

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
SLOPE 1 TO 1. ROADWAY OF ANY WIDTH

	0	.1	.2	.3	.4	.5	.6	.7	.8	9	
0	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0
1	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	1
2	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	2
3	3.00	3.10	3.20	3.30	3.40	3.50	3.60	3.70	3.80	3.90	3
4	4.00	4.10	4.20	4.30	4.40	4.50	4.60	4.70	4.80	4.90	4
5	5.00	5.10	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90	5
6	6.00	6.10	6.20	6.30	6.40	6.50	6.60	6.70	6.80	6.90	6
7	7.00	7.10	7.20	7.30	7.40	7.50	7.60	7.70	7.80	7.90	7
8	8.00	8.10	8.20	8.30	8.40	8.50	8.60	8.70	8.80	8.90	8
9	9.00	9.10	9.20	9.30	9.40	9.50	9.60	9.70	9.80	9.90	9
10	10.00	10.10	10.20	10.30	10.40	10.50	10.60	10.70	10.80	10.90	10
11	11.00	11.10	11.20	11.30	11.40	11.50	11.60	11.70	11.80	11.90	11
12	12.00	12.10	12.20	12.30	12.40	12.50	12.60	12.70	12.80	12.90	12
13	13.00	13.10	13.20	13.30	13.40	13.50	13.60	13.70	13.80	13.90	13
14	14.00	14.10	14.20	14.30	14.40	14.50	14.60	14.70	14.80	14.90	14
15	15.00	15.10	15.20	15.30	15.40	15.50	15.60	15.70	15.80	15.90	15
16	16.00	16.10	16.20	16.30	16.40	16.50	16.60	16.70	16.80	16.90	16
17	17.00	17.10	17.20	17.30	17.40	17.50	17.60	17.70	17.80	17.90	17
18	18.00	18.10	18.20	18.30	18.40	18.50	18.60	18.70	18.80	18.90	18
19	19.00	19.10	19.20	19.30	19.40	19.50	19.60	19.70	19.80	19.90	19
20	20.00	20.10	20.20	20.30	20.40	20.50	20.60	20.70	20.80	20.90	20
21	21.00	21.10	21.20	21.30	21.40	21.50	21.60	21.70	21.80	21.90	21
22	22.00	22.10	22.20	22.30	22.40	22.50	22.60	22.70	22.80	22.90	22
23	23.00	23.10	23.20	23.30	23.40	23.50	23.60	23.70	23.80	23.90	23
24	24.00	24.10	24.20	24.30	24.40	24.50	24.60	24.70	24.80	24.90	24
25	25.00	25.10	25.20	25.30	25.40	25.50	25.60	25.70	25.80	25.90	25
26	26.00	26.10	26.20	26.30	26.40	26.50	26.60	26.70	26.80	26.90	26
27	27.00	27.10	27.20	27.30	27.40	27.50	27.60	27.70	27.80	27.90	27
28	28.00	28.10	28.20	28.30	28.40	28.50	28.60	28.70	28.80	28.90	28
29	29.00	29.10	29.20	29.30	29.40	29.50	29.60	29.70	29.80	29.90	29
30	30.00	30.10	30.20	30.30	30.40	30.50	30.60	30.70	30.80	30.90	30
31	31.00	31.10	31.20	31.30	31.40	31.50	31.60	31.70	31.80	31.90	31
32	32.00	32.10	32.20	32.30	32.40	32.50	32.60	32.70	32.80	32.90	32
33	33.00	33.10	33.20	33.30	33.40	33.50	33.60	33.70	33.80	33.90	33
34	34.00	34.10	34.20	34.30	34.40	34.50	34.60	34.70	34.80	34.90	34
35	35.00	35.10	35.20	35.30	35.40	35.50	35.60	35.70	35.80	35.90	35
36	36.00	36.10	36.20	36.30	36.40	36.50	36.60	36.70	36.80	36.90	36
37	37.00	37.10	37.20	37.30	37.40	37.50	37.60	37.70	37.80	37.90	37
38	38.00	38.10	38.20	38.30	38.40	38.50	38.60	38.70	38.80	38.90	38
39	39.00	39.10	39.20	39.30	39.40	39.50	39.60	39.70	39.80	39.90	39
40	40.00	40.10	40.20	40.30	40.40	40.50	40.60	40.70	40.80	40.90	40
41	41.00	41.10	41.20	41.30	41.40	41.50	41.60	41.70	41.80	41.90	41
42	42.00	42.10	42.20	42.30	42.40	42.50	42.60	42.70	42.80	42.90	42
43	43.00	43.10	43.20	43.30	43.40	43.50	43.60	43.70	43.80	43.90	43
44	44.00	44.10	44.20	44.30	44.40	44.50	44.60	44.70	44.80	44.90	44
45	45.00	45.10	45.20	45.30	45.40	45.50	45.60	45.70	45.80	45.90	45
46	46.00	46.10	46.20	46.30	46.40	46.50	46.60	46.70	46.80	46.90	46
47	47.00	47.10	47.20	47.30	47.40	47.50	47.60	47.70	47.80	47.90	47
48	48.00	48.10	48.20	48.30	48.40	48.50	48.60	48.70	48.80	48.90	48
49	49.00	49.10	49.20	49.30	49.40	49.50	49.60	49.70	49.80	49.90	49
50	50.00	50.10	50.20	50.30	50.40	50.50	50.60	50.70	50.80	50.90	50

Distance of slope stake from side or shoulder stake for any width roadway, slope 1 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 from side stake to slope stake. If ground is not level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut or fill and find distance in table. Set up rod at this point, and line of sight should cut target. If it does not make the slight adjustment necessary.

G-389

MICROFILMED

APR 19 1965

UNIVERSITY MICROFILMS

6.43
18

6.61

5.43
18

5.61

DIRECTIONS FOR USE OF TABLES

TABLE No. XIV

Distance of slope stake from side or shoulder
stake for any width roadway, slope 12 to 1.
If roadway is not a straight cut or fill at the
point of stake, the distance between the
stake and the center of the roadway is

IMPROVED TABLES
AND
INFORMATION

cut taper. If it does not make the slight ad-
justment necessary.

TABLE No. VIII

To find Tangent and External for curve of
any other degree, divide by degree of curve and
add correction found in column of correction.
Degree of curve with radius may be found
by dividing tangent (or external) opposite 1 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.

Length of tangent = $\frac{R \sin^2 \frac{\Delta}{2}}{\cos \frac{\Delta}{2}}$
Length of external = $\frac{R \tan^2 \frac{\Delta}{2}}{\cos \frac{\Delta}{2}}$
Length of curve = $\frac{R \Delta}{57.3}$

PAGES	INDEX	DATE
1-18	PAVING GRADES SUMAC DRIVE	
19-31	PAVING GRADES JUNIPER & MODESTO STS.	
32-37	PAVING GRADES LAUREL ST.	
38-46	PAVING GRADES COLUMBINE ST.	
47-49	PAVING GRADES OLIVE ST.	
50-51	PAVING GRADES ALLEY BLK 19 LEXINGTON PARK	
52-56	PAVING GRADES ALLEY BLK 21 LEXINGTON PARK	

Ref DW'93 3734,5,6-D
Loose Leaf J-20, 21 AUG 9, 55

①

GRADES SUMAC DRIVE; JUNIPER TO FAIRMOUNT

	W.O. 32138	LT	±	RT	
		Rough Curb	Curb		Curb Rough Curb
9.67'					
P.O.C. $\frac{1}{4}$ def $\Delta = 13^\circ 13' 30''$					256.12 256.12
C-3.66, Cb. = 8.203'					255.67 F0.45
9.66'					
$\Delta = 105^\circ 46'$ Cb. R = 20.93 0+20 $\frac{29}{-}$ = E.C. NE. Cb. Ret $L = 38.65$		254.62 250.79 F3.8	254.62 254.42 F0.20		258.58 255.68 255.34 F0.30
0+00 Lt. Only = 31.18' Nly of ± Juniper			255.42 255.35 F0.07		
E.C.			256.90 256.85 C0.05		
$\Delta = 74^\circ 12'$ Cb. R = 2' L = 2.59					
0-31 $\frac{18}{-}$ Begin Cb on Lt. (on Skew)		256.39 257.00 25.98	256.90 256.92 20.22		
$\Delta = 74^\circ 11' 45''$ S.W. to Wly					
0+00 = Nly Line Juniper = 31.18' Nly		End. Cb F0.61	B.C. F0.02		
B.M.		252.84			
					Mon ± Juniper & Wly Line Sumac

GRADES SUMAC DRIVE

	L+		L		RT (2)	
	Rough Curb	Curb			Curb	Rough Curb
1+02 ⁰	251.39 250.81 F0.6	251.39 251.28 F0.11			252.40 251.97 F0.43	257.33 252.40 C4.9
27.8						
0+75	252.48	252.48 252.37 F0.11			253.51 253.38 F0.13	
0+50	253.46 250.65 F2.8	253.46 253.11 F0.35			254.50 254.15 F0.35	258.29 254.50 C3.8
29.71						
def 4 = 52° 54'						
B.C. Juniper					257.73	257.73
9.66						
P.O.C. ³ / ₄ def 4 = 39° 40' 30"					257.36 257.19 C0.17	257.19
9.66						
P.O.C. ¹ / ₂ def 4 = 26° 27'					256.70 256.65 C0.05	256.65
9.67'						

GRADES SUMAC DRIVE

Rough Lt Rt
Curb Curb Curb Rough Curb

Alley & P

250.85 25489 251.35 251.35
C 3.54

+4.63

B.C. Alley B.C. & Storm Drain
(250.08 - 250.08)

250.08 250.08

2° Rad } 251.26 251.26
250.79
F 0.47

$\Delta = 105^\circ 48'$ Ch. R = 2' L = 3.69'

1 + 52.87 = E.C.N.E. Alley Ret Rt

250.19 250.19
250.00
F 0.19

251.19 251.19
250.79
F 0.40

Alley & P.

251.08 256.08 251.58
C 4.50

+5.76

E.C. Alley

251.41 } 251.46 251.46
250.83
F 0.63

$\Delta = 74^\circ 12'$ Ch. R = 2' L = 2.59'

1 + 33.22 = B.C. Alley Ret Rt S.E.

250.48 250.48
C 0.09

2° Rad } 251.41 251.41
250.83
F 0.58

GRADES SUMAC DRIVE

Lt
Rough Curb Curb

±

Rt. Curb Rough Curb ④

2475

252.60
252.25
F0.35

253.61
253.27
F0.34

235

± E.C.
2+51.50 defd = 3°17'30"
R.P. 35' Lt. ±; Hub @ 47.5 W.R.P.

2
251.84 251.84
250.24 251.53
F1.6 F0.31

25839
252.85 252.85
252.49 C5.5
F0.36

29.05 c = 29.05

P.O.C. defd = 2°13'04"
2+22.45

250.93 250.93
2497 250.74
F1.2 F0.19

25619
251.94 251.94
251.77 C4.2
F0.17

20'

P.O.C.
2+02.45 defd = 1°28'44"

250.41 250.41
2495 250.25
F0.9 F0.16

6' South
250.08
2495
F0.13

6' South
251.09
250.82
F0.27

25575
251.42 251.42
251.17 C4.3
F0.25

20'

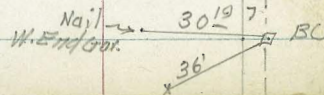
P.O.C.
1+82.45 defd = 0°44'22"

250.12 250.12
2492 250.07
F0.9 F0.05

25543
251.13 251.13
250.91 C4.3
F0.22

20' c = 20'

d = 2,217.901
A = 6°35' E R = 775' L = 89.05'
1+62.45 = ± B.C. Rt. T = 44.57'
= ± 4' Type K 1/2" I.D. N.E. RT & N.E. 5 Lt.
(See G-385 for 18" Drain)
P.P. 65
18' Lt. Tied



24998 250.93 250.25 251.09 25537
243.00 244.00 250.25 251.09 251.09
Gut F.L. 18" F.L. 18" Gut
Pipe Lt. Pipe
C 6.98 C 6.93
F0.9 F0.10 F0.16 C4.3

Rough Lt
Curb Curb

€

Rt ⑤
Curb Rough
Curb Curb

GRADES SUMAC DRIVE

4+31

257.62
256.65
F0.97

258.63
258.15
F0.48

4+00

256.62 256.62
252.95 255.76
F3.6 F0.86

257.63 263.32
257.24 257.63
F0.39 C5.7

3+75

255.82
255.33
F0.49

256.83
256.22
F0.61

3+50

255.01 255.01
252.25 254.95
F2.7 F0.06

256.02 261.47
255.47 256.02
F0.55 C5.5

3+25

254.21
253.78
F0.43

255.22
254.70
F0.52

3+00

253.40 253.40
252.48 253.22
F0.7 F0.18

259.41 259.61
254.09 254.41
F0.32 C5.2

LT
E
RT
⑥

Curb
Curb
Curb
Curb

Rough
Rough
Rough
Rough

GRADES SUMAC DRIVE

Alley & P.

259.96
Gut
26342
260.46
C 2.96

+ 5'

B.C. Alley

260.36
260.12
F 0.24
2° Rad

$\Delta = 90^\circ R = 2' L = 3.14'$
 $\Delta + 84.83 = E.C. N.E. Alley Ret$

259.35
258.72
F 0.43

2
260.36 260.36
260.12
F 0.24

Alley & P.

259.59
Gut
261.12
259.84
C 1.28

+ 6.20'

E.C. Alley

259.72
259.09
F 0.63
2° Rad

$\Delta = 68.01' Cb. E = 2' L = 2.37'$
 $\Delta + 62.48 = B.C. S.E. Alley Ret.$

258.64 258.64
2540 257.91
F 4.6 F 0.73

265.24
259.65 259.65
259.09 C 5.6
F 0.56

31.48

GRADES SUMAC DRIVE

	Rough Curb	Lt Curb	€	Rt Curb	⑦ Rough Curb
P.O.C. 6+02.41 def Δ = 8° 48' 53"	262.30 259.0 F 3.3	262.30 262.00 F 0.30		262.31 261.45 F 0.86	
20' C = 19.92'					
d = 26.444206 4 = 51° 05' 30" & R = 65' L = 57.96'					
5+82.41 = B.C. RT. T = 31.06'	262.30 258.1 F 4.2	262.30 261.90 F 0.40		262.31 261.79 F 0.52	266.50 262.31 C 4.2
RR#35 Rt. & Line X brick wall					
5+62.46		261.88 261.39 F 0.49		262.21 261.55 F 0.66	
5+42.46	261.15 257.2 F 4.0	261.15 260.86 F 0.29		262.01 261.58 F 0.43	268.30 262.01 C 6.4
5+22.46		260.57 260.20 F 0.37		261.58 261.34 F 0.24	
18 ⁴⁶					
5+04	259.97 257.04 F 2.9	259.97 259.69 F 0.28		261.00 260.98 C 0.02	267.28 260.98 C 6.3
19 ¹²					

Rough Lt
Curb Curb

E

Rt

Curb Rough
Curb Curb

GRADES SUMAC DRIVE

P.O.C. $\Delta = 31^\circ 23'$

10.25'

P.O.C. $\Delta = 15^\circ 41' 30''$

10.24

$\Delta T = 45.23'$ $d = 13.806212$
 $\Delta = 39^\circ 56'$ $\Delta R = 124.50'$ $L = 86.77$

C11

2.25

6+96.97 = E.B.C. Lt = E.C. 5W Cb. Ref.

261.14 261.14

Modesto 5" Cb. R = 37.41'

260.96

$\Delta = 94^\circ 09'$ $L = 61.47'$

F0.18

28.3 RP. 25' Lt. X; 40' Lt. X

6+68.67

261.47

261.43

F0.04

28.3

261.47

261.17

F0.30

E.C.

6+40.37 def $\Delta = 25^\circ 32' 45''$
RR HUB 35' Rt. E; X-Conc Foundation et.

262.36

261.80 261.80

C0.6 261.46

F0.34

17.96 C = 17.90

2660
261.81 261.81

261.72 C4.2

F0.09

P.O.C.

6+22.41 def $\Delta = 17^\circ 37' 46''$

261.2

262.05 262.05

F0.8 261.89

F0.17

262.06

261.93

F0.13

20' C = 19.92'

		Rough Curb	Lt Curb	±	Rt Curb	Rough Curb	②
GRADES SUMAC DRIVE							
		CO ⁶⁹					
P.O.C. ±		1.59	260.90				
A 7+27.35 def ± = 6° 59' 26"		260.90	260.90	260.79		260.20	Gutter
			GRADE				
A 15.19'							
P.O.C. ±							
A 7+12.16 def ± = 3° 29' 43"			261.02	261.03			
			260.72				
			F0.30				
A 15.19' c = 15.18							C3 ²⁶
B E.C. Modesto ch. Ret. ± = 94° 09'					260.30	260.30	3.56
					260.03	260.08	260.30
					F0.27	F0.22	
A 10.25'							
P.O.C. ± = 78° 27' 30"						260.35	
						260.04	
						F0.31	
A 10.24'							
P.O.C. ± = 62° 46'						260.50	
						260.08	
						F0.42	
A 10.25							C3 ²⁸
P.O.C. ± = 47° 04' 30"						260.70	3.98
						260.08	260.70 ✓
						F0.62	
A 10.24'							

Lt.
Rough
Curb

±

Rt.

Curb
Rough
Curb

⑩

GRADES SUMAC DRIVE

C1³⁵

8+10.41

1.94
260.59 260.59
260.70
C0.11

260.05

20'

7+90.41 = ± Cross Gutter 8'

260.77
260.50
C0.27

Gut
259.95

259.75

259.22
Gutter

EL.
RPHUB 35' 57" ± 55' 49" ± Airc Hubs Rt.

C1⁴⁹

7+83.74 FC. def ± = 19° 58'

202 260.84
260.53 260.53
6' 11" 57" C0.31

259.80

13.33' C = 13.32'

7+70.41 def ± = 16° 53' 56"

260.67
260.57
C0.10

260.10

11.63' C = 11.62'

C0⁷²

POC ±
7+58.78 def ± = 14° 13' 22"

138 260.77
260.66 260.66
C0.11

260.29

259.50
Gutter

15.72' C = 15.71'

POC ±
7+43.06 def ± = 10° 36' 20"

260.85
260.78
C0.07

260.54

259.85
Gutter

15.71' C = 15.70'

Rough Lt
Curb curb

€

Rt
Curb Rough
Curb

GRADES SUMAC DRIVE

	Rough Lt Curb	€	Rt Curb	Rough Curb
L=114.44 T=60.14 d=11.4029 R=150.74 A=43.30'	FO ²⁸			CO ²⁹
9+27.97 = EBC Lt = RC.5E Cb Rt Laurel St. A=113°53' L=41.82' CbR=21.04'	4.49 264.77 264.04 FO.73	264.60	264.45 263.86 FO.59	4.74 264.45
4RP.30' Lt. + 45' Lt. + 50' Rt Line Hub 18.63				
9+09.34			263.49 263.24 FO.25	
18.62'	FO ⁴⁰			FO ²⁸
8+90.72	2.51 262.91	262.91 262.54 FO.37	262.53 262.45 FO.08	2.31 262.53
8+70.72		262.04 261.69 FO.35	261.64 261.60 FO.04	
20'	CO ⁵³			FO ⁵⁹
8+50.72	1.89 261.36	261.36 261.21 FO.15	260.97 260.91 FO.06	0.38 260.97
TP. 262.11				
20'	CO ⁸¹			FO ⁶³
RP Hub. 30' Et.; line X 43 1/2 Et. 8+30.72 = 7+39.73 EC. Modesto (see Pg. 31)	1.68 260.87	260.87 260.37 FO.50	260.52 260.42 FO.10	9.89 260.52
20.32				

Rough Lt
Curb curb

±

Rt

Curb Rough
Curb ⑫

GRADES SUMAC DRIVE

POC ± 9+62.41 def 4 = 6° 32' 43"	FO ⁶⁵ 535 266.00	266.00	266.15	265.80	
20.1' C = 19.99'		265.80 FO 20		Gutter	
POC ± 9+42.41 def 4 = 2° 44' 40"		265.24			
14.44' C = 14.44		264.80 FO 44			
def 4 = 56° 56' 30" EG. Laurel 4 = 113° 53' cb, Ret				265.90	265.90
10.45				F1.52	
P.O.C. 4 = 85° 24' 45" def 4 = 42° 42' 22"				265.84	
10.46'				264.78 F1.06	
POC. 4 = 56° 56' 30" def 4 = 28° 28' 15"				265.48	265.48
10.46'				264.55 FO.93	
C-3° bk cb = 8.88'					
P.O.C. 4 = 28° 28' 15" def 4 = 14° 14' 07"				264.95	
10.45'				264.32	
C-3° bk cb = 8.87'				FO.63	

Lt
Rough
Curb

E

Rt
Curb
Rough
Curb

(13)

GRADES SUMAC DRIVE

Poc E
10+79.68 def 4 = 3° 33' 32"

268.62
268.28
FO.34

269.70

17.27' C = 17.27'

Poc E
10+62.91 def 4 = 1° 54' 36"

268.36
267.89
FO.47

269.50

20' C = 20'

F1²⁵

E R = 300' x = 10° 25' L = 54.54' d = 5.729578

679

10+42.41 = PRC. def 4 = 21° 45"

268.09 268.04
RR Hub 267.70
FO.34

268.60

269.18

G 236

E R Hub. 30' Lt. Lite Hub 26' Rt.

1.54
269.18

20'

Poc E
10+22.41 def 4 = 17° 56' 53"

267.68
267.49
FO.19

268.10

20'

F1¹²

Poc E
10+02.41 def 4 = 14° 08' 50"

611
267.23 267.23
267.07
FO.16

267.59

20'

Poc E
9+82.41 def 4 = 10° 20' 46"

266.66
266.66
GRADE

267.08

267.00
Gutter

20' C = 19.986'

Lt E Rt
 Rough Curb Curb Curb Rough Curb ⁽⁴⁾

GRADES SUMAC DRIVE

POC ϕ 12+50 def $\phi = 4^{\circ} 51' 36''$			270.81 270.52 F0.29		271.82 271.39 F0.43	
TP 271.00						
		$F3^{07}$				$C3^{30}$
POC ϕ 12+25 def $\phi = 3^{\circ} 06' 00''$	270.5	270.50	270.50 270.11 F0.39		271.50 271.27 F0.23	271.50 4.80
C = 25'						
POC ϕ 12+00 def $\phi = 1^{\circ} 20' 27''$			270.19 269.75 F0.44		271.19 271.07 F0.12	
1905 C = 1905	269.95 269.3					$C3^{06}$
$d = 4.223068$ $\phi = 24^{\circ}$ T = 86.51 ER = 407.02 L = 170.49 ERR Hub 30' R; Line Hub 60' L 42'	269.7	269.95	269.95 269.44 F0.51	270.41	270.95 270.45 F0.50	270.95 4.01
11+38.95	269.42 269.0	269.42	269.42 268.98 F0.44		270.42 269.89 F0.53	269.42 3.15
42'00						
10+46.95 = EC def $\phi = 5^{\circ} 12' 30''$		268.89	268.89 268.53 F0.36		269.89 269.59 F0.30	269.89 2.48
ERR Hub 30' R; Line Hub 50' L						
17.27						

Rough Lt
Curb Curb

± Rt

(15)
Rough Curb Curb

GRADES SUMAC DRIVE

~~F4.60~~

C2.09

14+00

273.76
~~2732~~
F0.6

9.16
273.76 273.76
273.44
F0.32

274.69 274.69
274.45 H.L.
F0.27

13+75

273.26
272.91
F0.35

274.16
273.86
F0.30

23.56

~~F3.47~~

C2.18

13+51.44 EC def4 = 12°00'
ERP Hub 30' Lt; Line + 45' Rt. in walk
30 Rt

272.79
272.79
F0.1

9.32
272.79 272.79
272.47
F0.32

273.67 273.67
273.30
F0.37

25.44' C = 25.44'

POC ±

13+26 def4 = 10°12'33"

272.25
272.16
F0.09

273.16
272.94
F0.22

26' C = 26'

271.7
271.7
F0.5

~~F3.06~~

C4.03

POC ±

13+00 def4 = 8°22'45"

8.69
271.70 271.70
270.1
271.61
F0.09

272.65 272.65
272.43
F0.22

29.05' C = 29.04'

~~C0.07~~

C3.65

POC ±

12+70.95 def4 = 6°20'04"

1.15
271.08 271.08
270.0
270.47
F1.1 F0.61

272.08 272.08
271.72
F0.36

20.95' C = 20.95'

271.1
270.9
F0.2

Lt

±

Rt

①
Rough
Curb

GRADES SUMAC DRIVE

Rough
CurbC1⁸⁰C1⁸²

P.O.C. ±

15+09.68 def. $\Delta = 22^{\circ} 31' 26''$

279.02

279.02

279.02

279.02

278.69

278.30

F0.33

F0.72

20'

P.O.C. ±

14+89.68 def. $\Delta = 17^{\circ} 18' 28''$

277.73

277.94

277.70

277.23

F0.03

F0.71

I.P. 278.93

18.85 C = 18.83'

C1¹⁰C3²³14+70.83 def. $\Delta = 12^{\circ} 23' 29''$

7.46

277.29

276.36

276.36

276.81

9.59

C0.93

276.28

276.36

F0.53

20'

14+50.83 def. $\Delta = 7^{\circ} 10' 30''$

275.16

275.84

275.15

275.29

GRADE

F0.55

20' C = 19.97

P.O.C. ±

14+30.83 def. $\Delta = 1^{\circ} 57' 31''$

274.43

275.30

273.96

275.07

F0.47

F0.23

7.51' C = 7.51'

F2⁹¹C2⁸⁰ $\Delta = 66^{\circ} 04'$ ± R = 109.84 L = 126.65 T = 71.42'

1.32

14+23.32 = ± B.C. RT. $d = 15.648883$

274.23

274.23

275.17

7.97

± RP Hub 35' ± Lt. Lite Hub 35' ± Lt.

273.74

274.97

42 ±

F0.49

F0.20

23.32

GRADES SUMAC DRIVE

ROUGH CURB Lt. Curb Rt. Curb (17) ROUGH CURB

EC Alley

2nd Rad }
281.24
280.63
F0.61

2nd Rad }
280.85
280.61
F0.24

15+66.97 = EC, NE & SE Alley Ret's

281.24
280.63
F0.61

280.85
280.61
F0.24

Hub 41' Lt @ 45° Bk. Tan.
ERR + 41' Rt @ 45° Rt. Bk. Tan. Chis IX
157+49.97 = EC def 4 = 33° 02'
Alley & R

C1.93
2.89 282.92
280.96 280.96
C1.96

280.63
Gutter

281.80 1.77
280.40 280.64 280.64
Gutter C1.16

+ 5'

EC Alley

2nd Rad }
280.86
280.20
F0.66

2nd Rad }
280.54
279.96
F0.58

def 4 = 32° 24' 32"
15+47.58 = EC, Alley Ret's Lt & Rt.
Cb R = 2' & Lt = 89° 06' 59"
4 Rt = 91° 16' 40"

280.75
280.20
F0.55

280.42
279.96
F0.46

17.90' C = 17.88'

15+29.68 def. 4 = 27° 44' 25"

280.19
280.06
C0.13

279.87
279.18
F0.69

20'

GRADES SUMAC DRIVE

Lt.
Curb
Rough Curb

±

Rt

Curb
Rough Curb ^(B)

T.B.M.

280.18-17 N.W. 7' x 9⁵ C.T. Fairmount & Sumac.

C041

C12

C134

16+85⁰¹ = W.L. Fairmount Ave

1.01
280.60 280.60
280.20
F0.40

280.91 114
279.80 279.80
C1.11

C075

C075

16+60

1.67
280.92 280.92
3' bk, 280.62
F0.30

280.60 135
280.44 280.60
F0.16 1' bk,

16+35

281.24
281.09
F0.15

280.83
280.79
F0.04

C061

C2²⁰

16+10

2.17
281.56 281.56
3' bk 280.83
F0.73

3.26
281.06 281.06
280.66
F0.40

20'

15+90+1

281.57
280.63
F0.94

281.09
280.57
F0.52

23'03'

Alley #12

281.34 282.74 281.34 280.84
C1.40 Gutter

280.50 282.58 280.95 280.95
Gutter C1.63

+5'

3738-D Sheet 6+5

PAVING GRADES JUNIPER ST FROM
SUMAC DRIVE TO MODESTO ST. NO. 32138

RT
Curb Rough Curb

1+10
2603
259.52 259.52
C 0.8 259.37
F 0.15

258.90 258.90
258.83 258.7
F 0.07 F 0.2

0+77.45 = E.C. N.E. Cb: Ret
2591 25794
257.73 257.73
C 1.4 C 0.21

257.64 260.1
257.47 257.47
C 0.17 C 2.6
68

13.78

0+63.67 (RT only)

257.32
257.09
C 0.23

0+43.67 RT only

256.91 260.1
256.80 256.80
C 0.11 C 3.3

R.P. To NOD 40' RT; Line Hub 100' ± RT.

0-05.09-20' RT = Begin Curb
= & Conc. Mon.
0+00 = & Juniper & W.L. Sumac.
& N14 TO E14 = 74°11'45'

256.86
256.44 256.44
C 0.42 253.3
F 3.1

B.M.

JUNIPER ST.	Lt		E		Rt	
	Rough Curb	Curb			Curb	Rough Curb ⁽²⁰⁾
2+50	2645 26268 C1.8	26268 26257 F0.11			26168 26159 F0.09	261.68 2596 F2.1
2+20		26247 26232 F0.15			26152 26147 C0.05	
1+90	2635 26227 C1.2	26227 26218 F0.09			26127 26114 F0.13	261.27 2599 F1.4
1+70		26200 26162 F0.38			26103 26079 F0.24	
1+50	(21) 26145 2613 F0.2	26145 26115 F0.30			26055 26037 F0.18	260.55 2598 F0.8
1+30		26062 26036 F0.26			25984 25962 F0.22	

JUNIPER ST.

LT
 Rough
 Curb

E

RT
 Curb
 Rough
 Curb ⁽²⁾

3+90	266.4 261.64	261.64	260.80 260.77 C 0.03	261.3 260.77 C 0.5
TBM. Top Chis/ + 3+75+ Pot. 30.20' H. Chis/ + Top brick wall 45' Lt. Line Stub.	266.24 C 4.8	261.44 F 0.20		
3+70		262.38 262.18 F 0.20	261.45 261.32 F 0.13	
3+50	266.3 262.86 C 3.4	262.86 262.44 F 0.42	261.89 261.79 F 0.10	263.0 261.89 C 1.1
3+30		263.11 262.76 F 0.35	262.11 262.11 GRADE	
3+10	264.4 263.09 C 1.3	263.09 262.89 F 0.20	262.09 261.81 F 0.28	262.1 262.09 GRADE
2+80		262.88 262.81 F 0.07	261.91 261.88 C 0.03	

JUNIPER ST.

LT
Rough Curb CURB

E

RT
Curb Rough Curb

5+39.26 Pot. Juniper = RP. 23' RT @ 90° To b.e. Tan
 def 4 LT = 1° 08' " 37.47' Rt. " " "
 Ties Juniper st. Ely.
 5+29.47 RP. Hub. 20' 6 1/4 E Modesto Produced
 " " 45' ± LITE Hub

LT 4+98.26
 POC. def 4 = 12° 48' 41"

255.70 255.70
 255.76
 C0.06

251.25

7.50 - C = 7.49'

RT 4+90.76
 POC. & def 4 = 7° 19' 03"

256.25

255.20
 254.87
 F0.33

4+99.99 - C = 9.96'

4+80.77 = EBC. Lt. 4 = 102° 27' 45" E R = 39.11'
 E L = 69.94' T = 48.70'
 d = 43.949716

260.6
 256.25 256.25
 C 4.3 256.10
 F0.15

255.75 255.75
 255.45 252.5
 F0.30 F 3.3

4+55.38

257.84
 257.73
 F0.11

257.23
 256.99
 F0.24

4+30

(PL)

2622
 259.43 259.43
 C 2.8 259.18
 F0.25

258.71 258.71
 258.52 257.5
 F0.19 F 1.2

4+10

260.00
 260.25
 F0.42

259.76
 259.70
 F0.06

(Pot. Ties To Juniper St. Ely of Modesto)
 7+29.68 E Juniper RP. Hubs 30' 8 5/8 RT
 7+89.71 " " 30' 8 60' RT To Carr. Mo 11
 def 4 Rt. 0° 08' 30"

JUNIPER & MODESTO

Rough Lt
Curb Curb

±

Rt (22)
Curb Rough
Curb

8.49' C = 8.47

Lt. 5+32.24
POC & def 4 = 37° 42' 06"

255.64
255.35
C 0.29

1.50'

Rt. 5+30.74
POC & def 4 = 36° 36' 10"

255.10
254.86
F 0.34

9.99' C = 9.96

Rt. 5+20.75
POC & def 4 = 29° 17' 07"

254.95
254.76
F 0.19

5' C = 5'

Lt. 5+15.75
POC & def 4 = 25° 37' 22"

255.40 255.40
C 0.30

5' C = 5'

Rt. 5+10.75 = 4' type
POC & def 4 = K Inlet def 4 = 21° 57' 37"

254.54
252.00 252.50
Outlet 12" F.L. 12"
R.C.P.
254.90 254.90
254.54
F 0.36
C 2.04

10' C = 9.97

Rt. 5+00.75
POC & Def 4 = 14° 38' 07"

254.95
254.48
F 0.47

2.49' C = 2.49'

Rough Lt
Curb Curb

±

Rt. (23)
Curb Rough
Curb

GRADES JUNIPER & MODESTO

Cb. R = 2' $\phi = 101^{\circ}20'$
1+51.66 = B.C. S.E. Alley Ret

2602
257.09 257.09
256.80
F0.29 C 3.1

1+31.20

257.49
257.32
F0.17

256.83
256.54
F0.29

1+11.20

2631
257.03 257.03
C 6.1 256.60
F0.43

2593
256.52 256.52
256.43 C 2.8
F0.09

31.20

256.26
255.88
F0.38

256.14
256.01
C 0.13

0+80-

31.30
(Juniper)
57.50.73 = 0+48.70 Modesto St.
E.C. ϕ def $\phi = 51^{\circ}14'$

2613
255.50 255.50
C 5.8 255.35
F0.15

2567
255.50 255.50
255.39 C 1.2
F0.11

10' c = 9.97'

Rt. 5+40.73
POC ϕ def $\phi = 43^{\circ}55'13''$

255.26
254.82
F0.44

8.49' c = 8.47'

Rough Lt
Curb Curb

E

Rt
Curb Rough
Curb Curb

MODESTO ST

9.36'

cb. R=2' ϕ =78°40'

1+71.04 = E.C. NE Alley Ret

257.32
25692
F040

Alley & R

26049
258.27
C 2.22

257.95
Gutter

E.C. Alley

$\frac{0}{2}$

258.11
257.26
F0.85

cb. R=2' ϕ =77°31"

1+60.94 = B.C. S.W. Alley Ret

2633
258.05
C 5.2

258.05
257.26
F0.79

Alley & R.

25921
256.95 257.29 257.29
Gutter C 1.92

+ 4.70'

E.C. Alley

257.20
25680
F040

Rough
Curb

Lt
Curb

E

Rt

Curb

(25)
Rough
Curb

MODESTO ST.

1+90.40

258.45
257.73
F0.72

257.50
257.33
F0.17

10'

Alley & Pl.

259.80 259.80
258.49 258.02
C 1.31 Gut

+4.68

B.C. Alley

258.40
257.62
F0.78

29
Rad

cb. R = 2' 4" = 102° 29'

1+80.40 = E.C. NW. Alley cb. Ret

258.33
257.62
F0.71

Alley & Pl.

257.46
257.34
F0.12

+5.50'

B.C. Alley

257.35
256.92
F0.43

MODESTO ST

Rough Lt
Curb Curb

±

Rt (26)
Curb Rough
Curb Curb

3+25

259.14
258.87
F0.27

258.14
258.10
F0.04

3+00

2622
259.04
C3.2
258.87
F0.17

258.04 258.04
257.96 2554
F0.08 F2.6

2+75

258.94
258.64
F0.30

257.94
257.80
F0.14

2+50

2619
258.83
C3.1
258.37
F0.46

257.83 257.83
257.60 2572
F0.23 F0.6

19.6

2+30.4

258.75
258.23
F0.52

257.75
257.46
F0.29

20'

2+10.4

2621
258.64
C3.5
257.79
F0.85

2587
257.65 257.65
257.50 C1.0
F0.15

20'

MODESTO ST.

LT
Rough Curb Curb

E

RT
Curb Rough Curb

19.46'

Cb, R=2'4"=77031"
4+71.86=B.C. SW Alley cb, Ret

259.75
259.54
F0.21

258.67
258.75
F0.08

21.86'

4+50

2634
259.66 259.66
C3.7 259.30
F0.34

258.76
258.66 258.66
C0.10 2543
F4.4

4+25

259.56
259.45
F0.11

258.66
258.56
C0.10

4+00

2636
259.45 259.45
C4.1 259.32
F0.13

258.45 258.45
258.32 2547
F0.13 F3.8

3+75

259.35
259.10
F0.25

258.35
258.23
F0.12

3+50

2629
259.25 259.25
C3.6 258.97
F0.28

258.25 258.25
258.15 2545
F0.10 F3.8

MODESTO ST.

Lt
Rough Curb

±

Rt
Curb Rough Curb (28)

Alley & Pl

261.54
260.00
C1.54

+4.68

B.C. Alley

2/2 Rad }
259.91
259.70
F0.21

4+91.32 = EC. NW. Alley ch. Ref

2633
259.84
C 7.5 }
259.84
259.70
F0.14

259.12
258.84 258.84
C0.28 254.6
F 4.2

Alley & Pl.

261.46
259.95
C1.51 }
259.70
Gut

+5.56

EC. Alley

259.84
259.54
F0.30

258.61

MODESTO ST.

Rough Lt
Curb Curb

±

RT
Curb Rough
Curb Curb

6+22.89

POC. ± def ± = 3° 21' 08"

259.80

259.37

259.32

F0.05

F1.69

20'C = 19.99'

± T = 72.33' d = 10.057189

± R = 170.91' A = 45° 52' 30" L = 136.84'

C3²⁶

3⁵⁶

260.30

260.30

259.76

259.33

259.30

257.61

259.30

6+02.89 = ± BC. RT = BC. SWLY Cb.

Ret Sumac. Dr. (See P. 8)

R.P. Hub 40° Lt; Line X brick wall 80' ± Lt.

F0.27

C0.03

259.2

F0.1

22.89'

5+80

260.20

260.20

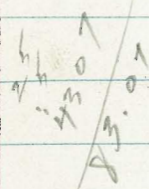
GRADE

259.37

259.20

C0.17

5+60



2636

260.12

260.12

C3.5

259.97

F0.15

259.31

259.12

259.12

C0.19

256.2

F2.9

5+40

260.04

259.83

F0.21

259.35

259.04

C0.31

5+20

2636

259.95

259.95

C3.6

259.61

F0.34

259.23

258.95

258.95

C0.28

254.8

28.68'

F4.2

MODESTO ST.

LT
ROUGH CURB
CURB

E

RT
CURB
ROUGH CURB

30

B.C. Alley

cb. R = 2' $\Delta = 74^{\circ} 45' 34''$
6 + 94.38 = E.C. NE. Alley cb. Ret.
def $\Delta = 15^{\circ} 20' 08''$

2°
Rad

260.17
259.70
C0.47

F0⁹¹

260.17
259.70
C0.47

879
259.70

31.08
Alley & P.

4.98'
+ 4.15

259.42
Gvt.

259.84
259.72
C0.12

E.C. Alley

31.
 $\Delta = 90^{\circ} 41' 29''$ def $\Delta = 10^{\circ} 07' 09''$
6 + 63.26 = B.C. SE. Alley Ret. cb. R = 2'

2°
Rad

259.76
259.62

C0.14

259.76
259.54
C0.22

20.37' C = 20.36'

6 + 42.89
P.O.C. Δ def $\Delta = 6^{\circ} 42' 17''$

259.70

259.56
259.45
C0.11

F1²²

823
259.45

20' C = 19.99'

MODESTO ST.

Lt
Rough CURB
CURB

±

Rt
CURB
Rough CURB (31)

7+39.73 ± EC def θ = 22° 56' 15"
= 8+30.72 POT Sumac Dr. (see Pg. 11)

260.87 260.87

FO⁶³
989
260.52 260.52
FO.10

22.73 C =

7+17 POC ± def θ = 19° 07' 37"

22.62 C =

260.52
260.09
C.043

Alley & A.

75.72

259.82
259.72
FO.10

PAVING GRADES LAUREL ST.
FAIRMOUNT TO SUMAC DRIVE

Rough Lt Rt
Curb Curb Curb Rough
Curb Curb Curb

O+25 POC Δ Def $\Delta = 2^{\circ}23'14''$

264.54
264.15
F0.39

264.80
264.28
F0.52

C=24.99'

Fairmount Ave
BC $\Delta = 90^{\circ}$

263.90 263.90
263.51
F0.39

EXIST
264.90 264.90
264.96

10.47'

POC $\Delta = 60^{\circ}$

264.10
263.52
F0.58

264.80
264.75
C0.05

10.48'

POC $\Delta = 30^{\circ}$

264.27
263.67
F0.60

264.68
264.57
F0.11

10.47

Set R-Hubs Lt & Rt.

C3²²

Ch. R=20' $\Delta = 90^{\circ}$ L=31.42'

O+20 = W.L. F.M.T. Ave = EC. Ch. Rets Lt & Rt.
= Δ BC. Rt. R=300' $\Delta = 90^{\circ}$ L=471.24
d=5.729578

7.62
264.40 264.40 ✓
263.60
F0.80

C1⁷⁰
640
264.70 264.70
264.42
F0.28

O-17⁵ = Δ 8' Conc. Cross Gutter

263.75 263.90 264.12
+ Cross Gutter Δ

B.M.

280.17

NW. BP Sumac & Fairmount

LAUREL ST.

Lt
Rough
Curb

±

Rt

curb
Rough
Curb

Alley & Ft.

26730
265.26
C 2.04

26493
Gut.

+ 5.46'

EG. Alley

20 rad. }
265.12
26463
F 0.49

T =
cb. R = 2' ± = 79° 22' 30"
1 + 17.89 = BC. SE. Alley Cb. Ret
L = POC. & def ± = 11° 13' 44"

265.06
26463
F 0.43

265.18
26476
F 0.42

17.59'

C 3.57

C 4.81

1 + 00 POC & def ± = 9° 32' 58"

8.57
264.96
26486
26466
F 0.20

9.92
265.11
26473
F 0.38
265.11
4° bk

0 + 75 POC & def ± = 7° 09' 43"

26482
26447
F 0.35

265.00
26461
F 0.39

C 1.94

C 5.52

0 + 50 POC & Def ± = 4° 46' 30"

6.62
264.68
26468
26417
F 0.51

0.42
264.90
26443
F 0.47
264.90

LAUREL ST.

Rough Lt
Curb curb

±

Rt Curb Rough Curb (34)

Alley & R.

266.65
265.32
C 1.33

265.00
GUT

+ 4.64'

EC. Alley

2° Rad }
265.22
264.93
F 0.29

265.40

cb. R = 2' A = 97° 13' 00"

EC. 5' W. Alley cb. Ref

1 + 35.44 POC & def A = 12° 56' 00"

C 3.41

8.56
265.15

265.15

Lt. Only

264.93
F 0.22

+ 4.94'

Alley & R.

268.30
265.10 265.43
GUT. C 2.87

+ 6.73

EC. Alley

26. }
265.30
264.93
2° Rad } F 0.37

C 3.95

cb. R = 2' A = 65° 04' 31"

1 + 30.50 = BC NE Alley cb. Ref (Rt Only)

def A ± = 12° 27' 43"

9.19
265.24 265.24
264.93
F 0.31

12.91

LAUREL ST.

Rough Curb Lt Curb

€

Rt Curb Rough Curb (35)

2+29 POC def 4 = 21° 52' 04"

265.58
264.92
F0.66

265.56
265.28
F0.28

C = 28.99'

F109

C284

2+00 POC def 4 = 19° 05' 55"

432
265.41

265.45
265.20
F0.25

265.47 265.47
265.24
F0.23

1+80 POC def 4 = 17° 11' 19"

265.36
265.36
GRADE

265.40
265.22
F0.18

25'

Alley 4 R

265.18 266.15
Gut. 265.50
C0.65

+50'

BC Alley

2° Rad { 265.40
265.07
F0.33

cb. R = 2' 4" = 119° 48' 31" ?
EC NW Alley cb. Ret

C164

C107

1+55.00 POC def 4 = 14° 48' 05"

688
265.24

265.95
265.24
C0.71

265.32 265.32
265.07
F0.25

19.56'

LAUREL ST.

Rough Curb Lt Curb

E

Rt

Curb Rough Curb (36)

TP. 66.61

2.88 to 24 ch.

C 2⁰⁷

3+44.4 POC def α = 32° 51' 53"

266.70

267.60

967
26760

12.93

26700

F0.60

3+31²¹ POC def α = 31° 37' 42"

266.45

267.23

26692

F0.31

21.82

3+09³⁹ POC def α = 29° 32' 40"

266.20

266.78

266.78

Sumac Dr.
2+10³⁹ POC def α = 29° 32' 40"

F0.44

266.25

F0.53

C 1⁴⁴

7.11 16

2+98.23 POC def α = 28° 28' 44"

5.46

265.90

265.90

266.18

266.53

797
266.53

= BC SW 1/4 cb Ret Sumac.

cb. R = 21° 09' α = 113° 53' L = 41.82'

(Set cb. R. Hub.)

264.38

F1.52

266.07

F0.46

2+89 POC def α = 27° 35' 51"

265.80

265.86

266.40

266.40

20'

264.20

F1.66

266.00

F0.40

2+69 POC def α = 25° 41' 16"

265.76

264.56

F1.20

266.72

265.84

F0.28

20'

F3²⁹

C 2⁰⁰

2+49 POC def α = 23° 46' 40"

2.33

265.62

265.67

264.82

F0.65

265.84

784
265.84

F0.31

265.53

LAUREL ST.

LT
Curb
Rough

E

RT

(57)
Curb
Rough

Opp. House No 4320 - Laurel St.
Chis / NW Cor Conc. Walk.

TBM.

268.14
G-385
64

C 2 59

RP Hub 30° RT, LIME Hub 50' ± LT,
4+71.24 EC. def A = 45° 00' 00"

269.89
269.59
F0.30
2 48
269.89

2488 C = 24.87

4+46.36 POC def A = 42° 37' 27"

269.65
269.33
F0.32

24.87 C = 24.86

C 2 15

4+21.49 POC def A = 40° 14' 58"

269.41
269.22
F0.19
156
269.41

22.57

3+98.92 POC def A = 38° 05' 38"

269.18
268.48
F0.70
269.18

22.57

C 1 86

3+76.25 POC def A = 35° 56' 20"

268.53
267.90
F0.63
039
268.53

22.57 C = 22.56

3+53.78 POC def A = 33° 47' 01"

266.70

267.88
267.20
F0.68

19.64

PAVING GRADES COLUMBINE ST.
FAIRMOUNT AVE TO PEPPER DRIVE
W.O. 32138

Left
Curb
Rough

±
Ref Sht. N^o 8, 3740-D

Right
Curb
Rough
(38)

1+10⁷⁵

286.02
285.70
F0.32

286.08
285.67
F0.41

F0⁵⁷

C1³²

0+90.75

5.65
286.22
286.22
285.85
F0.37

286.38
286.38
286.04
F0.34
7.70
286.38
3' bk.
chislt

0+70⁷⁵

286.48
286.16
F0.32

286.75
286.44
F0.31

F0³⁴

C0⁵⁸

0+50.75

6.45
286.79
H.L.
286.31
F0.48

287.22
287.22
286.95
F0.27
7.80
287.22
4' bk.

0+30.75

287.13
286.77
F0.36

287.60
287.42
F0.18

F0⁶⁸

C0³³

0+00 = W.L. Fairmount

6.92
287.60
287.60
287.12
F0.48

288.40
288.40
288.30
F0.10
8.73
288.40
H.L.

B.M.

288.17

NW 7x95 L&T. Fairmount & Columbine

COLUMBINE ST.

Curb
RoughLt
Curb

±

Rt

Curb

Rough
Curb ⁽³⁹⁾

Alley & Rt.

286.01
284.76
F 1.25285.51
GUT285.65
GUT.286.02
285.81
F 0.21

+ 5'

BC. Alley

285.91
285.36
F 0.55285.92
285.23
F 0.69

2' Rad

Cb. R = 2' ± = 90°

1 + 37 = E.C. NW & SW. Alley Ret's

285.83
285.36
F 0.47285.83
285.23
F 0.60

Alley & Rt.

286.12
284.88
F 1.24285.62
GUT285.80
GUT.286.37
286.15
C 0.22

+ 5'

EC. Alley

286.02
285.64
F 0.38286.05
285.62
F 0.43

2' Rad

Cb. R = 2' ± = 90°

1 + 18 = BC. NE & SE. Alley Ret's

285.96
285.64
F 0.32286.00
285.62
F 0.38

COLUMBINE ST.	Rough Curb	Lt Curb				Rough Curb	(70) Rough Curb
							CO ⁵²
2+75.10	F4 ⁶⁰ 0.61 285.21	285.21 285.04 F0.17				285.20 284.97 F0.23	5.72 285.20 H.L.
35'							CO ⁵³
2+40.55 = 2+40.10 EC. def Δ = 32°26'00" RR Hub. 30° Rt. LINC Hub 48' Lt.	F3 ³⁴ 2.02 285.36	285.36 285.04 F0.32				285.35 284.98 F0.37	5.88 285.35
18.35' C = 18.24'							
2+21.90 POC. def Δ = 21°37'01"		285.43 285.25 F0.18				285.40 285.14 F0.26	
18.34'							
2+03.71 POC. def Δ = 10°48'31"		285.56 285.51 E 0.05				285.45 285.19 F0.26	
18.34' C = 18.23'							
L = 55.03' L = 64°52' L = 54.58' d = 35.360489	F1 ²⁴ 4.35 285.59	285.59 285.27 F0.32				285.50 285.23 F0.27	CO ³² 5.82 285.50
1+85.52 = Δ BC Rt. Δ R = 48.61' RR Hub. 40° Lt.; Line Hub 68° Lt							
34.77							
							CO ²²
1+50.75	F1 ⁸⁶ 3.90 285.76	285.76 285.47 F0.29				285.74 285.40 F0.34	5.96 285.74

COLUMBINE ST.

Rough Lt
Curb Curb

E

Rt

Curb

Rough Curb

(4)

TR

283.24

4+10 POC.def4 = 20°23'34"

284.70
284.63
CO.07

284.62
284.32
FO.30

20'

~~F29~~ ~~F239~~

3+20 POC.def4 = 16°18'37"

~~233~~
284.72 284.72
284.42
FO.30

284.70
284.38
FO.32

C1 03

5.73

284.70

H.L.

20'

3+70 POC.def4 = 12°13'39"

284.80
284.24
FO.56

284.79
284.30
FO.49

20' 1/2" 1/2" 56"

F7 34

CO.46

3+50 POC.def4 = 8°08'42"

7.55
284.89 284.89
284.26
FO.6.3

284.88
284.18
FO.70

5.34

284.88

Chisl +

20' C = 19.98'

3+30 POC.def4 = 4°03'44"

284.97
284.54
FO.43

284.96
284.55
FO.41

19.20' C = 19.88'

T = 91.25'

F9 03

A = 66°04' L = 161.82' d = 12.247922

56.03
285.06 285.06

3+10.10 = B.C.Rt + R = 140.34

RR Chisl + 27° Rt; Linex Edge Gar, floor Rt.

284.61
FO.45

285.05
284.81
FO.24

CO.70

5.75

285.05

Chisl +

35'

COLUMBINE ST.

Rough Lt
Curb Curb

E

Rt

Curb Rough
Curb

BC Olive St. $\Delta = 49^\circ 04'$ def $\Delta = 24^\circ 32'$
8.57 C = 7.22'

284.43
GUT 284.93
284.64
F 0.29

P.O.C. $\Delta = 24^\circ 32'$ def $\Delta = 12^\circ 16''$

8.56 C-3° bk. cb = 7.22'

283.69
GUT 284.36
284.16
F 0.20

C 3⁵⁸

$\Delta = 49^\circ 04'$ cb, R = 20' L = 17.13'

5+18.01 = BC, S.E. Cb. Ret Olive St.
(See G-385-P9.75)

276.00
F.L.
4'K-N^o2
8" Walls

283.39
GUT

284.22 284.22
283.86 0.006k
F 0.36

23.09'

C 2⁰¹

4+94.92 P.O.T. Rt Cb.

283.62 284.29 284.29
283.97
F 0.32

(4+73.92 BC Lt)
23'

F 1³⁹

(Cont'd P9.43)

4+71.92 = E.C. def $\Delta = 33^\circ 02' 00''$
RP. Hib. 35° Rt.; Live Curb 1+65' ± Rt

298
284.37 284.37
284.02
F 0.35

284.31

283.85 284.35 284.35
283.71
F 0.64

C 1²²

21.92' C = 21.90'
4° 28' 28"

4+50 P.O.C. def $\Delta = 28^\circ 33' 29''$

284.46
284.03
F 0.43

284.44
284.14
F 0.30

20'

F 2⁶⁹

4+30 P.O.C. def $\Delta = 24^\circ 28' 31''$

1.86
284.55 284.55
284.20
F 0.35

284.53 284.53
284.14
F 0.39

C 1⁶⁶

20'

COLUMBINE ST.

ST.

Lt
Rough
Curb

E

BT

Curb

Rough
Curb

(43)

F1.0 ~~F0.71~~

412

284.89

284.89

284.84

284.88

284.88

284.56

F0.33

284.34

F0.54

C3⁵⁹

847

RPHub. 45° Lt. 50'±

5+73.61 ± EC. def α = 31° 33' 00"

20'

5+53.61 POC. def α = 25° 13' 24"

20'

284.55

284.50

284.34

F0.21

F1.48

286

284.34

284.34

283.84

284.29

284.28

F0.06

20'

4' TYPE K Inlet.

5+13.6' POC. def α = 12° 33' 45"

20 C = 19.96'

F0.67

3.60

284.27

284.27

283.77

284.22

284.01

F0.26

19.69' C = 19.65'

4 = 63° 06' L = 99.68' d = 18.990978

4+73.92 = ± BC. Lt. ± R = 90.51' T = 55.57

284.36

Set RP. Line Hub on Tan. on Lawn under Bay Window
@ Cor.

COLUMBINE ST.

Rough Lt
Curb Curb

⊖

⊕

⊕
Curb Rough
Curb

RPHub. 30' Lt; Line Hub 50' ⊕ Rt 0.015 N. ⊕ Tr.

F0¹³

C1¹²

$\lambda = 220/11' L = 49.49' d = 13.447609$
 $7 + 04.90 = \ominus BC, Rt \ominus R = 127.82'$
 $T = 25.06'$

885
 288.98 288.98
 RPHub. 288.41
 F0.57

~~288.88~~ 288.88
~~288.51~~
~~F0.37~~
 GRADE

24.90

6+80

288.15
 287.94
 F0.21

288.07
 287.79
 F0.58
 F0.48

25'

F1¹⁶

C0¹³

6+55

615
 287.31 287.31
 Chst+ 286.65
 F0.66

7.99
 287.26 287.26
 286.75
 F0.51

25

6+30

286.48
 285.93
 F0.55

286.45
 286.00
 F0.45

16.4

F0.78

C2⁰³

6+13⁶

515
 285.93 285.93
 285.50
 F0.43

7.95
 285.92 285.92
 285.53
 F0.39

20'

5+93⁶

285.35
 285.16
 F0.19

285.34
 284.86
 F0.48

COLUMBINE ST.

Rough
Curb

LT
Curb

±

Rt
Curb

Rough
Curb

Alley @ P.

290.63
289.91
C 0.72

289.41
Gut

+7.68

BC. Alley

289.63
289.69
C 0.06

T = 0.99'
EC NW Alley Ref. Ch. R = 2' 4" = 52° 28' 18"
7 + 35.12 POC. defl = 6° 46' 23"

289.69
289.63
C 0.06

7 + 29.51 POC. defl = 5° 30' 57" = End ch. on Rt.
Alley @ P.

289.47
288.63
F 0.84

289.16
Gut

+5'

EC. Alley

289.37
288.74
F 0.63

5' C = 15.88'

BC. SW Alley Ref. Ch. R = 2' 4" = 89° 12' 32"
7 + 13.62 POC. defl = 1° 57' 17"

289.25
288.74
F 0.51

8.72

COLUMBINE ST.

Rough Lt
Curb Curb

±

Rt Curb
Rough Curb ²⁶

Hub & Disk. 38' Lt.
(8+35.23 Fd & P.K.)

8+14.99 Existing Pavt. (Meet)

292.15
Meet

292.15
Meet

291.52

292.17
Meet

5.19

~~8+09.80~~

~~291.96~~

20'

C0⁰⁴

7+89.80

291.51
291.47

291.47

291.74

GRADE

20

7+69.80

290.91

290.48

F0.43

15.41

C1⁰²

1.70 x 25' ± Lt.
18.96 R.F. L&D. City Engr.

1.45

290.04

7+54.39 F.C. defn = 11°05'30"

290.43

290.43

H.L.

F0.39

290.42
Existing

289.13

19.27' C = 19.25'

PAVING GRADES OLIVE ST.
FAIRMOUNT TO COLUMBINE

Lt.
Rough
Curb

±

Rt.
Curb
Rough
Curb

0+95

291.33
290.93
F0.40

291.71
291.42
F0.29

C119

C071

0+75

3.62
292.43 292.43
292.30
F0.13

3.57
292.86 292.86
292.55
H.L.
F0.31

0+55

293.29
292.99
F0.30

293.76
293.39
F0.37

C122

C061

0+35

5.13
293.91 293.91
4'6" 293.66
F0.25

5.01
294.40 294.40
294.22
F0.18

0+15

294.61
294.30
C0.31

294.80
294.70
F0.10

C029

C040

0+00 = W.L. FAIRMOUNT AVE
0-07- CH131 + 30' Lt; P.K. 0-30 ± ±

4.77 295.00
294.50 294.50
C0.50

5.48
295.00 295.00
294.69
F0.31

B.M.

288.17
(F9.30)

OLIVE ST.

Rough Lt.
Curb Curb

±

RT
Curb Rough
Curb

Alley & Pl.

28797
288.61 288.32
C 1.36 Gut.

29059
288.50 288.83
Gut. C 1.76

+ 5'

BC. Alley

288.51
28788
F 0.63

288.73
28802
F 0.71

1+37 = E.C. NE & NW Alley Ret/s

288.26
28788
F 0.38

288.41 288.47
28802
F 0.45

2910 Rt. Nail in Fence; 33 64 Lt. Hubby
(1+27⁷⁶ = ft. Hub. & Alley) House
& Olive

Alley & Pl.

29091
289.75 289.25
C 1.16 Gut.

289.54 290.04
~~289.40~~ ~~289.90~~
Gut. C 3.39

+ 5'

E.C. Alley

289.65
289.61
F 0.04

289.94
289.69
F 0.25

C 1.16

C 2.78

cb, R = 2' A = 90°

1+18 = BC. SE & SW Alley Ret/s

90.92
289.76 289.76
289.61
F 0.15

92.89
290.06 290.06
289.69
F 0.37

OLIVE ST.

Rough Lt
Curb Curb

⊕

Rt (43)
Curb Rough
Curb Curb

(See Pg. 42)
cb. R = 20' $\Delta = 49004'$ L = 17.17'
1 + 78.91 = B.C. S.E. Ch. Ref. Columbine

C300
7.93
284.93 284.93 284.43
1' bk. GUT.

14.20'

TBM, PK. RRN² P-4325

290.68

C4³⁸

EC. Columbine St $\Delta = 67^{\circ}50'$

283.83 284.50 284.50
GUT 284.12 8 88
F0.38 284.50

10.95.

⊕ Type K - Inlet. 25' 26' 5"
POC. $\Delta = 50^{\circ}52'30''$

278.00 283.57 284.40
⊕ F.L. GUT. 284.22
Box F0.18

10.95

16' 57' 30"
POC. $\Delta = 33^{\circ}55'$

283.79 284.55
GUT GRADE

10.95

def $\Delta = 8^{\circ}28'45''$
POC. $\Delta = 16^{\circ}57'30''$

284.42 285.07
GUT 285.05
F0.02

C-3⁶ bk. Ch = 10.026'
10.95

C326

C363

cb. R = 37' L = 43.80' $\Delta = 67^{\circ}50'$
1 + 64.71 = B.C. N.E. Ch. Ref. Columbine

9 18
285.92 285.92 285.92
CHIST 285.53
F0.39

285.50 286.00 286.00
GUT 285.70
F0.30

27.71

PAVING GRADES ALLEY BLK
19, LEXINGTON PARK

Ref 54 of 11
3741-D

Rough Lt

±

Rt (50)

1+26 = End Drive on Lt. →

289.65

F0.1
F0.44

Rough
C1.3
← 1.05

1+20

289.55
EXISTING
DRIVE

9.68
290.12
89.55
289.82
289.53
F0.29

291.35
290.07
C1.28
1.42
290.37
0.56 ft

change Per Parsons
Inspector 10-10-57
10:00 AM

GRADE
F0.25

C1.1
← 0.82

1+00

1+04 BEGIN
DRIVE Lt → 289.42
EXISTING
DRIVE

9.32
289.57
289.34
289.27
C0.07

290.60
289.52
C1.08
0.64
289.82
0.56 ft

C0.1
F0.51

GRADE
F0.64

0+70

288.23
End Drive (EXISTING RT)

8.09
288.60
288.70
288.00
C0.70

288.60
288.25
C0.35
8.21
288.85

0+55 ON RT EXISTING DRIVE →

(287.75
EXISTING
RT)

F0.55

F0.43

0+40

7.09
287.64
287.35
F0.29
287.64
287.89
C0.06

287.95
287.89
C0.06
7.46
287.89

0+20

286.82
286.25
F0.57

287.05
286.80
F0.25

5.6
F0.04

C0.52

2" x 2" Hub
0+00 = N.L. Columbine St

5.61
285.65
285.65

285.80
285.80
6.32

15' Alley 0.25' EXC.

± ± V.P.L. - 65° 50'

± ± V.P.L. - 70° 10'

B.M.

288.17

NW. 7' x 95' Lgt. Fairmount & Columbine

ALLEY BLK 19

2+40.32 (P.K. Nail) = S.L. Olive St.

Rough Lt

C1 62

9.94

288.32

288.32

288.56

Rt

Rough (5)

C1 73

0.98

289.25

289.25

2+30

290.48

289.80

C0.68

291.12

290.20

C0.92

2+20

291.49

290.32

C1.17

290.87

290.57

C0.30

FO³⁶

CO³⁶

2+00

0.09

290.45

290.45

290.17

FO.28

291.59

290.70

C0.89

1.06

290.70

1+80

90.20

(EXISTING DRIVE)

290.18

290.59

FO.41

291.33

290.84

C0.49

291.25

(EXISTING DRIVE)

FO⁶⁵

CO⁹⁷

1+60

9.97

290.62

1 1/2" R

291.14

290.62

C0.52

291.01

290.87

C0.14

1.84

290.87

1+40

290.50

290.47

C0.03

291.36

290.72

C0.64

TBM.

290.68

P.K. Nail P.P. No. P-4325 SW Cor Alley Blk 19 of Olive St.

PAVING GRADES ALLEY BLK 21
LEXINGTON PARK, W.O. 32138

LT Ref 544 No 1 &
Rough 3733-D

RT (52)
Rough

0+75

27039
269.90
C 0.49

27038
270.15
C 0.23

26¹

C 0¹³

C 1¹¹

0+48²

9.27 269.33
269.14 269.14
C 0.19

27055 0.50
269.39 269.39
C 1.16

0+28²

26876
268.04
C 0.72

27062
268.36
C 2.26

0+08.9

26774
265.89
C 1.85

26980
266.41
C 3.39

C 1¹³

0+03.61 = W 1/4 E of Alley

63)
265.18 265.18

0-04.25 = E 1/4 E of Alley

(34)
851
265.10 265.10

0+00 = N.L. Laurel St. & Alley = "x2" Hub

B.M.

268.14

Set Chisel & Conc Walk (N.W. Cor) opp. House No 4320
Laurel St.

ALLEY BLK. 21

Rough

Lt

±

Rt

53

Rough

2+78²

27590
275.80
C0.10

27660
276.05
C0.55

2+58²

C0⁰⁵
5.29 275.35
275.24 275.24
C0.11

C0⁶⁴
27618 6.13
275.49 275.49
C0.69 chist

33²

2+41.89 POT. HUB.

2+25

27451
274.25
C0.26

27470
274.50
C0.20

C0⁴⁸

4.01 27404
273.53 273.53
chist C0.51

F0⁰⁵

3.73
273.78 273.78
273.74
F0.04

2+00

TBM. 1+98² PK. PPN^o PA 2511 Lt.

274.12 (Smith)

C0¹⁶
2.24 272.71
272.08 272.08
C0.63

F0⁰²

2.31
272.33 272.33
272.19
F0.14

1+50

C0⁰⁷

0.69 270.64
270.62 270.62
C0.02

C0⁰⁴

270.87 0.91
270.87 270.87
GRADE

1+00

7

270.64

ALLEY BLK. 21

Rough Lt

±

Rt (54)
Rough

4+00

278.47
278.35
FO.12

27972
278.72
C 1.00

CO¹⁰

CO⁷⁸

3+80

816
278.06
chist+
278.15
278.06
CO.09

27853
278.31
CO.22
9 09
278.31

3+60

277.54
277.65
FO.11

27923
277.90
C 1.33

21-

FO⁰⁸

CO⁰³

3+38²

7.14
277.22
277.22
277.20
FO.02

7.50
277.47
277.47
277.42
FO.05
H.L.

3+18²

276.88
276.79
CO.09

27752
277.04
CO.48

CO¹⁶

CO³⁰

2+98²

648
276.32
chist+
276.49
276.32
CO.17

276.80
276.57
CO.23
6.87
276.57
chist+

ALLEY BLK. 21

Rough 27

←

27

(55)
Rough

5+38²

281.27
280.72
C0.55

282.79
280.98
C1.81

C0²³

5+18²

0.86 281.30
280.63 280.63
C0.67

280.95 0.99
280.89 280.89
C0.06

C0¹⁰

4+28²

281.01
280.42
C0.59

280.83
280.67
C0.16

F0²⁸

4+78²

9.90 280.11
280.08 280.08
C0.03

280.60 0.62
280.33 280.33
C0.27

C0²⁹

28²

4+50

279.58
279.49
C0.09

280.16
279.74
C0.42

C0⁰²

4+25

9.00 278.98
278.98 278.98
2' BK GRADE

279.61 0.62
279.23 279.23
C0.38 2' BK

C0³⁹

TBM

P.K. P.B. N^o PA-2555
Sta 4+00+47

279.26

ALLEY BLK 21

Rough \angle

\angle

\angle

(56)

Rough

B.M.

280.17 NWBP Sumac & Fairmount

6+23⁸⁹ = \angle Sumac. 4-Chis (Smith) Crosses on M.H. Riv

25'

C1⁴⁰

C2⁰⁴

5+98⁸⁹ = S.L. Sumac. Drive

1.80
280.40 280.40

280.50 280.50
2.54

20'

5+78²

281.68
280.51
C1.17

283.10
280.79
C2.31

20'

C1⁵⁸

C1³⁰

5+58²

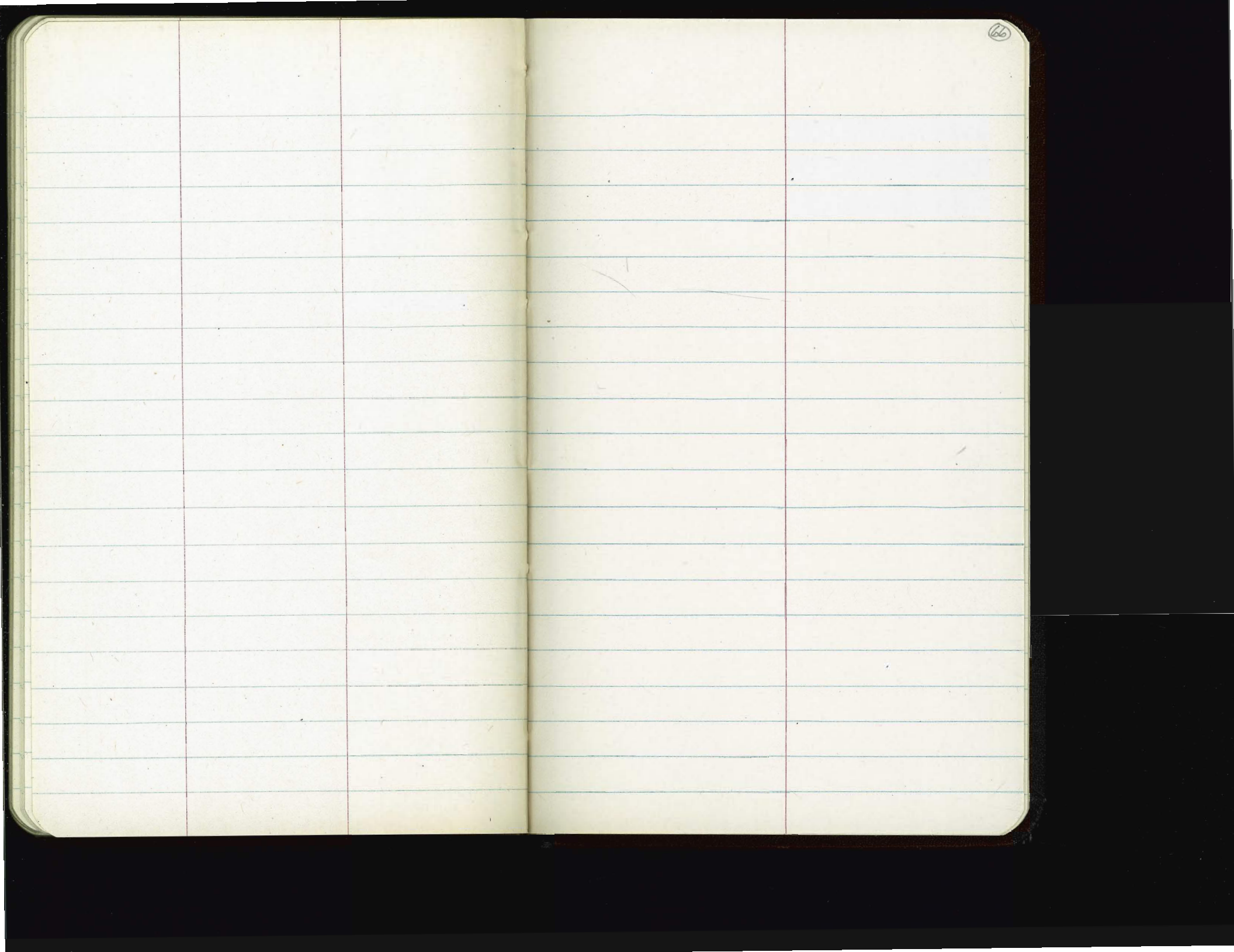
225 282.28
280.67 280.67
227 bk C1.61

282.07 225
280.95 280.95
C1.12

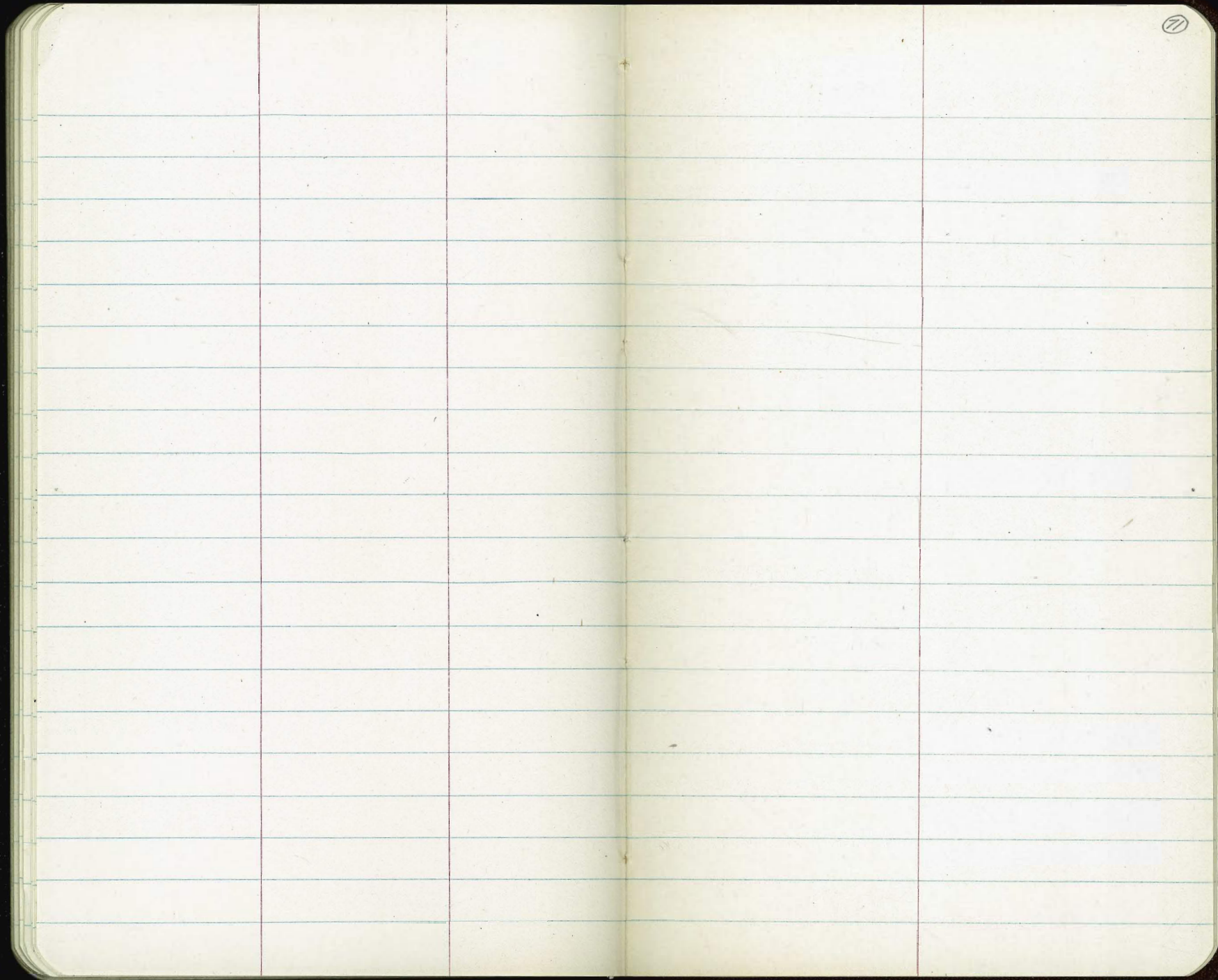
20'

The image shows an open notebook with two facing pages. Both pages are cream-colored and feature light blue horizontal ruling. The notebook is bound in the center, and the pages have rounded corners. A small, handwritten number '61' is visible in the top right corner of the right page. The notebook is set against a dark, solid background.

The image shows an open notebook with two blank pages. The pages are cream-colored and feature light blue horizontal ruling. The left page has a vertical red margin line on the left side and a vertical blue margin line on the right side. The right page has a vertical blue margin line on the left side. The notebook is bound in the center, and the pages are slightly aged. The number '64' is written in the top right corner of the right page.



The image shows an open notebook with two facing pages. Both pages are cream-colored and feature light blue horizontal ruling. A vertical red margin line is drawn on each page, creating a narrow margin on the left side of the left page and the right side of the right page. The pages are otherwise blank, with no handwriting or printed text. The notebook's dark cover is visible at the very edges, and the pages have rounded corners. In the top right corner of the right page, the number '68' is handwritten in a small circle.

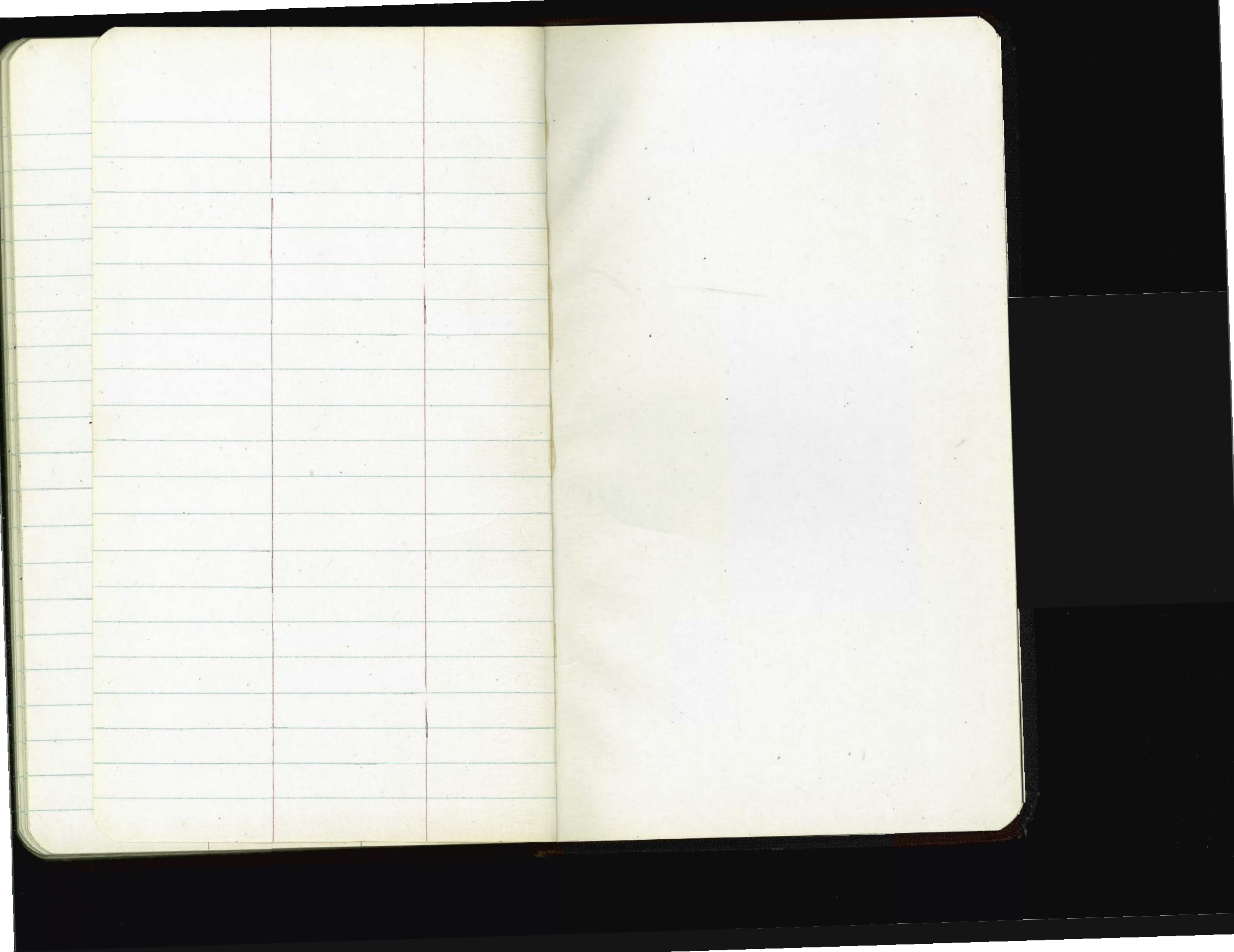


⑦

The image shows an open notebook with two facing pages. Both pages are cream-colored and feature light blue horizontal ruling. The notebook is bound in the center, and the dark cover is visible at the edges. The pages are otherwise blank, with no text or markings.

The image shows an open notebook with two facing pages. Both pages are cream-colored and feature light blue horizontal ruling. The notebook is bound in the center, and the dark cover is visible at the edges. The pages are otherwise blank, with no text or markings.

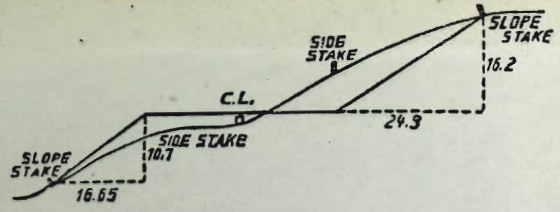
The image shows an open notebook with two facing pages. The pages are cream-colored and feature light blue horizontal ruling. The left page is divided into three vertical columns by a red margin line on the left and a blue margin line on the right. The right page is divided into two vertical columns by a blue margin line on the left. The notebook is bound in the center, and the pages are otherwise blank.



40
2
19

6125-B
Sumac & Fairmount

5 + 780?
4 7392
4409



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE 1 1/2 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

THE NATIONAL BLANK BOOK COMPANY
 HOLYOKE MASSACHUSETTS
 NEW YORK CHICAGO BOSTON SAN FRANCISCO