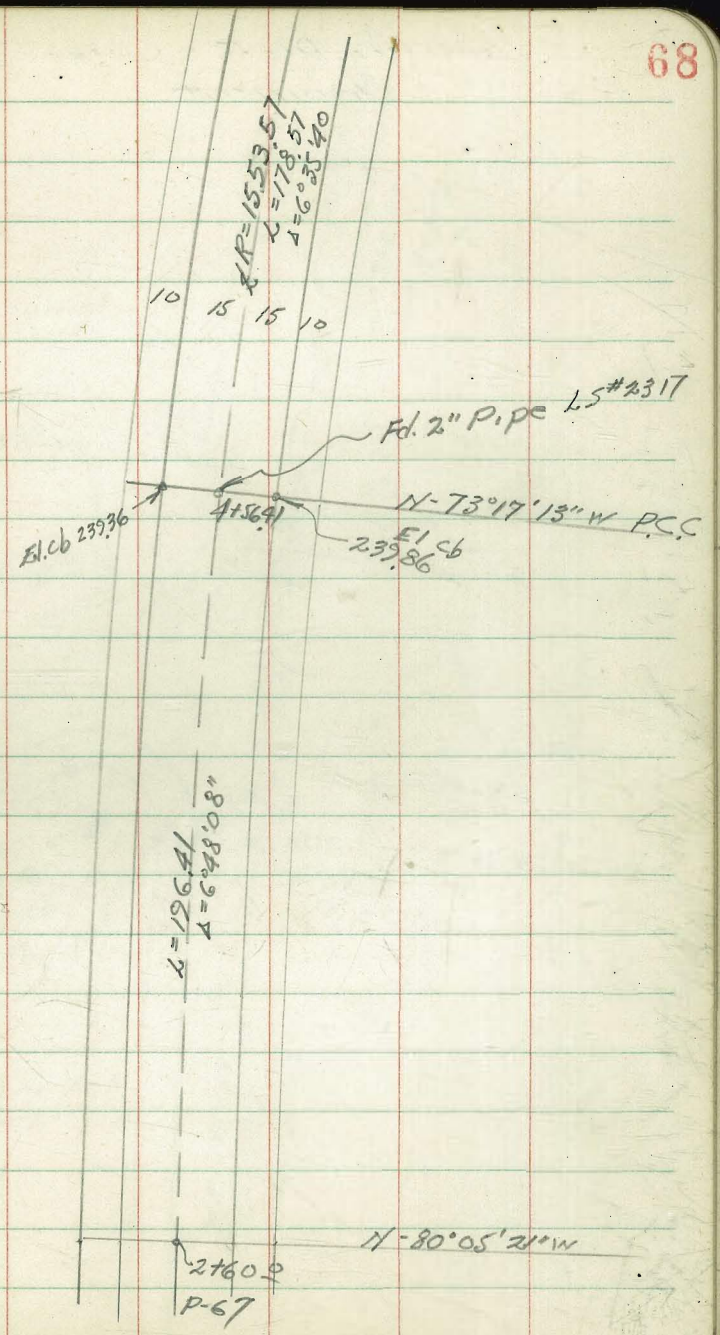
Grades Page 57-65

Note: Stokes in Intersection set to Subgrade 0.33 below finish grades that are shown

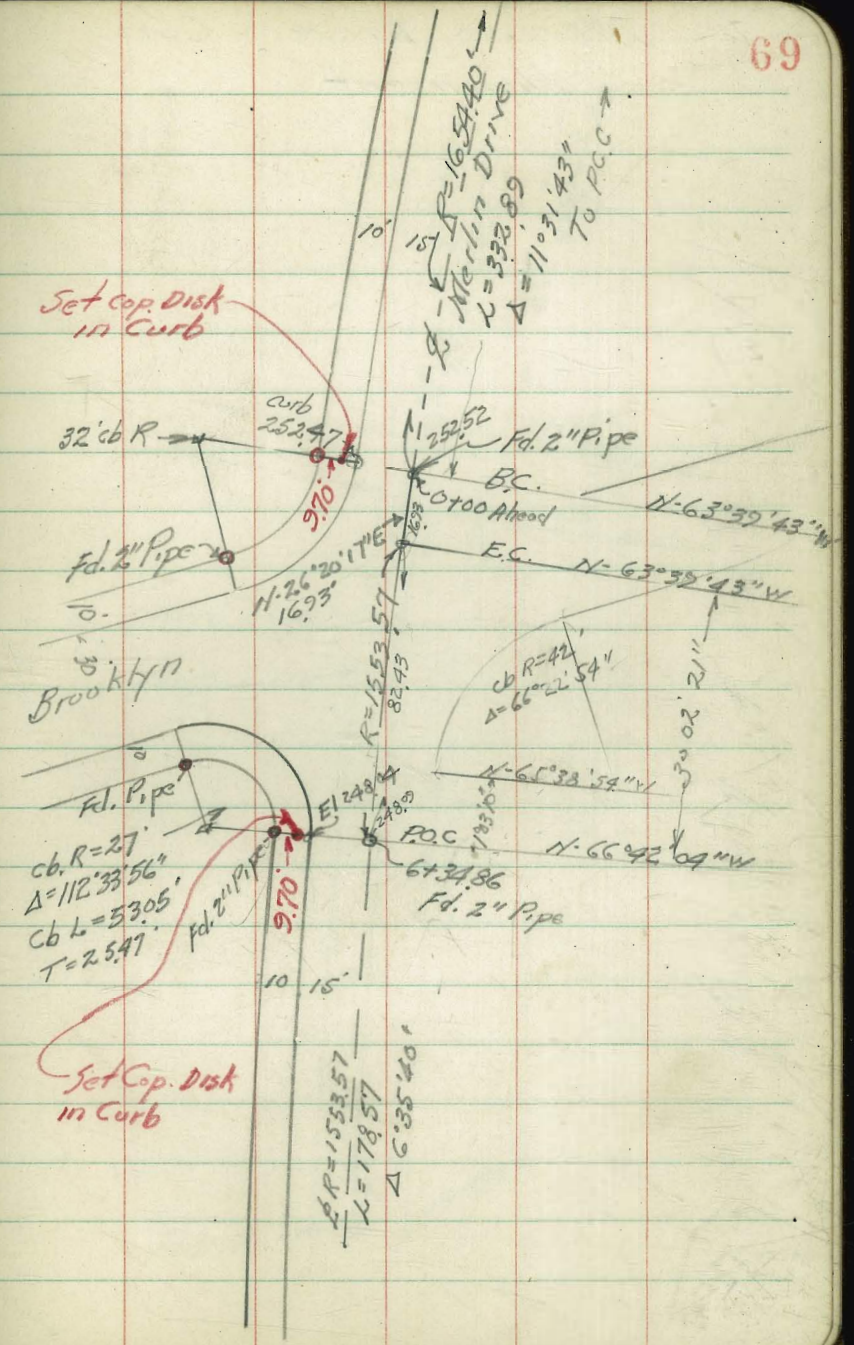


Merlin Drive — Curbs
Alignment

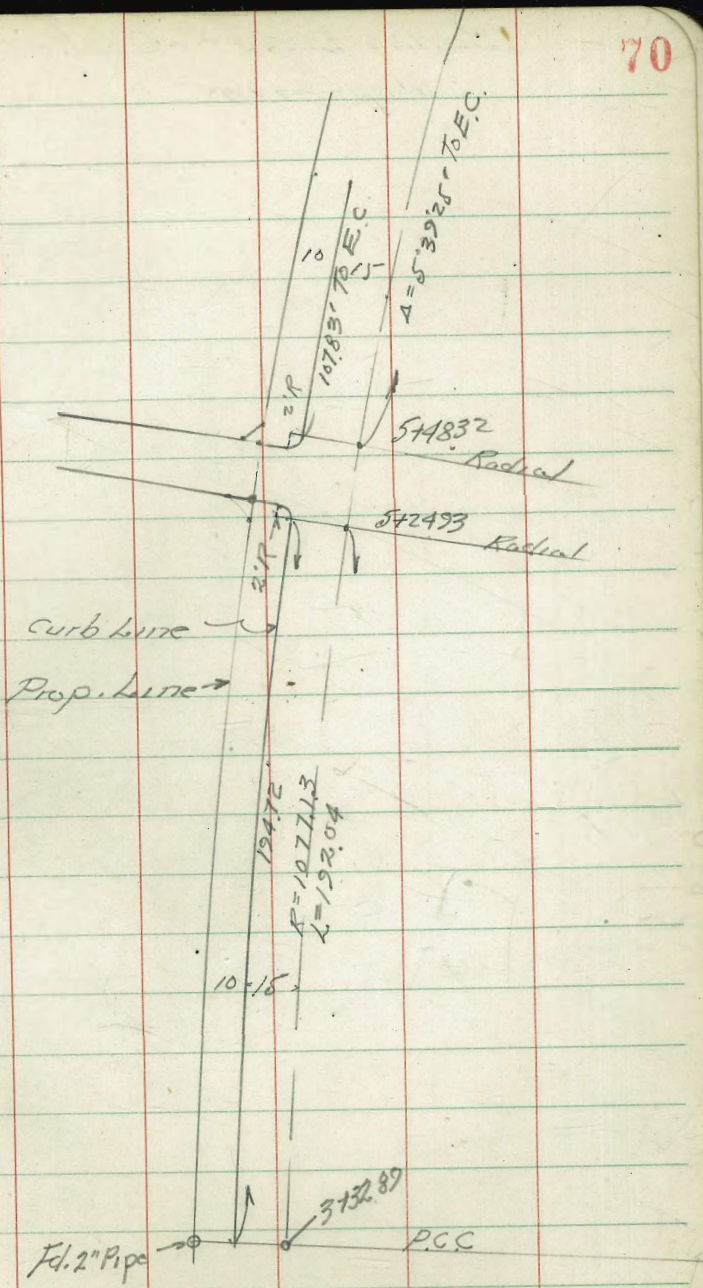
Grades P-57-65



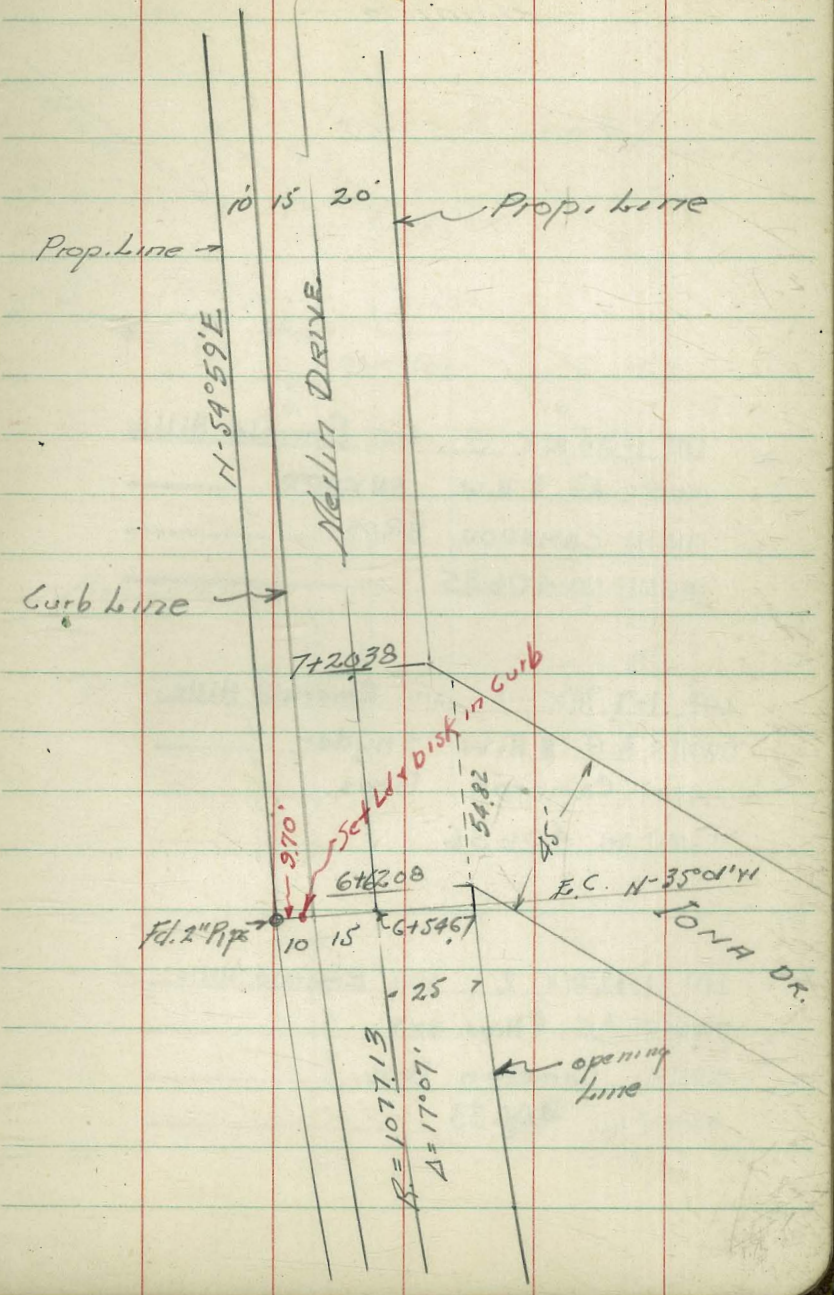
Merlin Drive - Curbs - Alignment



Merbis Drive ~ Curbs
Alignment



Merlin Drive ~ Curbs
Alignment



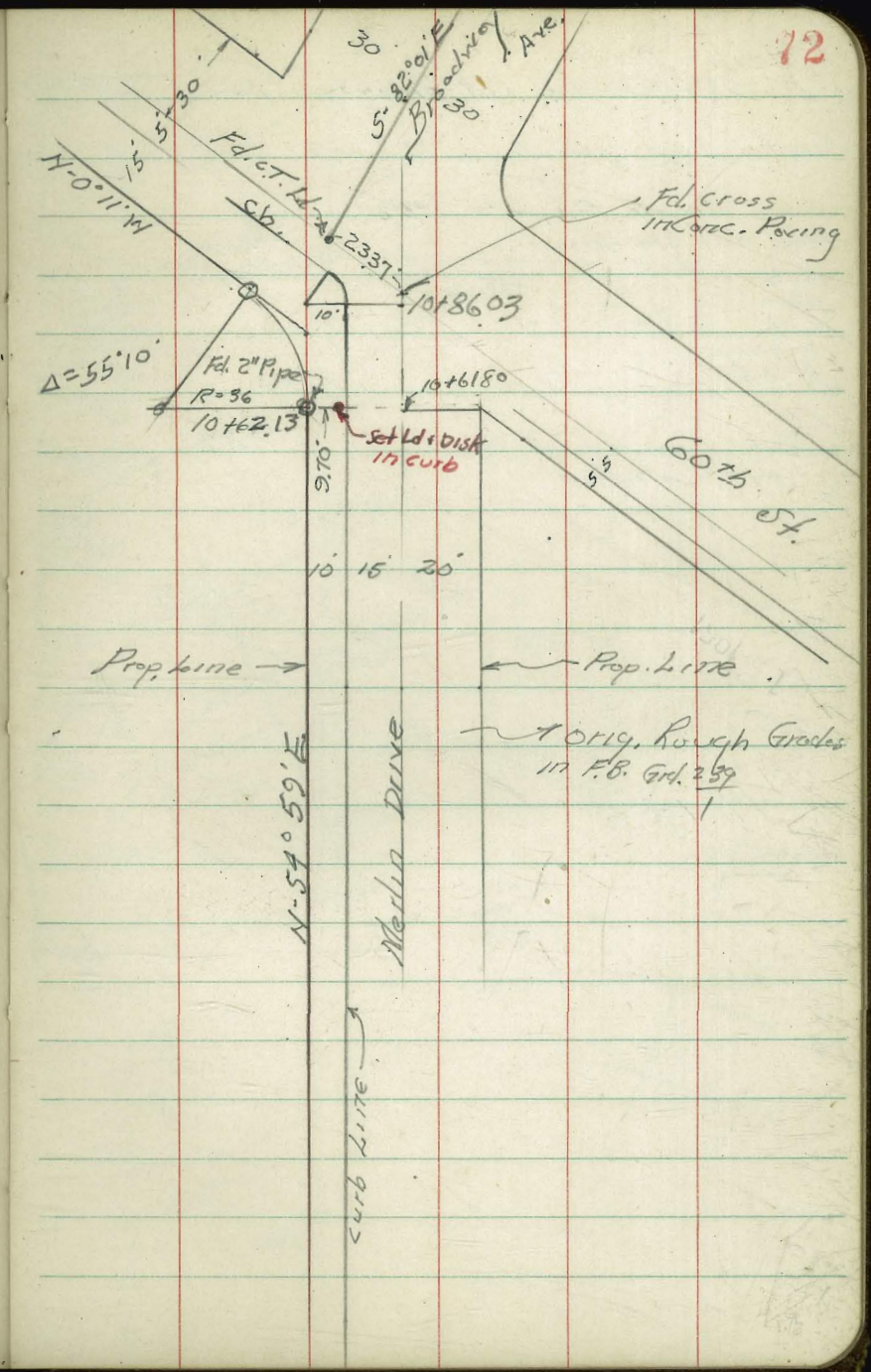
Merlin Drive ~ Curb Alignment

Grades P-57-65

LOT 1-20 BLK. 3 ADD. Emerald Hills
OWNER A.G. & H.W. SNYDER
CONTR. CAMERON BROS.
PERMIT NO. 40635

LOT 1-7 BLK. 1 ADD. Emerald Hills
OWNER A.G. & H.W. Snyder
CONTR. Cameron Bros.
PERMIT NO. 40636

LOT 1-12 BLK. 2 ADD. Emerald Hills
OWNER A.G. & H.W. SNY
CONTR. Cameron Bros.
PERMIT NO. 40633



INDEXED
AUG 8 1951

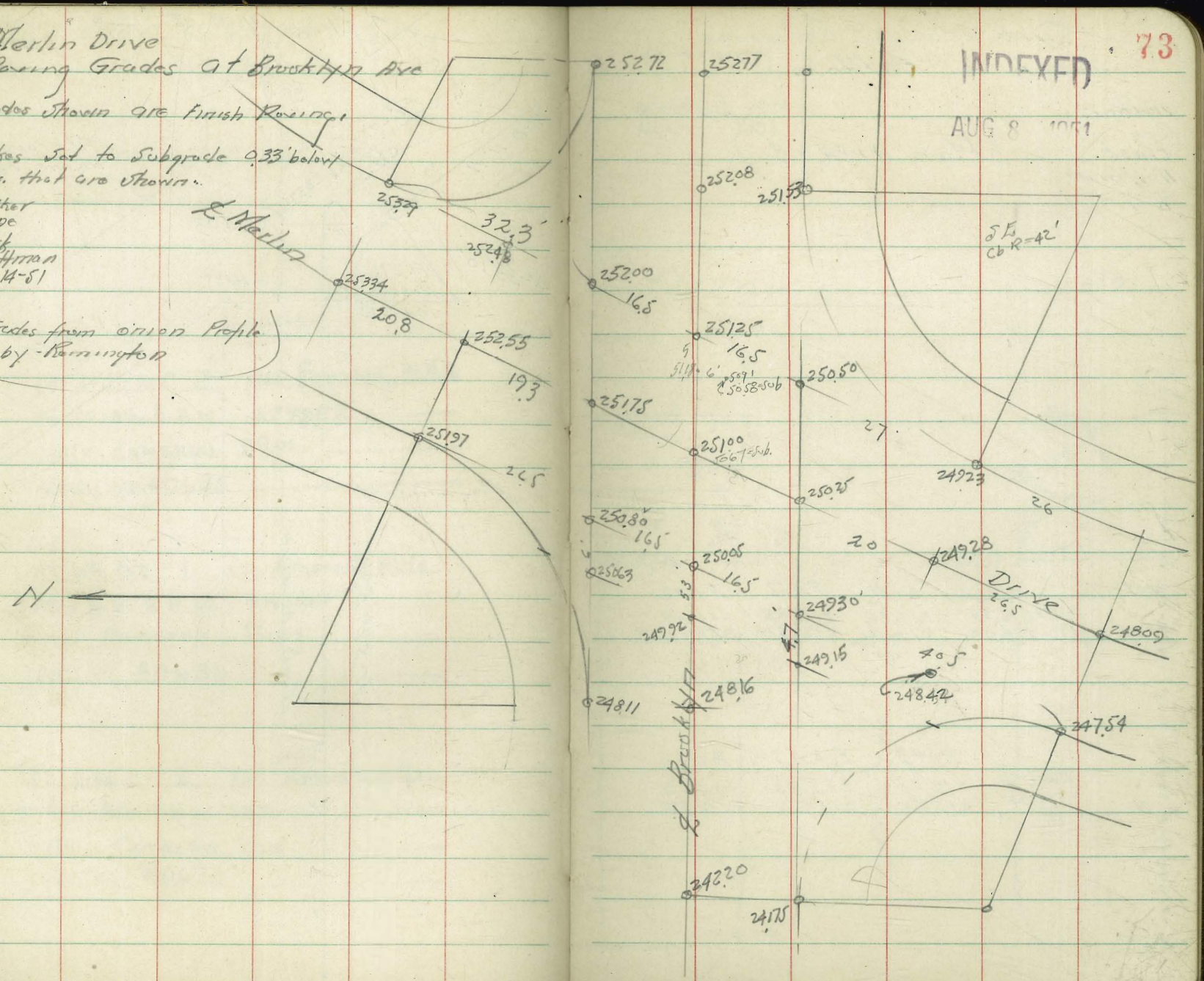
Merlin Drive
Paving Grades at Brooklyn Ave

Grades shown are Finish Paving.

Stakes set to Subgrade 0.33' below Elev. that are shown.

Mother
pope
clark
Huffman
6-14-51

(Grades from onion Profile by Remington)



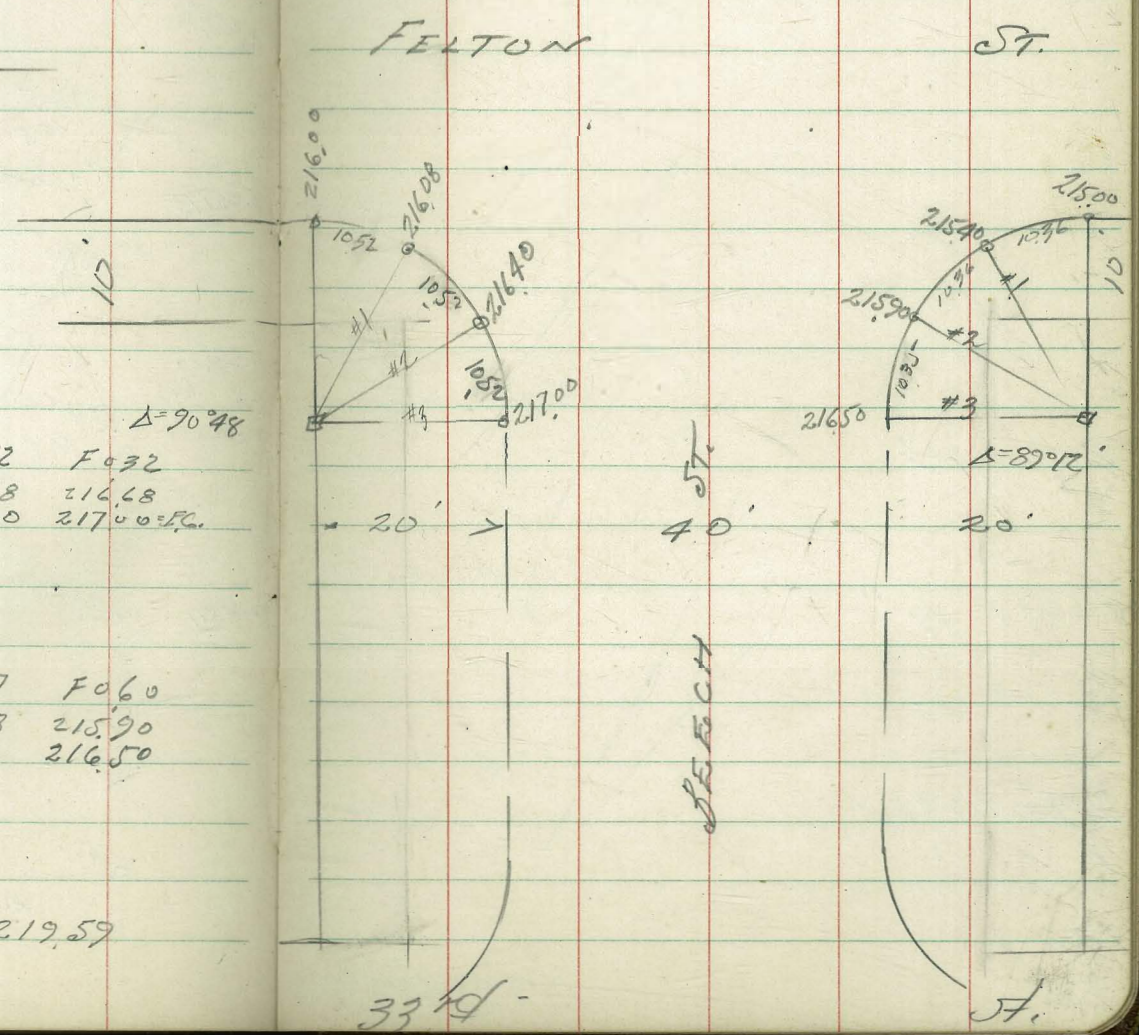
Curb Grades - Returns
Beech & Felton

Walker
Pope
Clark
Huffman
8-7-51

WO 20008

(Plan 4184-B)

INDEXED
AUG 8 1951



		C 0.11	F 0.52	F 0.32
NW	Exist=215.93 B.C ~~216.00~~	216.16 216.~~08~~ .05	215.88 216.40	216.68 217.00=F.C.

		F 0.43	F 0.87	F 0.60
SW	Exist. ⌀ =215.00	214.97 215.40	215.03 215.90	215.90 216.50

BM 219.59

Roberts
cote
Moore
Patten
Aug 22, 1951
W.B. 20007

Grade Stakes Curb Lots 3 & 4 Blk 9
Seaman & Choate ADD.
Profile 1567 T.R. 9 pg 19

214.01

214.98 Stake

Nly End Lot 3

215.19 Stake

Lot 3 & 4

Blk

Sly End Lot 4 Exist

214.96

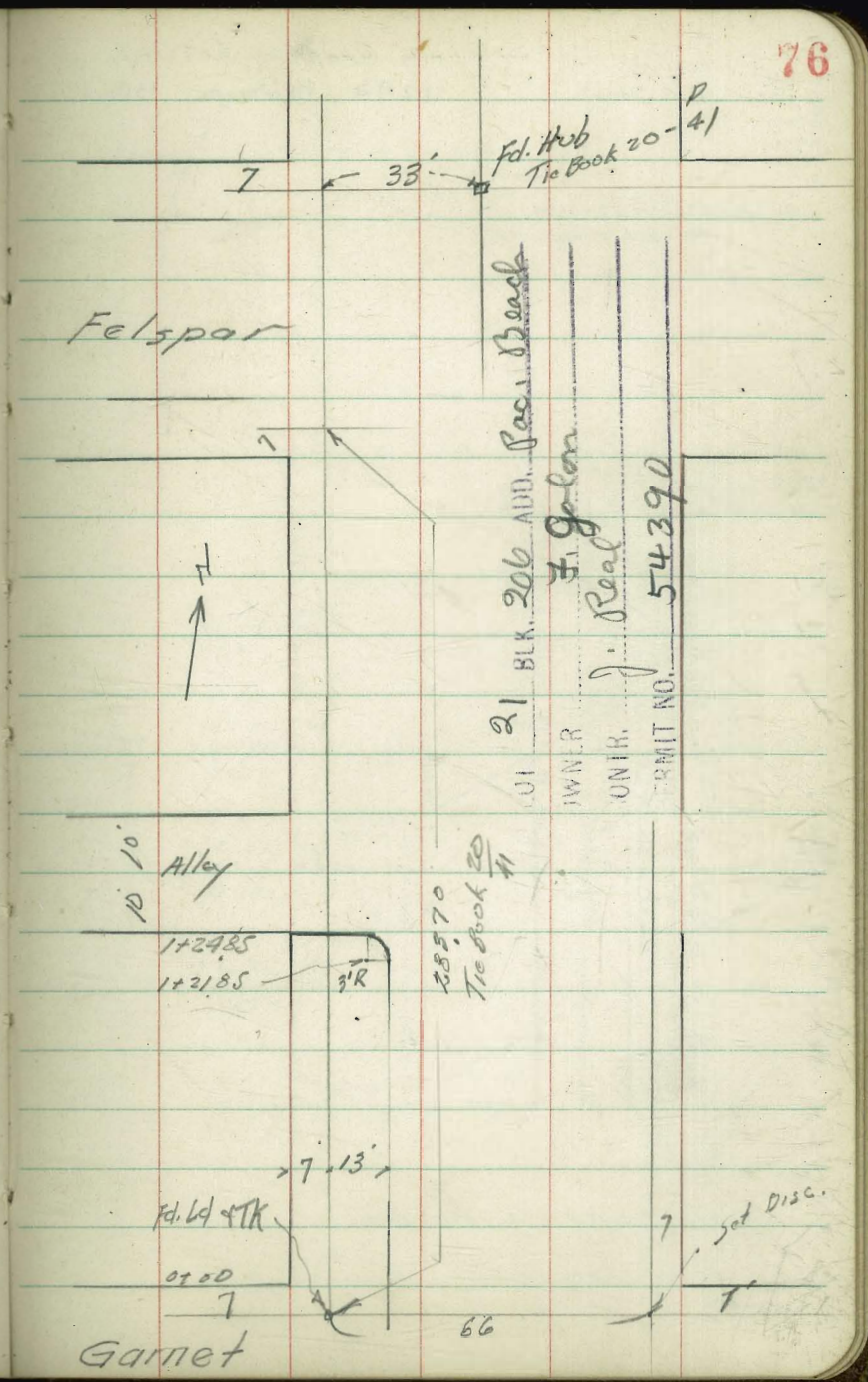
BM 219.49 NE BP 28th & Cedar

CURB GRADES - NOYES St.
Between Ingraham & Felspar

Walker
Huffman
Kellio
10-3-51

INDEXED
OCT 4 1951

	Fill To Walk E. side	Elev. E. side Walk	Elev. Stakes	Elev. Curb	Fill To Top cb.
Prop line at Alley		61	63.43	64.05	F0.62
	E.C. 3'R	63.97	63.21	63.88	F0.67
1+21.85 = B.C. 3'R	F0.69	63.90	63.21	63.81	F0.60
1+00	F0.74	63.62	62.88	63.48	F0.60
0+75	F0.53	63.29	62.76	63.11	F0.35
0+50	F0.60	62.96	62.36	62.74	F0.38
0+25	F0.62	62.63	62.01	62.37	F0.36
0+00 = NL Garnet		62.27 Exist Walk	61.76	62.00 61.90 = Exist cb.	F0.24
B.M. NW. B.P. Garnet & Noyes office Record				62.02	



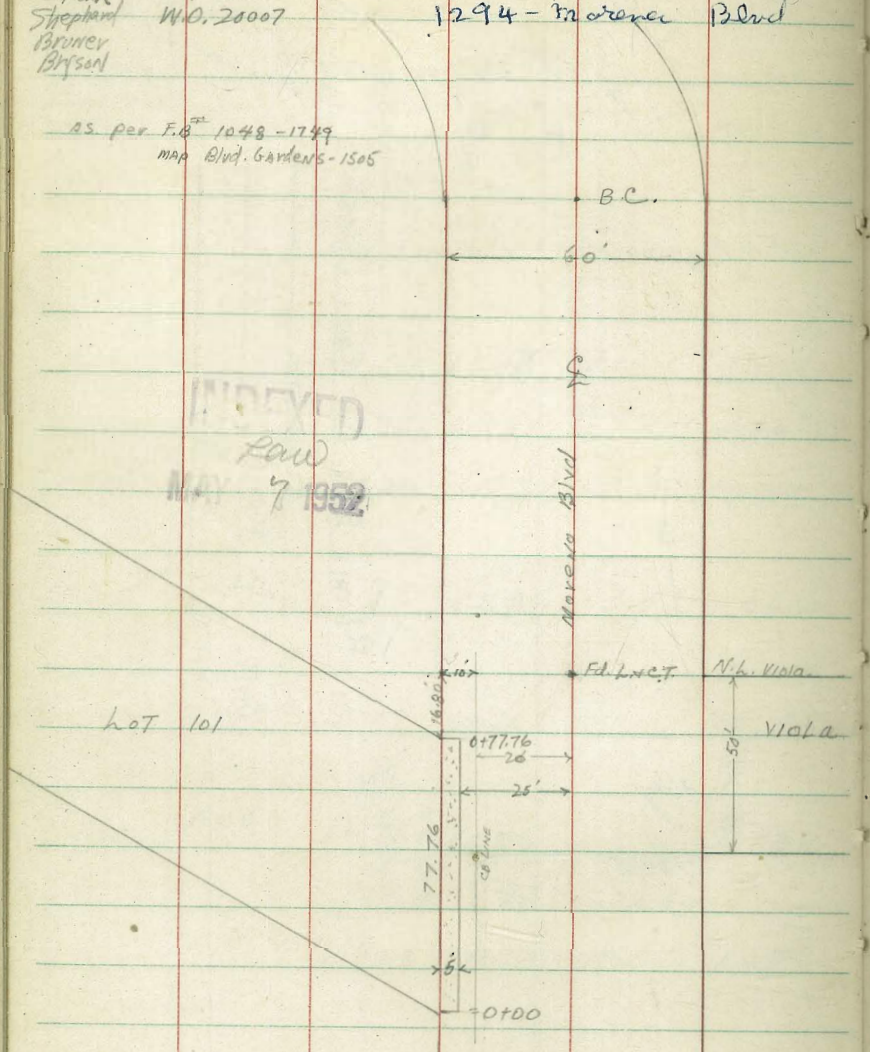
LOT 21 BLK. 206 ADD. Pac. Beach
OWNER F. Galan
CONTR. J. Real
PERMIT NO. 54390

Clark
Shephard
Brunner
Bryson

5-1-52
W.O. 20007

Sidewalk Grades LOT 101
1294 - Morena Blvd

AS per F.B. 1048 - 1749
MAP Blvd. Gardens - 1505



RECEIVED
LAW
MAY 7 1952

Grades set for inside edge walk

Blvd. Gardens

77

Check: 20.98 = 21.00 = Elev Hub Sta. 14+03.94
℄ Viola + 17' W℄ Morena
Blvd. AS per F.B. 1791-28

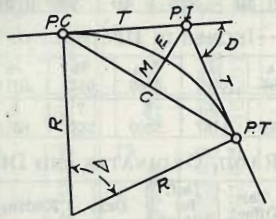
LOT 101 BLK. — ADD. Blvd. Gardens
OWNER C. E. Briendenne
JOINER R. O. Phillips
PERMIT NO. 72469

0+77.76	21.11 Rod 21.32 Elev. F 0.21	
0+61.16	21.30 Rod 21.24 Elev. C 0.06	
0+44.56	21.16 Rod 21.15 Elev. C 0.01	
0+22.28	20.92 Rod 21.05 Elev. F 0.13	
0+00 =	20.93 Rod 20.94 Elev Frontedge WALK F 0.01	

Direct elev. Rod: 18.80 = ℄ ☐ Dorcas
℄ Morena Blvd.

DIETZGEN'S RAILROAD CURVE AND REDUCTION TABLES

Copyright, 1914, by Eugene Dietzgen Co., New York City



CURVE FORMULAS

Radius=R=$\frac{50}{\sin. D/2}$ (1) Degree of Curve=D and sin. $\frac{D}{2}=\frac{50}{R}$ (2)

Tangent=T=Rtan$\frac{\triangle}{2}$ (3) Length of Curve=L=100$\frac{\triangle}{D}$ (4)

Middle ordinate=M=R(1—cos. $\frac{\triangle}{2}$) (5)=Rvers $\frac{\triangle}{2}$ (6)

External=E=Ttan$\frac{\triangle}{4}$-(7)=R ÷ cos.$\frac{\triangle}{2}$—R(8)=Rexsec$\frac{\triangle}{2}$(9)

Long Chord=C=2 R sin.$\frac{\triangle}{2}$ (10) △=Central Angle

EXPLANATION AND USE OF TABLES

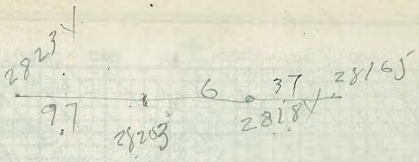
Stations.—Given P. I.=Sta. 161+60.35 to find Sta. of P. C. and P. T. △=62° 10′ D=8° 20′. From Table IV for 1° curve T=3454.1 and ÷8⅓=414.49 ft. From Table V correction=.36 or T=414.85 ft. P. C.=Sta. P.I.—T=157 +45.50. Also from (4) L=746.00 and P. T.=Sta. P. C.+L=164+91.50.

Offsets.—Tangent offsets vary (approximately) directly with D and with square of the distance. Thus tangent offset for Sta. 158 on above curve is 2.16 ft. found as follows. From Table III tangent offset for 100 ft.=7.27 ft. Distance=158—Sta. P. C.=54.50, hence offset=7.27 $(54.50 \div 100)^2$=2.16 ft. Also square of any distance divided by twice the radius equals (approximately) the distance from tangent to curve. Thus $(54.50)^2 \div (2 \times 688.26)$=2.16 ft.

Deflections.—Deflection angle=½ D for 100 ft., ¼ D for 50 ft., etc. For c ft.=(in minutes) .3 x C x D° or=defl. for 1 ft. from Table III x C. For Sta. 158 of above curve=.3 x 54.5 x 8⅓=136.2′ or 2° 16.2′, or=2.50 x 54.5=136.2′ from Table III. For Sta. 159 deflection angle=2° 16.2′ +8° 20′ ÷2=6° 26.2′, etc.

Externals.—May be found in similar manner to tangents. Thus E for curve above is 115.37. For from Table IV for 1° curve E=960.6 for 8° 20′=960.6 ÷8⅓=115.27 and from Table V correction=.10 or E=115.37 ft. Or suppose △=32° and E is measured and found to be 42 ft. What is D? From Table IV E=230.9 and ÷42=5.5 or D=5° 30′.

28203



DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1½

For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	26.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be 41.9+(20—16)÷2 or 2 ft. added to 41.9 = 43.9. For slopes of 1 on 1 see inside of front cover.

MADE IN U.S.A.