

GRADES

121

PAST

FIELD BOOK

No. 335

05643
39702

200
18207
36207
36207
7110

Our Leather Bound Engineers Note Books are carried in the following rulings:

- No. 380 LEVEL BOOK. Left and Right Hand Page the same as Left Hand Page of this Book.
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ENGINEERING and DRAFTING SUPPLIES

IRVING PARK STATION

CHICAGO, ILL.

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APR 8 1965

Index.

- | | | |
|----|---------------------------------------|------------------|
| 2 | El Cerrito Rd. Port. Bk 9. | Series |
| 3 | 60 th x Madison. | " |
| 4 | 59 th - Row Bk 7. | " |
| 5 | 58 th | " |
| 6 | Alice - Row Bk 8 | " |
| 7 | Esther + Ashby | " |
| 9 | Ties - El Cerrito Apts. | |
| 10 | Ashby St | Grades. |
| 11 | Madison Ave | " |
| 13 | Alice St | " |
| 15 | El Cerrito Dr | " |
| 17 | Esther St | " |
| 18 | 58 th - 60 th | " |
| 20 | Corb Grader for Fire Hydrants | |
| 21 | 59 th | " |
| 22 | San Elijo St. + Quail through | Grades, Culverts |
| 25 | San Antonio | " |
| 26 | Thomas + Bayard + Emerald | Series |
| 27 | Ties Diamond to Reed. - Ocean to Cass | |
| 30 | Emerald + Felspar + Hornblend | Grades |
| 36 | Bayard - Thomas - | " |
| 40 | Culverts - Felspar - Grand | |
| 42 | Ocean Blvd | Grades |
| 44 | El Cajon Ave El Cerrito | |
| 46 | Water Allison etc | |

1/15/29

47 Alley 1216 P Valle Vista Terr Grade

48 " 6 Hillcrest "

49 45 Park Villa

50 Curb Grade Reed Thomas Grand

Hamblend Felipe, Emerald

51 Rosecrans Quail Trunk Rogers

57 Ties El Retiro Grade

66 Reno St Sewer "

67 Estrella St "

69 El Cerrito Dr 58th Ashby

Some Construction
El Cerrito Drive And R. on Blk 9
EL CERRITO HGHTS

Sheet 9

070 - DE 21002 E of El Cerrito	7193 46500	6932 6338 -6555	849 819 -230	410.26 11.93 476.12	300' N = MH 20	45190	11.26 11.26 -2.57
150' N	6244			403.82 467.93	50' N	5209	11.87 11.87 -2.77
100'	6185	1095 -471		403.82 467.93	100' N	5222	11.88 11.88 -2.69
50'	6032		166 -403	403.82 467.93	150' N	5247	11.88 11.88 -2.70
200'	5876	1817 625 -1192		403.82 467.93	200' N	5266	11.88 11.88 -2.71
400' - MH 19 of El Cerrito Dr	45750		1443 -236	403.82 467.93	250' N	5296	11.88 11.88 -2.72
50' N	5730	1663 -418		403.82 467.93	300' N = DE	45300	11.88 11.88 -2.73
100' N	5710		1817 -1568	403.82 467.93			
150' N	5690	1593 -1671		403.82 467.93			
200' N	5670	1753 1423 -330		403.82 467.93			
250' N	5650		1817 -1568	403.82 467.93			
300' N	5630	1163 -427		403.82 467.93			
321.82' N - MH 18	45620		1292 -275	403.82 467.93			
50' N	5586	1292 -275		403.82 467.93			
100' N	5552		1292 -275	403.82 467.93			
150' N	5518	1275 -241		403.82 467.93			
200' N	5484		1275 -241	403.82 467.93			
250' N	5451	1242 -206		403.82 467.93			
300' N	5417		1242 -206	403.82 467.93			
325' N - MH 17 of Mid. sec	45400		1242 -206	403.82 467.93			
50' N	45090	1242 -206		403.82 467.93			
100' N	4510	1242 -206		403.82 467.93			
150' N	4530	1242 -206		403.82 467.93			
200' N	4550		1242 -206	403.82 467.93			
250' N	4570	1141 -304		403.82 467.93			

21832

Senior Construction 60' St. + Main Section
EL CERRITO HEIGHTS

4-19-27

Sheet 8

0+0 - D.M.H. 17	450.70	451.00	451.00	50'S NH 2
50' F	50.53	50.53	50.53	100'S
100' F	50.35	50.35	50.35	119.775 - NH 4 Δ
150' F	51.18	51.18	51.18	50' F
200' F	50.00	50.00	50.00	100' F
250' F	49.83	49.83	49.83	150' F
295' F - D.M.H. 15 & 68' St.	449.70	451.00	451.00	200' F
50' F	48.09	48.09	48.09	250' F
100' F	46.47	46.47	46.47	300' F
150' F	44.86	44.86	44.86	340.775 - NH 1 & 60' St.
200' F	43.24	43.24	43.24	50' N
250' F	41.62	41.62	41.62	100' N
300' F - NH 10 & 110' St.	40.00	40.00	40.00	150' N
50' F	48.61	48.61	48.61	200' N
100' F	47.23	47.23	47.23	250' N
182.10' F - NH 71	251.00	251.00	251.00	300' N - NH 7
50' F	52.18	52.18	52.18	50' N
100' F	53.37	53.37	53.37	100' N
115.210' F - NH 6 & 50' St.	154.00	154.00	154.00	150' N
50' F	55.00	55.00	55.00	200' N
100' F	55.39	55.39	55.39	232.247 - 9' F
150' F	55.99	55.99	55.99	
200' F	56.18	56.18	56.18	
250' F	56.58	56.58	56.58	
309.20' F - NH 3 & Esther St.	157.00	157.00	157.00	

457.17	457.17	457.17	457.17	50'S NH 2
57.34	57.34	57.34	57.34	100'S
457.40	457.40	457.40	457.40	119.775 - NH 4 Δ
57.60	57.60	57.60	57.60	50' F
57.81	57.81	57.81	57.81	100' F
58.01	58.01	58.01	58.01	150' F
58.22	58.22	58.22	58.22	200' F
58.42	58.42	58.42	58.42	250' F
58.63	58.63	58.63	58.63	300' F
458.80	458.80	458.80	458.80	340.775 - NH 1 & 60' St.
59.00	59.00	59.00	59.00	50' N
59.20	59.20	59.20	59.20	100' N
59.40	59.40	59.40	59.40	150' N
59.60	59.60	59.60	59.60	200' N
59.80	59.80	59.80	59.80	250' N
460.00	460.00	460.00	460.00	300' N - NH 7
60.21	60.21	60.21	60.21	50' N
60.43	60.43	60.43	60.43	100' N
60.64	60.64	60.64	60.64	150' N
60.86	60.86	60.86	60.86	200' N
461.00	461.00	461.00	461.00	232.247 - 9' F

4-25-27

Distance	Description	Value	Notes
0.00	DE = 10 E of Lot 7 & 100 ft	462.00	11.11 19.75 +6.90
50 W		61.14	11.11 20.3 +6.70
100 W		60.28	11.97 17.5 +7.72
150 W		59.42	11.97 17.5 +7.72
200 W		58.56	7.60 +6.38
250 W		57.70	10.75 +6.12
290.55 W	M.H. 7 of 1st Prod	457.00	10.65 12.05 +7.80
50 W		56.59	12.05 12.7 +7.80
100 W		56.18	12.05 12.7 +7.80
150 W		55.77	12.05 12.7 +7.80
200 W		55.36	14.60 +7.94
250 W		54.95	14.60 +7.94
293.31 W	M.H. 6 of 1st Prod	452.60	15.06 +7.87
50 W		54.75	14.60 +7.94
100 W		54.90	14.60 +7.94
150 W		55.05	14.60 +7.94
200 W		55.20	14.60 +7.94
250 W		55.35	14.60 +7.94
300 W	M.H. 8	455.50	14.60 +7.94
50 W		55.71	14.60 +7.94
100 W		56.02	14.60 +7.94
150 W		56.33	14.60 +7.94
200 W		56.64	14.60 +7.94
250 W		56.95	14.60 +7.94
295 W	DE	457.00	14.60 +7.94

Distance	Description	Value	Notes
0.00	M.H. 7 of 59/45	457.00	10.65 12.05 +7.80
50 W		58.70	10.65 12.05 +7.80
100 W		60.40	10.65 12.05 +7.80
150 W		62.10	10.65 12.05 +7.80
200 W		63.80	10.65 12.05 +7.80
250 W		65.50	10.65 12.05 +7.80
279.45 W	DE	411.50	10.65 12.05 +7.80

Senior Coast road 58454

1-28-27

5

Time	Location	Value	Notes
	NH 15	456.50	114.11 129.35 120.52 +85.3
50.0		57.95	15.78 8.75 +6.4
100.0		59.41	13.74 7.55 +6.19
150.0		60.86	12.88 6.74
200.0		62.32	10.53 5.02 +5.79
250.0		63.77	10.68 4.26 +5.32
275.0	NH 16	64.50	8.63 5.75 +6.75
50.0		64.98	8.14 3.13 +6.09
100.0		65.46	8.66 4.89
150.0		65.94	8.18 3.66 +6.56
200.0		66.42	7.60 1.70 +6.4
260.0	D.F.	67.00	

0.291

1600

114.11
129.35
120.52
+85.3

15.78
8.75
+6.4

13.74
7.55
+6.19

12.88
6.74

10.53
5.02
+5.79

10.68
4.26
+5.32

8.63
5.75
+6.75

8.14
3.13
+6.09

8.66
4.89

8.18
3.66
+6.56

7.60
1.70
+6.4

0.291
NH 15

Solar Construction Alice St And From Bk 8

E1 Corridor Heights

4-21-27

Dead End 295' N of Madison	451.50	12.54 6.75 13.97 13.21 48.01	12.54 6.75 13.97 13.21 48.01	57.54 Madison Office
50'S	48.83	12.54 6.75 13.97 13.21 48.01	12.54 6.75 13.97 13.21 48.01	
100'S	46.15	12.54 6.75 13.97 13.21 48.01	12.54 6.75 13.97 13.21 48.01	
140'S - MH 21	444.00	12.54 6.75 13.97 13.21 48.01	12.54 6.75 13.97 13.21 48.01	
50'S	42.63	12.54 6.75 13.97 13.21 48.01	12.54 6.75 13.97 13.21 48.01	
100'S	41.25	12.54 6.75 13.97 13.21 48.01	12.54 6.75 13.97 13.21 48.01	
145'S - MH 10 of Madison	410.00	12.54 6.75 13.97 13.21 48.01	12.54 6.75 13.97 13.21 48.01	
50'S	45.44	12.54 6.75 13.97 13.21 48.01	12.54 6.75 13.97 13.21 48.01	
100'S	50.88	12.54 6.75 13.97 13.21 48.01	12.54 6.75 13.97 13.21 48.01	
150'S	56.32 out	12.54 6.75 13.97 13.21 48.01	12.54 6.75 13.97 13.21 48.01	
165'S - MH 9	458.00	12.54 6.75 13.97 13.21 48.01	12.54 6.75 13.97 13.21 48.01	
50'S	59.50	12.54 6.75 13.97 13.21 48.01	12.54 6.75 13.97 13.21 48.01	
100'S	61.00	12.54 6.75 13.97 13.21 48.01	12.54 6.75 13.97 13.21 48.01	
150'S	62.50	12.54 6.75 13.97 13.21 48.01	12.54 6.75 13.97 13.21 48.01	
200'S	64.00	12.54 6.75 13.97 13.21 48.01	12.54 6.75 13.97 13.21 48.01	
250'S	65.50	12.54 6.75 13.97 13.21 48.01	12.54 6.75 13.97 13.21 48.01	
300'S - MH 8 A	467.00	12.54 6.75 13.97 13.21 48.01	12.54 6.75 13.97 13.21 48.01	
50' N	67.28	12.54 6.75 13.97 13.21 48.01	12.54 6.75 13.97 13.21 48.01	
100' N	67.56	12.54 6.75 13.97 13.21 48.01	12.54 6.75 13.97 13.21 48.01	
150' N	67.84	12.54 6.75 13.97 13.21 48.01	12.54 6.75 13.97 13.21 48.01	
200' N	68.12	12.54 6.75 13.97 13.21 48.01	12.54 6.75 13.97 13.21 48.01	
248.48 - A	68.39	12.54 6.75 13.97 13.21 48.01	12.54 6.75 13.97 13.21 48.01	
267.5' N - DI	418.50	12.54 6.75 13.97 13.21 48.01	12.54 6.75 13.97 13.21 48.01	

Solar Construction Alice St And Admin Men

Total Line to Alice Moved 5' Top

DE - 282.56 St. Adams	451.00	11.04 4.87 12.82 46.35	11.04 4.87 12.82 46.35	57.54 Madison Office
50' N	48.17	11.04 4.87 12.82 46.35	11.04 4.87 12.82 46.35	
100' N	45.04	11.04 4.87 12.82 46.35	11.04 4.87 12.82 46.35	
150' N	42.50	11.04 4.87 12.82 46.35	11.04 4.87 12.82 46.35	
200' N	39.17	11.04 4.87 12.82 46.35	11.04 4.87 12.82 46.35	
250' N	36.83	11.04 4.87 12.82 46.35	11.04 4.87 12.82 46.35	
282.56 - MH 11 of Adams	435.00	11.04 4.87 12.82 46.35	11.04 4.87 12.82 46.35	
10' N	42.50	11.04 4.87 12.82 46.35	11.04 4.87 12.82 46.35	
80' N	41.00	11.04 4.87 12.82 46.35	11.04 4.87 12.82 46.35	
120' N	40.20	11.04 4.87 12.82 46.35	11.04 4.87 12.82 46.35	
155	40.50	11.04 4.87 12.82 46.35	11.04 4.87 12.82 46.35	
160' N - Sedgewick St	393.00	11.04 4.87 12.82 46.35	11.04 4.87 12.82 46.35	
160' N - Adams + 175 by St	400.00	11.04 4.87 12.82 46.35	11.04 4.87 12.82 46.35	

107.26	408.46	408.46	408.46
408.46	408.46	408.46	408.46
80			
90			
100			
110			

5-20-27

0+0 = Schling Tank No 1 St. Francis	429.00	ON 461.00 14.66 12.30 15.00	5-11-70 Molteni Fisher
50 S	430.52	13.09 12.01 15.09	
100 S	432.04	15.77 12.67	
150 S	433.56	15.92 14.21 14.51	
200 S	435.09	19.84 15.27	5-11-70 Molteni Fisher
236 S	436.00	15.13 15.27	43.77
50 S	439.23	18.35 15.67	
100 S	442.46	11.99 17.89	
150 S	445.69	17.89 15.67	
200 S	448.92	17.89 15.67	
250 S	452.15	17.89 15.67	
300 S	455.38	17.89 15.67	
420 S	457.00	17.89 15.67	

2000

1000

5-16-27

N H H 70 - 2 Nadscom Hill	420.00	19.88 12.33 11.24	ON 447.25 17.23 15.98	5-11-70 Molteni Fisher
220 W	426.00	12.33 11.24	17.33 15.98	
104 130 W - M H 12 A	432.00	12.33 11.24	17.33 15.98	
50 W	438.40	12.33 11.24	17.33 15.98	
120 W	444.80	12.33 11.24	17.33 15.98	
150 W	451.20	12.33 11.24	17.33 15.98	
200 W	457.60	12.33 11.24	17.33 15.98	
275 0.9 W - M H 12 A	464.00	12.33 11.24	17.33 15.98	
50 W	470.40	12.33 11.24	17.33 15.98	
100 W	476.80	12.33 11.24	17.33 15.98	
157 2.1 W - M H 12 A	483.20	12.33 11.24	17.33 15.98	
50 W	489.60	12.33 11.24	17.33 15.98	
100 W	496.00	12.33 11.24	17.33 15.98	
150 W	502.40	12.33 11.24	17.33 15.98	
200 W	508.80	12.33 11.24	17.33 15.98	
240 W	515.20	12.33 11.24	17.33 15.98	
252 2.1 W - Schling Tank No 2 St. Francis	521.60	12.33 11.24	17.33 15.98	

1075

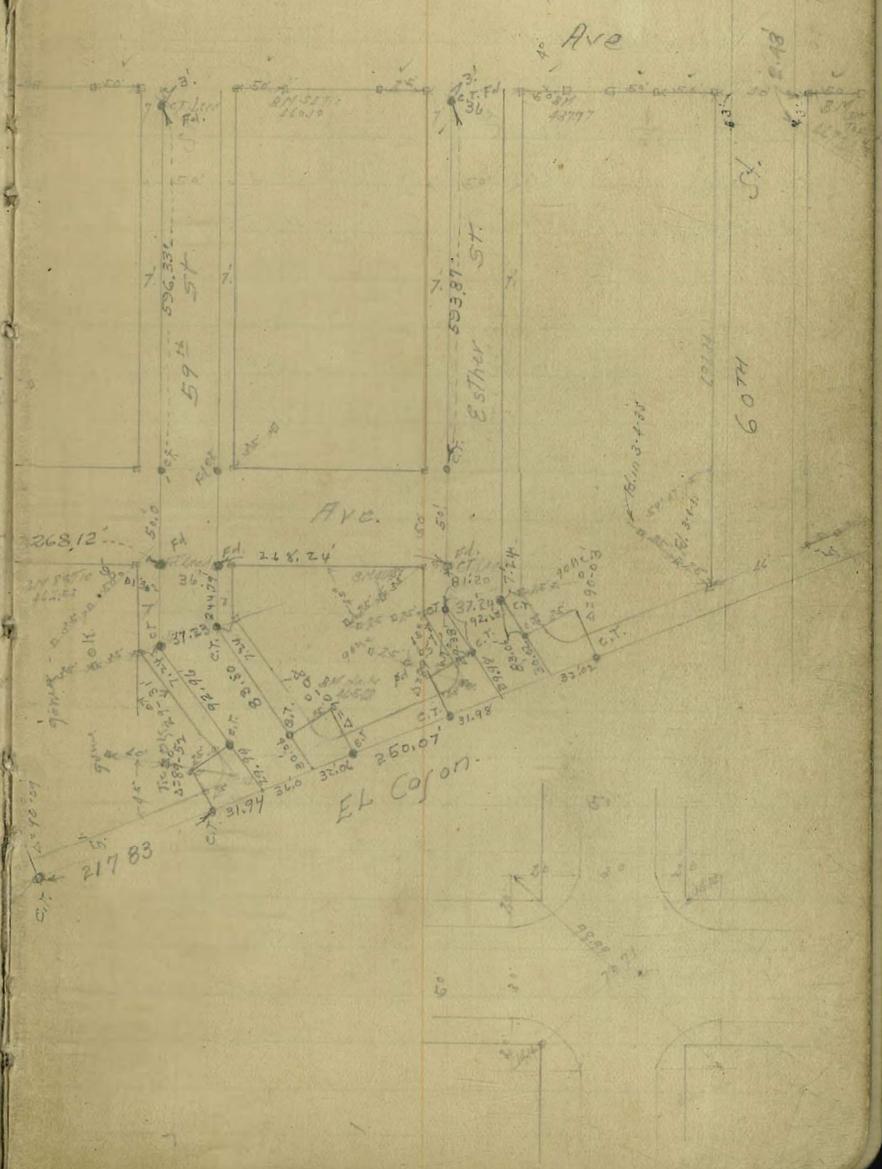
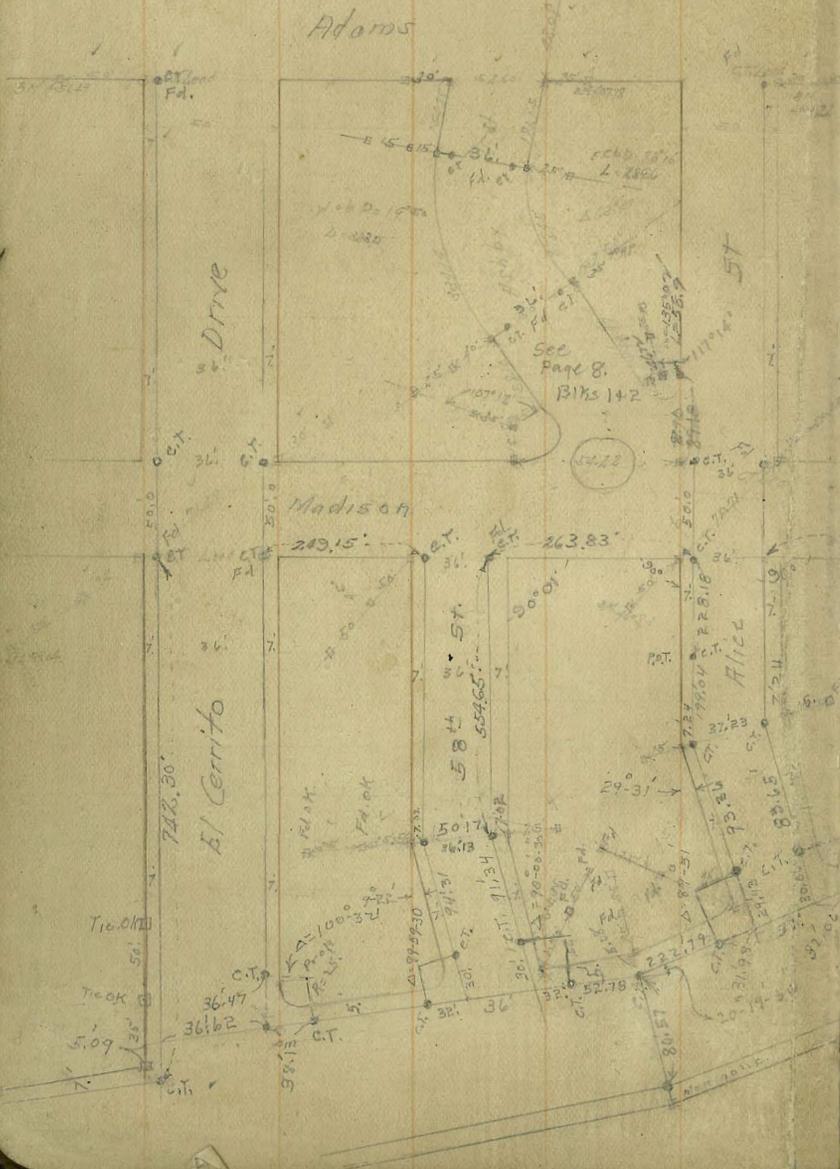
1370

5695

SE	AM.	S. H. Cor. Schling Tank	REC.
411.31	411.31	411.31	411.31
13.30	16.20	13.30	16.20
397.19	395.11	398.01	396.15

The Pl's Replac at May 33
with
Walker
Belish.

Plotted on Tie shoots
C.S.K.



412.210
31 408.3 SW 7/8
Nod. 300 ft. Elev

W Line	East Line
PC S.W. Ashby & Nod. 300 ft	PC NW 1/4 446.00
FC	FC
50' N.W. of FC	50' N.W. of FC
100' N.W.	100' N.W.
158.10' N.W. - P.C.P.	143.47 - P.C.
313.79' N	189.88
369.48' N	236.29
325.17' N	282.70
380.86' N	329.11
431.55' N	375.52
492.24' N	421.93
542.24	471.93
592.24	521.93
642.24	571.93
692.01	625.14

F	412.210	412.210	37.42	32.23	20.25	24.25	20.25	25.05
W	412.210	412.210	37.42	32.23	20.25	24.25	20.25	25.05
E	412.210	412.210	37.42	32.23	20.25	24.25	20.25	25.05
N	412.210	412.210	37.42	32.23	20.25	24.25	20.25	25.05

For Side Walks Stakes See Page 64

Retaining Wall Ashby St + Adams St

End of Wall SW of F Line	397.33	81 407.78
Top " S. Ashby	398.08	81 408.57
" " West End	398.33	81 409.36
392.51' W.L.		81 410.15

Grades Madison Ave
El Cerrito to Esther

5-28-27

Prop. Grades

Station	Grade	Prop. Grade	Notes	Grade	Grade	Grade	Grade	Grade	Grade	Grade	Grade
EL El Cerrito Dr	410.10	410.60	SM 45904	H	410.87	40.65	40.92	41.10	41.38	41.50	41.74
50'E	60.37	60.92	46.55		6.5	6.6	6.5	6.6	6.4	6.5	6.2
100'E	60.65	61.21	56.57		6.3	6.6	6.5	6.6	6.5	6.5	6.5
150'E	60.92	61.56	66.57		6.4	6.6	6.5	6.6	6.5	6.5	6.5
200'E	61.20	61.88	76.57		6.5	6.6	6.5	6.6	6.5	6.5	6.5
235'E	411.38	412.10	86.57		6.6	6.6	6.5	6.6	6.5	6.5	6.5
50'E	410.50	411.60	96.57		6.7	6.6	6.5	6.6	6.5	6.5	6.5
90'E	459.22	59.92	106.57		6.8	6.6	6.5	6.6	6.5	6.5	6.5
130'E	56.22	57.28	116.57		6.9	6.6	6.5	6.6	6.5	6.5	6.5
180'E	52.22	54.58	126.57		7.0	6.6	6.5	6.6	6.5	6.5	6.5
237.72'E	449.74	51.47	136.57		7.1	6.6	6.5	6.6	6.5	6.5	6.5
268.81'E	04	49.79	146.57		7.2	6.6	6.5	6.6	6.5	6.5	6.5
300'E	449.10	449.10	156.57		7.3	6.6	6.5	6.6	6.5	6.5	6.5
EL Ellice	447.60	448.10	166.57		7.4	6.6	6.5	6.6	6.5	6.5	6.5
42.5'E	450.72	451.33	176.57		7.5	6.6	6.5	6.6	6.5	6.5	6.5
85'E	453.85	454.56	186.57		7.6	6.6	6.5	6.6	6.5	6.5	6.5
125'E	456.58	457.11	196.57		7.7	6.6	6.5	6.6	6.5	6.5	6.5
165'E	458.19	458.19	206.57		7.8	6.6	6.5	6.6	6.5	6.5	6.5
209.6'E	459.89	459.89	216.57		7.9	6.6	6.5	6.6	6.5	6.5	6.5
254.22'E	460.60	460.60	226.57		8.0	6.6	6.5	6.6	6.5	6.5	6.5

Grades Madison Ave Cont

	N	S	N 462.59 @ Ford
1.4 59 1/2	461.10	461.60	462.59 -1.76 460.83
50 F	461.59	462.09	
100 F	462.08	462.58	
150 F	462.58	463.08	
200 F	463.07	463.57	
250 F - N.E. 1/4	463.60	464.10	

N	461.10	461.59	462.08	462.58	463.07	463.60
	6.90	6.4	5.9	5.0	4.1	3.1
	5.4	5.0	4.5	3.6	2.6	1.6
	+1.5	+1.1	+0.6	+0.3	-0.7	-0.2

S	461.60	462.09	462.58	463.08	463.57	464.10
	6.4	5.9	5.4	4.5	3.6	2.6
	4.9	4.5	4.0	3.1	2.1	1.1
	+1.7	+1.1	+0.7	+0.3	-0.9	-0.8

Grades Alice St. Cont.

	E	N	47422 N. Street				
373 S 02 E	471.86	471.51	471.87	E	471.61	71.80	72.10
379 69 00 W			471.87		471.61	72.80	72.59
416 03 W - Δ 02 E	471.80	472.27	471.78		6.8	5.3	2.1
429 S 55 - Δ 00 W	472.98				5.7	5.7	4.7
					7.0	2.0	0.5
					4.8	4.8	7.0
457 91 W 02 E	471.85	472.27		W	471.51	72.77	72.88
472 75 72 W	473.83	473.20			6.3	72.00	72.72
498 79 N - E 1/4	472.10	472.88			5.7	4.0	2.1
524 48 R.C.	473.59	473.72			4.6	4.0	2.0
						20.6	10.4

Grades El Carrito Drive
El Cajon to Adams

Station	Grade	Station	Grade
457.50		461.50	
58.82		464.50	
59.91		466.50	
61.00		469.50	
61.74		470.00	
62.48			
63.21			
63.50			
63.75			
64.00			
63.80			
63.60			
63.50			
62.77			
62.04			
61.81			
60.58			
460.00		460.50	

459.77
462.21
464.50
467.15
469.50
470.00
cont. Hab
El Cajon to Adams

Station	Grade	Station	Grade
469.77		469.77	
459.50		60.50	
72.2		61.50	
61.2		62.24	
73.7		62.88	
		63.21	
		63.50	
		63.75	
		64.00	
		63.80	
		63.60	
		63.50	
		62.77	
		62.04	
		61.81	
		60.58	
		460.50	

459.04 = BM. on the S.W. corner of El Carrito
460.50 = T
460.50 = PC.
459.50 = ECODN = PC.
6.08 = 6.11

460.55 = Ch. Curve - EC. on S.W. corner
460.56 = EC. on N. side
460.05 = EC. on N. side
460.00 = PC.
5.03 = 5.53 = 5.67

Grades El Cerrito Drive Cont
El Cajon to Adams

16
1-28-27

Station	W	E	Notes	17008	16000	5978	5956	5934	1015	5911	5889	5867	5845
N.L. Madison Ave	459.50	460.00	H 47000 St. Tam	47008	16000	5978	5956	5934	1015	5911	5889	5867	5845
50' N	59.34	59.78	459.84 463.65 456.48	10.00 10.00 10.00	10.7	10.4	10.1	9.8	4.5	4.8	5.0	5.2	5.4
100' N	59.17	59.56	500' to Adams 156.49						4.7	4.9	5.1	5.3	5.5
150' N	59.01	59.34							4.6	4.8	5.0	5.2	5.4
200' N	58.84	59.11							4.5	4.7	4.9	5.1	5.3
250' N	58.68	58.88							4.4	4.6	4.8	5.0	5.2
300' N	58.51	58.67							4.3	4.5	4.7	4.9	5.1
350' N	58.34	58.45							4.2	4.4	4.6	4.8	5.0
400' N	58.17	58.22							4.1	4.3	4.5	4.7	4.9
450' N - Break	458.00	458.00							4.0	4.2	4.4	4.6	4.8
500' N	57.34	57.39							3.9	4.1	4.3	4.5	4.7
550' N	56.67	56.76							3.8	4.0	4.2	4.4	4.6
595' N - P.C. 007		456.93							3.7	3.9	4.1	4.3	4.5
600' N - S.L. 1100000	456.00								3.6	3.8	4.0	4.2	4.4
									3.5	3.7	3.9	4.1	4.3

$465.58 = 1$ from page 15
 $\frac{7.06}{158.52} = 0.0445$
 $158.52 \times 0.0445 = 7.06$
 $158.52 - 7.06 = 151.46$
 $151.46 \times 0.0445 = 6.74$
 $151.46 - 6.74 = 144.72$
 $144.72 \times 0.0445 = 6.44$
 $144.72 - 6.44 = 138.28$
 $138.28 \times 0.0445 = 6.14$
 $138.28 - 6.14 = 132.14$
 $132.14 \times 0.0445 = 5.88$
 $132.14 - 5.88 = 126.26$
 $126.26 \times 0.0445 = 5.62$
 $126.26 - 5.62 = 120.64$
 $120.64 \times 0.0445 = 5.37$
 $120.64 - 5.37 = 115.27$
 $115.27 \times 0.0445 = 5.12$
 $115.27 - 5.12 = 110.15$
 $110.15 \times 0.0445 = 4.88$
 $110.15 - 4.88 = 105.27$
 $105.27 \times 0.0445 = 4.64$
 $105.27 - 4.64 = 100.63$
 $100.63 \times 0.0445 = 4.41$
 $100.63 - 4.41 = 96.22$
 $96.22 \times 0.0445 = 4.18$
 $96.22 - 4.18 = 92.04$
 $92.04 \times 0.0445 = 3.96$
 $92.04 - 3.96 = 88.08$
 $88.08 \times 0.0445 = 3.74$
 $88.08 - 3.74 = 84.34$
 $84.34 \times 0.0445 = 3.53$
 $84.34 - 3.53 = 80.81$
 $80.81 \times 0.0445 = 3.32$
 $80.81 - 3.32 = 77.49$
 $77.49 \times 0.0445 = 3.12$
 $77.49 - 3.12 = 74.37$
 $74.37 \times 0.0445 = 2.93$
 $74.37 - 2.93 = 71.44$
 $71.44 \times 0.0445 = 2.74$
 $71.44 - 2.74 = 68.70$
 $68.70 \times 0.0445 = 2.56$
 $68.70 - 2.56 = 66.14$
 $66.14 \times 0.0445 = 2.39$
 $66.14 - 2.39 = 63.75$
 $63.75 \times 0.0445 = 2.23$
 $63.75 - 2.23 = 61.52$
 $61.52 \times 0.0445 = 2.08$
 $61.52 - 2.08 = 59.44$
 $59.44 \times 0.0445 = 1.94$
 $59.44 - 1.94 = 57.50$
 $57.50 \times 0.0445 = 1.80$
 $57.50 - 1.80 = 55.70$
 $55.70 \times 0.0445 = 1.67$
 $55.70 - 1.67 = 54.03$
 $54.03 \times 0.0445 = 1.55$
 $54.03 - 1.55 = 52.48$
 $52.48 \times 0.0445 = 1.43$
 $52.48 - 1.43 = 51.05$
 $51.05 \times 0.0445 = 1.32$
 $51.05 - 1.32 = 49.73$
 $49.73 \times 0.0445 = 1.22$
 $49.73 - 1.22 = 48.51$
 $48.51 \times 0.0445 = 1.13$
 $48.51 - 1.13 = 47.38$
 $47.38 \times 0.0445 = 1.04$
 $47.38 - 1.04 = 46.34$
 $46.34 \times 0.0445 = 0.96$
 $46.34 - 0.96 = 45.38$
 $45.38 \times 0.0445 = 0.88$
 $45.38 - 0.88 = 44.50$
 $44.50 \times 0.0445 = 0.81$
 $44.50 - 0.81 = 43.69$
 $43.69 \times 0.0445 = 0.74$
 $43.69 - 0.74 = 42.95$
 $42.95 \times 0.0445 = 0.68$
 $42.95 - 0.68 = 42.27$
 $42.27 \times 0.0445 = 0.62$
 $42.27 - 0.62 = 41.65$
 $41.65 \times 0.0445 = 0.57$
 $41.65 - 0.57 = 41.08$
 $41.08 \times 0.0445 = 0.52$
 $41.08 - 0.52 = 40.56$
 $40.56 \times 0.0445 = 0.47$
 $40.56 - 0.47 = 40.09$
 $40.09 \times 0.0445 = 0.43$
 $40.09 - 0.43 = 39.66$
 $39.66 \times 0.0445 = 0.39$
 $39.66 - 0.39 = 39.27$
 $39.27 \times 0.0445 = 0.35$
 $39.27 - 0.35 = 38.92$
 $38.92 \times 0.0445 = 0.32$
 $38.92 - 0.32 = 38.60$
 $38.60 \times 0.0445 = 0.29$
 $38.60 - 0.29 = 38.31$
 $38.31 \times 0.0445 = 0.26$
 $38.31 - 0.26 = 38.05$
 $38.05 \times 0.0445 = 0.23$
 $38.05 - 0.23 = 37.82$
 $37.82 \times 0.0445 = 0.21$
 $37.82 - 0.21 = 37.61$
 $37.61 \times 0.0445 = 0.18$
 $37.61 - 0.18 = 37.43$
 $37.43 \times 0.0445 = 0.16$
 $37.43 - 0.16 = 37.27$
 $37.27 \times 0.0445 = 0.14$
 $37.27 - 0.14 = 37.13$
 $37.13 \times 0.0445 = 0.12$
 $37.13 - 0.12 = 37.01$
 $37.01 \times 0.0445 = 0.10$
 $37.01 - 0.10 = 36.91$
 $36.91 \times 0.0445 = 0.09$
 $36.91 - 0.09 = 36.82$
 $36.82 \times 0.0445 = 0.08$
 $36.82 - 0.08 = 36.74$
 $36.74 \times 0.0445 = 0.07$
 $36.74 - 0.07 = 36.67$
 $36.67 \times 0.0445 = 0.06$
 $36.67 - 0.06 = 36.61$
 $36.61 \times 0.0445 = 0.05$
 $36.61 - 0.05 = 36.56$
 $36.56 \times 0.0445 = 0.04$
 $36.56 - 0.04 = 36.52$
 $36.52 \times 0.0445 = 0.03$
 $36.52 - 0.03 = 36.49$
 $36.49 \times 0.0445 = 0.02$
 $36.49 - 0.02 = 36.47$
 $36.47 \times 0.0445 = 0.01$
 $36.47 - 0.01 = 36.46$

Grades Esther St

El Cajon Ave to Adams St

	N	E	
S. Adams	434.50	434.00	SM 46.87 1.26 Esther
50.5	435.93	435.11	46.87 13.03 456.21
100.5	437.47	437.23	456.21 152.25 452.25 152.25 452.25
145.50 - E.V.C.	438.24	438.71	452.25 152.25 452.25 152.25 452.25
185.58	440.34	440.33	452.25 152.25 452.25 152.25 452.25 E. The Hos. Hosway Esther
225.58 - P.V.C.	442.54	442.62	
275.58	445.71	445.89	
325.58	448.89	449.11	
375.58	452.06	452.43	
425.58	455.24	455.70	
475.58 = Br. cat	458.41	457.00	
525.58	461.58	459.33	
575.58	464.75	461.66	
595.58 = N.L. Madison	468.50	469.00	
S.L. Madison H	464.00	464.50	SM 46.87 1.26 Esther
61.11 02 E	464.16	464.83	46.87 1.26 Esther
67.72 02 E-A	464.85	465.17	
109.07 02 E	464.85	465.56	
139.55 02 N	464.84	465.96	
150.57 02 E - FF N 4 El Cajon			
219.05 = P.C. N 4 El Cajon			

SM 46.87
1.26
Esther

	N	E										
	434.50	434.00	434.00	35.11	37.23	38.71	40.83	42.96	45.09	47.15	49.23	51.31
	435.93	435.11	435.11	35.11	37.23	38.71	40.83	42.96	45.09	47.15	49.23	51.31
	437.47	437.23	437.23	35.11	37.23	38.71	40.83	42.96	45.09	47.15	49.23	51.31
	438.24	438.71	438.71	35.11	37.23	38.71	40.83	42.96	45.09	47.15	49.23	51.31
	440.34	440.33	440.33	35.11	37.23	38.71	40.83	42.96	45.09	47.15	49.23	51.31
	442.54	442.62	442.62	35.11	37.23	38.71	40.83	42.96	45.09	47.15	49.23	51.31
	445.71	445.89	445.89	35.11	37.23	38.71	40.83	42.96	45.09	47.15	49.23	51.31
	448.89	449.11	449.11	35.11	37.23	38.71	40.83	42.96	45.09	47.15	49.23	51.31
	452.06	452.43	452.43	35.11	37.23	38.71	40.83	42.96	45.09	47.15	49.23	51.31
	455.24	455.70	455.70	35.11	37.23	38.71	40.83	42.96	45.09	47.15	49.23	51.31
	458.41	457.00	457.00	35.11	37.23	38.71	40.83	42.96	45.09	47.15	49.23	51.31
	461.58	461.66	461.66	35.11	37.23	38.71	40.83	42.96	45.09	47.15	49.23	51.31
	468.50	469.00	469.00	35.11	37.23	38.71	40.83	42.96	45.09	47.15	49.23	51.31
	464.00	464.50	464.50	35.11	37.23	38.71	40.83	42.96	45.09	47.15	49.23	51.31
	464.16	464.83	464.83	35.11	37.23	38.71	40.83	42.96	45.09	47.15	49.23	51.31
	464.85	465.17	465.17	35.11	37.23	38.71	40.83	42.96	45.09	47.15	49.23	51.31
	464.85	465.56	465.56	35.11	37.23	38.71	40.83	42.96	45.09	47.15	49.23	51.31
	464.84	465.96	465.96	35.11	37.23	38.71	40.83	42.96	45.09	47.15	49.23	51.31

17
5-1-37

Grades, 60th St. Adams to El Cajon Ave

5-27-27

	E	N	Corb Grades
St. Adams	46470	46470	3M 46442 ^{El Cajon} ₂₁₀ ^{Opinion} _{ETPS}
50 S	46457	46438	46453
100 S	46504	46456	8M 46478 ^{SESM} ₄₉₅ ^{El Cajon} ₁₇₂₇₃ ¹⁶¹
150 S	46571	46474	
200 S	46538	46492	
250 S	46555	46510	
300 S	46572	46528	
350 S	46590	46546	
400 S	46607	46564	
450 S	46624	46582	
500 S	46641	46600	
550 S	46659	46619	
600 S	46676	46637	
650 S	46693	46655	
669.62 = N.E. Capas 205	46700	out	
692.34 = " " " 215		46670	

F	46474	6487	6504	6521	6538	6555	6572	6590
	87	90	70	77	65	71	71	70
	87	94	76	83	67	70	63	66
	87	106	103	107	84	104	109	104
N	46420	6488	6456	6474	6492	6510	6528	6546
	87	85	84	82	80	78	76	75
	88	97	85	84	82	80	78	76
	104	108	101	103	102	101	104	100
F	6607	6624	6641	6658	6676	6693	72.93	
	68	67	65	63	62	60	59.3	
	67	71	70	70	70	67	63.3	
	87	84	85	87	87	81	104	
N	6564	6582	6600	6619	6637	6655	6670	
	83	71	69	67	66	64	62	
	82	83	87	80	80	81	84	
	103	100	102	107	106	103	102	

669.62

0.0023

692.34

10.836

Corb Grades For Fire Hyd

El Cerrito Hghts.

El Cajon Ave + 58th St					
B.M.	347	478.13	474.66	474.66	No. 54 El Cajon E of El Cerrito
			472.52	⁵⁶⁶ ₂₀₁₅	
El Cajon Ave + Alice					
B.M.	439	479.05	474.66	474.66	No. 52 El Cajon E of El Cerrito
			472.02	³²⁸ ₁₁₈₇	
El Cajon Ave + 59th St					
B.M.	240	468.68	465.28	465.28	N.E. 16th El Cajon + 59th St
			464.84	³⁸⁴ ₂₀₀	
El Cajon Ave + Esther					
B.M.	491	470.19	465.28	465.28	N.E. 16th El Cajon + 59th St
			465.91	⁴³⁸ ₂₀₀	
Madison + 59th St					
B.M.	370	466.23	462.03	462.03	S 57th Madison + 59th
			461.98	⁴²⁵ _{20.11}	
Adams + Alice	15 S of S L of Adams				
B.M.	0.52	454.74	454.22	454.22	Adams + Alice
			445.26	⁹⁴⁰ _{20.26}	
Adams + 59th St	15 S of S L of Adams				
B.M.	6.10	466.26	460.10	460.10	
			460.56	⁵⁴ _{20.00}	
Adams + Esther					
B.M.	197	439.74	437.77	437.77	
			434.18	⁵³⁴ ₁₀₇	
Adams + 60th St					
B.M.	473	472.71	479.99	479.99	S.E. 57th El Cajon + 60th
			464.75	⁷⁸⁷ ₁₀₇	

Corb Grades For Fire Hyd

20
6.10.27

El Cajon + El Cerrito

B.M.	607	463.22	457.15	457.15	El Cerrito + El Cajon
			459.65	³⁵⁷ _{20.07}	
Madison + El Cerrito					
B.M.	592	464.96	459.09	459.09	Madison + El Cerrito
			460.88	⁴³⁸ _{20.07}	
Adams + El Cerrito					
B.M.	136	460.85	456.49	456.49	Adams + El Cerrito
			456.39	⁴⁴¹ _{20.39}	
Madison + 58th St					
B.M.	727	468.10	460.83	460.83	S.M. 7th Madison + Alice
			462.25	⁵⁸⁵ _{10.00}	
Madison + Alice					
B.M.	0.98	461.81	460.83	460.83	S.M. 7th Madison + Alice
			449.73	¹²⁰⁸ _{10.00}	
El Cajon + 60th St	15 N of M. of El Cajon on E				
B.M.	344	471.13	467.99	467.99	S.E. 57th El Cajon + 60th
			466.97	⁴⁴¹ _{20.00}	

N 467.25 SMTT. Madison 10/6/68
SMTT. Madison 10/6/68

52527

Curb Grades

	E	N	
St. Adams	460.50	461.00	SM 460.83 Madison + 11.00
50'S	460.71	461.21	460.75 460.82 460.89
100'S	460.92	461.22	460.91 460.94
150'S	461.13	461.63	SM 460.70 Madison
200'S	461.33	461.83	
250'S	461.54	462.04	
300'S	461.75	462.25	
360'S = Break	462.00	462.50	
410'S	461.79	462.08	
460'S	461.58	461.66	
510'S	461.37	461.21	
560'S	461.16	460.83	
599'S = XL Madison	461.00	460.50	
St. Adams	461.50	461.00	SM 461.57 Madison 10/6/68
50'S = PVC	463.09	462.59	
90'S	464.00 464.70	463.50 463.63	
130'S	464.15 464.57	463.81 464.18	
170'S = PVC	464.30 464.50	464.14 464.23	
206.48	464.44 464.79	464.45 464.63	
244.91	464.59 463.84	464.28 463.84	
283.89	464.74 463.50	464.14 463.63	
322.72 = PC El Cajon	464.96 463.16	463.50 463.41	

E	466.02 460.50	60.71	60.92	61.13	61.33	61.54	61.75	62.00
	5.5 4.8 7.7	5.3 4.3 11.0	5.1 4.3 11.2	4.9 3.7 11.2	4.8 4.0 11.0	5.0 4.2 10.8	5.1 4.3 10.8	5.2 4.4 10.3
N	461.00	61.21	61.42	61.63	61.83	62.04	62.25	62.50
	5.0 4.7 10.3	4.8 4.1 10.2	4.6 3.8 10.7	4.4 3.6 10.4	4.3 3.5 10.2	4.4 3.6 10.2	4.5 3.7 10.4	4.6 3.8 10.2
E	461.79	61.58	61.37	61.16	61.00			
	5.7 4.7 7.7	5.6 4.3 10.7	5.0 4.8 11.0	4.8 4.6 11.4	6.15			
N	62.08	61.66	61.24	60.83	60.50			
	5.1 4.7 7.7	5.5 4.7 10.8	5.0 4.1 11.1	4.3 3.3 11.7	7.65			
E	461.50	63.09	64.10	64.15	64.30	64.44	64.58	64.74
	7.5 8.9 11.7	6.3 4.8 11.5	5.1 3.8 11.2	4.3 3.2 11.0	3.2 2.4 11.8	5.7 4.8 10.5	5.5 4.7 10.8	5.8 4.9 11.4
N	461.00	62.59	63.50	63.81	64.13	64.45	64.77	65.14
	8.3 6.8 7.6	6.7 5.6 10.6	5.3 4.6 10.4	4.2 3.2 10.8	3.1 2.1 10.9	5.3 4.4 10.8	5.1 4.2 11.1	5.7 4.6 11.4
St. Adams								
N	461.00	360'	→	462.50	339'	→	460.98	100.45
= PC. ch.								
460.83								
= St. Adams								
E	460.50			462.00				
= PC = St. Adams = F.L. on Madison								
461.04 461.07 461.10								

Grades Quothraugh St.
San Elijo to San Fernando

	S	N	Carb	Grades								
W.L. San Elijo	157.00	160.00	34	162.47	S.M.T.P.	76.16	88.65	100.13		209.31		
				12.97	San Elijo	67.50	75.00	82.00	89.20	73.60	82.00	1.555
				17.00	Quothraugh	2.7	18.1	16.1	10.7	15.7	19.3	1.98
50 N	166.50	167.50		178.02		4.8	15.0	10.3	2.8	8.2	16.7	1.01
				11.53		4.8		75.8	16.4	4.9	16.3	1.02
100 N	174.00	175.00		188.05								
				10.02								
				188.01								
160 N - P.C.	183.00	184.00		12.16								
				206.14								
200 N	189.40	189.40		179.55		S 159.00	66.50	74.00	83.00	88.40	92.60	2.00
				179.76			8.9	14.1	15.1	11.5	2.5	11.3
				206.31			8.5	11.5	7.9	2.4	2.5	2.5
				4.51			4.1	17.6	13.2	4.8	4.8	4.1.8
240 N - P.C.	192.60	193.60		201.80	Halls							
					San Fernando							
					P.C.							
					San							
					Quothraugh							
300 N - P.L. San Fernando	198.00	199.00			+ San Fernando							

Grados San Antonio Rio

150' S. S. L. Open + 0 Quattro 97

M 21.35 S. S. L. Open San Antonio
 8M. 11.17

5.2.27

	N	E	
S End of Improvement	6.90	5.90	SEAP SMAR 02 Pasceuse 37 5.181 13.08
25' N - Break	7.54	6.54	38.13 10.27
50' N	8.23	7.23	39.00
100' N	9.61	8.61	12.86 20.14 + 8.66
150' N - S. L. Open	11.00	10.00	26.70 - 12.19 14.51 + 6.54
N. L. Open	11.00	10.00	24.05 18.97 1.27
60' N - Break	11.60	10.60	6.22
100' N	10.98	9.98	24.30 17.28 7.02
150' N - Break	10.20	9.20	12.80 1.11 6.85 5.94
200' N	7.97	6.97	11.17 1.21 19.78 7.37 12.41 5.44 10.33 11.23 0.60 16.00 2.00
250' N	5.74	4.74	11.17 1.21 19.78 7.37 12.41 5.44 10.33 11.23 0.60 16.00 2.00
300' N - S. L. Perry St	3.50	2.50	12.41 5.44 10.33 11.23 0.60 16.00 2.00
N. L. Perry St	3.00	2.00	2.00
50' N	2.87	1.87	
100' N	2.74	1.74	
150' N	2.61	1.60	
200' N	2.47	1.47	M 2.00 2.78 SM - 0.78
250' N	2.34	1.34	SM - 0.78 SE San Antonio + Quattro 97
300' N - S. L. O	2.20	1.20	

M	6.90	7.54	8.23	9.61	11.00
	17.4	16.8	16.3	11.4	10.05
	12.8	12.3	11.7	8.9	10.04
F	6.90	6.54	7.23	8.61	10.00
	14.4	7.9	7.7	13.4	
	7.1	6.6	6.6	4.9	
	9.1	7.8	8.9	10.7	

M	11.00	19.78	10.98	10.20	7.97	5.74	10.98	3.50
		8.3	8.7	7.6	4.8	12.6	7.3	
		16.6	15.1	14.7	16.0	16.3	7.7	
F	10.00	10.60	9.98	9.20	6.97	4.74	9.98	2.50
		9.6	8.8	7.8	11.8	15.1	8.3	
		7.0	10.7	6.0	10	7.0	7.1	

Quattro 97

at 150' S. L. Perry St

at 150'

SM BP
E/W 11.17

Open

Server Construction Thomas Ave
Alley Between Bayard & Allison

4-11-27

N.L. Thomas & Alley part of Bayard on N	-1.88	7.54 7.74 8.64 +6.08	BM 652 1.72 1.72 1.72	SE 80 Grand Explored
40'S = M.H. & Thomas A	-2.44	19.89 +5.99	BM 210 1.72 1.72	SE 80 Thomas & Allison
50' N of M.H.	-3.14	12.79 +5.29	BM 210 1.72 1.72	SE 80 Thomas & Allison
100' N - M.H. & Allison S	-3.84	16.63 +5.41	BM 270 2.76 2.76	SE 80 Thomas & Allison
40'S = S.L. Thomas	-4.00	11.56 +4.85	BM 270 2.76 2.76	SE 80 Thomas & Allison

Thomas Ave Alley Between Allison & Ocean Blvd

N.L. Thomas	-1.71	10.64 +5.31	BM 210 1.72 1.72
40' = M.H. & Thomas	-1.87	12.54 +5.76	BM 210 1.72 1.72
40' S of M.H. = S.L. Thomas	-2.03	12.63 +5.75	BM 210 1.72 1.72

Server Construction Bayard St

Alley Between Emerald & Swamond

F.L. Bayard	27.48	10.08 3.67 12.83 +7.1	BM 652 1.72 1.72
40' N = S. Bayard M.H.	27.00	12.88 +7.2	BM 652 1.72 1.72
80' N = M.H.	26.72	13.37 6.05 +7.35	BM 652 1.72 1.72

Bayard St

(Alley Between Reed & Thomas

F.L. Bayard	-1.62	11.80 4.61 +6.99	BM 652 1.72 1.72
S	-1.94	12.16 5.03 +7.04	BM 652 1.72 1.72
M.L.	-2.26	12.44 5.21 +7.04	BM 652 1.72 1.72

Server Construction Bayard St
Alley Between Grand & Hornblend St

5-7-27

F.L. Bayard	7.17	14.43 7.18 +7.57	BM 1102 1.72 1.72
40' N = S. Bayard M.H.	7.31	14.74 7.07 +4.71	BM 1102 1.72 1.72
80' N = M.H.	6.75	15.25 7.63 +7.63	BM 1102 1.72 1.72

Bayard St & Alley Between Grand & Thomas

F.L. Bayard	2.47	10.81 +5.92	BM 652 1.72 1.72
40' N = S. M.H.	2.06	11.23 +5.51	BM 652 1.72 1.72
80' N = M.L. Bayard	1.64	11.62 4.29 +6.63	BM 652 1.72 1.72

Bayard St & Alley Between Hornblend & Grand

F.L. Bayard	12.99	11.75 3.11 +6.92	BM 652 1.72 1.72
40' N = S. M.H.	12.59	8.51 +6.23	BM 652 1.72 1.72
80' N = M.H.	12.19	9.36 8.21 +6.64	BM 652 1.72 1.72

Bayard St & Alley Between Garnet & Felspar

F.L. Bayard	16.66	11.75 2.11 +6.92	BM 652 1.72 1.72
40' N = S. M.H.	16.12	15.30 +7.77	BM 652 1.72 1.72
80' N = M.H.	15.56	13.66 6.26 +6.30	BM 652 1.72 1.72

Bayard St & Alley Between Felspar & Emerald

F.L. Bayard	28.50	23.15 3.15 +1.91	BM 652 1.72 1.72
40' N = S. M.H.	28.11	11.04 8.08 +5.99	BM 652 1.72 1.72
80' N = M.H.	27.51	11.4 6.97 +6.67	BM 652 1.72 1.72

Sewer Construction Emerald St.
Alley Between Allison St + Ocean Blvd.

5-12-27

27

N.L. Emerald St	19.04	1133.13 17.00 14.00 15.27	3M 30.97 2.25 1.00	SEBP Demand Allison
10'S = 2 Emerald M.H.	18.40	1422 15.27 16.21	33.13 2.66 2.50	
80'S = S.H. "	17.84	1520 15.27 16.21	23.01	

1113213
2.15
3M 22.78 SEBP
Expenditure
Allison

Falspar St Alley Between Allison + Ocean Blvd

N.L. Falspar St	13.44	1123.01 19.27 19.27 16.90	12.21 12.21	
40'S = 2 Falspar M.H.	12.80	1085 15.27 17.27	23.01 2.25	SEBP Grand Allison 1208
81'S = S.L. Falspar	12.16	1085 15.27 17.27	3M 17.02	

3M 14.08 SE
Grand
2.25
16.81
8.54
2.71

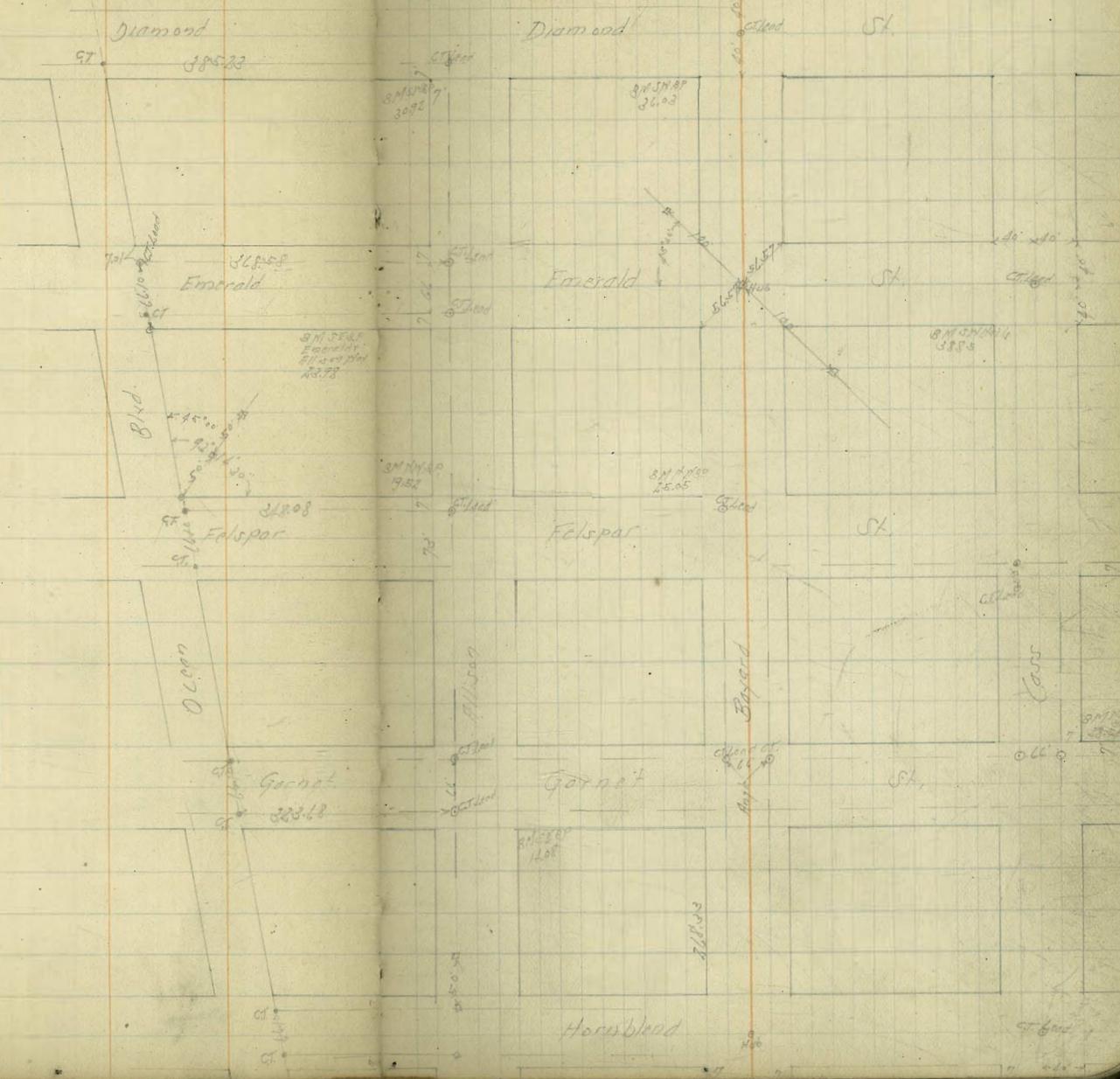
Horobland St Alley Between Allison + Ocean Blvd

N.L. Horobland	1.17	1685 17.27 17.27 15.27 17.27	13.16 1.25 1.25	SEBP Grand 1208 2.25
20'S = 2 " M.H.	3.67	1816 18.27 17.27	1.25 1.25	
80'S = S.H. "	3.21	1816 18.27 17.27		

Grand Ave Alley Between Allison + Ocean Blvd

N.L. Grand	0.65	1126 18.27 18.27	14.07 14.07	
62'S = 2 Grand M.H.	0.31	1816 18.27 17.27		
12.5'S = S.H. "	-0.23	1816 18.27 17.27		

23
SUNNY
2/10
D-11/11



Diamond

97

38523

Emerald

Bld.

Felspar

Olean

Garnet

32313

Diamond

38527
3092

Emerald

Felspar

Garnet

Hornbleed

St.

St.

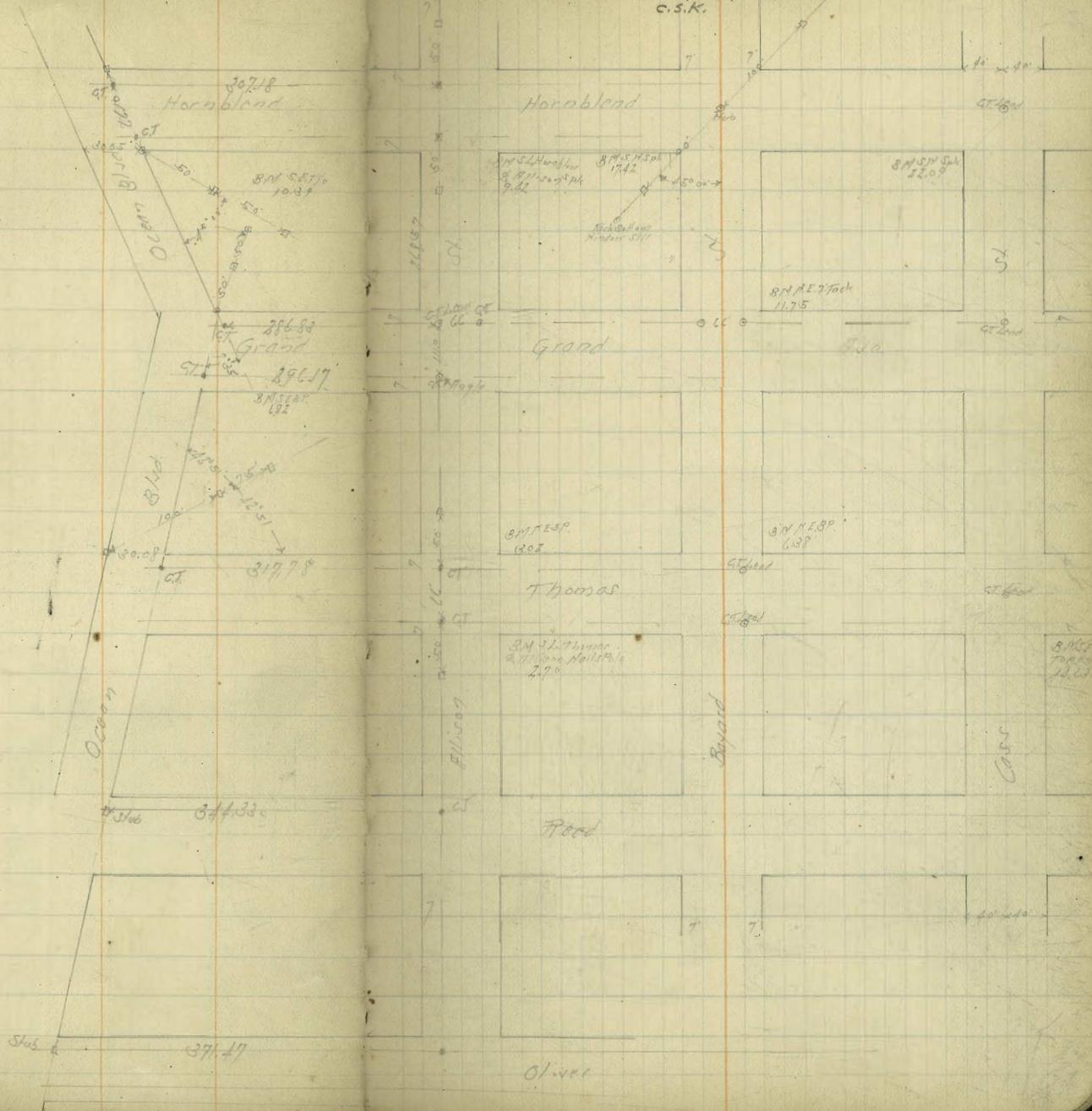
St.

St.

Car

Tias Reef Beach

Plotted on Tie point sheets
C.S.K.



Grades Emerald St Cont.

	S	N
HL Hill 500	25.15	26.15
50 ft	24.90	26.34
100 ft	24.65	26.03
150 ft	24.40	25.72
200 ft - Brk. FL Hill	24.15	25.40
220 ft - " " "	24.15	25.40
270 ft	24.77	26.02
320 ft	25.39	26.63
357 ft W - Fl. Ocean Blvd	25.85	out
368 ft W - " "	" "	27.15

29.97	24.77	25.39	25.85
24.15			
5.82	5.2	2.6	2.1
2.6	5.9	2.8	2.6
-0.8	-0.7	-0.3	-0.5

Grades Felspar St. Coar to Ocean Blvd.

51
5-17-27

	S	N									
H.L. Coar	32.15	32.15	35.20 10.18 25.05 Felspar Bayard	N	35.20 32.15	32.45	31.75	31.05	30.35	29.65	28.95
50'H	31.45	32.45	35.20 10.18 25.05 Felspar Bayard		31.45	32.45	31.75	31.05	30.35	29.65	28.95
100'H	30.75	31.75			30.75	31.75	31.05	30.35	29.65	28.95	
150'H	30.05	31.05		S	30.05	31.05	30.35	29.65	28.95		
200'H	29.35	30.35			29.35	30.35	29.65	28.95			
250'H	28.65	29.65			28.65	29.65	28.95				
300'H	27.95	28.95		N	27.95	28.95	28.25	27.55			
350'H	27.25	28.25			27.25	28.25	27.55				
400'H	26.55	27.55			26.55	27.55	26.85				
450'H	25.85	26.85		S	25.85	26.85	26.15				
500'H = E.L. Bayard	25.15	26.15			25.15	26.15	25.45				
H.L. Bayard	24.45	25.45		N	24.45	25.45	24.75	24.05	23.35	22.65	21.95
50'H	23.75	24.75			23.75	24.75	24.05	23.35	22.65	21.95	
100'H	23.05	24.05			23.05	24.05	23.35	22.65	21.95		
150'H	22.35	23.35		S	22.35	23.35	22.65	21.95	21.25	20.55	19.85
200'H	21.65	22.65			21.65	22.65	21.95	21.25	20.55	19.85	
250'H	20.95	21.95			20.95	21.95	21.25	20.55	19.85		
285'H = Break	20.15	21.15		N	20.15	21.15	20.45	19.75	19.05	18.35	17.65
300'H	20.01	21.01			20.01	21.01	20.31	19.61	18.91	18.21	17.51
350'H	19.55	20.55			19.55	20.55	19.85	19.15	18.45	17.75	17.05
400'H	19.09	20.09		S	19.09	20.09	19.39	18.69	17.99	17.29	16.59
450'H	18.63	19.63			18.63	19.63	18.93	18.23	17.53	16.83	16.13
500'H = E.L. Allison	18.15	19.15			18.15	19.15	18.45	17.75	17.05	16.35	15.65

Grades Felspar 54

6.14.57

	S	N.
W.L. Felt 1007	18.15	19.65
50'H	18.42	19.91
100'H	18.71	20.12
150'H	19.01	20.41
200'H	19.31	20.70
250'H	19.61	20.96
300'H	19.91	21.22
336.9'H - E.L. Ocean Blvd	20.15	out
341.6'H - E.L. Ocean Blvd		21.45

	N	19.65	19.91	20.12	20.41	20.70	20.96	21.22	21.45
			Corb 10				7.6 1.3 0.2	7.6 1.2 -0.3	7.6 2.1 20.1
S	18.15	18.42	18.71	19.01	19.31	19.61	19.91	20.15	
	7.1	8.8	8.6	9.5	3.3	6.8	7.6	7.1	
	5.8	2.7	-7.4	-0.9	0.0	-0.2	2.0	20.3	
	7.4								

ST 8.8
Cacoon
4.11.10
27.53
22.53
22.53
3.02
19.62
Felt 1007
+ 1010

1005
337.2

1005
341.1

Grades Hornblende St.

84
5-21-27

	S	N															
W.L. Cass	21.15	22.15	BM 21.54	NEBP	2.540												
50' N	20.70	21.70	21.09	Gravelly	22.15	21.70	21.25	20.80	20.35	19.90	19.45	19.00	18.55				
100' N	20.25	21.25	20.53	Cass	21.5	21	20.5	20	19.5	19	18.5	18	17.5				
150' N	19.80	20.80	20.29	BM 22.09	21	20.7	20.25	19.8	19.35	18.9	18.45	18	17.55				
200' N	19.35	20.35	19.89	Gravelly	2.3	2.7	3.2	3.7	4.2	4.7	5.2	5.7	6.2				
250' N	18.90	19.90	19.43	Gravelly	2.7	3.1	3.6	4.1	4.6	5.1	5.6	6.1	6.6				
300' N	18.45	19.45	18.99	Gravelly	3.1	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0				
350' N	18.00	19.00	18.53	Gravelly	3.5	3.9	4.4	4.9	5.4	5.9	6.4	6.9	7.4				
400' N	17.55	18.55	18.09	Gravelly	3.9	4.3	4.8	5.3	5.8	6.3	6.8	7.3	7.8				
450' N	17.10	18.10	17.63	Gravelly	4.3	4.7	5.2	5.7	6.2	6.7	7.2	7.7	8.2				
500' N - F.L. Bayard	16.65	17.65	17.19	Gravelly	4.7	5.1	5.6	6.1	6.6	7.1	7.6	8.1	8.6				
W.L. Bayard	16.15	17.15	16.69	Gravelly	5.1	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0				
50' N	15.54	16.54	16.08	Gravelly	5.5	5.9	6.4	6.9	7.4	7.9	8.4	8.9	9.4				
100' N	14.93	15.93	15.47	Gravelly	5.9	6.3	6.8	7.3	7.8	8.3	8.8	9.3	9.8				
150' N	14.31	15.31	14.85	Gravelly	6.3	6.7	7.2	7.7	8.2	8.7	9.2	9.7	10.2				
200' N	13.69	14.69	14.23	Gravelly	6.7	7.1	7.6	8.1	8.6	9.1	9.6	10.1	10.6				
250' N	13.08	14.08	13.62	Gravelly	7.1	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0				
300' N	12.46	13.46	13.00	Gravelly	7.5	7.9	8.4	8.9	9.4	9.9	10.4	10.9	11.4				
325' N - Break	12.15	13.15	12.69	Gravelly	7.9	8.3	8.8	9.3	9.8	10.3	10.8	11.3	11.8				
350' N	11.76	12.76	12.30	Gravelly	8.3	8.7	9.2	9.7	10.2	10.7	11.2	11.7	12.2				
400' N	10.86	11.86	11.40	Gravelly	8.7	9.1	9.6	10.1	10.6	11.1	11.6	12.1	12.6				
450' N	10.00	11.00	10.54	Gravelly	9.1	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0				
500' N - E.L. Allison	9.15	10.15	9.69	Gravelly	9.5	9.9	10.4	10.9	11.4	11.9	12.4	12.9	13.4				

Grades Bayard St. Diamond to Reed

31
519.57

	F	H									
S.L. Diamond	36.65	36.15	3M 310.3	51.80	39.26	38.65	35.15	34.25	32.05	31.05	30.65
54'S	35.45	34.95	3.43	Diamond	2.61	2.8	5.0	6.0	7.0	8.0	8.1
108'S	34.25	33.75	3.26	2.01	2.6	4.8	5.8	6.8	7.8	8.8	8.6
162'S	33.05	32.55	3.09	1.01	1.8	3.7	4.7	5.7	6.7	7.7	7.6
216'S	31.85	31.35	2.92	0.01	1.0	2.0	3.0	4.0	5.0	6.0	6.0
270'S - H. Paschal	30.65	30.15	2.75		0.6	1.2	2.2	3.2	4.2	5.2	5.2

S.L. Emerald	29.65	29.15			29.26	28.65	25.15	24.25	22.05	21.05	20.65
54'S	28.45	28.35			2.6	2.8	5.0	6.0	7.0	8.0	8.1
108'S	27.25	27.55			2.6	4.8	5.8	6.8	7.8	8.8	8.6
162'S	27.55	26.75			1.0	3.7	4.7	5.7	6.7	7.7	7.6
216'S	26.85	25.95			0.0	2.0	3.0	4.0	5.0	6.0	6.0
270'S - H. Falgout	26.15	25.15			0.6	1.2	2.2	3.2	4.2	5.2	5.2

S.L. Felspar	25.15	24.15			25.26	24.65	21.15	20.25	18.05	17.05	16.65
54'S	24.65	23.65			2.6	2.8	5.0	6.0	7.0	8.0	8.1
108'S	24.15	23.15			2.6	4.8	5.8	6.8	7.8	8.8	8.6
162'S	23.65	22.65			1.0	3.7	4.7	5.7	6.7	7.7	7.6
216'S	23.15	22.15			0.0	2.0	3.0	4.0	5.0	6.0	6.0
270'S - H. Garand	22.65	21.65			0.6	1.2	2.2	3.2	4.2	5.2	5.2

Grades Thomas Ave
Cass to Ocean Blvd.

38
5-23-27

Station	Grade	Station	Grade	Notes	Grade									
W. Cass	11.65	12.15	11.65	BM 688 Thomas Bayard	11.22	11.60	11.05	10.50	10.47	9.95	9.40	8.85	8.30	7.75
50' W	11.10	11.60	11.60		4.07	4.6	5.2	5.7	6.2	6.7	7.2	7.7	8.2	8.7
100' W	10.55	11.05	11.05		7.01	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5
150' W	10.00	10.50	10.50	14.22 SET up at Thomas Cass	11.65	11.10	10.55	10.00	9.45	8.90	8.35	7.80	7.25	6.70
200' W	9.45	9.95	9.95		11.65	11.10	10.55	10.00	9.45	8.90	8.35	7.80	7.25	6.70
250' W	8.90	9.40	9.40		11.65	11.10	10.55	10.00	9.45	8.90	8.35	7.80	7.25	6.70
300' W	8.35	8.85	8.85		11.65	11.10	10.55	10.00	9.45	8.90	8.35	7.80	7.25	6.70
350' W	7.80	8.30	8.30		11.65	11.10	10.55	10.00	9.45	8.90	8.35	7.80	7.25	6.70
400' W	7.25	7.75	7.75		11.65	11.10	10.55	10.00	9.45	8.90	8.35	7.80	7.25	6.70
450' W	6.70	7.20	7.20		11.65	11.10	10.55	10.00	9.45	8.90	8.35	7.80	7.25	6.70
500' W - Full Bayard	6.15	6.65	6.65		11.65	11.10	10.55	10.00	9.45	8.90	8.35	7.80	7.25	6.70
W. Bayard	6.15	6.65	6.65	BM 688 Thomas Bayard	10.91	6.22	5.70	5.18	4.66	4.14	3.62	3.10	2.58	2.06
50' W	5.70	6.20	6.20		10.91	6.22	5.70	5.18	4.66	4.14	3.62	3.10	2.58	2.06
100' W	5.25	5.75	5.75		10.91	6.22	5.70	5.18	4.66	4.14	3.62	3.10	2.58	2.06
150' W	4.80	5.36	5.36	BM 271 Thomas Bayard	10.91	6.22	5.70	5.18	4.66	4.14	3.62	3.10	2.58	2.06
200' W	4.35	4.93	4.93		10.91	6.22	5.70	5.18	4.66	4.14	3.62	3.10	2.58	2.06
250' W	3.91	4.50	4.50		10.91	6.22	5.70	5.18	4.66	4.14	3.62	3.10	2.58	2.06
300' W - Grand	3.55	4.15	4.15		10.91	6.22	5.70	5.18	4.66	4.14	3.62	3.10	2.58	2.06
340' W	3.34	3.91	3.91		10.91	6.22	5.70	5.18	4.66	4.14	3.62	3.10	2.58	2.06
390' W	3.13	3.67	3.67		10.91	6.22	5.70	5.18	4.66	4.14	3.62	3.10	2.58	2.06
440' W	2.91	3.44	3.44		10.91	6.22	5.70	5.18	4.66	4.14	3.62	3.10	2.58	2.06
490' W	2.69	3.20	3.20		10.91	6.22	5.70	5.18	4.66	4.14	3.62	3.10	2.58	2.06
500' W - Full Alameda	2.65	3.15	3.15		10.91	6.22	5.70	5.18	4.66	4.14	3.62	3.10	2.58	2.06

Colvert N° 3+4 Felspar St
Allison St to Ocean Blvd

115' N of S.L. Felspar 521-57
State's office C' South

438' 74' S.S. Conc Pipe Co-18"

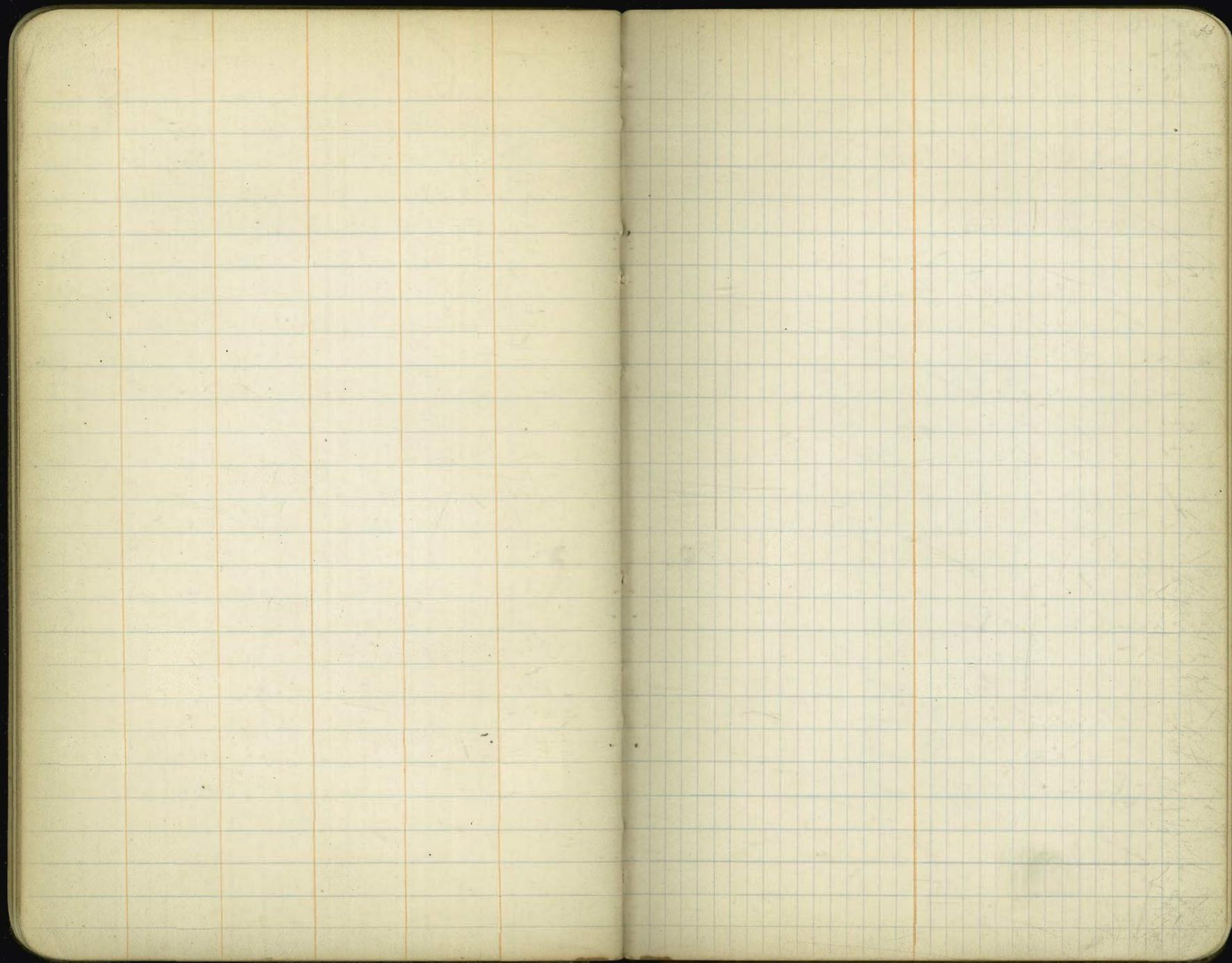
E. Co Line of Allison	14.00	2.53 +3.65	SE 80° 27 1/2' 14.0' 90° 1/2' 11.0'
30' N	13.75	2.53 +3.65	23.53 +3.65
60' N - Mch	13.50	2.53 +3.65	10.25 13.75 +3.65 16.70
50' N of Mch	13.25	10.53 +4.28	
100' N	13.00	13.25 +5.33	
150' N	12.75	14.02 +6.18	
195' N - 2' Alley Catch Basin N° 1	12.53	14.55 +7.28	
245' N	12.28	14.59 +7.63	
295' N	12.02	16.25 +8.71	
345' N	11.78	17.23 +9.80	
398' N - 3' Catch Basin N° 2.55	11.50	18.00 +10.76	
438' N End	1.30	18.00 +10.76	

Colvert N° 1+2
Grand Ave Allison to Ocean Blvd

Curb Marked on Curb

Not 195' N of S.L. Grand Ave 380' of 30" D.S. Conc Pipe

E. Co Line of Allison	200	8.66 +13.37	SE 80° 6.88' 380' 3.27' 10.57'
30' N	175	8.66 +13.37	
60' N - Mch Allison OK	150	9.11 +14.14	
50' N of Mch	137	9.21 +14.51	
100' N	124	9.32 +14.92	
150' N	111	9.58 +15.27	
170' N - 2' Alley Catch Basin	106	9.55 +15.37	
222.5' N	92	9.69 +15.69	
275' N	78	9.81 +15.85	
327.5' N	64	9.82 +15.88	
380' N	50	9.86 +15.92	



Grades El Cajon Ave

	N.L.	Curb Grades
E.L. El Carrizo Drive	460.63	BM 457.15 El Cajon + El Carrizo Dr.
301 E - I.C.	462.50	460.75 460.88
6431 E	464.50	467.51 464.16 473.39 473.97
98.53 E - Break ok	466.50	471.34 471.29
148.53 E - "	468.13	471.29 471.61 473.30
198.53 E - "	469.77	473.30
248.24 E - P.C. H of 59 th St	471.40	472.80
E.C. E of 59 th St	473.30	474.40
30 E	73.41	474.77
51.92 A	73.51	474.53
70 E - I.C.	73.63	474.88
120 E	73.86	474.93
150 E - Break	474.00	474.58
170 E	73.86	474.58
220 E	73.50	474.43
273.8 P - P.C. H of 59 th St	473.40	474.28
E.C. E of Alice	474.20	474.09
50 E	70.28	474.28
100 E	69.21	474.41
150 E	68.21	474.58
200 E	67.28	474.71
250 E - P.C. H of 59 th St	466.30	463.70

466.75	477.51	68.13	69.97	71.40
467.50	478.50	69.00	71.30	72.50
471.5	479.5	71.0	73.0	74.0
472.0	480.0	72.0	74.0	75.0
473.0	481.0	73.0	75.0	76.0

473.51	72.51	72.63	73.81	73.50	474.88
474.00	72.82	72.88	74.59	74.43	474.88
8.1	3.7	3.6	3.2	3.4	3.1
2.0	3.0	3.5	3.7	3.4	3.5
0.2	0.8	0.8	0.8	0.8	0.8
10.2	10.7	10.9	10.6	10.3	10.4

476.38	70.28	69.21	68.21	67.28	470.70
474.28	71.28	69.41	67.58	65.71	463.70
3.3	5.1	7.0	8.0	10.6	6.3
3.2	6.6	7.4	8.0	10.6	6.3
11.4	10.5	10.2	10.9	10.7	10.9

Grades N+S Alley Black P Valle Vista Terrace
Panorama St + Cliff St.

Stationing	N	F												
NL Cliff St	356.04	356.08	356.08	356.08	57.00	57.37	57.76	58.11	58.57	58.80	59.18	59.56	60.00	60.00
30' N	356.80	357.00	357.00	357.00	57.37	57.76	58.11	58.57	58.80	59.18	59.56	60.00	60.00	60.00
80' N	57.23	57.38	57.38	57.38										
100' N	57.66	57.71	57.71	57.71	57.71	57.71	57.71	57.71	57.71	57.71	57.71	57.71	57.71	57.71
180' N	58.09	58.14	58.14	58.14	58.14	58.14	58.14	58.14	58.14	58.14	58.14	58.14	58.14	58.14
280' N	58.52	58.52	58.52	58.52										
277.70 = A	58.85	58.85	58.85	58.85										
317.3	59.28	59.28	59.28	59.28										
367.3	59.70	59.70	59.70	59.70										
417.3	60.13	59.94	59.94	59.94										
425.33 = S.L. N+S Alley	360.30	360.00	360.00	360.00										

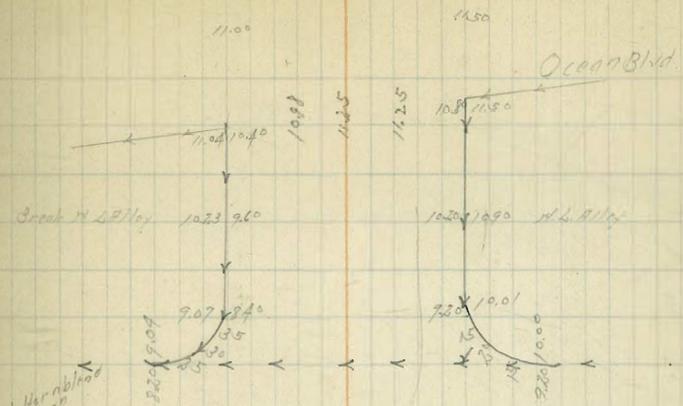
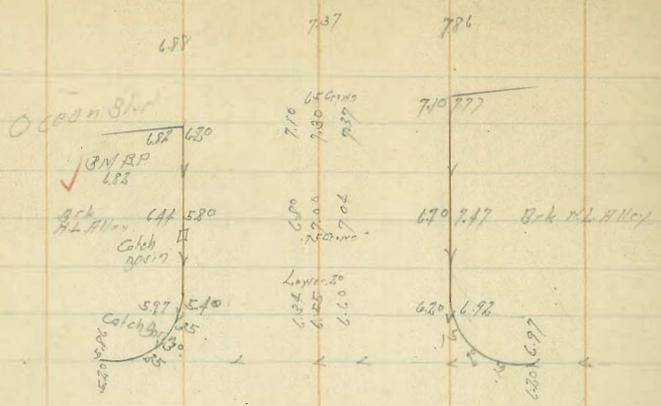
E+N Alley Black P Valle Vista Terrace

Stationing	N	F												
NL Panorama	357.14	357.14	357.14	357.14	59.30	60.00	60.75	61.00	60.32	60.32	59.18	58.20	58.20	58.20
50' N	357.30	357.30	357.30	357.30	60.00	60.00	60.75	61.00	60.32	60.32	59.18	58.20	58.20	58.20
107.75' N - Fl. Alley	360.00	360.00	360.00	360.00	60.00	60.00	60.75	61.00	60.32	60.32	59.18	58.20	58.20	58.20
123.00' N - Fl. "	360.20	360.25	360.25	360.25	60.00	60.00	60.75	61.00	60.32	60.32	59.18	58.20	58.20	58.20
170' N	360.70	361.00	361.00	361.00	60.00	60.00	60.75	61.00	60.32	60.32	59.18	58.20	58.20	58.20
200' N	360.18	360.34	360.34	360.34	60.00	60.00	60.75	61.00	60.32	60.32	59.18	58.20	58.20	58.20
230' N - Fl. Panorama	359.65	359.62	359.62	359.62	60.00	60.00	60.75	61.00	60.32	60.32	59.18	58.20	58.20	58.20

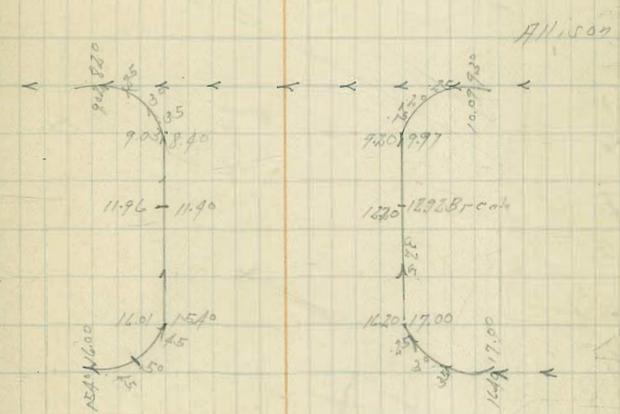
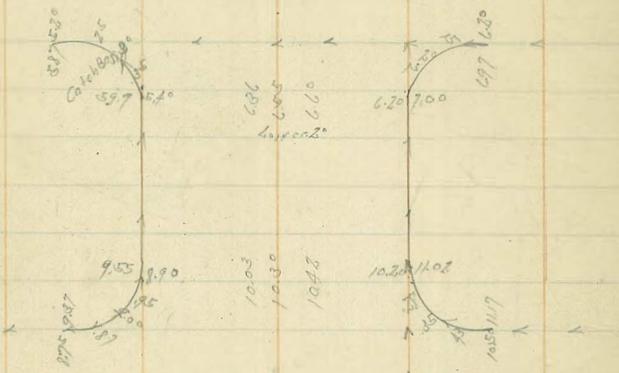
Grades Alley Block 45 Park Villas
 Bancroft + 32nd Landis + Nightman

49
 6-20-27

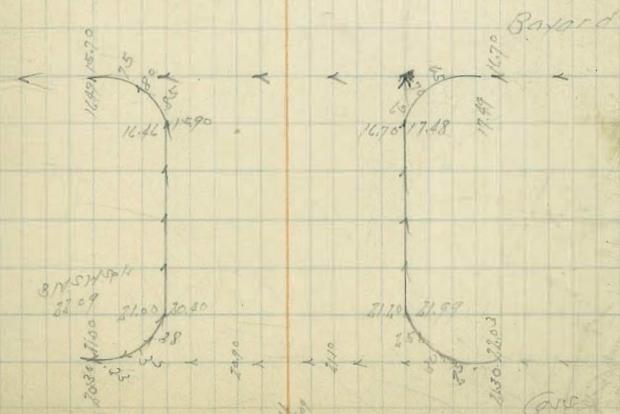
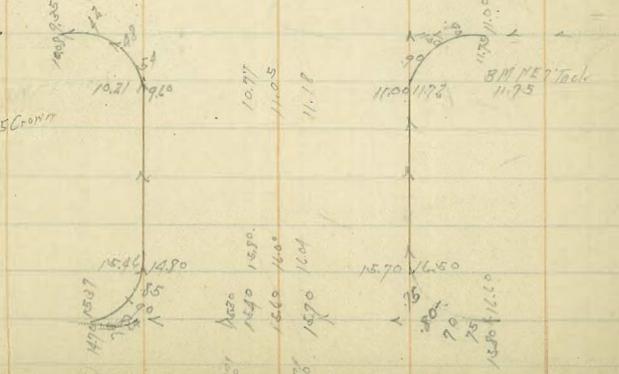
	N	F									
114 Landis St	33780	33770	RM 33847	33770	33860	33812	33765	4017	4070	4157	4245
40 N Brook	33860	33860	34574	33860	3417	362	378	500	422	380	298
80 N	33912	33912	34530	34530	367	460	528	500	425	360	298
130 N	33965	33965	34532	34532	367	460	528	500	425	360	298
160 N	34017	34017	34532	34532	367	460	528	500	425	360	298
200 N - Brook	34070	34070	34532	34532	367	460	528	500	425	360	298
250 N	34157	34157	34532	34532	367	460	528	500	425	360	298
300 N	34215	34215	34532	34532	367	460	528	500	425	360	298
350 N	34331	34331	34532	34532	367	460	528	500	425	360	298
400 N - Brook	34450	34450	34532	34532	367	460	528	500	425	360	298
450 N	34470	34470	34532	34532	367	460	528	500	425	360	298
500 N - Brook	34520	34520	34532	34532	367	460	528	500	425	360	298
540 N	34560	34560	34532	34532	367	460	528	500	425	360	298
580 N - Brook	34580	34580	34532	34532	367	460	528	500	425	360	298
607 N - St. Nightman	34540	34540	34532	34532	367	460	528	500	425	360	298



Allison



Bayard



Felspar St.

20.00

20.00

Ocean Blvd.

Opp. Hill House

St 1931 1870

18.02 17.60

CB

20.60 20.80

20.00 20.67 8' cut K. Hill on it

18.70 18.45

B.M. B.P.

17.52

18.70 19.19

Hillside

17.98 17.40

19.97 19.40

24.00 23.20

18.70 19.17

20.80 20.8 break

24.20 25.05 25.05

B.M. B.P.

25.05

Boyard

25.00 24.20

32.20 31.40

25.70 26.00

32.20 33.00

Emerald St.

25.70

27.00

51
6-30-27

24.70 24.20

24.02 23.80

23.93 23.50

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Ocean Blvd.

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Hillside

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Boyard

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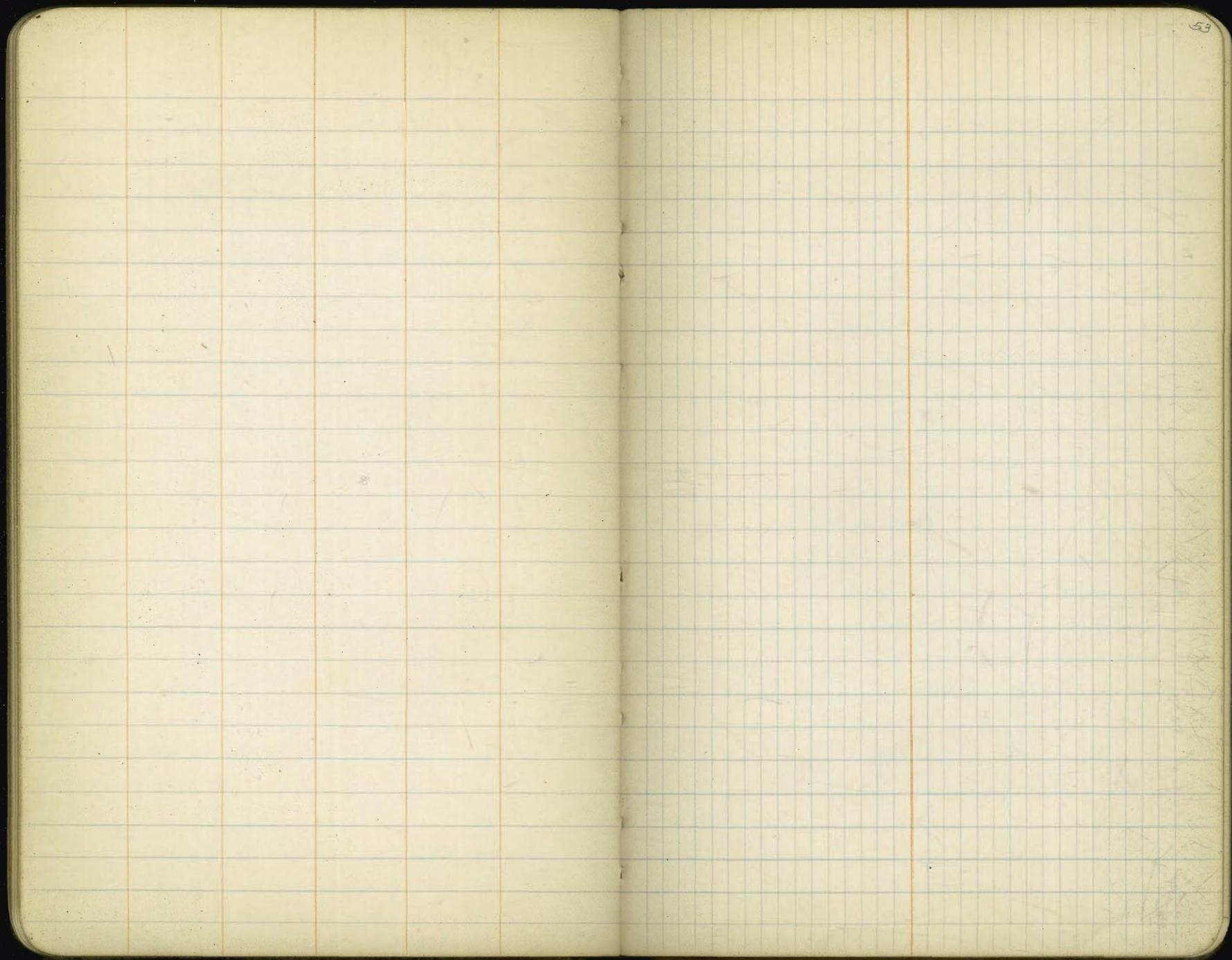
29.51 28.90

29.51 28.90

29.51 28.90

Cass

Cass



San Fernando Construction
 Quattrough St San Elito to San Fernando

0.00	150.00	1114.33	
50'	156.49	1127.74	
100'	162.88	1141.15	
150'	167.47	1154.56	
200'	175.91	1167.97	
250'	182.45	1181.38	
300'	187.00	1194.79	

San Elito Water Grades

55
 7-28-17

N.L. Oricos	90.00	87.00	15.34	
60' P.V.	90.30	90.30	12.19	
40' P.V.	101.74	98.70	13.73	
200'		108.07	17.02	
300' - S.L. Party	126.70	123.70	18.57	
N.L. Party	134.50	131.50	20.11	
60' P.V.	142.30	139.30	21.65	
40' P.V.	149.70	147.70	23.19	
200'		150.00	24.73	
300' - S.L. Quattrough	157.50	155.50	26.27	
N.L. Quattrough	159.50	157.50	27.81	
40' P.V.	161.10	159.10	29.35	
100'	162.30	159.30	30.89	
160' P.V.	161.10	158.10	32.43	
200'		155.20	33.97	
300' - S.L. Pagaré	155.50	152.50	35.51	

San Fernando
 Quattrough
 201.80

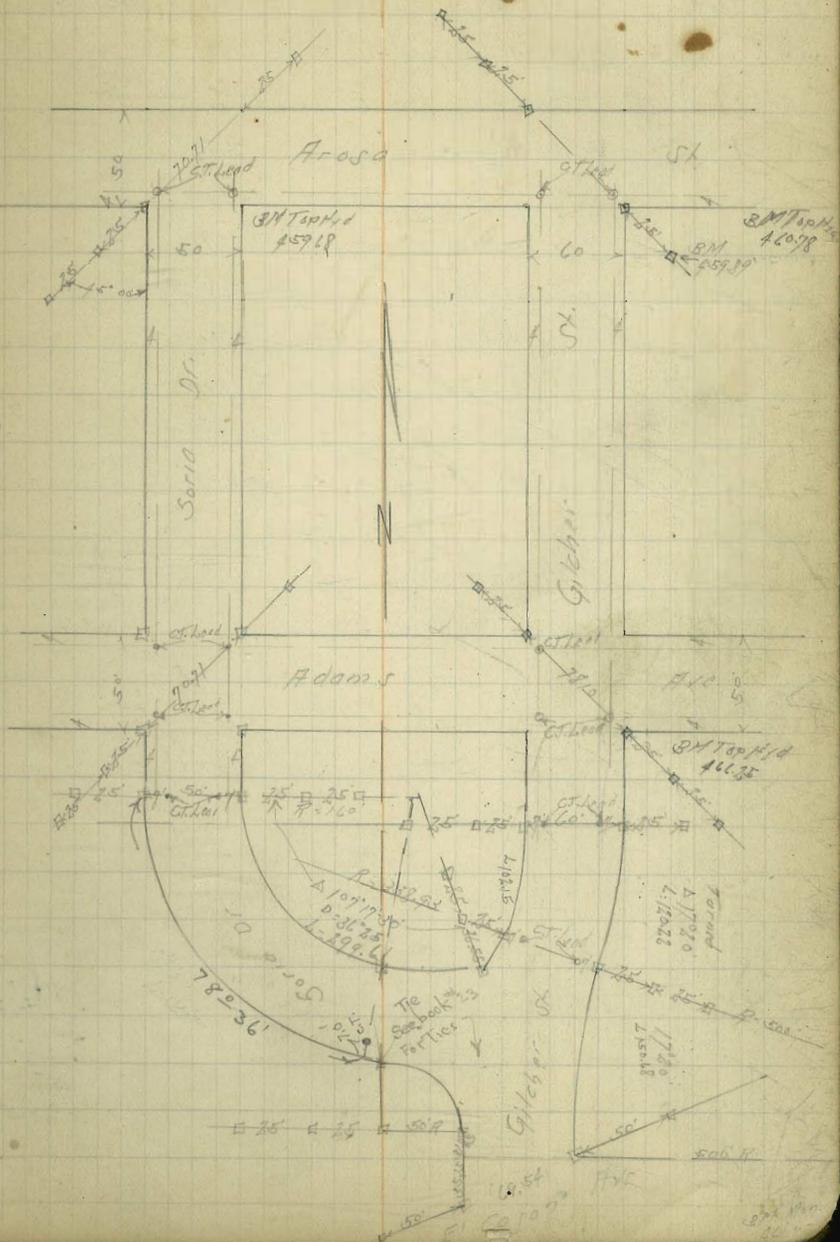
N.W. 80
 Quattrough

S.W. 1/4
 San Elito
 Quattrough
 163.47

Thos El Retiro

Plotted on Tie Point sheets.
c. 5.1K

8-15-27 57



Soria Drive Grades

	S-H		N-E	H/47100
P.C. 50' Rad -	464.85	P.C.	464.35	
388.81	464.72	out	464.97	
77.62 H-P.P.C. 50' R	464.60	opp P.P.C.	464.60	
129.96 H	464.78	39.88 H	464.73	
182.30 H	464.95	79.76 H	464.97	
234.64 H	465.12	119.64	465.00	
286.98 H	465.30	159.52	465.19	
339.32 H	465.47	199.40	465.37	
391.66 H - P.C.	465.65	239.28	465.41	
444.00 H - S.L. Adams	465.85	279.28	465.60	

SY	64.85	64.72	64.60	64.78	64.95	65.12	65.20	65.47	65.65	65.80
	2.6	2.3	2.2	2.3	2.0	2.8	2.7	2.5	2.4	2.2
	2.4	2.2	2.0	2.2	2.7	2.9	2.8	2.3	2.1	2.0
	-2.4	2.2	2.0	2.2	2.7	2.9	2.8	2.3	2.1	2.0
		out								
SE	64.35	64.47	64.60	64.72	64.87	65.00	65.14	65.27	65.41	65.60
			2.2	2.3	2.1	2.0	2.0	2.1	2.2	2.2
			2.3	2.2	2.1	2.0	2.0	2.1	2.2	2.2
			2.1	2.2	2.1	2.0	2.0	2.1	2.2	2.2

Soria Drive Grades

471.14
453
BM 463.1
SETT
Admitt
Period.

8.21.77
S. Soria
Soria
Soria
Kenny

	H	F												
H.L. Adams Ave	465.60	465.35	BM 463.91	465.35	464.96	464.56	464.16	463.77	463.38	462.98	462.58	462.19	461.80	
50' H	465.18	464.96	471.63	465.35	464.96	464.56	464.16	463.77	463.38	462.98	462.58	462.19	461.80	
100' H	464.77	464.56	465.92	465.35	464.96	464.56	464.16	463.77	463.38	462.98	462.58	462.19	461.80	
150' H	464.35	464.16		465.35	464.96	464.56	464.16	463.77	463.38	462.98	462.58	462.19	461.80	
200' H	463.94	463.77		465.35	464.96	464.56	464.16	463.77	463.38	462.98	462.58	462.19	461.80	
250' H	463.52	463.38		465.35	464.96	464.56	464.16	463.77	463.38	462.98	462.58	462.19	461.80	
300' H	463.10	462.98		465.35	464.96	464.56	464.16	463.77	463.38	462.98	462.58	462.19	461.80	
350' H	462.69	462.58		465.35	464.96	464.56	464.16	463.77	463.38	462.98	462.58	462.19	461.80	
400' H	462.27	462.19		465.35	464.96	464.56	464.16	463.77	463.38	462.98	462.58	462.19	461.80	
450' H	461.86	461.80		465.35	464.96	464.56	464.16	463.77	463.38	462.98	462.58	462.19	461.80	
500' H	461.44	461.40		465.35	464.96	464.56	464.16	463.77	463.38	462.98	462.58	462.19	461.80	
550' H	461.02	461.00		465.35	464.96	464.56	464.16	463.77	463.38	462.98	462.58	462.19	461.80	
600' H	460.60	460.60		465.35	464.96	464.56	464.16	463.77	463.38	462.98	462.58	462.19	461.80	
650' H	459.93	460.08		465.35	464.96	464.56	464.16	463.77	463.38	462.98	462.58	462.19	461.80	
700' H	459.27	459.44		465.35	464.96	464.56	464.16	463.77	463.38	462.98	462.58	462.19	461.80	
750' H	458.60	458.86		465.35	464.96	464.56	464.16	463.77	463.38	462.98	462.58	462.19	461.80	
800' H	457.94	458.28		465.35	464.96	464.56	464.16	463.77	463.38	462.98	462.58	462.19	461.80	
850' H	457.27	457.70		465.35	464.96	464.56	464.16	463.77	463.38	462.98	462.58	462.19	461.80	
900' H	456.60	457.10		465.35	464.96	464.56	464.16	463.77	463.38	462.98	462.58	462.19	461.80	

ca. Rev

ca. Rev

465.96
457
BM 456.38
S. Soria
Soria
Soria

ca. Rev

ca. Rev

Fraso Grades

44584
844587
55' to Fraso
+ Gilcher
45189

0+0 - 113' H of H. L. of Soria 446.60
50' E 450.35
113' E - H. L. Soria Dr. 456.60
EL Soria Dr 456.60
50' E 456.93
100' E 457.26
150' E 457.59
200' E 457.91
230' - H. L. Gilcher 458.10

445.10 8445638
450.85 450.85
456.60 457.10
457.10
457.91
458.08
458.41
458.60

N	446.0	50.35	56.10			
	13.8	8.1	3.0			
	15.0	10.5	10.6			
S	451.0	60.85	56.60			
	13.6	7.6	7.9			
	15.7	8.3				
	18.9	12.3				
	158.38					
N	56.60	56.93	57.26	57.58	57.91	58.10
	1.3	3.3	3.6	3.3	3.0	2.7
	10.2	10.5	10.1	11.7	10.8	10.3
S	57.10	57.43	57.76	58.08	58.41	58.60
	3.7	3.4	3.1	2.8	2.5	2.3
	11.6	11.6	11.2	12.2	11.7	11.7

Curb Inlet Type E
N. End 445.52
S. End 445.62

EL Gilcher 457.60
50' 456.35
100' 455.10
115' 455.35

458.10
456.85
455.60
455.25

N	57.60	56.35	55.10	55.35
	8.8	11.0	7.0	7.5
	28	10.0	7.7	2.1
S	58.10	56.85	55.60	55.85
	2.7	6.9	7.1	3.8
	3.7	7.1	7.3	1.3

Type B
Curb Inlet E End 47.56.10
N. End 47.56.10
S. End 47.56.10

Culvert No 1 95' E of EL Gilcher

Culvert No 2 10'-11" Corp. Pipe Sta. Fraso

0+0 - 5' off S. Fraso
= S.E. of Pipe 457.0
45' H - Break 447.0
80' H - 1' End Pipe 439.4

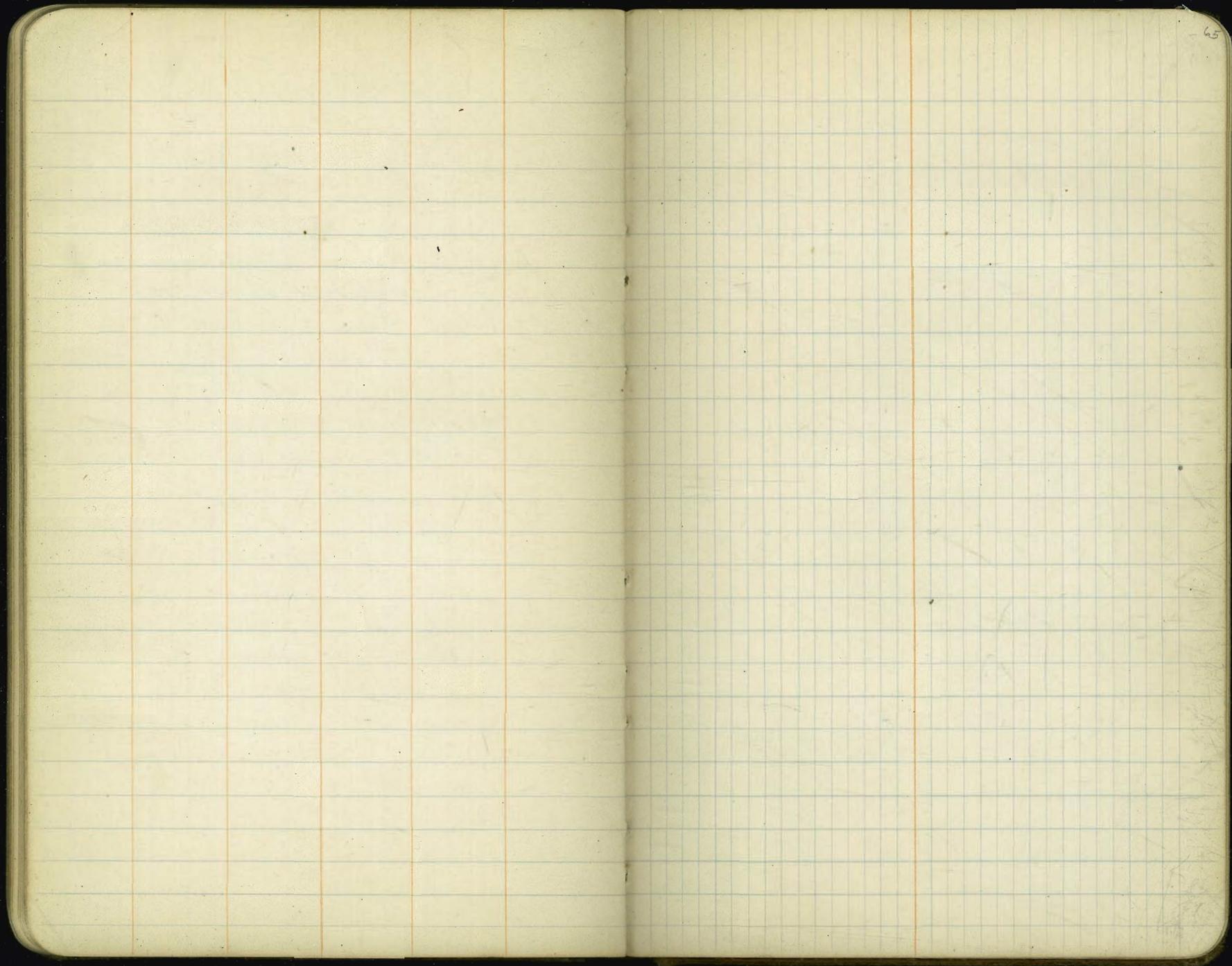
Flowline N. End 441.00
Flowline S. End 441.50

8445638
457.61

Adams Ave Grades
W of Soria to E of Gilcher St

Station	Grade	Station	Grade
0+0 = 118 ft. of H.L. of Soria Dr.	466.35	34 466.31	471.00
50.5 E	465.97		
118 E = H.L. Soria Dr.	465.60		
E.L. Soria Dr.	465.35		
50 E	464.92		
100 E	464.48		
150 E	464.05		
200 E	463.61		
230 E = H.L. Gilcher St.	463.35		
E.L. Gilcher St.	463.35		
57.5 E	464.33		
115 E = H.L. Ft. Robin	465.10		

Station	Grade								
H	66.35	15.87	65.60						
	7.0	5.0	5.4						
	7.8	7.7	7.6						
	10.6	10.7	10.6						
S	66.60	66.28	65.87						
	7.0	4.8	5.6						
	7.6	4.0	4.7						
	10.6	10.8	10.7						
H	65.35	64.92	64.48	64.05	63.61	63.25			
	5.7	4.5	4.5	4.0	3.6	3.2			
	10.0	7.6	7.7	7.9	7.3	6.8			
S	65.60	65.17	64.73	64.30	63.86	63.41			
	5.4	5.2	4.3	3.7	3.1	2.5			
	11.7	11.2	11.5	11.2	11.2	10.9			
	10.7	11.7	11.5	11.2	11.2	10.9			
H	63.35	64.21	65.10						
	7.2	6.8	5.0						
	11.6	10.2	10.0						
S	63.60	64.35	65.10						
	7.4	6.7	5.0						
	7.2	6.3	5.2						
	10.4	10.4	10.3						



Estrada St Gradar

E.L. Sta	E.L. Grades	H.L. Sta	H.L. Grades
SL University	324.80	SL Univ	326.10
26.08 S	326.50	27.43 S	327.40
56.08 S	327.80	57.43 S	328.25
86.08 S - Exc	328.50	87.43 S	329.10
133.58 S	329.10	137.43	329.75
181.08 S - Bck	329.70	187.43 S	330.40
218.58 S	330.50		
256.08 S - Bck	331.30		
292.39 S	333.00		
328.76 S - Bck - EC	334.70		
50.24 S	337.00		
57.38 S	339.10		
120.57 S	341.04		
159.64 S - C. 41' 51"	340.98		
197.38	342.10		
237.38 H	342.70		
277.38 H	343.30		
317.38 H - Bck	343.90		
347.38	344.05		
417.38	344.20		
467.38	344.35		
517.38 - Bck	344.50		
567.38	344.36		
617.38 - EC	344.22		

338.15
11.43
338.67
SMBP
Univ Estrada
H End Return

9.17.66

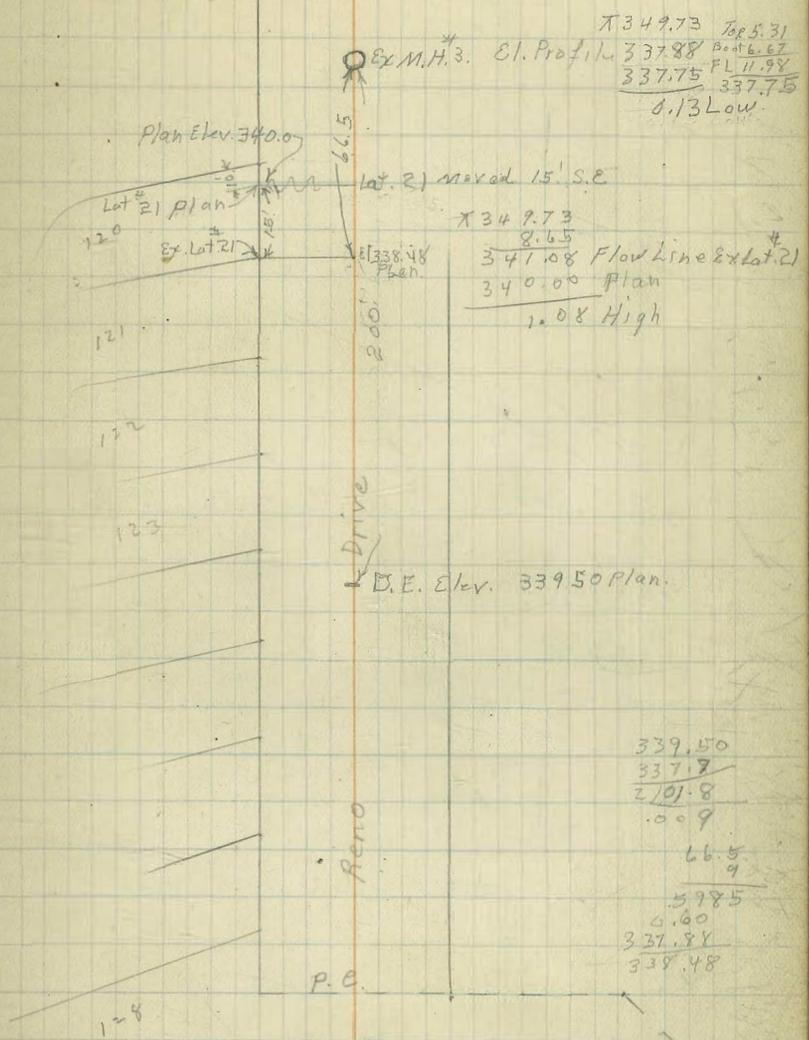
E	334.80	326.50	327.80	328.50	329.10	329.70	330.50	331.30
	10.7	9.9	7.7	7.0	6.4	5.8	5.0	4.6
		10.2	8.7	8.1	7.8	7.7	6.5	6.5
H	326.10	327.40	328.25	329.10	329.75	330.40		
	18.0	10.7	7.9	9.0	8.1	7.7		
		4.4	5.6	6.8	6.7	6.6		
		10.6	14.7	13.8	11.7	11.7		
			15			15		
E	333.00	334.20	337.00	339.10	340.04	340.88	342.10	
	8.5	0.9	6.2	4.0	3.8	7.7	7.1	
	7.5	9.2	13.9	3.7	2.8	1.2	6.0	
	7.0	8.4	10.0	10.8	10.3	10.5	11.1	
H	343.70	343.30	343.90	344.5	345.20	345.35	346.50	
	6.8	6.2	5.6	5.5	5.8	5.7	5.0	
	1.4	5.3	5.9	6.3	5.8	5.5	5.0	
	10.2	10.9	10.2	13.0	10.2	10.3	11.0	
			15					
H	344.04	344.22						
	5.9	5.3						
	6.8	7.2						
	7.3	7.2						

Location of lateral #21
 Lot 120 S.W. side Reno Dr.
 S. of Univ. Ave.

7-19-39

Miller
 Walker
 N.W. Univ
 + Euclid

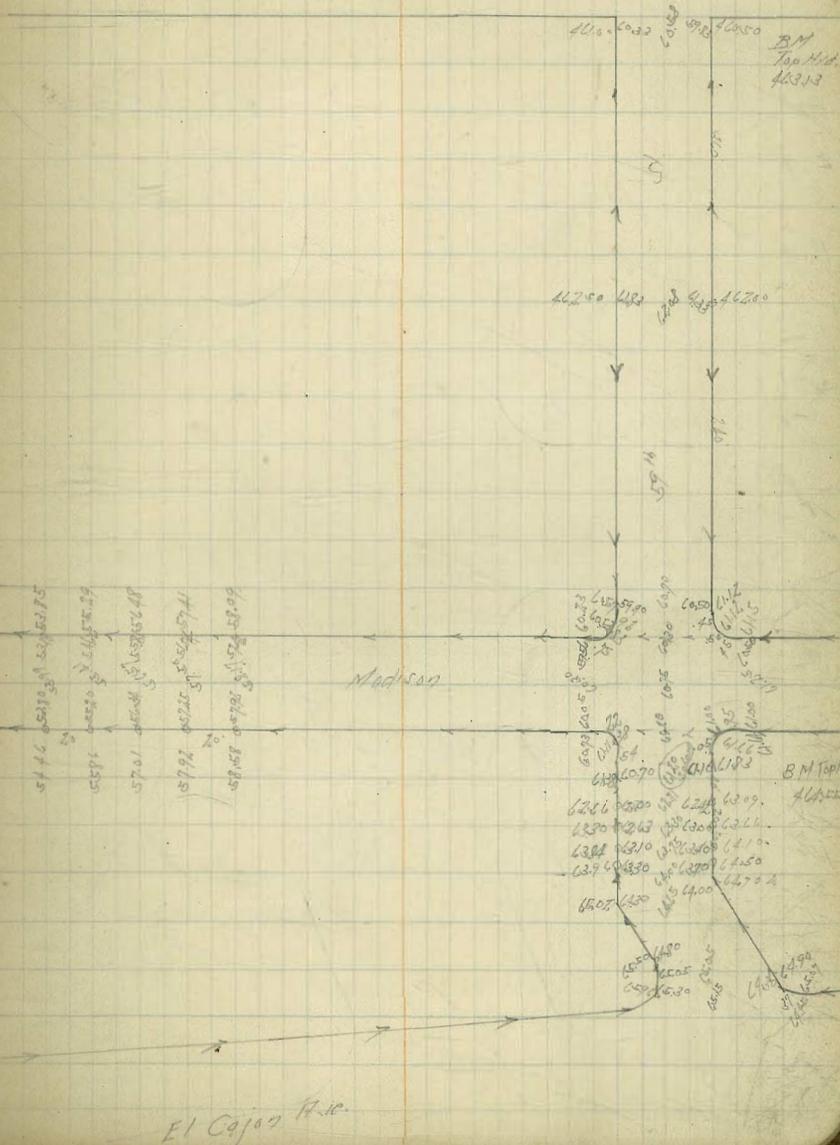
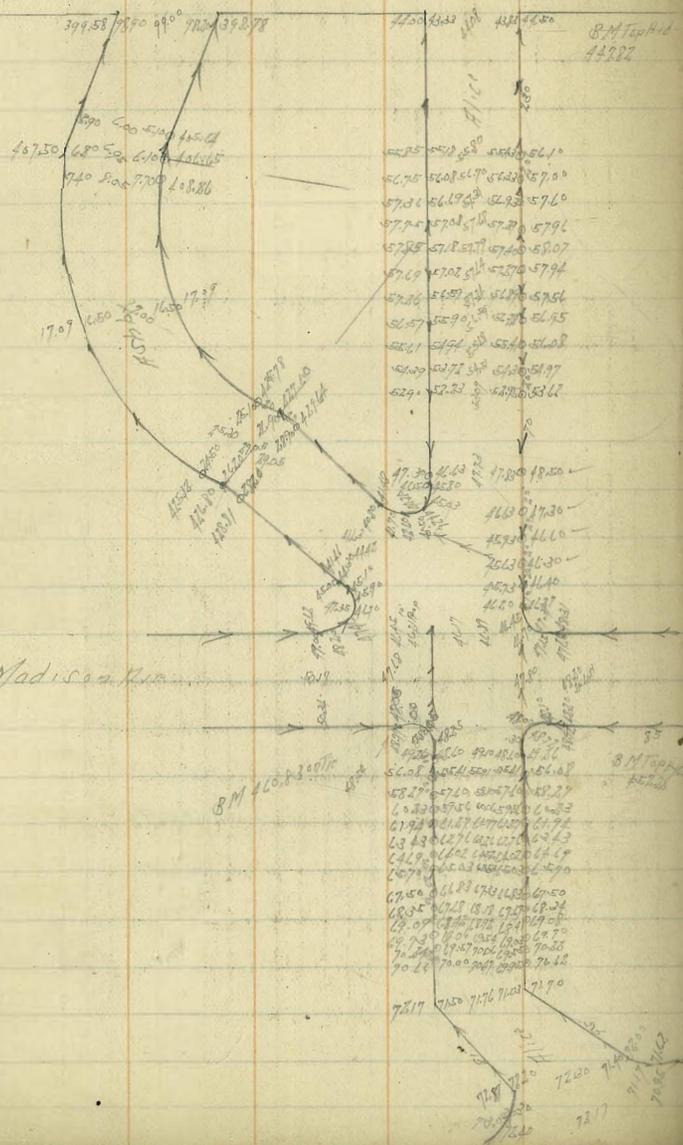
B.M.	9.05	349.73		340.68
T.P.	4.95	348.80	5.88	343.85
Driven Rear. of	4815 Reno	9.85		338.95



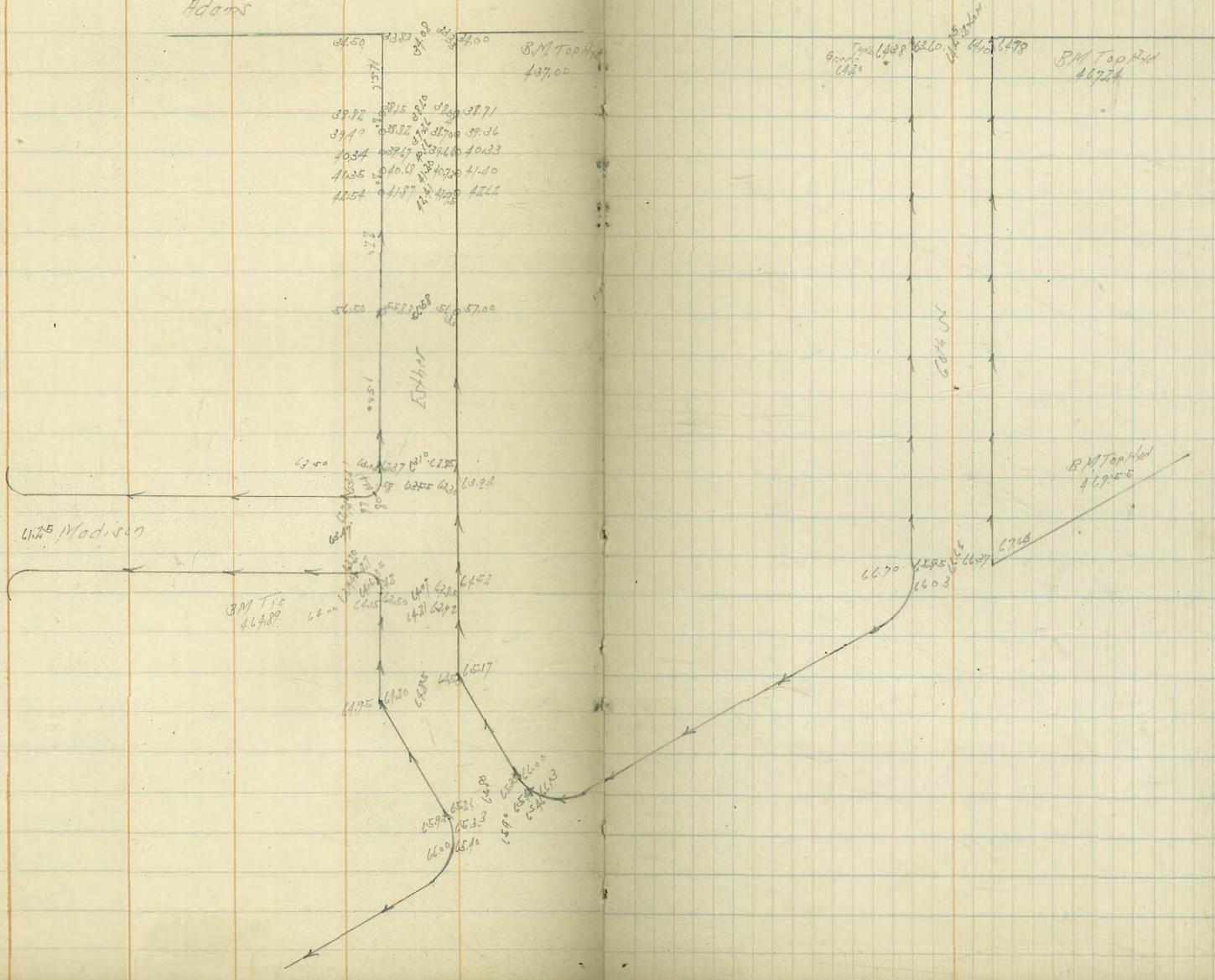
399.00 1730 85 9750 9850

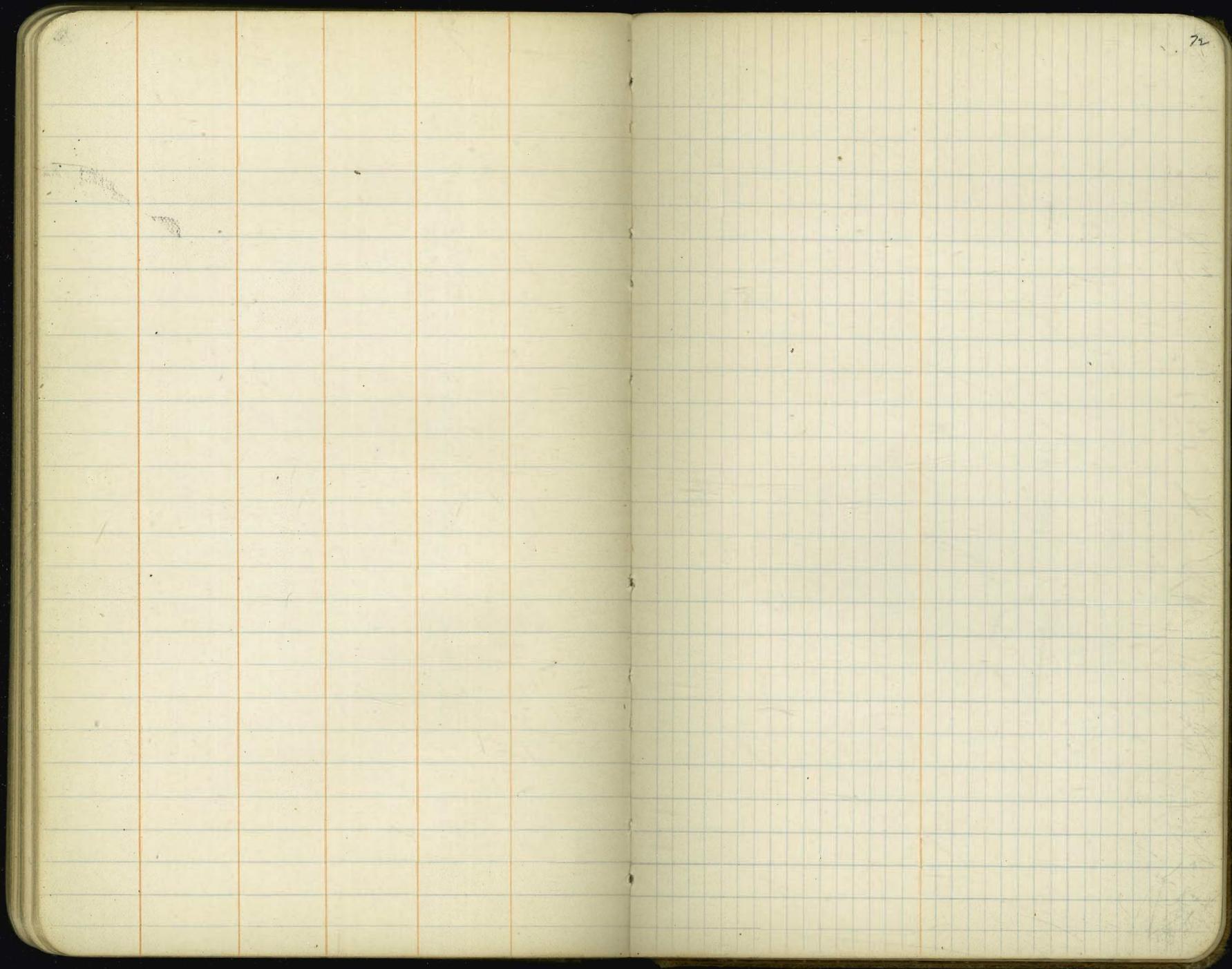
Adams

H.C.



Adams





Sever Construction
56th St & Meade Ave.

Monte Nav Vista

8-15-27

75

M.H. N° 1	424.00	11.62 5.05 +6.57	434.21 1.11 50.21 N.H.1
50 S	423.09	12.53 2.87 +6.66	435.62 12.71 48.45
100 S	422.18	13.11 8.80 +4.64	437.80 12.83
150 S	421.27	14.38 1.27 +2.87	438.77 12.95
200 S	420.36	15.26 1.27 +2.77	439.50
250 S	419.45	16.15 1.27 +3.80	
300 S	418.54	17.25 2.51	
330 S = M.H. N° 2	418.00	18.23 13.93 +3.77	
50 S of M.H. N° 2	417.70	18.19 14.23	
100 S	417.40	18.80 14.40 +2.67	
165 S = M.H. N° 3 & Meade Ave.	417.00	18.80 +5.93	
51.67 E	416.67	15.13 1.27 +7.25	
103.34 E	416.34	15.13 1.27 +7.25	
155.01	416.00	15.20 1.27 +7.53	
206.67	415.67	14.13 1.27 +7.57	
258.34	415.34	15.11 1.27 +7.57	
315.0 E = M.H. N° 4	415.00	16.80 1.27 +7.67	
50 E	405.93	16.80 1.27 +7.67	
100 E	404.87	15.23 1.27 +7.66	
150 E	403.80	16.23 1.27 +7.66	
200 E	402.76	18.00 1.27 +7.65	
250 E	401.65	18.15 1.27 +7.66	
300 E	400.57	20.23 1.27 +7.65	
325.27 E = M.H. N° 5 & 59th St	400.00	20.50 1.27 +7.65	

Allison St. Property Line Grades
Road to Loring

BM	Station	Grade	Notes
			Stakes 1/2 S line off Corn B. 15' E of Allison
BM	343	1.13	Top of Corn B. 514'
	S.L. Reed		2.70
			Thomas Allison
			6.63 6.63 -0.50
	H.L. Reed		0.00
			6.10 6.10 0.00
	S.L. Thomas		2.50
			3.63 3.63 -1.00
	H.L. Thomas		2.00
			3.13 3.13 -1.00
BM	405	10.87	S.R. Grant & Corn B. 41
	S.L. Grant		6.82
			Note Angle 57° 20' Grant
			4.87 4.87 0.00
	H.L. Grant		7.00
			3.87 3.87 0.00
BM	418	13.60	Hails Hornblend + Allison
	S.L. Hornblend		9.46
			4.63 4.63 0.00
	H.L. Hornblend		10.00
			3.60
BM	313	22.65	
	S.L. Felspar		19.50
			4.65 4.65 0.00

	H.L. Felspar		19.50	3.15 3.65 -0.50
BM	568	29.66	23.98	8° Emerald + Allison
	S.L. Emerald		15.00	4.66 4.66 0.00
	H.L. Emerald		26.50	3.16 3.16 0.00
	S.L. Missouri		39.50	1.45 1.45 0.00
	H.L. Missouri		40.50	1.25 1.25 0.00
	S.L. Chalcedony		41.50	5.13 5.13 -1.00
	H.L. Chalcedony		47.50	4.13 4.13 0.00
	S.L. Lox		53.00	5.40 5.40 0.00
	H.L. Lox		54.00	4.10 4.10 0.00

BM 3097
10.83
11.75
16.10
17.57
10.66
57.63
51.07
50.67
1.77
52.40

BM

2.99

6.50

11.51

NE MacPole
Beryl & Alluvial

S.L. Beryl

TR 59.00
5.50
6.00
-0.50

N.L. Beryl

TR 60.3
4.00
4.50
-0.50

BM

5.28

36.80

30.92

S.M. & P.
Diamond & Alluvial

S.L. Diamond

31.00
5.70
5.27
-0.43 Paving

N.L. Diamond

32.00
4.44
4.39
-0.05 Paving

Boxer Construction Alley South of National
 Between 3rd and 5th Sts.

6-2-27

B1. 287 & 290
 Seaman & Coates

0+0 - Existing MH Cut/fill	7.46	7.34	
50.5	7.34		
100.5	7.21	7.21	
150.5	7.18	7.18	
200.7	7.10	7.10	
250.7	7.03	7.03	
300.7	6.95	6.95	
350.6	6.87	6.87	
400.1	6.79	6.79	
450.7	6.71	6.71	
500.7	6.63	6.63	
550.7	6.55	6.55	
600.1	6.47	6.47	
650.5	6.39	6.39	
695.1 - A Existing MH	6.31	6.31	

DIRECTIONS FOR USE OF TABLES

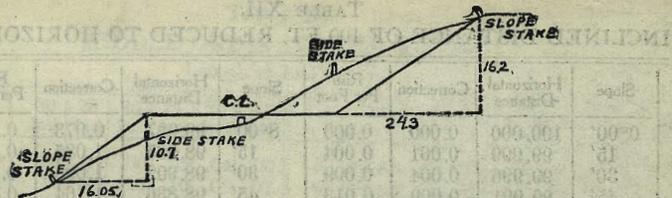
TABLE No. 1.

Distance of slope stake from side or shoulder stake for any width roadway, slope 1 $\frac{1}{2}$ to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance

IMPROVED TABLES

AND INFORMATION

To find Tangent and External for curve of any other degree, divide by degree of curve and add correction found in column of corrections. Degree of curve with a given l may be found by dividing tangent (or external), opposite l by given tangent (or external). The distance from a point on the tangent to the curve is very nearly the square of the tangent length divided by twice the radius.



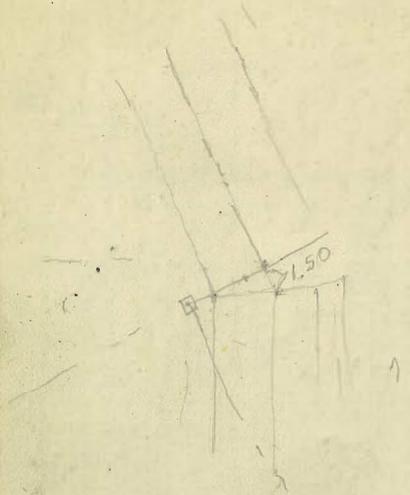
DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE 1 1/4 TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0 00	0 15	0 30	0 45	0 60	0 75	0 90	1 05	1 20	1 35	0
1	1 50	1 65	1 80	1 95	2 10	2 25	2 40	2 55	2 70	2 85	1
2	3 00	3 15	3 30	3 45	3 60	3 75	3 90	4 05	4 20	4 35	2
3	4 50	4 65	4 80	4 95	5 10	5 25	5 40	5 55	5 70	5 85	3
4	6 00	6 15	6 30	6 45	6 60	6 75	6 90	7 05	7 20	7 35	4
5	7 50	7 65	7 80	7 95	8 10	8 25	8 40	8 55	8 70	8 85	5
6	9 00	9 15	9 30	9 45	9 60	9 75	9 90	10 05	10 20	10 35	6
7	10 50	10 65	10 80	10 95	11 10	11 25	11 40	11 55	11 70	11 85	7
8	12 00	12 15	12 30	12 45	12 60	12 75	12 90	13 05	13 20	13 35	8
9	13 50	13 65	13 80	13 95	14 10	14 25	14 40	14 55	14 70	14 85	9
10	15 00	15 15	15 30	15 45	15 60	15 75	15 90	16 05	16 20	16 35	10
11	16 50	16 65	16 80	16 95	17 10	17 25	17 40	17 55	17 70	17 85	11
12	18 00	18 15	18 30	18 45	18 60	18 75	18 90	19 05	19 20	19 35	12
13	19 50	19 65	19 80	19 95	20 10	20 25	20 40	20 55	20 70	20 85	13
14	21 00	21 15	21 30	21 45	21 60	21 75	21 90	22 05	22 20	22 35	14
15	22 50	22 65	22 80	22 95	23 10	23 25	23 40	23 55	23 70	23 85	15
16	24 00	24 15	24 30	24 45	24 60	24 75	24 90	25 05	25 20	25 35	16
17	25 50	25 65	25 80	25 95	26 10	26 25	26 40	26 55	26 70	26 85	17
18	27 00	27 15	27 30	27 45	27 60	27 75	27 90	28 05	28 20	28 35	18
19	28 50	28 65	28 80	28 95	29 10	29 25	29 40	29 55	29 70	29 85	19
20	30 00	30 15	30 30	30 45	30 60	30 75	30 90	31 05	31 20	31 35	20
21	31 50	31 65	31 80	31 95	32 10	32 25	32 40	32 55	32 70	32 85	21
22	33 00	33 15	33 30	33 45	33 60	33 75	33 90	34 05	34 20	34 35	22
23	34 50	34 65	34 80	34 95	35 10	35 25	35 40	35 55	35 70	35 85	23
24	36 00	36 15	36 30	36 45	36 60	36 75	36 90	37 05	37 20	37 35	24
25	37 50	37 65	37 80	37 95	38 10	38 25	38 40	38 55	38 70	38 85	25
26	39 00	39 15	39 30	39 45	39 60	39 75	39 90	40 05	40 20	40 35	26
27	40 50	40 65	40 80	40 95	41 10	41 25	41 40	41 55	41 70	41 85	27
28	42 00	42 15	42 30	42 45	42 60	42 75	42 90	43 05	43 20	43 35	28
29	43 50	43 65	43 80	43 95	44 10	44 25	44 40	44 55	44 70	44 85	29
30	45 00	45 15	45 30	45 45	45 60	45 75	45 90	46 05	46 20	46 35	30
31	46 50	46 65	46 80	46 95	47 10	47 25	47 40	47 55	47 70	47 85	31
32	48 00	48 15	48 30	48 45	48 60	48 75	48 90	49 05	49 20	49 35	32
33	49 50	49 65	49 80	49 95	50 10	50 25	50 40	50 55	50 70	50 85	33
34	51 00	51 15	51 30	51 45	51 60	51 75	51 90	52 05	52 20	52 35	34
35	52 50	52 65	52 80	52 95	53 10	53 25	53 40	53 55	53 70	53 85	35
36	54 00	54 15	54 30	54 45	54 60	54 75	54 90	55 05	55 20	55 35	36
37	55 50	55 65	55 80	55 95	56 10	56 25	56 40	56 55	56 70	56 85	37
38	57 00	57 15	57 30	57 45	57 60	57 75	57 90	58 05	58 20	58 35	38
39	58 50	58 65	58 80	58 95	59 10	59 25	59 40	59 55	59 70	59 85	39
40	60 00	60 15	60 30	60 45	60 60	60 75	60 90	61 05	61 20	61 35	40
41	61 50	61 65	61 80	61 95	62 10	62 25	62 40	62 55	62 70	62 85	41
42	63 00	63 15	63 30	63 45	63 60	63 75	63 90	64 05	64 20	64 35	42
43	64 50	64 65	64 80	64 95	65 10	65 25	65 40	65 55	65 70	65 85	43
44	66 00	66 15	66 30	66 45	66 60	66 75	66 90	67 05	67 20	67 35	44
45	67 50	67 65	67 80	67 95	68 10	68 25	68 40	68 55	68 70	68 85	45
46	69 00	69 15	69 30	69 45	69 60	69 75	69 90	70 05	70 20	70 35	46
47	70 50	70 65	70 80	70 95	71 10	71 25	71 40	71 55	71 70	71 85	47
48	72 00	72 15	72 30	72 45	72 60	72 75	72 90	73 05	73 20	73 35	48
49	73 50	73 65	73 80	73 95	74 10	74 25	74 40	74 55	74 70	74 85	49
50	75 00	75 15	75 30	75 45	75 60	75 75	75 90	76 05	76 20	76 35	50

Computed by L. Leland Locke.

Handwritten notes: 2 1/2, 1 1/2, 1 1/2



4825
44665
21.60
80