PAVING
Steiner Street
University Ave.
74
Sisson East

F.B. 575

KEUFFEL & ESSER CO.

DRAWING MATERIALS
AND
SURVEYING INSTRUMENTS.

NEW YORK.

CHICAGO. SAN FRANCISCO. ST. LOUIS.

TABLES FOR EXCAVATIONS AND EMBANKMENTS.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.
ROADWAY 18 FEET WIDE. SIDE SLOPES 1 TO 1.
FOR SINGLE TRACK EXCAVATION.

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

Calculated by Julien A. Hall, M. Am. Soc. C. E.

(74)

ENGINEERING DEPARTMENT.
CITY OF EAST SAN DIEGO,
CALIFORNIA.

Indexed to date Feb. 6, 1918
Card " " " Mar 28, 1918.
" " " " Aug 20, 1918.

INDEX

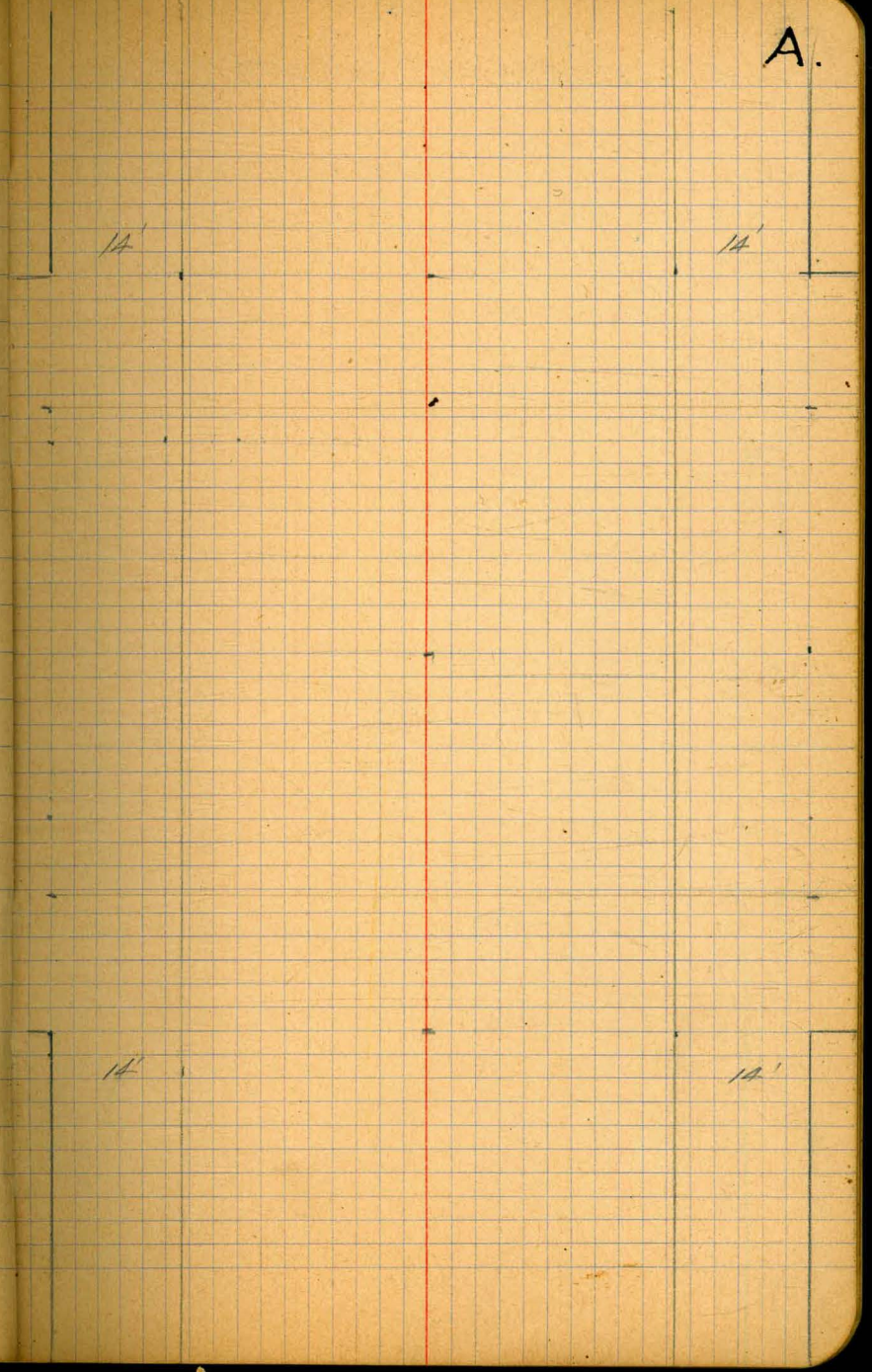
Book 74

INDEX

A

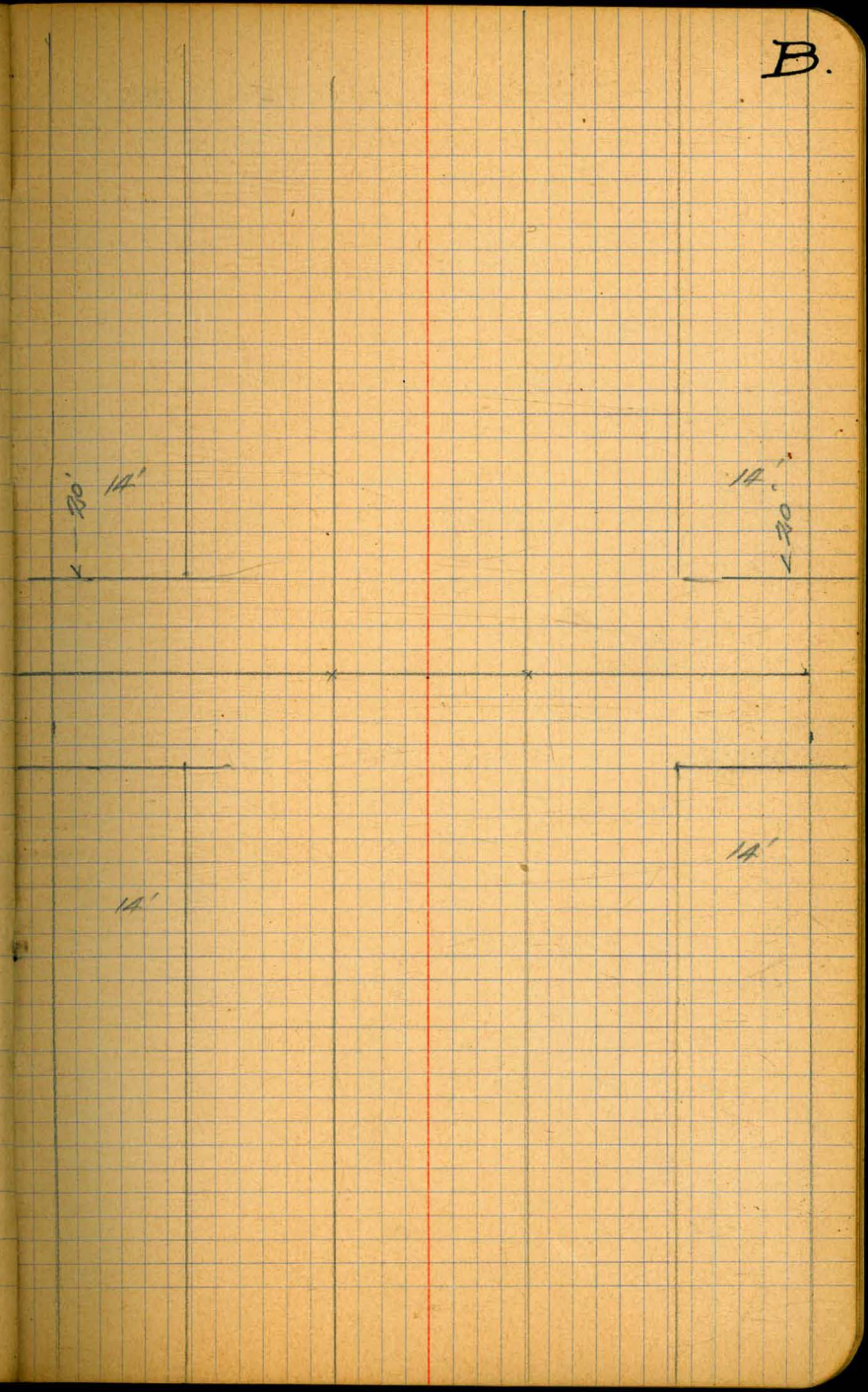
Intersection Sisson

A.



Alley bet Sissonge Hugo

B.



Sta	+	H I	−	Elev	Notes From Book Page:
B M North				359.78	63 - 22
Top Curb	4.59	364.37			
"					
"					
"					
"					
B M				359.10	63 - 23
Top Curb	4.75	363.85			
" "					
" "					
" "					
Top Curb NE Alley cor Fairmount Fairly		363.85	4.14	359.71	
N.W. " "			4.12	359.73	
SE " "			5.05	358.80	
S W " "			4.92	358.93	
Top Curb NE Alley cor VAN DYKE Fairly			4.97	358.88	
NW " "			5.19	358.66	
SE " "			5.37	358.48	
SW " "			5.48	358.37	

May 30-1913
Ford
Hyatt
Graf

1

West East

Brass Plug N.W. Fairmount Steiner

4.53 359.84 — 4.57 359.80 — 4.68 359.69 — 4.57 359.83

Steiner — Fairmount

5.38 358.99 — 5.38 358.99 — 5.86 358.51 — 5.86 358.51

Brass Plug NW Fairly Steiner

4.77 359.08 — 4.87 358.98 — 4.77 359.08 — 4.78 359.07

Steiner — Fairly

5.18 358.67 — 4.96 358.89 — 5.02 358.83 — 4.87 358.98

Sta	+	HI	−	Elev	
BM				358.15	63-23
Top Curb	538	363.53			
"					
"					
"					
"					
NE Alley bet Van Dyke Copeland		363.53	582	357.71	
NW " " "			593	357.60	
SE " "			628	357.25	
SW " "			638	357.15	
BM				356.77	63-23
Top Curb	463	361.40			
"					
"					
"					
Top Curb Copeland SE Alley bet Stockton			654	354.86	

West — East

Brass Plug NW Van Dyke ℄ Steiner

	5.39		4.71
	358.14		358.82
5.34			4.76
358.19			358.77

Steiner — Van Dyke

5.74			5.35
357.79			358.18
	5.64		5.30
	357.89		358.23

Brass Plug NW Copeland + Steiner

	4.63		4.33
	356.77		357.07
4.72			4.33
356.68			357.07

Steiner — Copeland

5.01			4.68
356.39			356.72
	5.03		4.74
	356.37		356.66

BM Top Curb SW	4.84	357.75		352.91	63-23
"					
Top Inlet Cover SW			5.05	352.70	
Top Inlet Cover NW			4.81	352.94	
Top Clean out Cover NE			4.51	353.24	
Top Inlet Cover NE			4.33	353.42	
Top Inlet Cover SE			4.54	353.21	
Top Clean out Cover SE			4.88	352.87	
BM Top Curb	4.49	358.53		354.04	63-23

West

Inlet 7" below
Brass plug NW Stockton & Stenner
488
352.87
Stenner

Stockton

5.19
352.56
outlet 3" below

35307
No. Rail 3 above curb NW Cor
353.07
So 15 above " " "

East

N.W. inlet 2" below
Stenner
435
353.40

4.65
353.10
outlet 3' below

353.50
No Rail .1 above NE Curb
353.60
do Rail .2 " " " "

Top pipe 12' below grade

Brass Plug NW Conklin & Stenner
Inlet level
4.50
354.03
Stenner

4.69
353.84
Inlet level

4.76
353.77
outlet level

Conklin

506
353.47
outlet level

Sta	+	HI	−	Elev	
B.M				352.00	63-23
Top Curb	487	356.87			
"					
"					
"					
Top curb SL Steiner 90 ft W of W.L. Hugo			6.17	350.70	
Top Curb NL Steiner 65 ft W of W.L Hugo			5.54	351.33	
Top Curb CL Alley SW Alley 60ft Hugo			4.19	352.68	

BM #63 Plug NW Hugo Steiner
487
351.93
494
351.93

Steiner

To Line out 538
351.47
5.91
351.46

Hugo

No Curb in

5.05
351.82
5.00
351.87

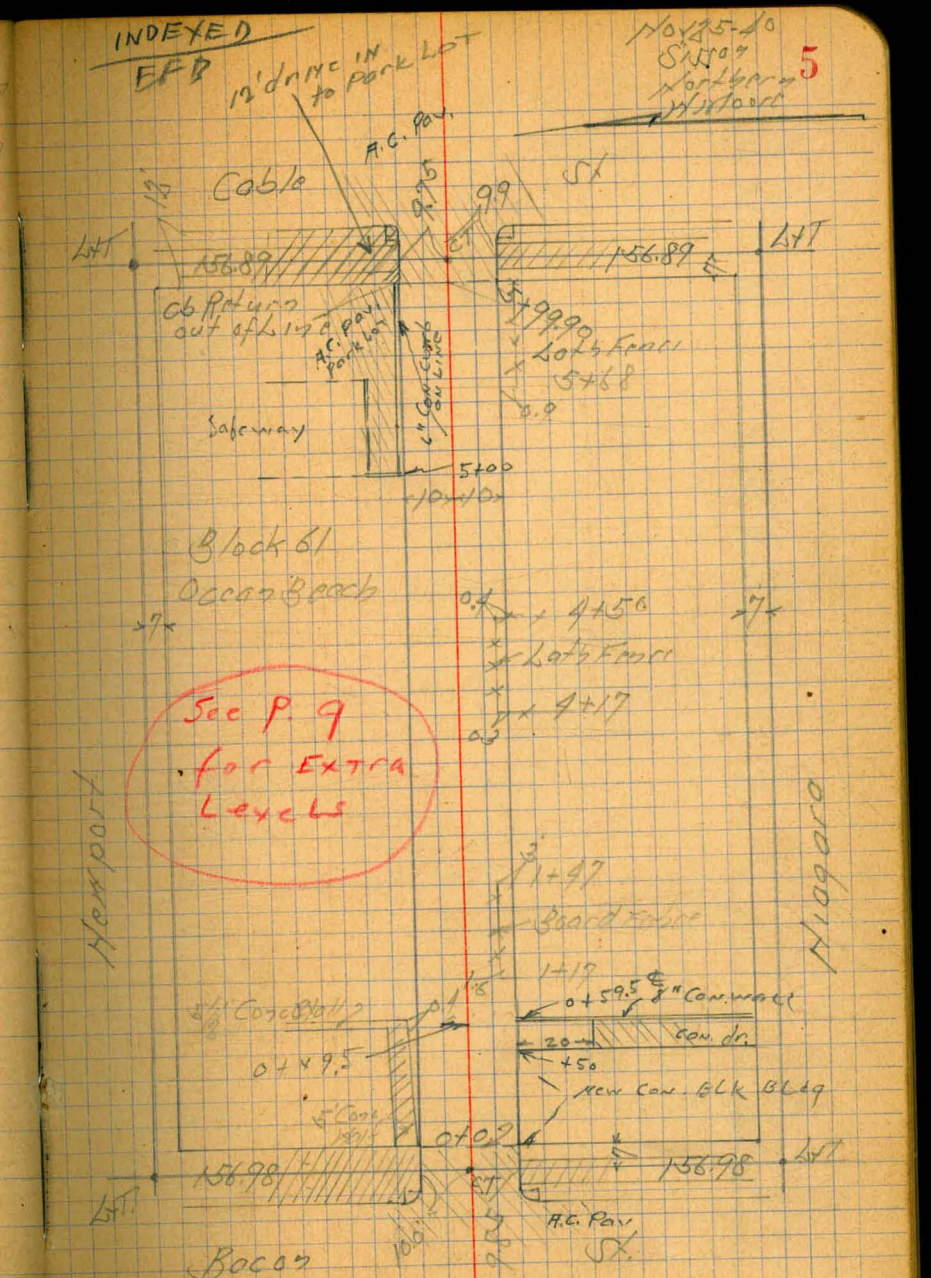
INDEXED
EFB

5

Cross Section Alley Block 61 Occan Beach From Bacon to Cable Between Newport & Niagara

BM	6.49	17.54	11.05	NEBP Newport Bacon
	0+12 = EC Bacon			
N on Pavmt		5.78	11.82	
¼ " "		5.70	11.84	
S " "		5.66	11.88	
	0+10 = EL Bacon			
S Top Cb		4.77	12.77	
Gutter on Pavmt		4.89	12.65	
¼ " "		5.30	12.24	
Gutter "		4.92	12.62	
N Top Cb		4.78	12.76	
	0+35			
-0.2 - St Conc Walk		4.70	12.84 ✓	
N		4.9	12.6	
¼		4.8	12.7	
+8		4.5	13.0	
S		4.1	13.4	
	0+49.5			
-10		2.8	14.7	
-8		3.0	14.5	
S		3.4	14.3	
¼		4.0	13.5	
½		4.4	13.1	
N		4.7	12.8	
+0.4 - St Conc Walk		4.70	12.84 ✓	
+0.4 Top 5½' Conc Walk		3.23	14.31 ✓	

Redt Plot Profile 2257
11/26-40 C.O.H.



17.54

0+50.5

N+0.2	=Out let 4" Galv Pipe	4.63	12.91	✓

0+51.5

-1.7	=S.W Cor Board House	3.3	14.2	✓
N		3.5	14.0	
+3		4.4	13.1	
℄		4.3	13.2	
+7		3.9	13.6	
S		3.2	14.3	
+10		2.8	14.7	

0+65

S -5.5	=℄ Do Garage Dirt Floor	2.6	14.9	✓

0+72

S		2.6	14.9	
℄		3.3	14.2	
N		3.1	14.4	
+1.2	=S.I Cor Board House	3.0	14.5	✓

0+76

S -5.1	Power Pole			✓

0+92

S -5.8	=℄ Garage Dirt Floor	2.5	15.0	✓

0+98

N -8.0	=℄ Garage Dirt Floor	2.8	14.7	✓

1+0

N		3.8	14.7	

17.54

℄		1.5	16.0	
S		2.3	15.2	

1+07

S -5.9	=℄ Garage Dirt Floor	2.2	15.3	✓
N	5.06	20.55	2.05	15.49

1+50

S		4.8	15.8	
℄		5.1	15.5	
N		5.1	15.5	
+10		5.3	15.3	

1+61

N -10.3	=℄ 3.4 Conc Door Step Floor	5.65	14.90	✓

1+72

S+2.8	=℄ 2.4 Conc Walk	4.96	15.59	✓

1+86

S -5.0	=℄ Do Garage Dirt Floor	4.7	15.9	✓

1+89

N -10.3	=℄ 3.4 Conc Door Step Floor	5.59	14.96	✓

2+0

+10		5.3	15.3	
N		5.5	15.1	
℄		5.3	15.3	
S		4.8	15.8	

2+61

S+3.3	=S.I Power Pole			✓

20.55			
2+10			
N - 4.5 = ℄ Garage Dirt Floor	5.3	15.3	✓
2+23			
N = Sly Tree Stump			
2+44			
S - 4.4 = ℄ Garage Dirt Floor	4.9	15.7	✓
2+50			
S	4.7	15.9	
℄	5.0	15.6	
N	5.0	15.6	
+1.5 = SE Cor Shed	5.0	15.6	
2+59			
S - 4.8 = ℄ Do Garage D.F	4.7	15.9	✓
2+81			
-4.9 = NW Do Garage Conc Floor	4.47	16.08	✓
N	4.5	16.1	
℄ (Now Con. floor and = Apron)	4.5	16.1	
S	4.3	16.3	
+5.5 = ℄ Garage Dirt Floor	4.2	16.4	✓
2+87			
S - 6' = ℄ 1.7 Conc Walk	4.13	16.42	✓
2+99			
N - 4.9 = E ℄ Do Garage C.F.	4.46	16.09	✓
3+0			
-10	4.3	16.3	

20.55			
S	4.4	16.2	
℄ = NW H. on Rim	4.41	16.14	✓
N	4.4	16.2	
+10	4.3	16.3	
3+25			
S +0.9 = Sly Power Pole			✓
3+29			
N - 0.5 = NW Conc Floor	4.07	16.48	✓
N - 4.9 = NW Do Garage Conc Floor	3.92	16.63	✓
3+35			
S +1.8 = Sly Tel Pole			✓
3+45.5			
N - 0.5 = E ℄ Conc Apron	4.01	16.54	✓
N - 4.9 = E ℄ Do Garage C.F	3.90	16.65	✓
3+50			
-10	4.2	16.4	
N	4.2	16.4	
℄	4.5	16.1	
S	4.2	16.4	
+10	4.1	16.5	
3+82			
S - 12.6 = ℄ Garage Conc Floor	3.57	16.98	✓
4+0			
-10	3.7	16.9	
S	4.1	16.5	

	20.55		
℄		4.1	16.5
℄		4.0	16.6
H		4.3	16.3
4+10			
	4+10.5		
S+2.5=℄ & 2-2 Conc Rib Drive		3.54	17.01 ✓
S on " " "		3.50	17.05
TP	6.25 22.77	4.03	16.52
	4+50		
-10		5.7	17.1
H		5.8	17.0
℄		5.9	16.9
S		5.7	17.1
	4+67		
S+0.9=S/y Power Pole			✓
	5+0		
-3.8 = H/y 3 Car Garage D.F.		5.2	17.6 ✓
S		5.3	17.5
℄		5.5	17.3
H		5.4	17.4
	5+29		
S-4.1 = F/y 3 Car Garage D.F.		5.0	17.8 ✓
	5+43		
S-4.2 = H/y Do Garage D.F.		4.6	18.2 ✓

	22.77		
	5+50		
-10		5.2	17.6
H		4.9	17.9
℄		4.8	18.0
S		4.5	18.3
	5+64		
S-4.3=F/y Do Garage D.F.		4.7	18.1 ✓
	5+75		
S		4.5	18.3
℄		4.8	18.0
H		4.8	18.0
+10		5.4	17.4
	5+99.9 = H.L. Cable		
H Top Cb		4.77	18.00
Gutter on Paving		5.09	17.68
℄ " "		5.49	17.28
Gutter " "		5.11	17.66
S Top Cb		4.76	18.01
	6+11.9 = H Cb Cable		
S on Paving		5.44	17.33
℄ " "		5.61	17.16
H " "		5.61	17.16
+10 " "		5.64	17.13
BM		6.95	16.02 N.E.B.P. Hampton Cable 16.01

Re-xsec alley Blk. 61 Ocean Beach
Sketch P.5

NEBR	7.11	18.1 L		11.05	Newport Bacon
T.P.	3.44	18.84	2.76	15.40	
	00 - 17 = E CC Line Bacon				
N CC			6.38	12.46	
N Pav			6.94	11.90	
C "			6.95	11.89	
S "			6.91	11.93	
S CC			6.19	12.65	
	0+00 = E.L. Bacon St				
S CC			5.99	12.85	
S Pav			6.15	12.69	
C "			6.60	12.24	
N "			6.72	12.62	
N CC			6.03	12.81	
	0+25				
N - 0.2 Con. walk			5.96	12.88	
N. ground			5.7	13.1	
C -			6.0	12.8	
S			5.7	13.4	
	0+49.5 See This!				Floods here
N - 0.4 Con. walk			5.95	12.89	
N Top wood headers			5.4	13.4	

C. Moore
Sam Merriman Eyer
Dec 99
5-10-46.

18.84

Indexed
C.S.K.

9

	0+50		
S - 13' door sill		5.27	13.57	Roan Bldg
S		5.0	13.8	
C		5.2	13.64	
N		5.6	13.24	
10.4 Top CC Con. wall		4.49	14.35	
	0+50.5			
N FL. 4" Iron drain		5.84	13.00	
	0+54.6			
S - 20 ℄ garage Con. drive		5.43	13.41	waiting for grade on S.S. alley
	0+60			
N - 1.4 ℄ 21' Bk dwelling - ℄ 10 wide wood Porch .8 IN				
	0+59.5 ℄ 8" Con wall			
S on Line		2.83	16.01	Top wall
	0+76			
N		4.3	14.54	
+2		5.0	13.84	
C		4.7	14.14	
+ 9.4 ℄ 14" P.P.				
S		4.0	14.84	
	0+93			
S - 5.7 Sm. gar. dirt		3.9	14.94	
	0+98			
N - 7.8 Sm. gar. dirt		4.1	14.74	

18.84

	1+00		
S		3.6	15.24
C		4.3	14.54
N		4.4	14.44
	1+07		
S-6	Sin gar dirt	3.5	15.34
	1+11		
S-6	Beg. Picket fence		
	1+17		
S+0.9	angle picket fence		
	1+44		
N-4.3	S. edge CMC Brick incinerator		
	1+45		
S-0.5	end picket fence		
S+3.0	beg. Bd. rail "		
	1+50		
N-21	W edge Block Pav. yard	4.31	14.53
N	" " "	4.40	14.44
N		4.42	14.40
C		4.0	14.84
+5		3.5	15.34
S		3.1	15.74
T.P.	4.52	19.92	3.44	15.40

19.92

10

	1+60.3		
S-3	℄ 10' Porch to house		
	1+70		
S+2.8	end Bd. rail fence		
	1+72		
S-1.3	℄ 2.5 Con walk	4.20	15.72
S		4.4	15.5
C		4.8	15.1
N	on Block Pav. yard	5.27	14.65
+17	" " "	5.20	14.72
	1+86		
S-5	E do. gar. dirt	4.0	15.9
	1+90		
S-5	beg picket fence		
	2+00		
N-15	E. edge Block paving	4.97	14.95
N		5.07	14.85
C		4.6	15.3
96		4.4	15.5
S		4.0	15.9
+5		4.1	15.8
	2+01		
S-5.5	angle fence		
S-3.0	" "		
S+4.0	℄ 12" P.P.		

1992				
	2 + 10			
N	— 4.4 E Sin gar.	4.8	15.1	dirt
	2 + 28			
N	— 0.7 sw Con Shed			
	2 + 35			
N	+ 0.8 Tree STUMP P.		COME OUT	
	2 + 37			
S	— 4.7 end Picket fence			
	2 + 44			
S	— 4.3 Sin gar dirt	4.1	15.8	
	2 + 50			
S		4.1	15.8	
C		4.3	15.6	
N		4.2	15.7	
	+ 1.8 SE Con Shed.	4.2	15.7	
	2 + 59			
S	— 5 E do. gar dirt	3.9	16.0	
	2 + 72			
S	— 5.6 E 8.5 Con. walk	3.42	16.5	
N	on Line Beg. Bd. fence			
	2 + 86			
N	end Bd. fence			
T.P.	4.67	21.07	3.52	16.40

2107			
	2 + 81		
—	4.9 W.L. do. gar.	5.00	16.07	Con. fl.
N		5.0	16.0	
C		5.1	15.9	
S		4.9	16.1	
	+ 2 E Con. apron	4.85	16.22	
	+ 5.5 E Sin. gar	4.67	16.40	Con. fl.
	2 + 87			
S	— 5.5 E 2' Con walk	4.64	16.43	
S	— 2 " Con. walk	4.81	16.26	
	3 + 00			
S		4.7	16.37	
C	IP. in MH	4.9	16.1	
N		4.8	16.2	
	2 + 99			
N	— 4.9 E L do. gar	4.94	16.13	Con fl.
	3 + 03			
S	— 1.8 W.L. Con. apron	4.39	16.68	
S	— 3.8 " " 3 Car gar	4.08	16.99	Con. fl.
	3 + 25			
S	+ 1.4 E 12" P.P.			
	3 + 29			
N	— 0.5 W.L. Con. apron	4.59	16.48	
N	— 5 " do. gar.	4.43	16.64	Con. fl.

21.07

3 + 34,5			
S – 1,9 E.L. Con apron	4,30	16.77	
S – 3,9 " 3 car gar	4,08	16.99	Con. fl.
3 + 38			
S – 2' & 8' Con. walk	4,39	16.68	
3 + 40,7			
S – 2, W.L. Con apron	4,40	16.67	
S – 3,9 " 3 car gar,	4,30	16.77	Con fl.
3 + 45,5			
N – 0,4 E.L. Con apron	4,52	16.55	
N – 4,9 " do. gar,	4,40	16.67	Con fl.
3 + 48			
N – 4,5 & 7,5 Con. walk	4,48	16.59	
3 + 55			
– 20	5,4	15.6	
N	4,9	16.1	
C	5,2	15.8	
S	4,6	16.4	
3 + 67			
S – 2,2 E.L. Con. apron	4,47	16.60	
S – 4,5 " 3 car gar.	4,27	16.80	Con fl.
3 + 81			
S – 12,5 Singan Con.	4,09	16.98	
3 + 88			
S – 12,5 Beg. Picket fence			

21.07

3 + 89			
S – 11,7 & 2' Con walk	4,15	16.92	
4 + 00			
S end picket fence	4,2	16.8	
C	4,7	16.3	
N	4,6	16.4	
+ 25	5,3	15.7	
4 + 10,5			
S + 2,2 & do. R.6 drive	4,10	16.97	R.6. 22 wide Con. 7' over all
S – 32,3 & Sin. gar.	3,63	17.44	Con fl.
4 + 17			
S + 0,3 Beg. Earth fence			
4 + 50			
– 25	4,7	16.3	
N	4,0	17.0	
C	4,4	16.6	
+ 8	4,3	16.7	
+ 9,7 End Earth fence			
S	3,8	17.2	
S + 3,4 Beg. Bd. fence			
4 + 67			
S + 1,5 & 12" P.P.			
4 + 75			
– 3	3,9	17.1	
S	3,9	17.1	
+ 3	4,1	16.9	
C	4,2	16.8	
N	3,9	17.1	
+ 25	3,5	17.5	

21.07

5+00 ON LINE

N Top C" Curbing		2.42	18.48	
N		3.8	17.2	
C		4.0	17.0	
+7		3.9	17.1	
S		3.5	17.5	
+3.8	end Lath fence	3.4	17.6	
+3.8	W.L. 3 car gar.	3.4	17.6	dirt

5+29

S -4.2	E.L. 3 car gar.	3.2	17.8	"
S		3.2	17.8	
C		3.7	17.3	
N	ground	3.5	17.5	
N Top curbing		2.72	18.30	

T.P. 4.56 22.76 2.87 18.20

5+43

S -4.2	W.L. de. gar.	4.6	18.16	dirt

5+50

N. Top curbing		4.58	18.18	
N	ground	5.0	17.7	
C		5.2	17.5	
S		4.5	18.2	
+4		4.7	18.0	

22.76

5+64

S -4.5	E.L. de. gar. also Beg. Lattice fence	4.7	18.0	dirt

5+68

S -0.9 angle in fence

5+85

S -0.9 fence

S		4.4	18.3
C		5.1	17.6
N	ground	5.0	17.7
N Top curbing		4.52	18.24

5+99.90 = W.L. Cable St.

N Top curbing	Hall	4.48	18.28	
N "	curb of alley	4.95	17.81	on drive
N	Pav	5.05	17.71	
C	"	5.48	17.28	
S	"	5.16	17.66	
S	CB	4.73	18.09	

+0.6 end fence

W CB Line Cable

S CB		5.00	17.76
S Pav.		5.42	17.34
C "		5.58	17.18
N "		5.59	17.17
N driveway	Conc.	5.44	17.32

joining

check to NEBB Newport Cable 6.75 16.01 16.01

ST

Daley

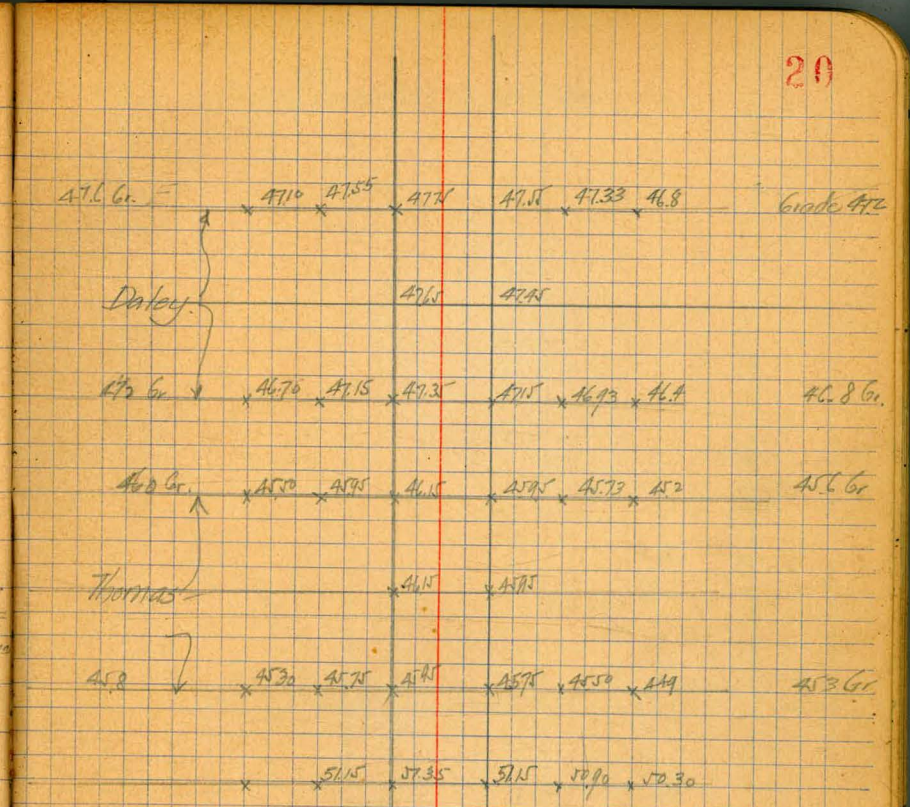
348.33 iron pipe 15 N/W of N.W. Daley

Thomas

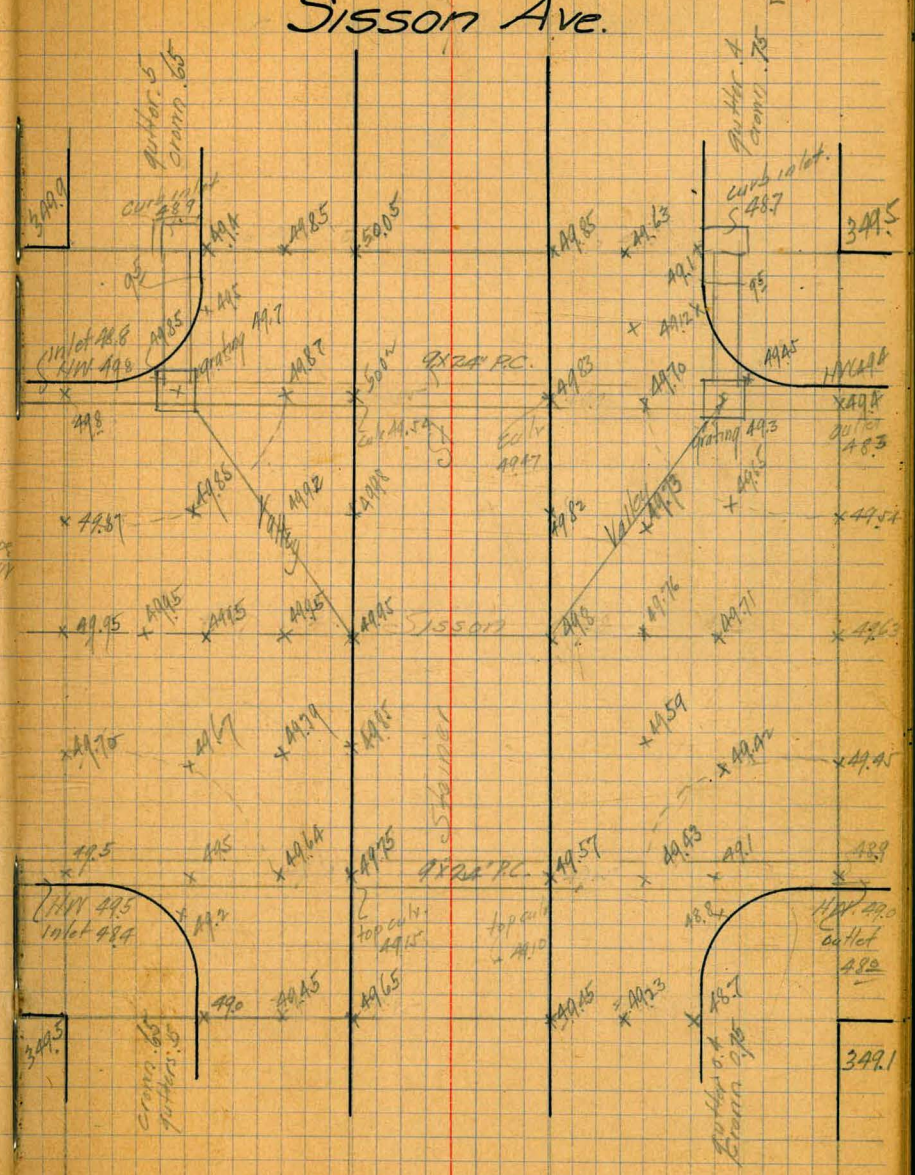
348.16 B.M. iron pipe N'NE 1 E.N.E. Thom

Reed-

351.97 B.M. plug N.W. Cor.

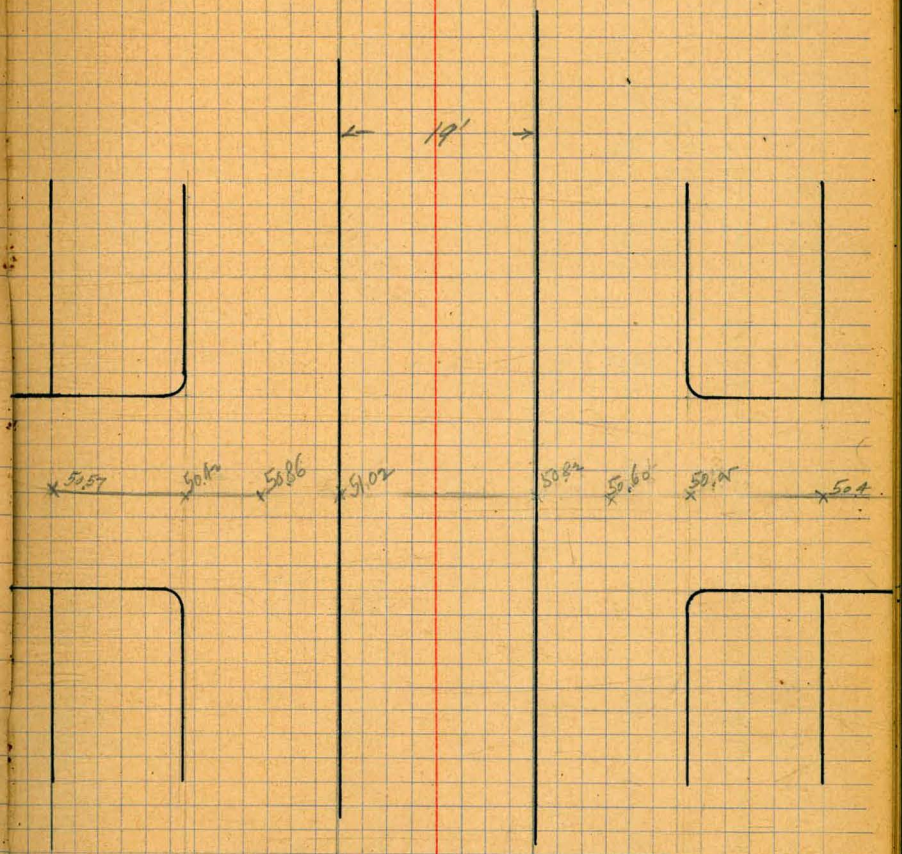


Intersection Sisson Ave



Alley between Sisson & Hugo

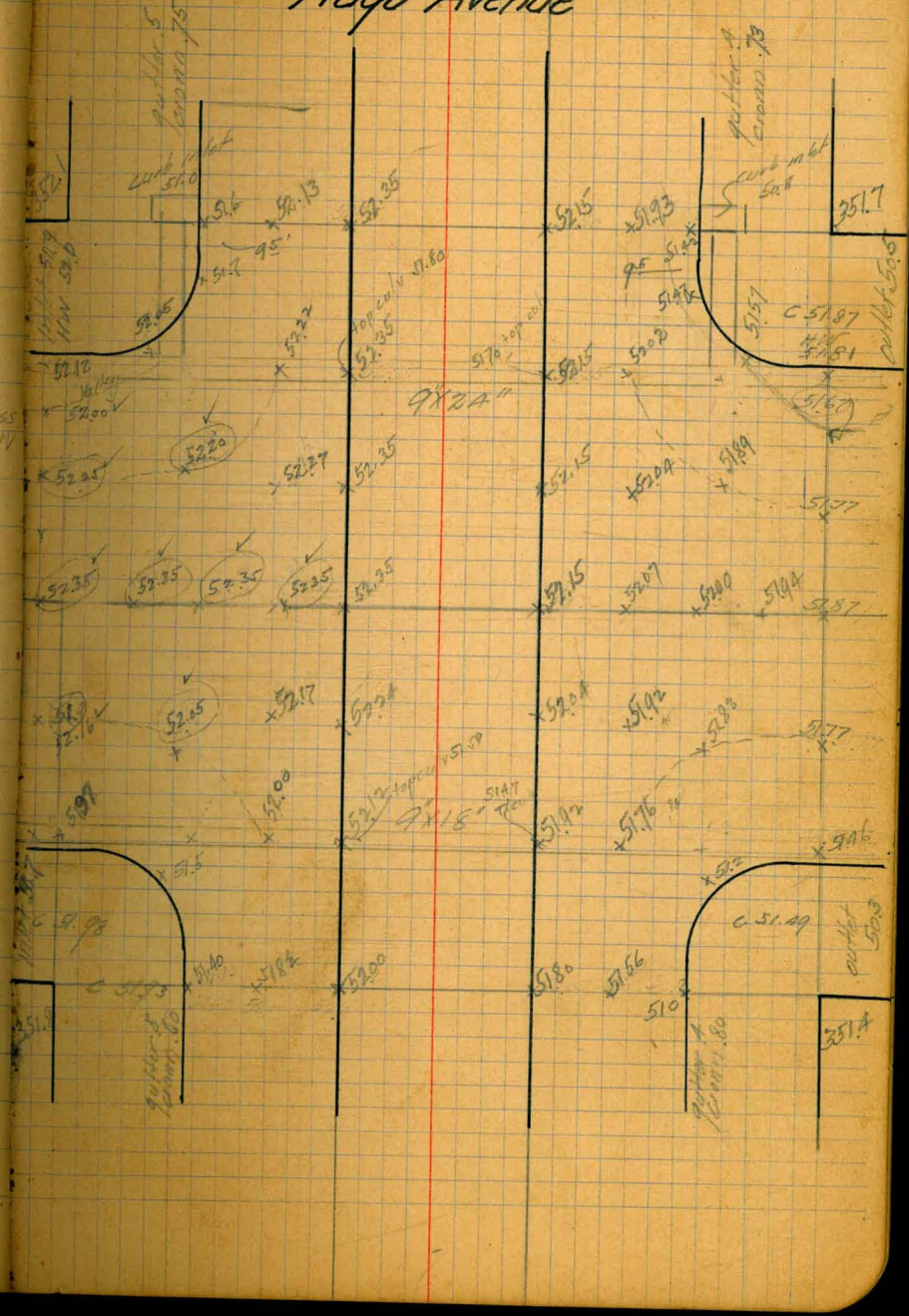
Alley bet East Sisson and Hugo. 22



Intersection Hugo

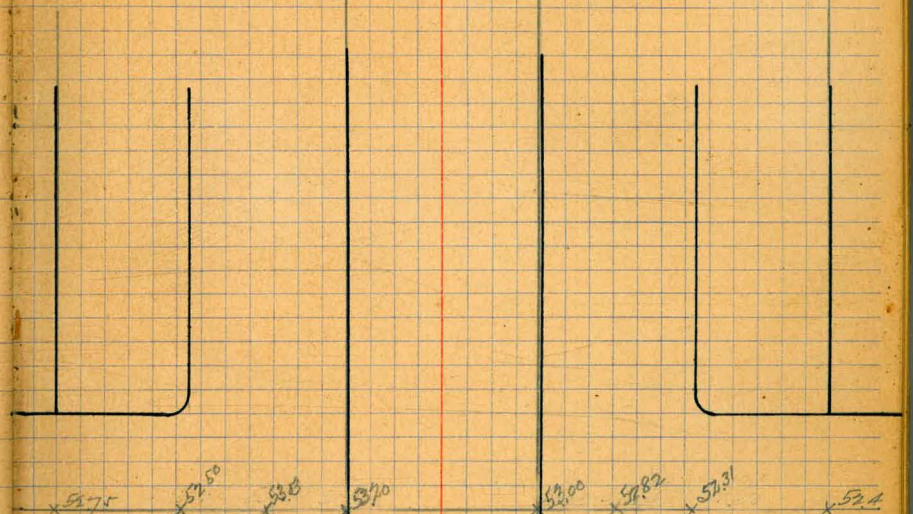
352.00 BM Brass Plug NW Cor

Hugo Avenue



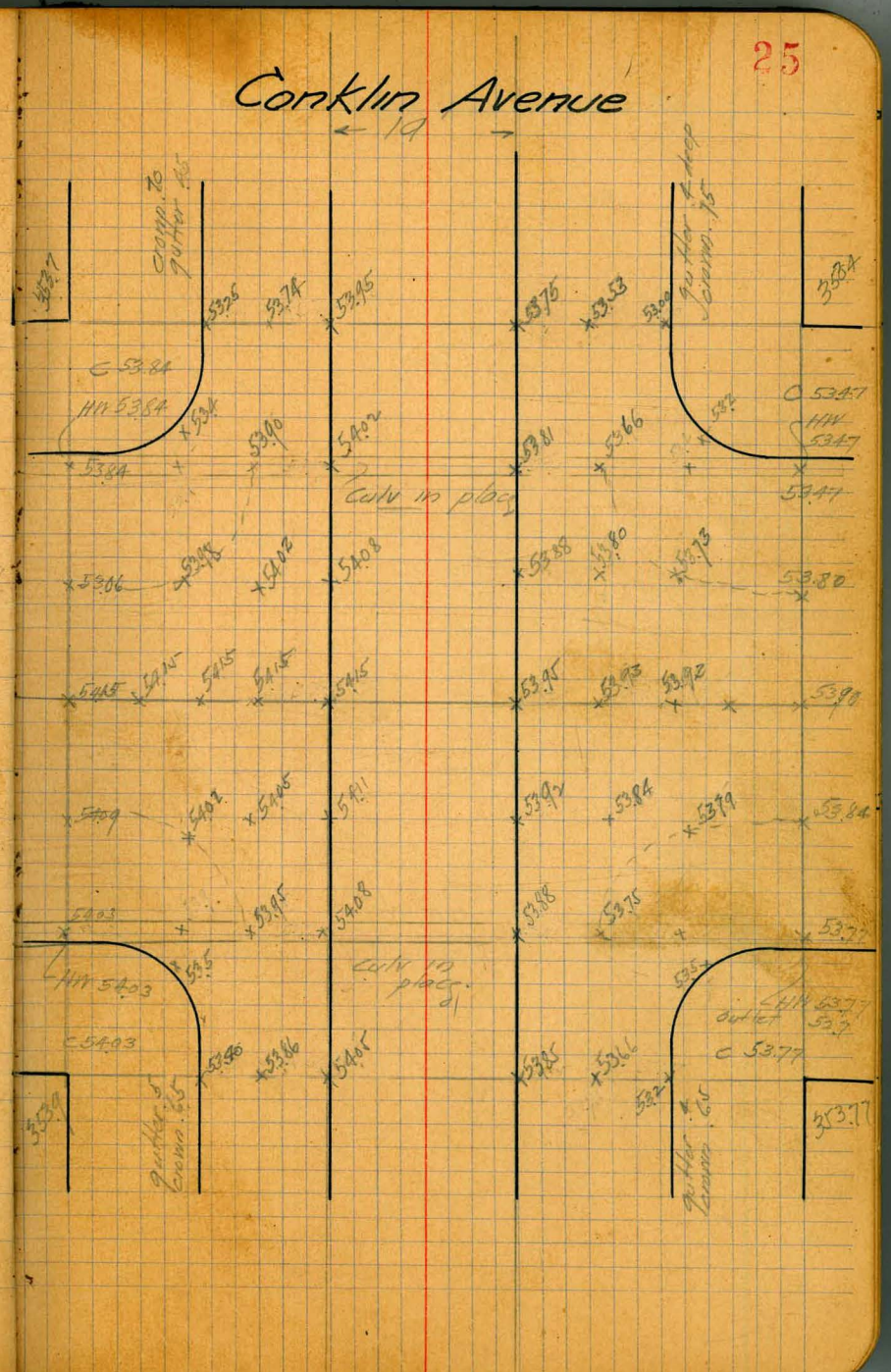
Alley between Hugo + Conklin

Alley bet Hugo and Conklin



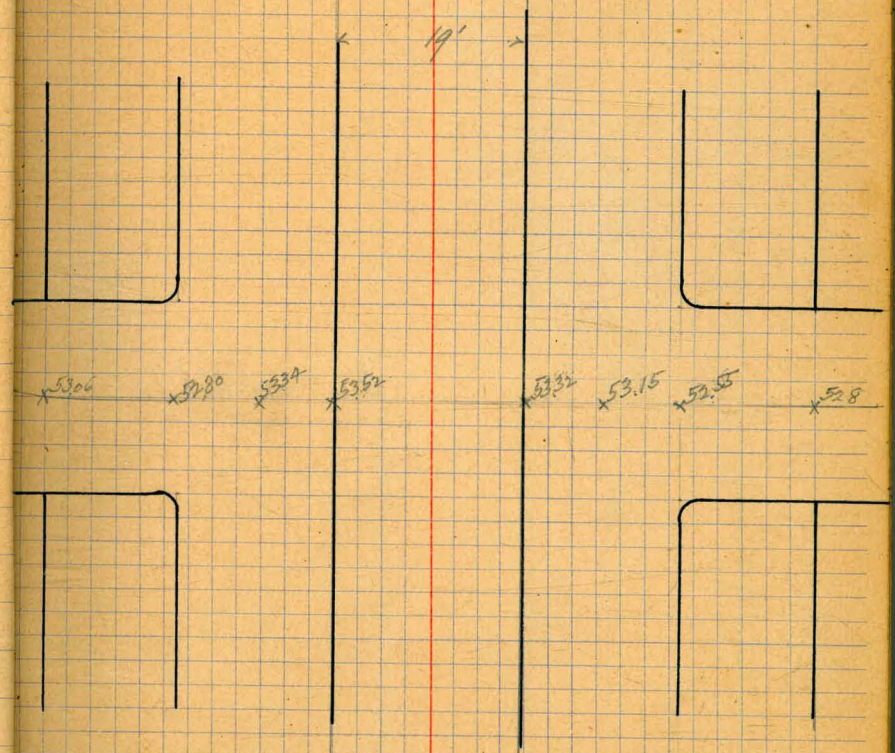
Intersection Conklin

354.04 BM-Brass Plug NW Cor.



Alley between Conklin + Stockton

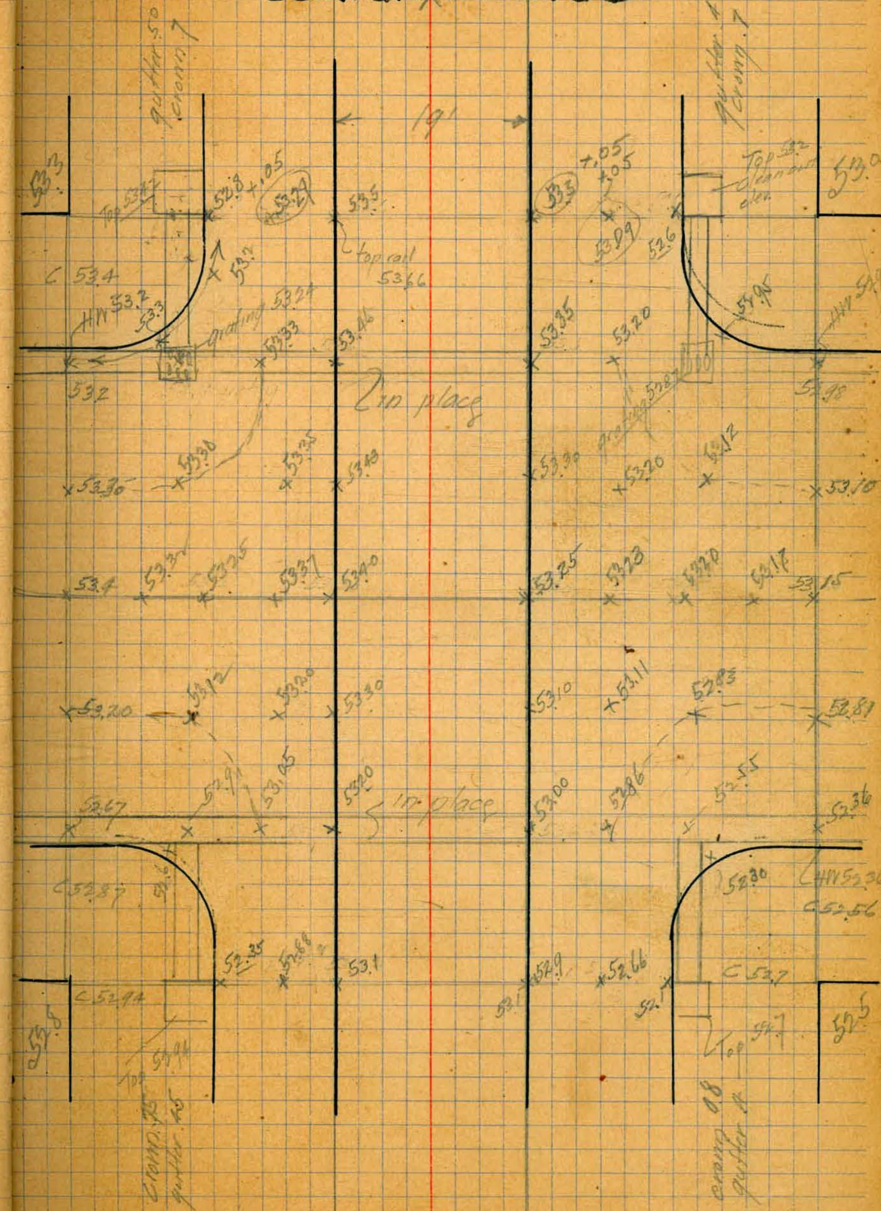
Alley bet Conklin and Stockton



Intersection Stockton

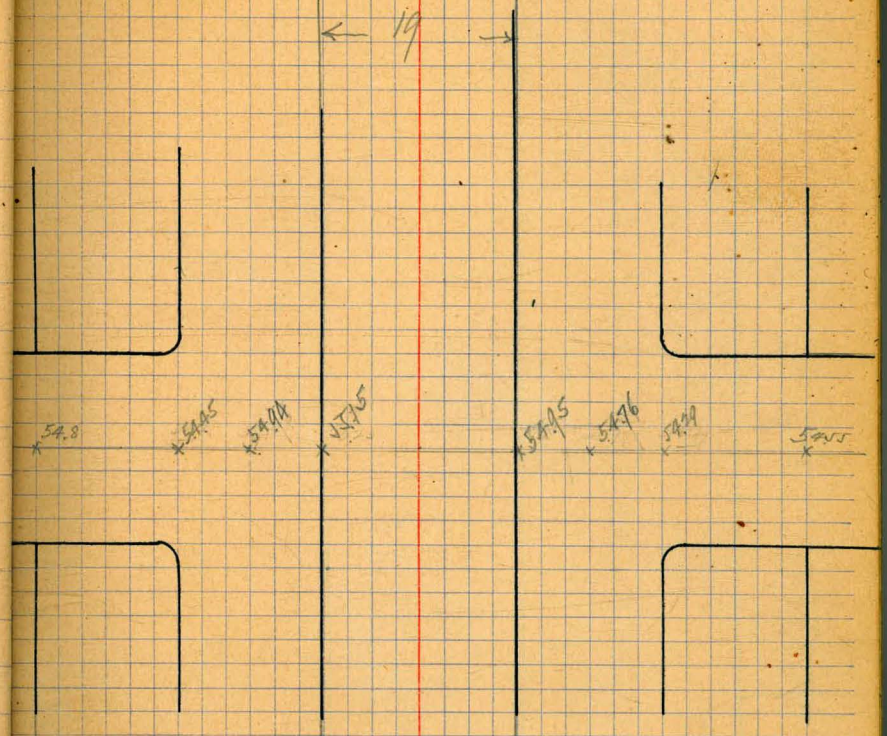
352.91 BM Brass Plug NW Cor.

Stockton Avenue



Alley between Stockton & Copeland

Alley bet Stockton & Copeland



Intersection Copeland

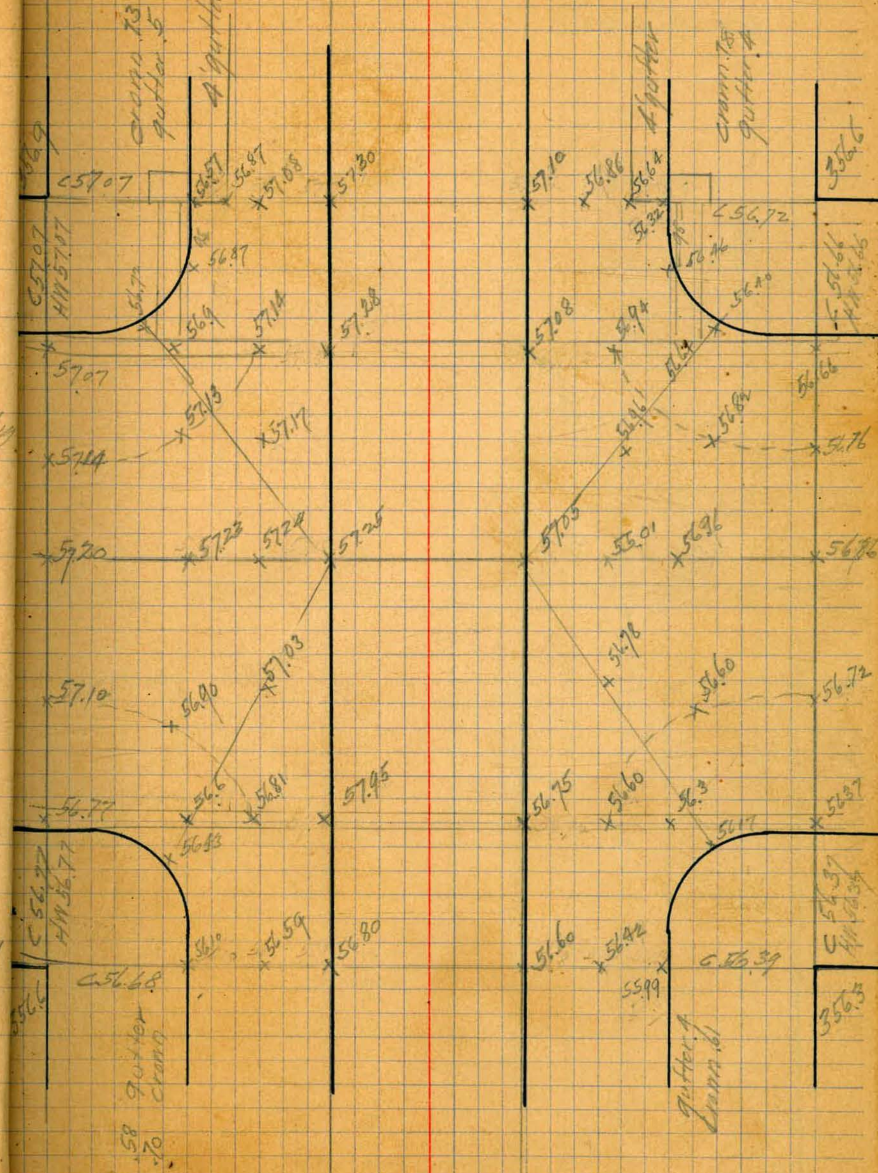
Crown North 2" above mean curbs

Crown South 2" above mean curbs

356.77 B.M. Brass Plug NW Cor.

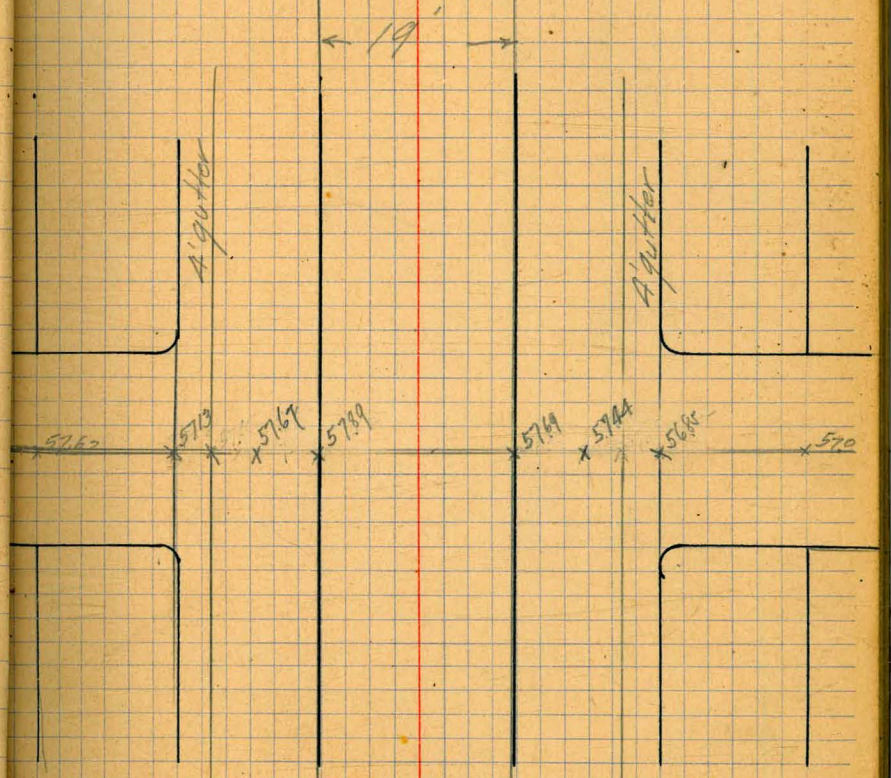
BM 356.77 Brass Plug NW.

Copeland Avenue



Alley between Copeland + Van Dyke

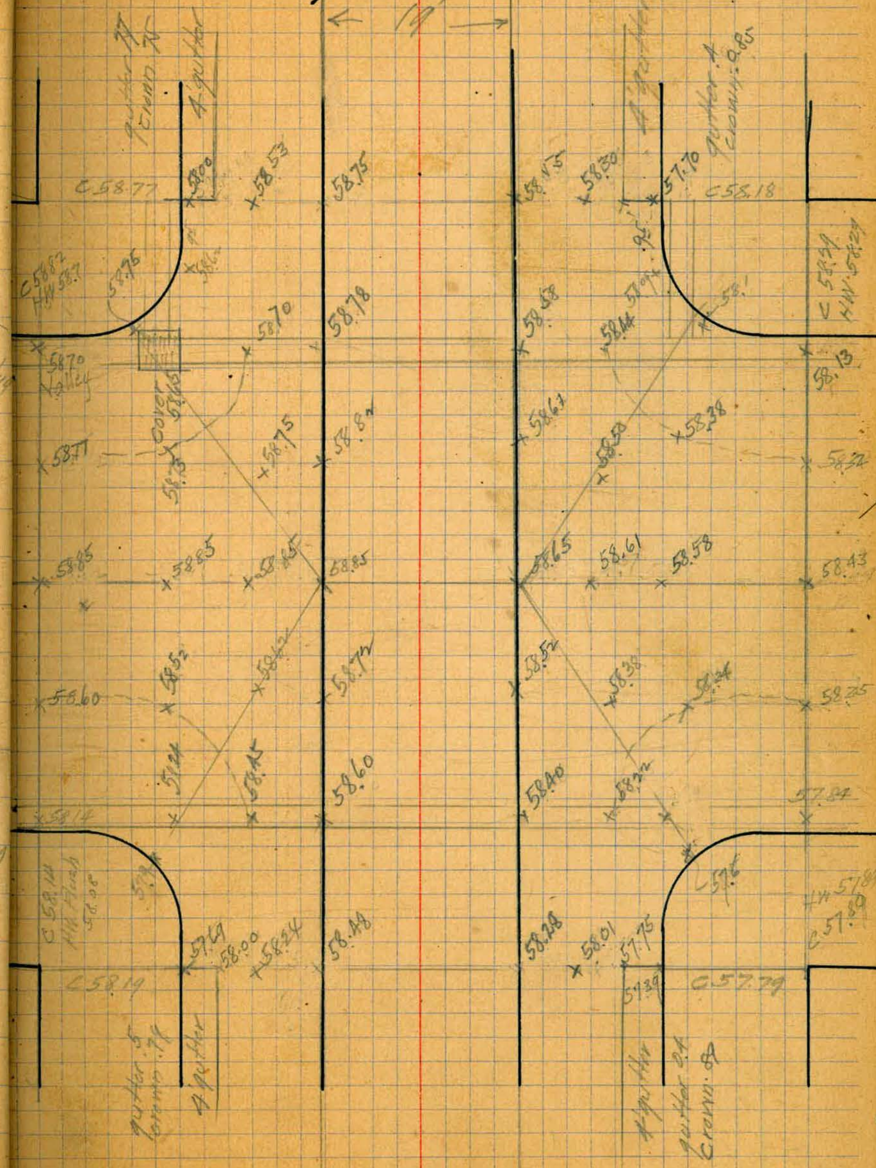
Alley bet Copeland and Van Dyke



Intersect on Van Dyke

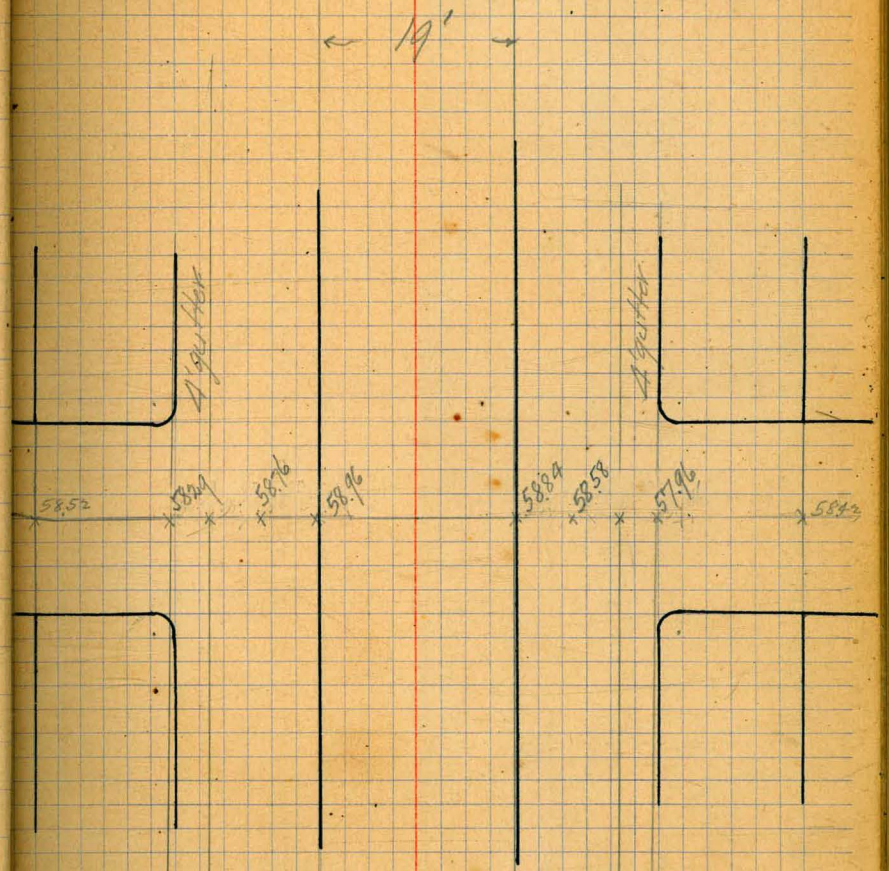
Crown	4" above mean curb on north & South				
				358.15	BM- Brass Plug N.W.
B.M			358.15	Brass Plug N.W.	

East Van Dyke Avenue



Alley between Van Dyke & Pauly

Alley bet. Van Dyke and Pauly



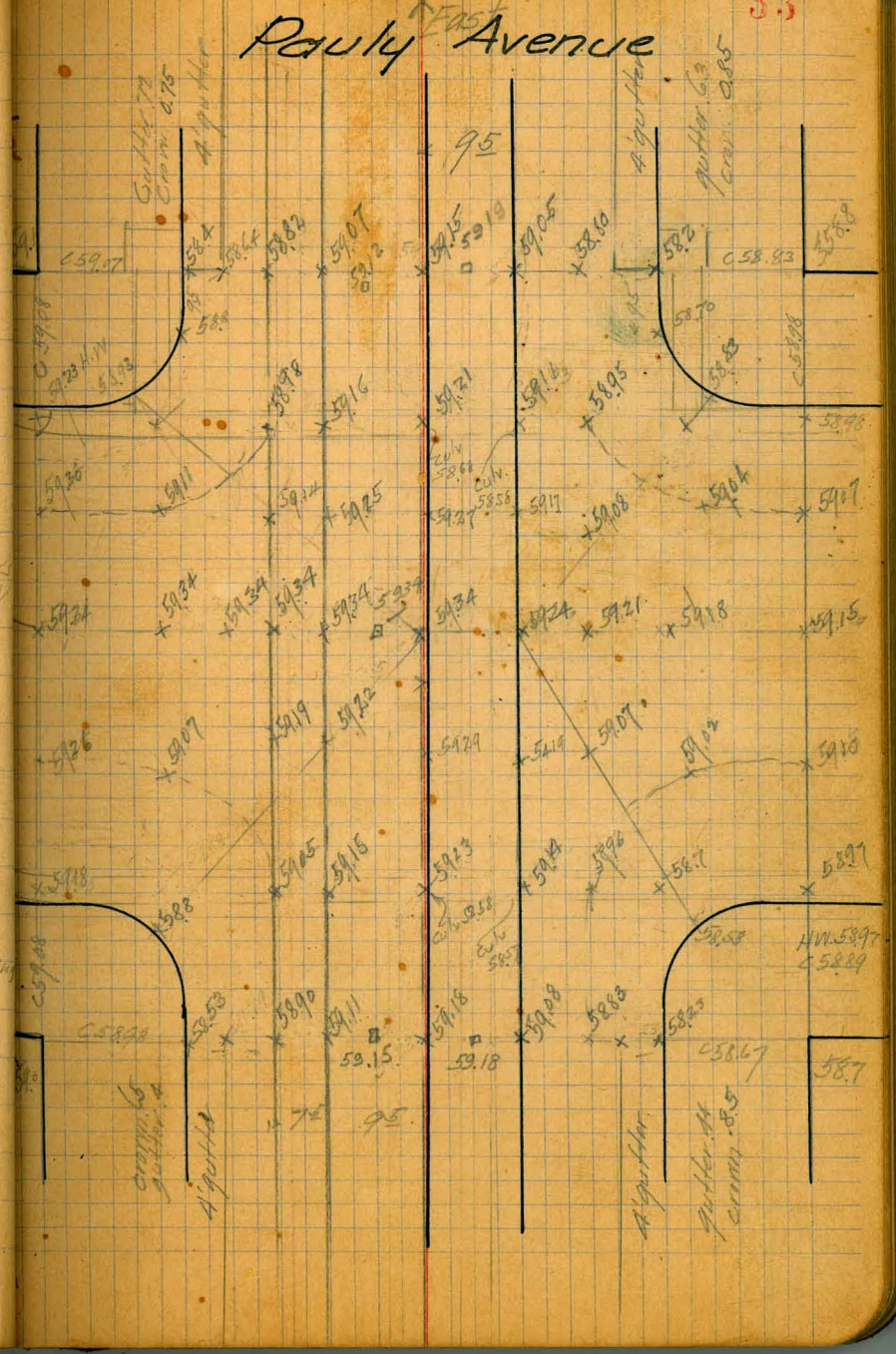
Intersection Pauly

Crown on North mean bet 2 curbs

2" above "

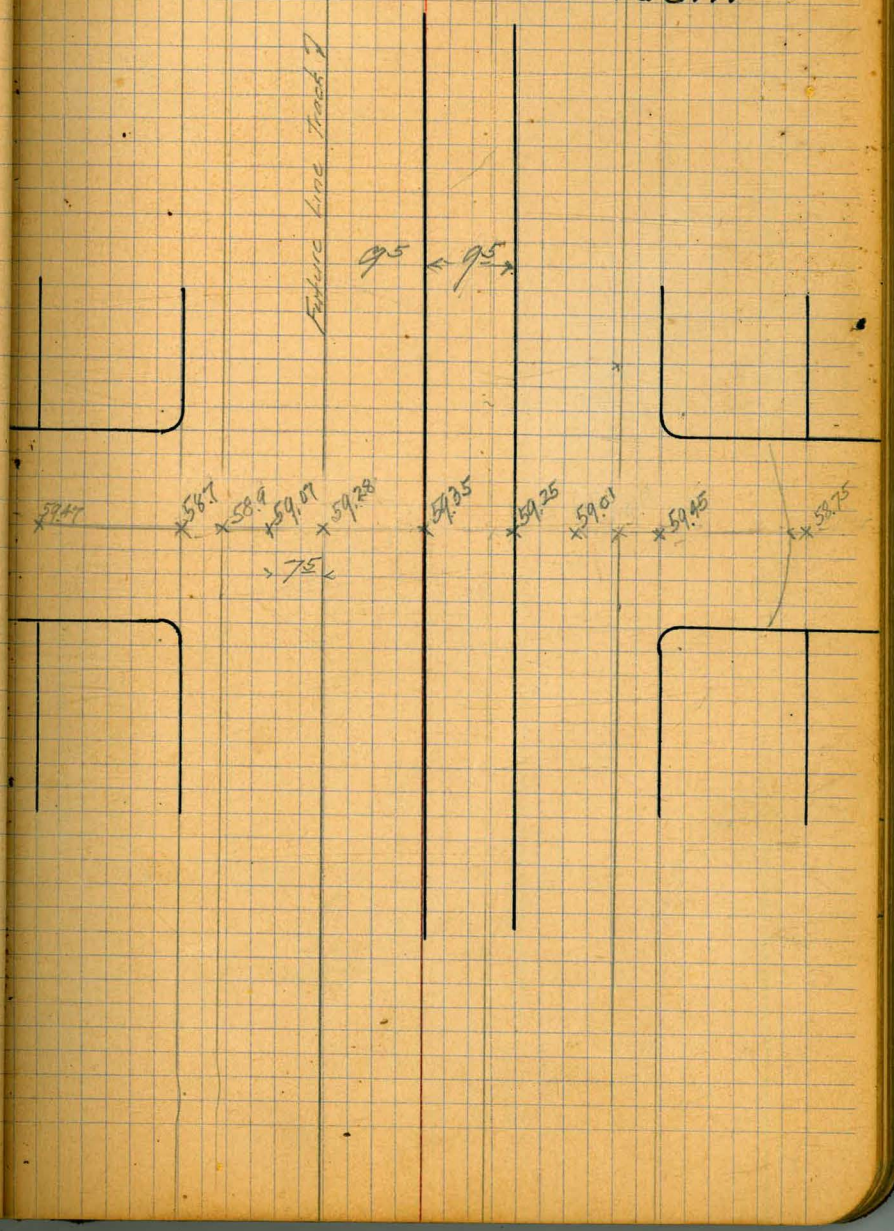
359.10 BM. Brass Plug NW cor

BM 359.10 Brass Pin 3" ↓



Alley between Pauly + Fairmount

Alley bet Pauly and Fairmount



Intersection Fairmount

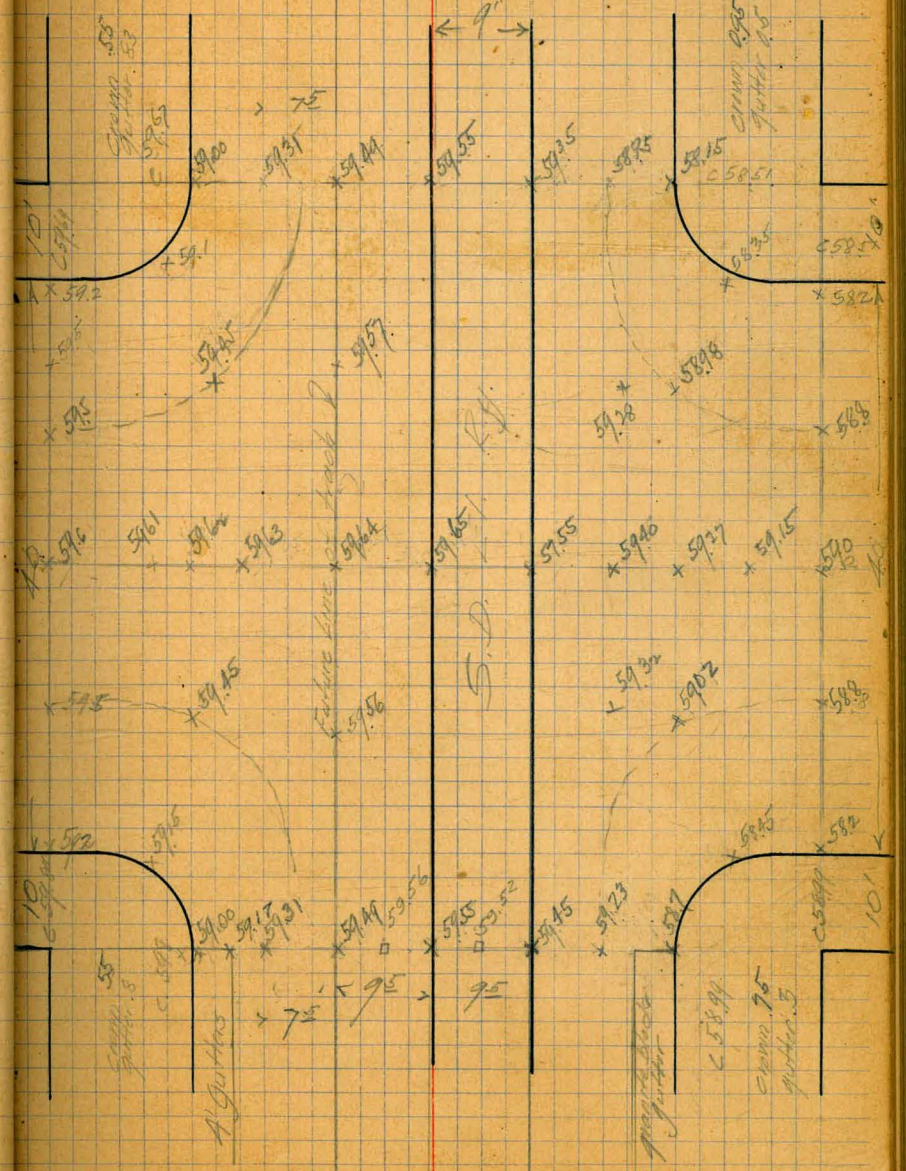
to figure gutter point 4 from curb
slope X 0.7 = fall from header

Cross South 1½ above mean curb elev. 599
North 2" " " " 559

B.M. 559.78 Brass Plug NW –

East

Fairmount Avenue



Levels University Fairmount to Euclid

	+	H.I.	−	Elev
B.M	3.22	363.00		359.78
E.L. Fairmount curb N.W. Colonial			6.28	356.72
B.M.	3.34	360.02		356.68
W.L. Colonial				
E.L. "				
W.L. Alley Col & High				
B.M. N.W.	3.63	355.81	7.74	352.18
W.L. Highland				
E.L. "				
B.M.			6.30	349.61
B.M.	5.43	355.01		349.58
W.L. Cabrillo				
E.L. "				
N.W. Cabrillo			6.30	348.70
"			5.81	349.20
"			5.52	349.49
"			6.38	348.63
"			5.83	349.18
"			5.48	349.53
"			5.63	349.38
"			6.02	348.99

Rods redyced by W.C.B.

Hyatt
M. Brown
Apr. 10, 15.

36

	N. Curb	N. Rail	S. Rail	S. Curb
Brass plug curb N.W. Fairmount & Univ.	3.32 359.68	3.66 359.50	3.62 359.38	4.52 358.48
Brass plug curb N.W. Colonial & Univ.	3.29 356.75	3.14 356.88	3.81 356.81	3.84 356.58
	3.68 356.34	3.65 356.37	3.62 356.30	3.80 356.22
	4.79 355.23	4.70 355.32	4.72 355.30	4.86 355.14
Brass plug N.W. Highland & Univ.	3.51 352.30	3.17 352.64	3.10 352.71	3.18 352.63
	4.10 351.71	3.70 352.11	3.60 352.21	3.75 352.06
Brass plug N.W. Cabrillo & Univ.	"	"	"	"
	5.36 349.65		5.31 349.70	5.91 349.10
	5.43 349.58		5.29 349.72	5.39 349.12
Bottom gutter on Cabrillo				
" pipe " "				
Top headwall " "				
Gutter on University				
pipe " "				
headwall " "				
Top catch-basin				
" pipe in catch basin				

	+	H.I.	−	Elev	
S.W. Cabrillo		355.01	6.87	348.14	Gutter on University
"			6.31	348.70	pipe " "
"			6.03	348.98	Headwall " "
"			6.00	349.01	Top catch basin
"			6.31	348.70	pipe in " "
"			6.99	348.02	Gutter on Cabrillo
"			6.47	348.54	pipe " "
"			5.98	349.03	headwall " "
S.E. Cabrillo			6.96	348.05	Gutter " "
"			6.51	348.50	pipe " "
"			5.97	349.04	headwall " "
"			6.83	348.18	Gutter " Univ.
"			6.45	348.56	pipe " "
"			6.02	348.99	headwall " "
"			6.08	348.93	Top catch basin
"			6.44	348.57	" pipe in "
N.E. Cabrillo			6.34	348.67	Gutter on Univ
			5.85	349.16	pipe " "
			5.58	349.43	headwall " "
			6.30	348.71	Gutter on Cabrillo
			5.79	349.22	pipe " "
			6.50	349.51	headwall " "
			5.60	349.41	Top catch basin
			5.97	349.04	pipe in " "
B.M.			1.34	353.67	Brass plug W. of Chamoune

	+	H.I.	—	Elev
B.M.	3.34	356.96		353.62
W.L. Chamoune				
E.L. "				
W.L. Mentone				
E.L. "				
			5.74	351.22
B.M.	3.91	346.99		343.08
W.L. Menlo				
E.L. "				
B.M.	4.02	345.55	5.46	341.53
W.L. Sierra				
E.L. Sierra				
N.W. "			5.14	340.41
"			4.16	341.39
"			4.03	341.52
"			5.18	340.37
"			4.18	341.37
"			4.01	341.54
"			4.07	341.48
"			4.45	341.10
S.W. "			5.83	339.72
"			4.86	340.69
"			4.61	340.94

N. Curb	S Rail	S Curb
Brass plug N.W. Chamoune & Univ.		
3.34	3.63	3.91
353.62	353.33	353.02
3.37	3.62	3.90
353.59	353.34	353.06
5.65	5.78	6.27
351.28	351.18	350.69
6.20	6.29	6.61
350.76	350.67	350.35
Brass plug N.W. Mentone & Univ.		
Brass plug N.W. Menlo & Univ.		
3.91	3.54	3.97
343.08	343.45	343.02
4.42	4.04	4.42
342.57	342.95	342.57
Brass plug N.W. Sierra & Univ.		
4.01	4.17	4.62
341.64	341.38	340.93
4.55	4.49	4.94
341.00	341.06	340.56
Gutter on Sierra		
Top pipe "		
Head wall " "		
Gutter on Univ.		
Top pipe "		
headwall " "		
Top catch basin		
" pipe in "		
Gutter on Univ		
Top pipe "		
" headwall "		

Levels Univ Con.

	+	H.I.	−	Elev
S.W. Sierra		345.55	5.70	339.85
			4.77	340.78
			4.50	341.05
			4.77	340.78
S.E.			5.99	339.56
W.L. Euclid				
B.M.	7.71	348.31	4.95	340.60
	℄ Profile Acacia Drive			
	7.71	348.31		340.60
0+00			4.7	343.6
1+00			4.4	343.9
2+00			4.5	343.8
3+00			3.5	344.8
4+00			3.1	345.2

Rods reduced by W.C.B.

Hyatt April 11, '18.
Brown

Gutter on Sierra
pipe " "
headwall " "
Catch basin
" " on Sierra in gutter at PL. of Univ

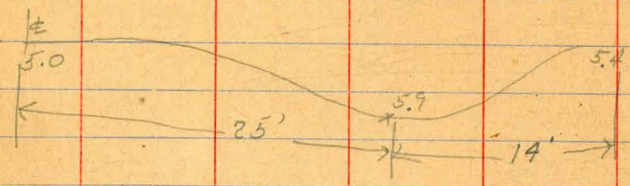
N Curb	Rail	S Curb
5.90	5.96	5.55
340.55	340.49	340.00

Brass plug M.H. Euclid & Univ.

" " " " "
= S.L. Univ.

Open gutter Cor Landis & Hart

Open Gutter Kansas St.



Open Gutter Oregon St.

	+	H.I.	−	Elev
B.M., W. L. Pauly	5.05			359.1
B.M.	6.09	364.24		358.15
N. header			5.45	58.79
Rail			5.35	58.89
B.M.	5.71	363.86		358.15
N.W. header			5.48	358.38
			5.38	358.48
B.M.,	5.73	362.50		356.77
N.E. header			5.19	357.31
N. Rail			5.09	357.41
N.W. header			5.66	356.84
			5.56	356.94
B.M.	5.76	358.67		352.91
N.E. header			5.11	353.56
			5.01	353.66
B.M.	5.23	359.27		354.04
N.E. header			5.29	353.98
Rail			5.19	354.08
S.E. header			5.43	353.84
S.W. "			5.36	353.91
N.W. "			5.16	354.11
Rail			5.06	354.21

Header	Rail	Rail	header.
N.W. Pauly & University. 5.03	4.90	4.86	4.89

Brass plug N.W. Van Dyke & University

N.W. ~~Pauly~~ " "

Brass plug N.W. Copeland & University

Brass plug N.W. Stockon & University.

Hyatt
Brown
May 17, 18.

Brass plug N.W. Conklin & University

Stakes for Railway Co.
on University

	+	H.I.	−	Elev
B.M.	5.29	358.20		352.91
N.W. header			5.12	353.08
Rail				
B.M.	5.40	357.40		352.0
N.E. header			5.06	52.34
N.E Rail			+ 4.96	52.44
S.E. header			5.25	52.15
N.W. header			5.42	51.98
S.W. "			5.66	51.74
N.W. Rail			5.32	52.08
B.M.	5.22			
N.E. header			4.73	
N.E. rail			4.63	
S.E. header			4.88	
N.W. header			5.18	
N.W. rail			5.08	
S.W. header			5.32	

Brass plug in curb N.W. Stockton & University

Brass plug N.W. Hugo & Steiner.

Brass plug N.W. Sisson & Univ

Stakes for R.R. Co. Con

Hyatt Aug 15 18
Brown

	+	H.I.	−	Elev
B.M.	5.71	63.86		358.15
N.E. Rail			4.93	58.93
S.E. header			5.20	58.66
S.E. Rail			X 5.10	58.76
N.W. Rail			5.32	58.54
S.W. header			5.58	58.28
S.W. rail			X 5.48	58.38
B.M.	5.45	62.22		56.77
N.E. Rail			4.79	57.43
S.E. header			5.02	57.20
S.E. Rail			4.92	57.30
N.W. Rail			5.29	56.93
S.W. header			5.57	56.65
S.W. Rail			5.47	56.75
B.M.	5.83	58.74		352.91
N.E. Rail			5.05	53.69
S.E. header			5.30	53.44
S.E. Rail			5.20	53.54
N.W. rail			5.53	53.21
S.W. header			5.81	52.93
S.W. rail			5.71	53.03

B.M. brass plug N.W Van Dyke & Univ.

B.M. N.W. Copeland & Univ.

Brass plug N.W/ Stockton & Univ

Stakes R R Co. Con.

	+	H.I.	−	Elev.
B.M.	5.13	359.17		354.04
N.W. Rail			5.14	54.03
S.W. header			5.25	53.92
S.W. Rail			5.15	54.02
S.E. header			5.30	53.87
N.E. Rail			5.05	54.12
S.E. Rail			5.20	53.97
N.W. header			5.14	54.03

Hyatt Aug 20.18
Brown

Brass plug N.W. Corner of Union

Stakes Ry Co

Sept 17, 1918 ?

W.C. Brown
R Solcido

	+	H. I.	−	Elev.	
B. M	5.53	57.53		352.00	Brass plug N.W Cor Hugo & Univ
N.E Header			5.16	52.37	
" Rail			5.05	52.48	
S.E Header			5.37	52.16	
" Rail			5.27	52.26	(Set) ✓
S.W. Header			5.78	51.75	
" Rail			5.68	51.85	Set ✓
N.W. Header			5.52	52.01	
" Rail.			5.42	52.11	
B. M.	3.75	53.37		349.62	Brass plug N.W. cor. Sisson & Univ.
N.E. Header			3.25		
N.E. Rail			3.13		
S.E. Header			3.40		
S.E. Rail.			3.30		(Set)

Indexed
C.S.M.

X sec of Blk 37 Ocean Beach

Bet. Coronado & Santa Cruz
From Sunset Cliffs to Ebers

Moore
10-11-39

			NW BP	Coronado Sunset Cliffs
	12.00	63.04	50.04	
0-12 E of Sunset Cliffs Blvd.				
N pav			2.59	60.47
C "			2.51	60.55
S "			2.60	60.46
0+00 E.L. Sunset Cliffs Blvd.				
N cb			1.95	61.11
N pav			2.16	60.90
C "			2.31	60.75
S cb			1.98	61.08
S pav.			2.13	60.93
T.P.	12.61	73.30	2.37	60.69
0+04				
N			4.4	69.0
S			8.3	65.1
+2			10.2	63.2
C			10.7	62.7
+5			9.3	64.1
+8			4.9	68.5
N			2.8	70.6
+5			2.8	70.6

73.30

46

0+25		
N	1.4	72.0
+2	1.4	72.0
+3	3.7	69.7
C	5.8	67.6
+8	4.9	68.5
S	3.5	69.9
+5	2.3	71.0
0+48 C +9.3 on S P.P. Pole		
0+50		
S	0.0	73.4
+2	0.4	73.0
+3	1.4	72.0
C	1.3	72.1
+8	0.8	72.6
+4	0.0	73.4
N	+2.0	75.4
0+54 C +9.8 on N Tel. P		
T.P. 12.75 85.50	0.55	72.75
0+75		
N	2.6	72.4
+6	9.1	76.4
C	9.3	76.2
+7	9.4	76.1
S	8.5	77.0

85.50

1+00

S	5.1	80.4
+4	5.8	79.7
C	5.4	79.9
+5	5.4	80.1
N	4.6	80.9

1+35

N	0.6	85.1
C	1.7	84.4
+7	1.2	84.3
S	0.4	85.1

1+49 C +9.6 on S. Po. Pole

T.P.	12.55	97.61	0.44	85.06

1+75

S	8.2	89.4
C	8.4	89.2
+5	8.4	89.2
N	7.5	90.1

1+91

N	6.8	91.3
C	6.5	91.1
S	6.8	90.8
+4.2 S.W. gar. dirt	6.8	90.8

97.61

2+00

S	6.4	91.2
C S.M.H. R.M.	5.25	92.36
N	5.7	91.9

2+01 on N. Tel. Po. on Line

2+30

N	2.5	95.1
C	2.9	94.7
S	2.6	95.0
T.P. 5.40 10.207	0.94	96.67

2+73 C +9.5 on S Po. Pole

2+83

-3.1 S.W. gar. cem.	3.48	98.39
S	4.0	98.1
C	4.7	92.4
N	4.5	92.6

3+16

-2.4 S.W. gar. cem	4.63	92.44
N	4.6	92.47
C	4.7	97.4
S	4.0	98.1

3+27 on N. Tel. Pole on Line

102.07

3+50		
S	4.9	97.2
C	5.4	96.7
N	5.6	96.5
3+74 C+9.4 on S Po. Pole		
4+00		
N	8.1	94.0
C	7.3	94.8
+6	7.1	95.0
S	6.6	95.5
4+30		
S	8.2	93.9
C	8.6	93.5
N	9.5	92.6
+8.5 S.W. gar. dirt	9.9	92.2
4+52		
N	9.3	92.8
C	8.8	93.3
S	8.6	93.5
4+53 C+9.6 on N. Tel. Po.		
4+75		
S	8.2	93.9
C	8.5	93.6
N	8.2	93.9

102.07

4+99 C+9.5 on S Po. Pole		
5+10		
N	6.5	95.6
C	6.5	95.6
S	5.7	96.4
+38 S.W. gar. corn.	4.95	92.12
T.P. 0.99 98.04	5.02	97.05
4+52 for drain N to North		
N +40	6.4	91.6
N +90	8.2	89.8
N +140 = S.L. Santa Cruz	8.6	89.5
N +160 Top of	8.62	89.62
" " Gut	9.01	89.03
T.P. 8.54 105.41	0.99	97.05
5+50		
S	5.8	99.8
C	6.3	99.3
N	6.4	99.2
5+75		
N	4.5	101.1
C	4.4	101.2
S	3.9	101.7
5+94 C+9.8 on N Tel Pole		

105.41

S 1.99 W to Ebers

S	cb		3.35	102.26
S	Pav		3.77	101.84
C	"		4.22	101.39
N	"		3.96	101.67
N	cb		3.85	101.76
	W cb Ebers			
N	Pav		4.58	101.03
C	"		4.33	101.28
S	"		4.09	101.52
S.E. Top E.H.	Santa Cruz Ebers		7.42	97.99	97.97 / 0.02

Check Re. Sub Lots 10 to 15 Block 12
El Cerrito Hts Unit No 2

O = 1/2" Iron Pipe

S 58 W 55'

C.L.

Block 12

8 9 10 11 12 13 14

16

Feb 5-40.
S. Sloat
Northam
Osborne

INDEXED
EFB

50

S 58 W 55'

Adelaide Ave.

C.L.

50.00 50.02 49.99 44.99 45.08 79.55 83.79

Δ 153°10'
R 20.0
T: 83.84

83.77

C.L.

99.25

50.45 50.46 50.44 56.06 56.06 56.05 55.05

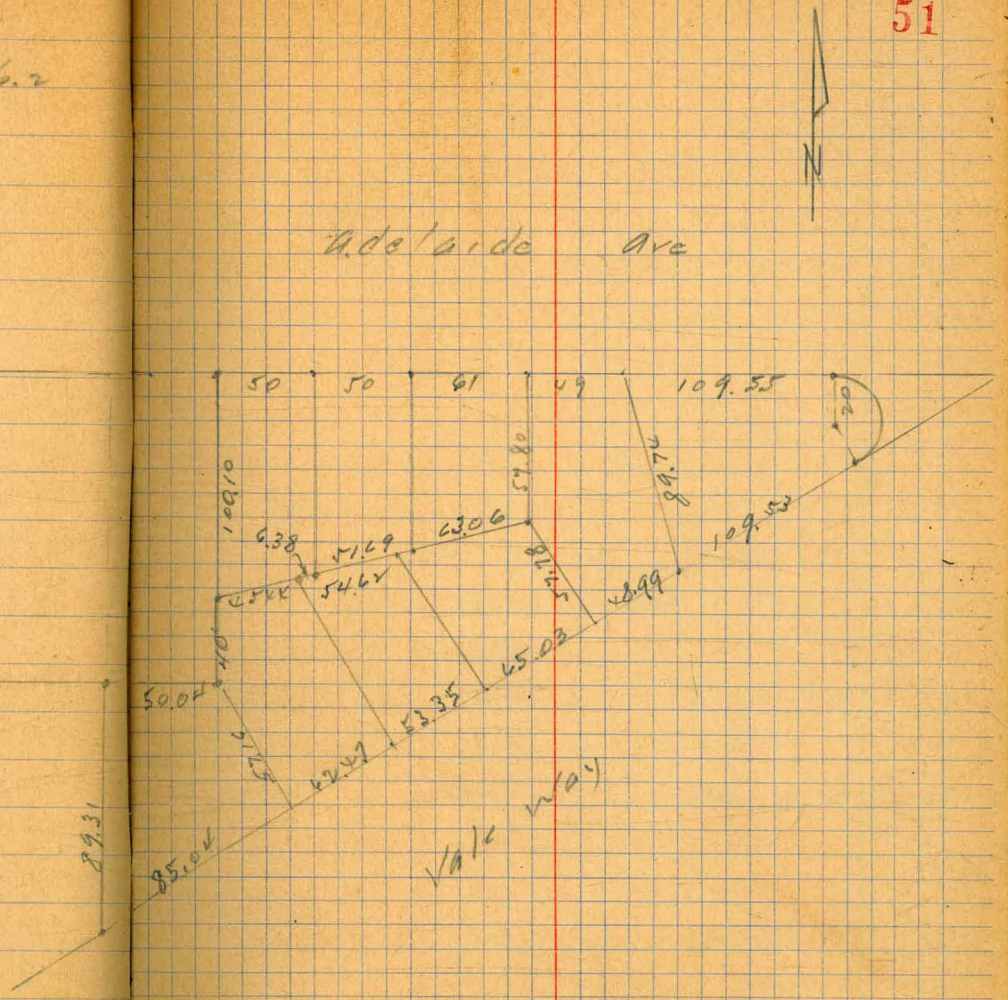
Vale Plat

C.L.

Check Resub. Lots 10 to 15
Blk 17 El Cerrito Hts Unit No. 2

See p 50 for angles

Moore
Sisson
Northern
2-26-40



Moore
6-8-40

LOCATION of Bldgs., Poles etc
ESTUDILLO & KURTZ STS

INDEXED
EFS

7+00 16 Rt. Sta. RR Xing Post

6+69 12 RT Blk. Signal # 2651

6+48 10' LT Whistle Post

6+25 W.U. Tel Pole 37 RT

4+77 W.U. Tel 37 Rt.

3+35 W.U. Tel. Pole 37' RT

3+15 171' LT = Pole 73' LT = P.P. 69 RT = P.P.
Power

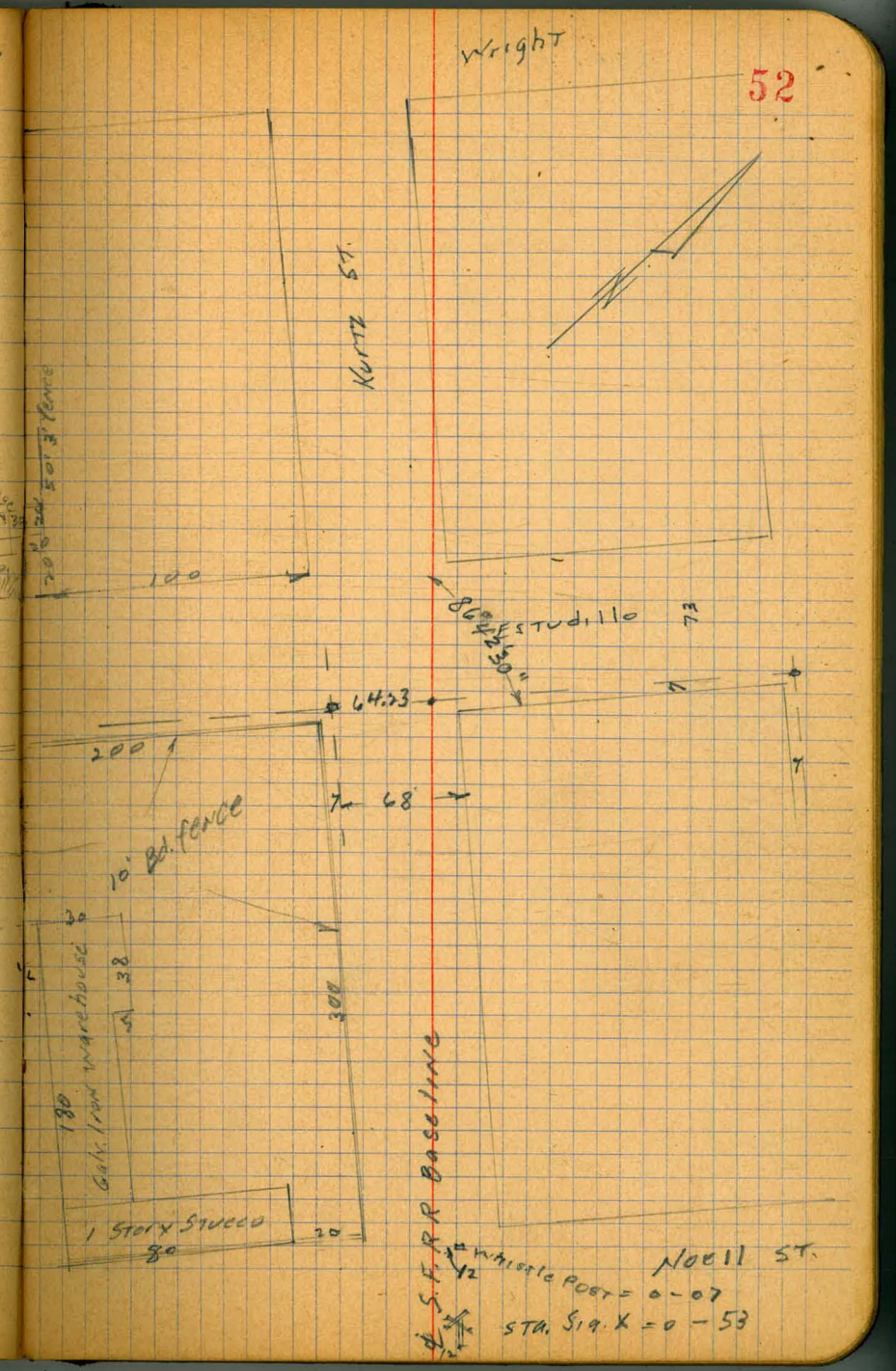
1+92 W.U. Tel. Pole 37 RT.

1+35 Do. D.M. for Guy Pole 52 LT

0+97 P.P. Guy Pole 50 LT.

0+47 W.U. Tel. pole 38 RT & R.R.

0+00 = NL Nocil ST



Check Survey of Palmetto Tract

Moore 6-18-40.

⊕ 2" Pipe Fd.

P.I. 3/4

Meas. 384.10

89°48' Meas.

99.95 Meas.

Palmetto

Meas. 409.20

TROJAN

AVE.

INDEXED EPB

53

Fd. 1" Iron Pipe

Curve to Right

Long chord

P.I. Chain Cut

Old

ST.

N

ST. 74

Void.

Rad.

Rad.

Set Nail

8.71 P.I. To 2½ Fd. St. Cor.

Set Nail B.C.

10°43'30"
0°50'05"
11°33'35"
17°55'30"
N 29°29'05" W
N 28°11'00" W
1°18'05" error
25"

Δ=109°40'40"
R=15
T=21.29

def. 4°17'20" chord 140.68 to Pipe

def. 5°07'35"
CS 27.39

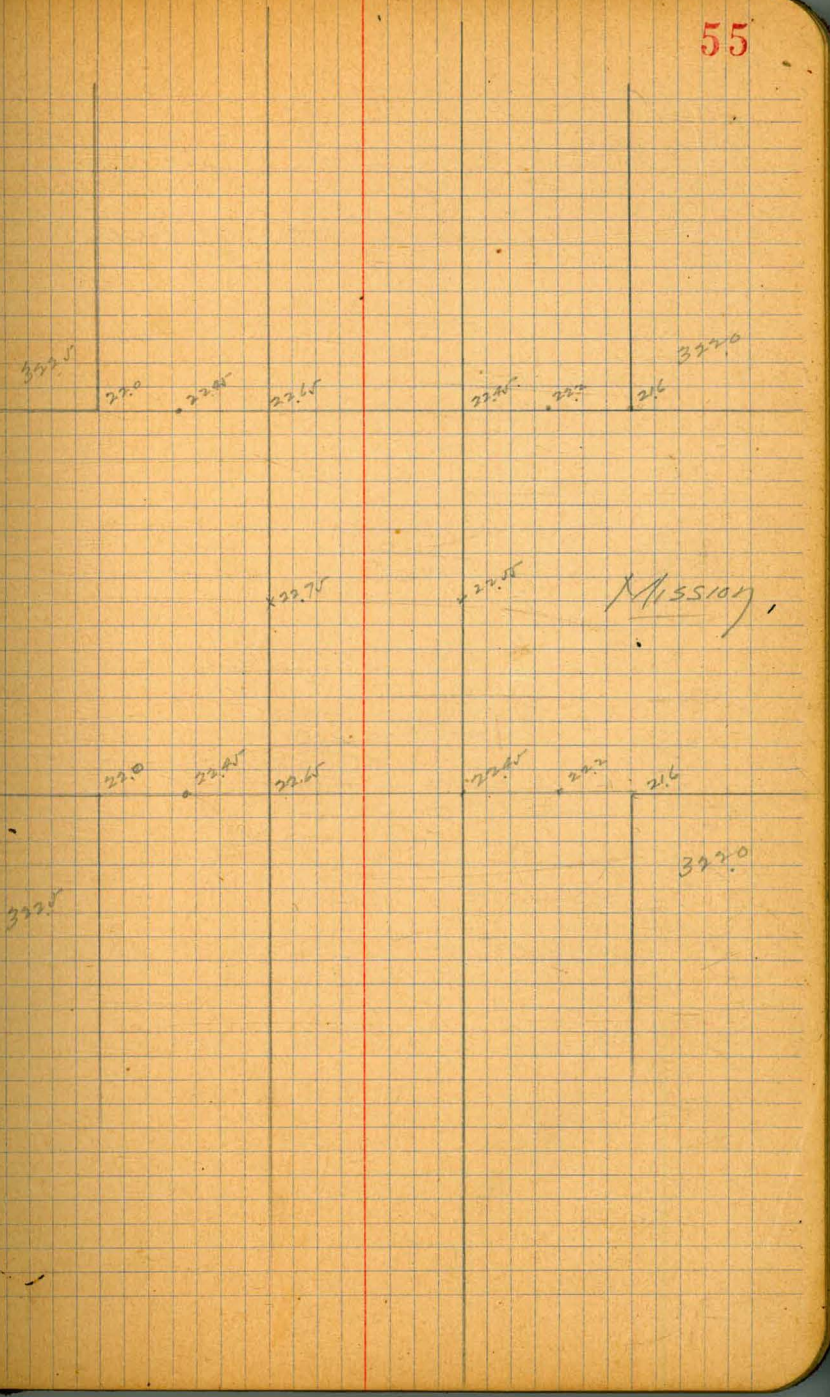
R=940

340.29 Iron pipe 11.2 ft W. of Wabash

330.76 Fillmore N.W. cor. Wabash & Fillmore

325.37 Mission 3/4" pipe 7.6 N. of N.W. cor. Mission & Fillmore 7.6 N of N line

37.0 31.0 31.9 31.45 31.6 31.6 31.25 31.6 Pueblo 31.7 31.8 31.8 31.


332.5
27.0
27.65
27.65
27.65
27.2
27.6
332.0
27.75
27.55
Mission
27.0
27.65
27.65
27.65
27.2
27.6
332.0
332.5

352.89 Scott BM - Pipe 43 E and 2 N of NE Scottie Steiner.

Moore
7-22-40.

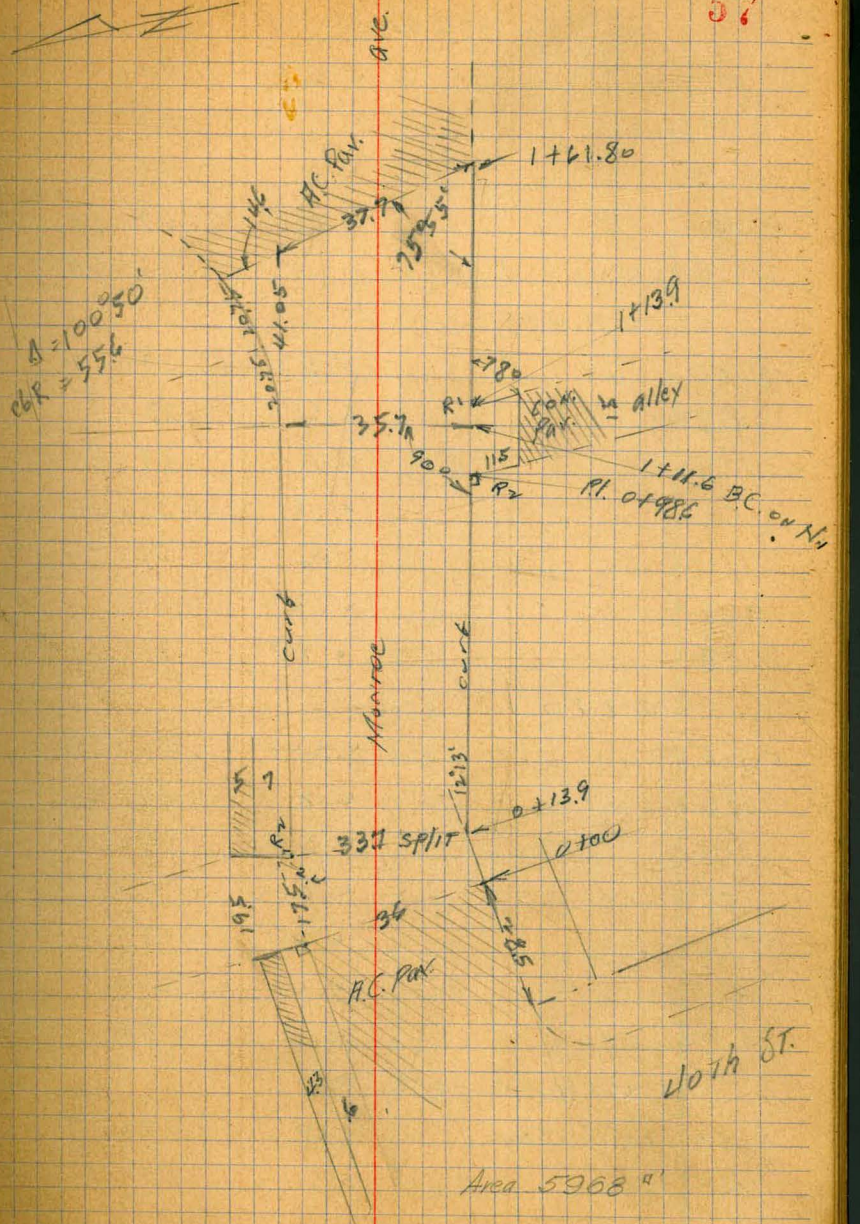
X Sec Monroe Ave.
North to Terrace Dr.

				372.63 North
S.W.T.C.T.		2.95	375.58	372.29 Monroe
	0-28.5			
S c6			2.91	372.67
QvT	Pav		3.40	372.18
E	"		3.75	371.83
QvT	"		4.74	370.84
N c6	"		4.28	371.30
	0+00			
N			4.2	371.4
+1.7	TOP end c6		4.26	371.32
c6	" c6		4.40	371.18
QvT	Pav		4.86	370.72
1/4	"		4.37	371.21
C	"		4.06	371.52
1/4	"		3.96	371.62
QvT	"		4.11	371.47
S c6			3.58	372.00
	0+13.9			
S c6			3.81	371.77
QvT			4.1	371.5
1/4			4.1	371.5

Reduced & Plotted by AH Cole 7/24/40
Profile 1787

INDEXED
FFB

57



375.58

C	4.2	3714
1/4	4.4	3712
QUT	4.9	3707
N C6	4.56	371.02
N L To Pond Pet	4.24	371.34
0+40		
N C6	4.87	370.71
QUT	5.2	3704
1/4	4.6	3710
C	4.8	3713
1/4	4.2	3714
QUT	4.3	3713
S C6	3.87	371.71
0+80		
S C6	4.24	371.34
QUT	4.8	3708
1/4	4.6	3710
C	4.6	3710
1/4	4.9	3707
QUT	5.4	3702
N C6	5.10	37048
0+98.6 = alley P.I.		
N C6 in drive	5.69	36989
1/4	5.2	3704
C	4.7	3709

375.58

1/4	4.7	3709
QUT	5.0	3706
S C6	4.54	37104
S L C6	4.37	37121
S L Pav.	4.92	37066
+10 "	4.83	37075
Ealley to South		
-10 Pav.	5.00	37058
SL "	5.10	37048
1+11.6		
S QUT	5.2	3704
1/4	4.8	3708
C	4.8	3708
1/4	5.3	3703
QUT	5.7	3699
N C6 B.C.	5.43	37015
1+13.90 = E L alley		
S QUT	5.2	3704
S C6	4.42	37096
S L To P C6.	4.49	37109
" Pav.	4.95	37063
+10 "	4.87	37071
1+34.7 on S To Center Curve		
S C6	4.88	37070
QUT	5.4	3702

375 -58

1/4	5.1	3705
C	5.0	3706
1/4	5.5	3701
cb	5.8	3698
+ 3.5 gut	5.9	3697
N cb	5.69	36989
.1 + 61.8 edge par.		
N cb	5.71	36987
gut. par	6.20	36938
120' NE " in gut	4.81	36927
N c6 + 14.6 par.	5.64	36994
1/4 "	5.50	37008
C "	5.43	37015
1/4 "	5.48	37010
gut "	5.80	36978
S cb Top.	5.07	37051
20' E of above gut par	5.79	36979
40' " " " "	5.86	36972
		build up par.

Walker
Hendricks
Becker
Johnson
4-7-47

Recheck
Distances in Red
Hendricks,
Becker
Johnson
12-11-47

Angle Point

Fd. 2" Pipe

Fd. ½" Pipe

Check Trotha Heights Subdivision

Palmetto Tract
Map 2252

Trotha Ave

S. 89°55'20" E.

N. 0°08'30" W.

S. 74°28'30" E.

Lot 13
Lemon
Villa
Map 734

Portion Lot 12
Lemon Villa

Fd. Pipe RE. 4191

Fd. Pipe RE. 4191

Orange Grove

Orange Ave

Indexed
C. S. K.

60

Fd. Ld & Tack
in Conc. Paving.

GREEN FIGURES INDICATE
DISTANCES SHOWN ON MAP.

Fd. Ld. & Tack in Conc. Paving.

Fd. ½" Pipe

2" Pipes

Δ=61°44'20"
R=20
T=11.96

North

Fd. Ld & Tack
in Conc. Paving.

2" Pipe

Fd. Ld & Tack
in Conc. Paving.

Fd. P.I. Ld & Tack

Rail Grades:

North Track

	Permit Elev.	Present Elev.	To be raised	To be Lowered
Fairmount				
E. Prop. line	59.65			
Center "	59.70			
W. Prop "	59.65	59.3	.35	
Pauly				
E. Prop "	59.35	59.0	.35	
Center "	59.29			
W. Prop "	59.23	58.79	.44	
Van Dyke				
E. Prop "	58.90	58.4	.50	
center "	58.80			
W Prop. "	58.58	58.4	.18	
Copeland				
E. Prop "	57.32	56.9	.42	
center "	57.15			
W. prop "	56.90	56.4	.50	
Stockton				
E. Prop "	53.60	?		
center "	53.30			
W. Prop "	53.20	?		
Conklin				
E. Prop "	54.05	53.9	.15	
center "	54.15			
W. Prop "	54.15	54.4		.25

South Track

Permit	Present	To be raised	To be Lowered
58.75	58.3	.45	
58.60			
58.41	58.3	.11	
57.22	56.9	.32	
57.05			
56.80	56.4	.40	
53.50	?		
53.20			
53.10	?		
53.95	53.9	.05	
54.05			
54.05	54.4		.35

Rail Grades

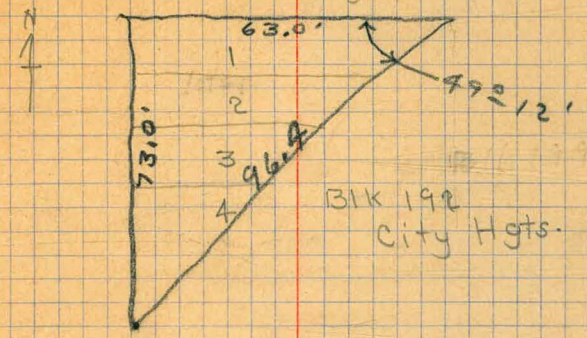
North Track

Hugo	Permt.	Present Elev.	To be raised	To be lowered
E. Prop. line	52.45	52.5		.05
center "	52.35			
W. Prop "	52.20	51.9	0.30	
Sisson				
E. Prop "	50.15	48.9	1.20	
Center "	49.95			
W. Prop "	49.75	48.3	1.45	

South Track

Permt	Present Elev.	To be raised	To be lowered
52.30	52.4		.10
52.20			
52.05	51.9	0.15	"
50.0	48.8	1.2	
49.8			
49.6	48.3	1.3	

Property at Scott & Univ
to be Condemned for St.
University Ave



Slopes Corrected Parabola –

Total –	¼	½	¾
04	.04	.12	.24
05	.05	.15	.30
06	.06	.18	.36
07	.07	.21	.42
08	.08	.24	.48
09	.09	.27	.54
1.0	.10	.30	.60

ENGINEERING DEPARTMENT,
CITY OF EAST SAN DIEGO,
CALIFORNIA.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 14 FEET WIDE. SIDE SLOPES 1½ TO 1.

FOR SINGLE TRACK EMBANKMENT.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	7.0	7.2	7.3	7.5	7.6	7.8	7.9	8.1	8.2	8.4	0
1	8.5	8.7	8.8	9.0	9.1	9.3	9.4	9.6	9.7	9.9	1
2	10.0	10.2	10.3	10.5	10.6	10.8	10.9	11.1	11.2	11.4	2
3	11.5	11.7	11.8	12.0	12.1	12.3	12.4	12.6	12.7	12.9	3
4	13.0	13.2	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.4	4
5	14.5	14.7	14.8	15.0	15.1	15.3	15.4	15.6	15.7	15.9	5
6	16.0	16.2	16.3	16.5	16.6	16.8	16.9	17.1	17.2	17.4	6
7	17.5	17.7	17.8	18.0	18.1	18.3	18.4	18.6	18.7	18.9	7
8	19.0	19.2	19.3	19.5	19.6	19.8	19.9	20.1	20.2	20.4	8
9	20.5	20.7	20.8	21.0	21.1	21.3	21.4	21.6	21.7	21.9	9
10	22.0	22.2	22.3	22.5	22.6	22.8	22.9	23.1	23.2	23.4	10
11	23.5	23.7	23.8	24.0	24.1	24.3	24.4	24.6	24.7	24.9	11
12	25.0	25.2	25.3	25.5	25.6	25.8	25.9	26.1	26.2	26.4	12
13	26.5	26.7	26.8	27.0	27.1	27.3	27.4	27.6	27.7	27.9	13
14	28.0	28.2	28.3	28.5	28.6	28.8	28.9	29.1	29.2	29.4	14
15	29.5	29.7	29.8	30.0	30.1	30.3	30.4	30.6	30.7	30.9	15
16	31.0	31.2	31.3	31.5	31.6	31.8	31.9	32.1	32.2	32.4	16
17	32.5	32.7	32.8	33.0	33.1	33.3	33.4	33.6	33.7	33.9	17
18	34.0	34.2	34.3	34.5	34.6	34.8	34.9	35.1	35.2	35.4	18
19	35.5	35.7	35.8	36.0	36.1	36.3	36.4	36.6	36.7	36.9	19
20	37.0	37.2	37.3	37.5	37.6	37.8	37.9	38.1	38.2	38.4	20
21	38.5	38.7	38.8	39.0	39.1	39.3	39.4	39.6	39.7	39.9	21
22	40.0	40.2	40.3	40.5	40.6	40.8	40.9	41.1	41.2	41.4	22
23	41.5	41.7	41.8	42.0	42.1	42.3	42.4	42.6	42.7	42.9	23
24	43.0	43.2	43.3	43.5	43.6	43.8	43.9	44.1	44 2	44.4	24
25	44.5	44.7	44.8	45.0	45.1	45.3	45.4	45.6	45.7	45.9	25
26	46.0	46.2	46.3	46.5	46.6	46.8	46.9	47.1	47.2	47.4	26
27	47.5	47.7	47.8	48.0	48.1	48.3	48.4	48.6	48.7	48.9	27
28	49.0	49.2	49.3	49.5	49.6	49.8	49.9	50.1	50.2	50.4	28
29	50.5	50.7	50.8	51.0	51.1	51.3	51.4	51.6	51.7	51.9	29
30	52.0	52.2	52.3	52.5	52.6	52.8	52.9	53.1	53.2	53.4	30
31	53.5	53.7	53.8	54.0	54.1	54.3	54.4	54.6	54.7	54.9	31
32	55.0	55.2	55.3	55.5	55.6	55.8	55.9	56.1	56.2	56.4	32
33	56.5	56.7	56.8	57.0	57.1	57.3	57.4	57.6	57.7	57.9	33
34	58.0	58.2	58.3	58.5	58.6	58.8	58.9	59.1	59.2	59.4	34
35	59.5	59.7	59.8	60.0	60.1	60.3	60.4	60.6	60.7	60.9	35
36	61.0	61.2	61.3	61.5	61.6	61.8	61.9	62.1	62.2	62.4	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.