Estimate Book.

Fire Engine Houses.

San Diego, Cal.

400

LEVEL

209

F.B. 209

City Engineer's Office.

209

Table showing the difference of latitude and departure in running 80 chains at any course from 1 to 60 minutes.

Minutes	Lks.	Minutes	Lks.	Minutes	Lks.
1	2⅓	21	49	41	95⅔
2	4⅔	22	51⅓	42	98
3	7	23	53⅔	43	100⅓
4	9⅓	24	56	44	102⅔
5	11⅔	25	58⅓	45	105
6	14	26	60⅔	46	107⅓
7	16⅓	27	63	47	109⅔
8	18⅔	28	65⅓	48	112
9	21	29	67⅔	49	114⅓
10	23⅓	30	70	50	116⅔
11	25⅔	31	72⅓	51	119
12	28	32	74⅔	52	121⅓
13	30⅓	33	77	53	123⅔
14	32⅔	34	79⅓	54	126
15	35	35	81⅔	55	128⅓
16	37⅓	36	84	56	130⅓
17	39⅔	37	86⅓	57	133
18	42	38	88⅔	58	135⅓
19	44⅓	39	91	59	137⅔
20	46⅔	40	93⅓	60	140

Return to City Engineers Office
City Hall, San Diego, Cal.

TABLE FOR RUNNING ON SLOPES.

In the following table the first column shows the angle, the second the number of links to be added to a chain on the slopes, to make one chain, horizontal measurement.

MICROFILMED
DEC 8 1964

Angle	Cor. in Links	Angle	Cor. in Links	Angle	Cor. in Links	Angle	Cor. in Links
°		°		°		°	
4	0.24	11	1.88	18	5.14	25	10.54
5	0.38	12	2.24	19	5.76	26	11.26
6	0.55	13	2.63	20	6.42	27	12.24
7	0.76	14	3.06	21	7.11	28	13.37
8	0.98	15	3.53	22	7.85	29	14.34
9	1.24	16	4.02	23	8.64	30	15.47
10	1.55	17	4.56	24	9.47	35	22.07

1/2 Mon
1 Tues
1 Wed
1 Thurs.

209

Return to City Engineers Office
City Hall, San Diego, Cal.

Sept. 2 - 1904 - d'Heure and Fulton

1

Engine House, 2nd and E.

Foundation 50 × 90

Wall 21" wide

N.E. or Wall 1' deep

S.E. " " 19" "

N.W. " " 1' "

S.W. " " 1' "

Concrete Foundation finished 9/1-04.

34 Cu. Yds. = $221.00
Less 25% 55.25
$165.75

Engine House, 8th & J. #3 Sept. 2-04

Foundations	$45.00	45.00
132 Studdings	2 × 6 = 12'	56.98
132 "	2 × 4 - 12'	
46 Joists	2 × 14 - 30'	
46 "	2 × 16 - 30'	150.40
37 "	2 × 4 - 30'	
4 Ocs.	2 × 4 - 60'	
4 "	2 × 4 - 30'	5.16
		257.54

Sept. 2-04 d'Hemecourt Fortina

3 Plates 2×6-60'		257.54
2 " 2×6-30'		6.75
30×60 J.N.G. flooring Roof	#3	55.00
30×60 " " "	#1	66.00
22' high Rustic 180		196.20
140 - 2×3-9' Studding		
4 - 2×3-60' "		
2 - 2×3-30' "		16.78
500' Bridging 1×3		20.00
Hauling		30.00
Labor $200.00		200.00
Foundation		45.00
		893.27

Note: Rough Lumber!! Studding $21.50
Rustic $45.00
#3 flooring $25.00
#1 " $30.00
Nails $10.00

4 | 893.27
223.32
less 25% $669.95

12 Window Frames 3×5-1 $25.00

Sept. 2-04- d'Hemecourt Fortina

Engine House #5. 10th & University

Foundation $45.00
Less 25% 11.25
$33.75

Sept. 2-04-

Engine House No. 1 10th & B.

Foundation is same as Engine House at 2d. & E.

34 yds.	$221.00
Less 25%	55.25
	$165.75

Oct. 1. 1904.

Engine House 2 2nd & E.

45 yds. Concrete @ $8.00	360.00
85000 Brick @ $17.00 M	1445.00
Iron work	$500.00
Frames	340.00
18000 BM. Lumber @ $26.00	468.00
Plumbing	125.00
	$3238.00
Less 25%	809.50
	2428.50
Less prev. payment	165.75
amount due.	$2262.75

Oct. 1. 1904

3

Engine House # 1 10th & B.

45 yds Concrete @ 8.00	360.00
85000 Brick @ 17.00	1445.00
Iron work	500.00
Frames	340.00
5000 BM. Lumber @ 26.00	130.00
Plumbing	125.00
	2900.00
Less 25%	725.00
	2175.00
Less prev. payment	165.75
Amount due	$2009.25

Oct. 1. 1904

Engine House #3 8th & J.

Plumbing	175.00
30000 B.M. Rough timber @ $24.00	720.00
4000 B.M. Finishing timber @ 35.00	140.00
4000 B.M. Rustic @ 45.00	180.00
2100 B.M. flooring @ 45.00	94.50
Front work	50.00
Plastering	25.00
Roof	81.00
Foundations	55.00
Asphalt work	120.00
Frames	50.00
Sash	50.00
Painting "outside"	30.00
	1770.50
Less 25%	442.62
	1327.88
Less prev. payments	669.95
amount due	$ 657.93

Oct. 1. 1904

4

Engine House No. 5 10th & Univ.

Plumbing	100.00
25000 B.M. Rough timber @ 24.00	600.00
4000 B.M. Rustic @ 45.00	180.00
2100 B.M. flooring @ 45.00	94.50
Front work	50.00
Roof	81.00
Foundations	55.00
Frames	50.00
Sash	50.00
Painting "outside"	30.00
	$ 1290.50
Less 25%	309.72
	$ 980.78
Less prev. payment	33.75
	$ 947.03

Eng. House No. 3 - 8th + J.

All done but some screens on rear door, 1st. flor.

Service Box, Cor. 8th + J. leaks.

Sty drant near of building leaks.

Nov. 1st, 1904.

Contract. Aug. 16th, 1904 on Lot "L" Bl. 124 of Hortons add. - S.W. cor. 8th + J 2495.00

J. Kindleberger.

	$2495.00
Less 25%	623.75
	$1871.25
Less previous pay'ts,	1327.88
669.95	$543.37
657.93	
1327.88	

Nov. 1-1904

Eng. House No. 2. 2d. + E.

Brick Work done	3400
Iron " "	475
Studding at stairway 300' B.M.	10
All outside frames, in.	350
All joists + Rafters laid.	
2d. flor laid.	1084
Roof laid.	240
2d. flor studding 2000' BM.	60.
Plumbing	250.
Tin Work	45.
	~~5867~~
	5914.00 ✓
Less 25%	1478.50 ✓
	4435.50 ✓
Less previous pay'ts,	2428.50
	2007.00 ✓

Sept. 165.75
Oct. 2262.75
2428.50

Nov. 1st: 1904

Engine House No. 1 - 10th + B.

Brick Work done.	3400.
Iron " "	475
2d. story Joists in	-
Ceiling Joists in	880
3000' B.M. in studding.	90.00
Plumbing.	200.00
Frames	350.00
	5395.00 ✓
Less 25%	1348.75 ✓
	4046.25 ✓
Previous pay'ts,	2175.00
	1871.25 ✓

2175
1871.25
4046.25

165.75
Od. 2009.25
2175.00

Nov. 1st, 1904 Eng. H. No. 5 6

There remains to be done; - Univ. + 9th,

Labor	100.
Lumber	77.
Painting	150
	$325 -

Contract Aug. 17th 1904.
on lots 9 + 10 Block "C" Estudillo + Capron's add.t U.W. cor. University Ave. and 10th st. $2225.00

J. Kindleberger.

	$2225.00
Less -	325.00
	1900.00
Less 25%	475.00
	1525.00
Less previous payments.	980.78
	544.22

33.75 ✓
947.03 ✓
980.78

Dec. 1st. 1904.

Eng. House No. 1 – 10th + B.

Brick Work	3400.00
Iron Work	475.00
Carpenter Wk.	2700.00
Roof	225.00
Tin	50.00
Lathing + Plast.	300.00
Plumbing	600.00
Wiring	200.00
Glass	225.00
	$8175.00
Less 25%	2043.75
	$6131.25
Less Previous pts.	4046.25
Present pay't.	$2085.00

Dec. 1st. 1904.

Engine House No. 2 – 25 + E.

Brick Work	3400.00
Iron Wk.	475.00
Carpenter Wk.	2200.00
Roof	225.00
Tin	50.00
Glass	225.00
Plastering	130.00
Plumbing	500.00
Wiring	100.00
	7305.00
Less 25%	1826.25
	$5478.75
Less previous pay'ts.	4435.50
	$1043.25

2428.50
2007.00
4435.50

Dec. 5. 04 L. W. Partridge -

By S. S. "Nebraskan"

Copy of order	size	Class	~~Coa~~
3225 pcs	4"	C	Coated
817 "	6"	A	"
30 "	8"	A	"
340 "	8"	B	"
74 "	8"	C	"
118 "	10	B	"
216 "	12	B	"
66 " Special castings			"
52 "	20"	Pipes	"
1 "	12"	Special Casting	"
8 "	8"	"	"
26 "	6"	"	"
4973 "			

weight 1805647
901 1/2
1895759

8" 30
340
74
444 Total

Specials
66
1
8
26
101 Total

Decr. 5-/04 1. C. W. Partridge

Car A.T.&S.F. # 90879

Size	Tally	Total
4' A	卌 卌 卌 卌 卌 卌 卌 卌 ||||	44
8"	卌 卌 卌 卌 ||	22
6	卌 卌 卌 卌 卌 卌 ||||	34
10	卌 卌 卌	15
12"	|	1
		116

116 Anthony

Dec: 5/04 2/ C. W. Partridge
+ Dec 6

Car A.T.&S.F. # 97147

Size	Tally	Total
4"	卌 卌 卌 卌 卌 卌 卌 卌 |	41
6"	卌 卌 |||	13
8"	|	1
10"	卌 卌 卌 卌 卌 |||	28
12"	卌	5

110 Anthony

Special Castings - short pieces

Size	Tally	Total
4.	|	
6.	卌 卌 卌 |	22
8	卌	
		110

Dec: 6/04 3 Partridge -

Car: So. Calif # 651

4"	126
6"	8
8"	13
10"	1
12"	7

164 Anthony

Special - Castings

4"	III	
6"	IIII	9
8"	I	
		164

June 8. 18 - 9.45. 1½ hrs

Dec: 6-04 Partridge 4

Car: A.T.&S.Fe # 94024

4"	206
6"	56
8"	24
10"	10
	296

296 Anthony

June 10.5 2¾ hrs

Dec 6/04 – Partridge – 5

Car. AT+SF. #94168

4"	50	
		71
6"		23
8"		46
10"		12
12"		16
20"		6
Special Castings.		
4"	1	
6"		17
8		
		191

191 Authority

Dec. 6-04 Partridge 6

11

Car. AT+SF. #97489

4"	50	
	50	112
6"	50	65
8"		15
10"		11
12"		203

203 Authority

Dec. 7 - 04 7. Partridge

Car. A7 + S7 # 94003

4"	46
6"	
	76
8"	7
10"	32
12"	15
	176

176
anthony

7.5 9.15 2½ hrs

Dec. 7. 8. Partridge

Car A7 + S7 # 97360

4"	39
6"	56
8"	10
10"	8
12"	3
	116

127
anthony

Special Castings

4
6
10
12

11
127

Dec: 7- 9 Partridge.

Car. A.T + S.F. 90681

4"	$3^2 5^2 7^2 9^2 11^2 13^4 17^3 20^1 21^2 23^1 24^4 28^1 29^2 31^2 33^1 34^2 36^2 38^1 39$	39
6"	$3^3 6^2 8^1 9^2 11^1 12^1 13^1 14$	14
8"	$2^2 4^2 6^1 7^2 9^2 11^1 12^1 13^2 15^2 17^2 19^2 21^1 22$	22
10"		—
12"	$1^1 2^1 3^1 4^1 5^1 6^1 7^1 8^1 9^1 10^1 11^1 12^1 13^1 14$	14
20.	III	3
		92

92 Anthony

Dec. 7- Partridge 10.

Car. G.C. + S.F. #7515-

4"	$1^2 3^2 5^1 6^2 8^2 10^2 12^2 14^2 16^3 19^2 21^1 22^2 24^2 26^3 29^2 31^3$ $34^4 38^1 39^2 41^1 42^2 44^2 46^1 47^1 48^1 49^2 51^1 52^2 54^2 56^1$ 57	57
6"	$2^1 3^2 5^1 6^2 8^1 9^2 11^2 13^2 15^2 17^2 19^2 21$	21
8"	$1^2 3^2 5^2 7^2 9^2 11^2 13^2 15^2 17^1 18^2 20^2 22^1 23^1 24^1 25^1$ $26^2 28^2 30^2 32$	32
10"		
12"	~~IIII~~ III	8
20"	IIII	4
		122

122 Anthony

Dec. 7 & 8th Partridge. 11
Finished

Car A.T.H.S.F. # 97447

4"	2.4.7.9.10.12.14.16.18.20.22.23.27.28.32.34.36.40.44.46.50.52.56.58.63.64.66.68.70.71.72.74.75.76.78.	78
6"	3.5.6.7.	7
8"	2.4.6.8.10.12.14.15.16.18.20.22.24.26.28.30.32.34.36.38.40.41.42.44.45.46.47.	47
10"	1.	1
12"	~~IIII~~ IIII	10
Special Castings	~~IIII~~ ~~IIII~~ III	13
		156

156 anthony

Dec. 7. Partridge 12

14

Car. A.T.H.S.F. # 90879 (2)

4"	2.4.6.10.14.18.19.22.24.25.27.28.30.31.32.33.34.36.37.41.43.45.46.48.50.52.54.55.56.57	57
6" 9	2.5.7.9.11.13.14.17.20.23.26.29.31.	31
8"	2.4.5.6.8.9.11.13.14.15.16.18.20.21.23.24	24
10"		
12"	~~IIII~~ IIII	10
20"	IIII	4

127 anthony

(1 Broken 8" pipe broken on Car.)

Special 1.	1
	127

Dec: 7 + 8 **13.** Partridge

Car A.J + S.F. # 97147 ②

4" 3.4.5.9.10.11.12.17.18.23.25.30.31.32.37.39.40.42.44.46.47.49.51.52.54.55.56.58.59.61.62.64.65.67.69.71.72.74.76.78.80.82.84 — 84

6" —

8" 3.4.5.7.9.11.12.13.15.16.18.20.22.23.25.27.29.30.32.33.34.36.37.39.40.42.43.45.46.48.49.51.53.55.57.59.61. — 61

12" 𝍸 𝍸 — 10

155

135 Anthony

1 pce 4" pipe - in bay from Car.

Dec: 8 **14.** Partridge -

Car A.J + S.F. # 97088

4" 1.2.3.4.5.6.7.8.9.10.11.12.14.15.16.19.20.21.22.23.24.25.26.27.28.29.30.31.32.33.34. — 34

8" 1.2.3.4.5.6.7.8.9.10.11.12.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.29.30.31. — 31

12" 1.2.3.4.5.6.7.8.9.10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.29.30. — 30

20" 𝍸 — 5

100

100 Anthony

Dec: 8. 15 Partridge -

Car - A F & S F # 97249 -

4" 1'2'3'4'5'6'7'8'9'10'11'12'13'14'15'16'17'18'19'
20'21'22'23'24'28³31'32'33'34'35'36'37'41'
42'43 43

8" 1'2'3'4'5'6'7'8'9'10'11'12'13'14'15'16'17'18'19'20'
21'22'23'24'26'27'28'29'30'31'32'33'34 34

12 ~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~ IIII 34

20 IIII 4

Special Cast S^s ~~IIII~~ IIII 8

123

123 Anthony

1 - 8" broken on Car. No 25.

7.0 10.10

11-10 to 12 1.15

Dec: 8. 16 Partridge

16

Car. A J & S F. # 94118.

4" 1'2'3'4'5'6'7'8'9'10'11'12'13'14'15'16'17'18'19'20'
24'25'29'33'37'38'42³45'49'53'57'61'65'69'
70'71'72'73'74'75'76'77'81'85'89'90'94'98'
99'103'104'108'112'113'117'121'126'130 130

8" 1'2'3'4'5'6'7'8'9'10'11'12'13'14'15'16'17'18'19'20'
21'22'23'24'25'26'27'28'29'30'31'32'33'34 34

12" ~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~ IIII 34

20" ~~IIII~~ ~~IIII~~ 10

208

208 Anthony

Dec. 8 + 9 17 Partridge

Car. AT + SF # 94102.

4. $4^{4}.8^{4}.12^{5}.17^{4}.21^{4}.25^{4}.29^{5}.34^{4}.38^{5}.43^{4}.47^{5}.52^{4}$-
$56^{4}.60^{5}.65^{5}.70^{4}.74^{4}.78^{4}.82^{4}.86^{5}.91^{4}.95^{4}$-
(5) $99^{5}.104^{5}.109^{4}.113^{5}.118^{5}.123^{5}.128^{5}.133^{5}.138^{1}.139^{5}.144^{5}.149^{5}$-
$154^{5}.159^{5}.164^{5}.169^{5}.174^{5}.179^{1}.180^{4}.184^{1}.185^{1}.186^{6}.192^{5}$-
$197^{5}.202^{1}.203^{1}.204^{1}.205^{5}.210^{5}.215^{5}.220^{5}.225^{6}.231^{5}.236^{6}.242^{6}.248^{5}$- 269
$253^{5}.258^{5}.263^{6}.269$.—

8" ~~IIII~~.II 7

12" ~~IIII~~.II 7

20" ~~IIII~~.III 8

291 Anthony

291

Dec: 9- 18 Partridge

17

Car- A.T. + S.F. 97360

4" $1^{1}.2^{1}.3^{1}.4^{6}.10^{7}.17^{5}.22^{5}.27^{6}.33^{6}.39^{4}.43^{5}.48^{6}.54^{6}.60^{6}.66^{5}.71^{6}.77^{5}$-
$82^{1}.83^{1}.84^{1}.85^{1}.86^{5}.91^{5}.96^{6}.102^{5}.107^{6}.113^{5}.118^{6}.124^{6}.130^{7}.137^{6}.143^{6}$-
$149^{5}.154$.— 154

8" ~~IIII~~.III 8

12" ~~IIII~~.III 8

20" IIII. 4

Special Castings. ~~IIII~~II 7

181 Anthony

181

Dec. 9 - 19 Partridge

Car. G.C. & S.F. # 7361.

4" 6^{6}. 12^{6}. 18^{6}. 24^{6}. 30^{7}. 37^{5}. 42^{5}. 47^{6}. 53^{6}. 59^{6}. 65^{6}. 71^{6}. 77^{4}. 81^{6} -
87^{5}. 92^{6}. 98^{1}. 99^{1}. 100^{1}. 101^{1}. 102^{6}. 108^{6}. 114^{5}. 119^{6}. 125^{5}. 130^{5} -
135^{5}. 140^{6}. 146^{5}. 151^{5}. 156^{5}. 161^{5}. 166^{6}. 172^{5}. 177^{5} -
182 182

8" IIII 4

12" IIII 4

20" IIII 4

194 Anthony

194

10^{25}

Dec. 9 - 20 Partridge

Car. A.T. & S.F. # 94156 -

4" 6^{5}. 11^{5}. 16^{5}. 21^{5}. 26^{4}. 30^{5}. 35^{5}. 40^{6}. 46^{6}. 52^{5}. 57^{6}. 63^{6}. 69^{6} -
75^{5}. 80^{5}. 85^{6}. 91^{6}. 97^{6}. 103^{5}. 108^{6}. 114^{6}. 120^{6}. 126^{6} -
132^{6}. 138^{4}. 142^{6}. 148^{6}. 154^{6}. 160^{6}. 166^{6}. 172^{6}. 178^{6} -
184^{6}. 190^{6}. 196^{6}. 202^{6}. 208^{6}. 214^{5}. 219^{6}. 225^{6}. 231^{6}. 237^{6} -
243^{6}. 249^{6}. 255^{6}. 261^{6}. 267^{6}. 273^{6}. 279^{5}. 284^{6}. 290^{6} -
296^{6}. 302^{6}. 308^{6}. 314^{6}. 320^{7}. 327^{6}. 333^{6}. 339^{6}. 345^{6} -
351^{6}. 357^{6}. 363^{6}. 369^{6}. 375^{6}. 381^{6}. 387^{6}. 393^{6}. 393

393 Anthony

1 piece 4" broken 1/2 in tray

Dec: 9 — 21 — Partridge

Car AJ+SJ # 97323

4" $6^6 \cdot 12^6 \cdot 18^6 \cdot 24^6 \cdot 30^5 \cdot 35^6 \cdot 41^6 \cdot 47^6 \cdot 53^6 \cdot 59^6 \cdot 65^6 \cdot 71^6$ –

$77^6 \cdot 83^6 \cdot 89^6 \cdot 95^6 \cdot 101^6 \cdot 107^6 \cdot 113^6 \cdot 119^6 \cdot 125^5 \cdot 130^6 \cdot 136^6$ –

$142^5 \cdot 147^5 \cdot 152^6 \cdot 158^6 \cdot 164^6 \cdot 170^6 \cdot 176^6 \cdot 182^6 \cdot 188^6 \cdot 194^6$ –

$200^6 \cdot 206^6 \cdot 212^6 \cdot 218^6 \cdot 224$ 224

224
107
117

224 authority

Dec: 9 — 22 — Partridge

19

Car AJ+SJ # 90692

4" $6^6 \cdot 12^2 \cdot 14^5 \cdot 19^7 \cdot 26^6 \cdot 32^5 \cdot 37^6 \cdot 43^6 \cdot 49^6 \cdot 55^2 \cdot 57^6$ –

$63^6 \cdot 69^1 \cdot 70^1 \cdot 71^6 \cdot 77^5 \cdot 82^6 \cdot 88^2 \cdot 90^5 \cdot 95^6 \cdot 101^6 \cdot 107^6$ –

$113^6 \cdot 119^6 \cdot 125^6 \cdot 131^6 \cdot 137^6 \cdot 143^6 \cdot 149^6 \cdot 155^6 \cdot 161^6$ –

$167^6 \cdot 173^6 \cdot 179^6 \cdot 185^5 \cdot 190^6 \cdot 196^6 \cdot 202$ 202

6" $3^3 \cdot 6^3 \cdot 9^3 \cdot 12^3 \cdot 15^3 \cdot 18^1 \cdot 19$ 19

221

221 authority

Dec 9 & 10 23 Partridge

AF + SF #90880

4" 5.4 9.6 15.6 21.6 27.6 33.5 38.4 42.6
48.5 53.6 59.6 65.5 70.4 74.6 80.6
86.6 92.4 96.6 102.4 106.6 112.6 118.6 124.4
128.6 134.6 140.6 146.6 152.5 157.6 163.6 169.6 175.5
180.6 186.5 191.6 197.4 201.5 206.6 212.6 218.6 224.6 230.6
236.6 242. 242

Special Castings - IIII IIII 9

251

1 - 4" pipe broken on Car (chipped)

251 Anthony

Dec: 10 - 24 Partridge - 20

Car. So. Calif #651

4" 6.6 12.6 18.6 24.6 30.6 36.5 41.6 47.6 53.6 59.5 64.5 69.6
75.5 80.6 86.1 87.1 88.1 89.2 91.2 93.2 95.2 97.1 98.2 100.2 102.3
105.2 107.2 109.5 114.2 116.2 118.2 120.2 122.1 123.4 127.1 128.2 130.2
132 132

6 4.4 8.3 11.2 13.3 16.3 19.3 22.4 26.3 29.3 32.4 36.3 39.4 43.3
46.4 50.2 52.4 56.2 58.4 62.3 65.3 68.4 72.3 75.3 78.4 82 82

214

214 Anthony

Dec: 10. 25 Partridge

Car AF + SF # 94024

4" $1^{2}.3^{1}.4^{1}.5^{2}.7^{3}.10^{2}.12^{3}.15^{2}.17^{2}.19^{1}.20^{6}.26^{2}.28^{1}.29^{5}$ –
$34^{6}.40^{1}.41^{5}.46^{2}.48^{6}.54^{5}.59^{2}$ $61^{2}.63^{6}.69^{3}.72^{1}.73^{4}$ –
$77^{4}.81^{1}.82^{2}.84^{1}.85^{4}.89^{2}.91^{1}.92^{1}.93^{6}.99^{1}.100^{1}.101^{2}$ –
$103^{2}.105^{1}.106^{3}.109^{1}.110^{1}$ $111^{3}.114^{3}.117^{1}.118^{1}.119^{1}$ –
$120^{1}.121^{2}.123^{2}.125^{2}.127^{2}.129^{2}.131^{1}.132^{3}.135^{1}.136^{2}$ –
$138^{1}.139$. 139

6" $3^{4}.7^{3}.10^{3}.13^{3}.16^{3}.19^{3}.22^{4}.26^{2}.28^{4}.32^{3}.35^{4}.39^{3}.42^{4}$ –
$46^{3}.49^{4}$ $53^{3}.56^{2}.58^{3}.61^{3}.64^{4}.68^{3}.71^{3}.74^{3}.77^{3}$ –
$80^{3}.83^{3}.86^{2}.88^{2}.90^{3}.93^{3}.96^{3}.99^{3}$ $102^{4}.106^{3}.109^{3}$ –
$112^{3}.115^{3}.118^{3}.121^{3}.124^{3}.127^{3}.130^{4}.134^{3}.137^{3}.140^{3}$ –
$143^{3}.146^{3}.149^{2}.151^{3}.154^{3}.157$. 157

296

296 anthony

Dec: 10 – 26. Partridge

21

Car: AJHF # 97489.

4" $1^{2}.3^{1}.4^{2}.6^{1}.7^{1}.8^{1}.9^{2}.11^{2}.13^{2}.15^{2}.17^{2}.19^{1}.20^{2}.22^{1}$ –
$23^{2}.25^{2}.27^{1}.28^{1}$ $29^{1}.30^{2}.32^{2}.34^{2}.36^{2}.38^{2}.40^{2}$ –
$42^{2}.44^{2}.46^{3}.49^{3}.52^{3}.55^{2}.57^{2}.59$ – 59

81
59
22

6" $3^{3}.6^{3}.9^{3}.12^{3}.15^{4}.19^{3}.22^{3}.25^{3}.28^{4}.32^{3}.35^{4}.39^{3}$ –
$42^{3}.45^{3}.48^{4}.52^{3}.55^{3}.58^{1}$ $61^{3}.64^{3}.67^{3}.70^{4}$ –
$74^{3}.77^{3}.80^{3}.83^{3}.86^{3}.89^{4}.93^{3}.96^{3}.99^{4}.103^{2}$ –
$105^{3}.108^{3}.111$. – 111

155
111
44

170

170 anthony

Dec. 10 - 27 Partridge

Car A.T.&S.F. #94003 -

4" 1.1 2.2 4.2 6.2 8.3 11.2 13.1 14.1 15.1 16.2 18.2 20.1 -
21.1 22.1 23. 23

6" 3.3 6.3 9.3 12.3 15.3 18.4 22.3 25.3 28.3 31.3 34.3 37.3 -
40.2 42.4 46.3 49. 49

Special Castings - 1111 - 4

76.

76 authority

22

4"	Billed	3225	Checked.	3226 - 1 - over
6"	"	817	"	822 - 2 - 8" in this count + 3 over -
8"	"	844	"	442 - 2 short see above
10"	"	118	"	118 -
12"	"	216	"	216 -
20"	"	52	"	52 -
Specials		101	"	101 -
		4973		4977

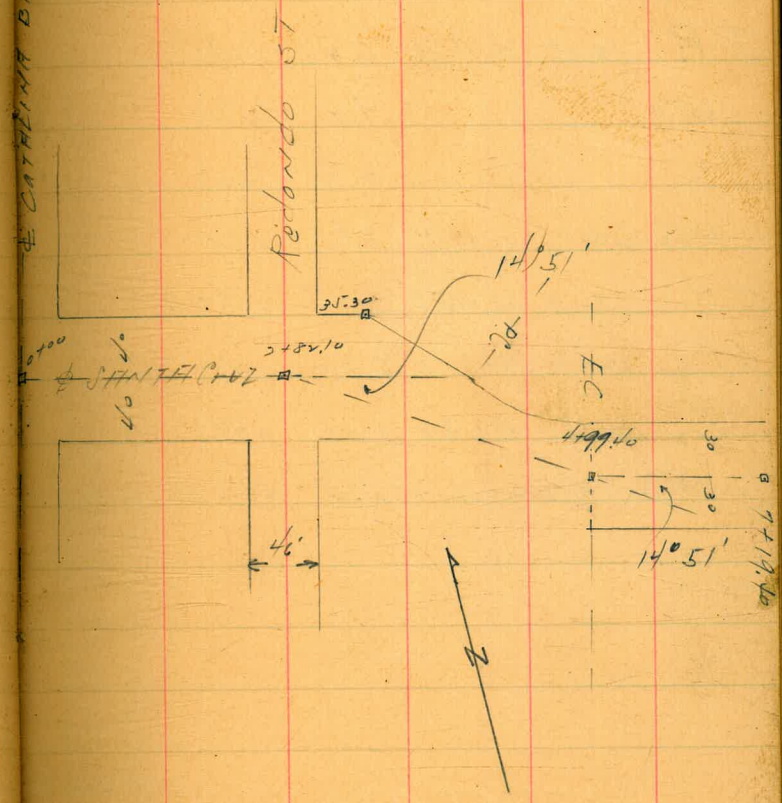
4 over

Chas. Partridge

Sewer Levels

℄ Santa Cruz from ℄ Catalina to ℄ Redondo
Thence East by angle

NW IBP	12.10	176.01		163.91	Santa Cruz Catalina
℄ Catalina = 0+00			12.5	163.5	
0+20			13.2	162.8	
0+50			11.3	164.7	
1 –			7.5	168.5	
+50			3.7	172.3	
T.P.	12.01	187.55	0.7	175.84	
2			1.6	176.2	
+50			7.9	179.9	
2 +82.10	Δ 14°51' Rt = ℄ Redondo		6.10	181.7	
+92			5.0	182.8	
3 +10			2.6	185.2	
+22			2.2	185.6	
T.P.	11.09	198.80	0.14	187.71	
+50			10.5	188.3	
4			7.5	191.3	
+50			2.5	196.3	
T.P.	11.53	210.07	0.26	198.54	



		210.07	V		
4+99.4	Δ 14°51	LT	9.2	200.9	
5+50			5.0	205.1	
6			1.2	208.9	
T.P.	10.15	219.86	0.36	209.71	
+50			7.2	212.7	
7			3.4	216.5	
+19.4	D.E.		1.9	218.0	
T.P.	13.08	232.37	0.57	219.29	
T.P.	12.06	244.43	0.00	232.37	
TP	12.49	256.90	0.00	244.43	
WBP	Santa Barbara to Santa Cruz		1.56	255.34	2.550

Sewer Levels

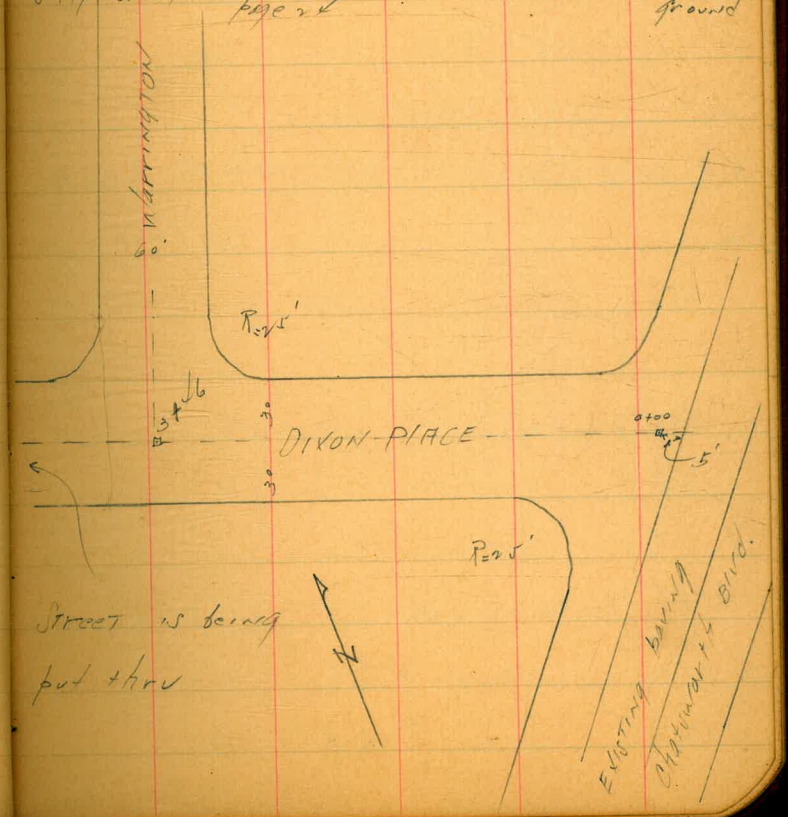
℄ Dixon Place from 5' w of Wedge Paving to ℄ Warrington and West

NEBP	1239	182.57		170.18	Chatsworth Wildwood
T.P.	1306	195.54	0.09	182.48	
5' w of wedge paving = 00			3.4	192.1	
0+50			2.2	193.3	
1+00			0.0	195.5	
T.P.	1278	208.30	0.02	195.52	
+50			10.0	198.3	
2			6.9	201.4	
+50			3.2	205.1	
T.P.	1283	221.12	0.01	208.29	
3			12.6	208.5	
+46 = ℄ Warrington			10.4	210.7	
4			7.4	213.7	
+50			3.0	218.1	
T.P.	701	228.13	0.00	221.12	
5			7.1	221.0	
+50			4.4	223.7	

12/1/26 Moore

228.13

6	2.2	225.9	
+50	1.1	227.0	
7	1.8	226.3	
+50	5.0	223.1	
8	8.7	219.4	
8+19 = STA 7+19.4 page 24	10.16	218.0	218.00 ground



Street is being put thru

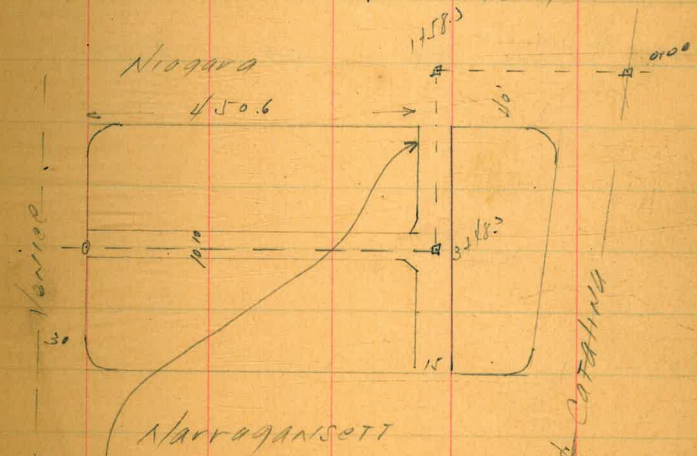
Sewer Levels
Catalina Terrace

NWBP	0.3	164.25		163.91	Santa Cruz Catalina
T.P.	1.49	159.02	6.72	157.53	
T.P.	10.1	159.63	9.53	149.49	
℄ Niagara & ℄ Catalina = 0+00			13.5	146.1	
0+25			12.6	147.0	
0+50			9.3	150.3	
1			3.0	156.6	
TP	13.12	172.75	0.00	159.63	
1+58.3 = ℄ 15' alley			8.23	164.5	
2			8.1	164.6	
+50			8.5	164.2	
3			7.8	164.9	
+48.3 = ℄ 20' E & W alley			7.09	165.6	
+80			2.3	170.4	
4			1.0	171.7	
TP	12.76	185.41	0.10	172.65	
+50			8.6	176.8	
+75			6.4	179.0	

M/26 Moore

185.41

5+00			1.9	183.5
75' S of 5+00			9.0	176.4
5+06			3.5	181.9
+16			2.6	182.8
+23			0.0	185.4
T.P.	13.16	198.45	0.12	185.29
5+42			12.9	185.5
75' S of 5+42			17.3	181.1
T.P.	13.19	211.48	0.16	198.29



According to Map
Alley returns are built
15.6' too far east

Catalina Blvd shifted west, may be the reason for this. Look up opening and closing books

		211.48		✓
5+65			13.0	198.5
5+82			8.6	202.9
6+50			5.0	206.5
7			3.9	207.6
75'50 / 7+00.			7.0	204.5
7+50			3.8	207.7
7+92.8 = EL Venice			4.5	207.0
TP	11.29	221.81	0.96	210.52
TP	2.17	210.82	13.16	208.65
ch BM Santa Barbara Niagara		197.95	13.60	197.22

Sewer Levels Thru
BlK 39 Pt Loma Hgts

Moore 12/17/26

NWBP	7.34	171.25		163.91	Santa Cruz Catalina
TP	9.57	167.82	13.00	158.25	
TP	5.75	173.27	0.30	167.52	
SW Bernice & Wells Jct BM 3 nails in pole			4.23	169.04	
W.L. Wells = 0+00			3.9	169.4	
+07			1.2	172.1	
+50			3.4	169.9	
1			7.7	165.6	
+35			13.1	160.2	
T.P.	1.10	161.41	12.96	160.31	stub
+50			2.7	158.7	
+70			5.9	155.5	
2			8.1	153.3	
+50			10.9	150.5	
T.P.	0.31	148.78	12.94	148.47	
3			3.6	145.2	
+50			7.1	141.7	
+70			10.8	138.0	

148.78

4+00			13.1	135.7	
T.P.	0.10	135.87	13.01	135.77	
4+51.5 old El Catalina			7.0	128.9	
5+00			11.3	124.5	
+35			12.7	123.2	
T.P.	3.56	126.63	12.80	123.07	
+50			4.9	121.7	
+75			7.0	119.6	
6+10 approx ℄ of grading of new location of Catalina Blvd			7.6	119.03	ground

See Mill's engineer for possible data

Sewer Levels Thru. Moore 12/17/26

Blk 38 Pt. Loma Hghts

	1.65	161.96		160.31	page 28 T.P. Stub
T.P.	1.34	150.86	12.44	149.52	
T.P.			13.24	137.62	spike in ground
WL Wells = 0+00			10.4	140.5	
+50			3.7	147.2	
1			1.9	149.0	
+50			0.6	150.3	
T.P.	3.41	153.93	0.34	150.52	
2			2.1	151.8	
+50			1.1	152.8	
3			5.5	148.4	
+50			12.3	141.6	
T.P.	0.18	141.26	12.85	141.08	
4			6.1	135.2	
+50			10.3	131.0	
T.P.	0.27	128.77	12.76	128.50	
5			1.8	127.04	
+50			4.6	124.2	

128.77

6+04.3 = old EL Catalina	7.2	121.6	
+50	11.7	117.1	
+80	16.7	112.1	
7+15 approx. & grading of catalina	16.6	112.2	
check ground page 28	9.75	119.02	119.03

Sewer Levels Thru
Blk 37 Pt Loma Hats

Moore
12/17/26

	1.37	138.99		137.62	page 29 Spike ground
T.P.	1.40	127.32	13.07	125.92	
WL Wells = 0+00			11.0	116.3	
+50			7.4	119.9	
1			4.0	123.3	
100' N of 1+00			11.6	115.7	
1+50			0.10	127.2	
T.P.	11.59	138.88	0.03	127.29	
2			8.2	130.7	
+50			4.8	134.1	
75' N of 2+50			9.6	129.3	
3			3.3	135.6	
+33			1.8	137.1	
+50			3.4	135.5	
4			4.6	134.3	
+50			7.3	131.6	
5			8.6	130.3	
+25			9.5	129.4	

138.88

5+50			12.80	126.1
T.P.	0.67	126.75	12.80	126.08
75' S of 5+50			4.9	121.8
6+00			7.0	119.7
+50			12.7	114.0
T.P.	1.19	114.95	12.99	113.76
7			5.3	109.6
+50			8.4	106.5
7 +80.6 = old El Catalina			11.4	103.5
8			12.7	102.2
TP	0.00	102.13	12.82	102.13
+40			3.8	98.3
8 +77 approx ℄ grading of Catalina			4.8	97.3
TP	3.85	97.19	8.79	93.34

Sewer levels thru Block bounded on the North by UDAL ST & on the South by Tennyson & Catalina Blvd. to Worden.
Sewer Line 2' South of Lot line

		97.19	see page 30		
℄ Catalina = 00			15.6	81.6	
+20			15.6	81.6	
+25			11.1	86.1	
+35 EL Catalina			9.2	88.0	
+50			8.2	89.2	
1			3.4	93.8	
TP	12.42	108.95	0.66	96.53	
+50			10.6	98.3	
2			5.0	103.9	
TP	11.63	119.88	0.70	108.25	
2+50			6.8	113.1	
+85			3.2	116.7	
TP	7.39	126.90	0.37	119.51	
+90			4.7	122.2	
3			4.3	122.6	
+50			5.4	121.5	
4			6.8	120.1	

		126.90			Moore 12/17/26
4+50			8.8	118.1	
5 Residence 45' N			3.7 lower floor elev.	9.5	117.4
+31.4 WL				10.6	116.3
5+91.4 EL San Clemente				12.2	114.2
T.P.	0.03	114.23		12.70	114.20
6+25				0.7	113.5
47' N of 6+25			residence floor elev.	2.7	111.5
6+50				1.7	112.5
7				4.0	110.2
+50				6.4	109.8
8				9.3	104.9
TP	0.40	101.67		12.96	101.17
+50				4.5	97.2
9				6.1	95.6
+50				6.9	94.8
+91.4 = WL Wells				8.3	93.4 to south
10+31.4				5.9	92.8
11				10.3	91.4

		101.67			
11 + 50			12.2	89.5	
+90			13.2	88.5	
T.P.	1.97	90.93	12.71	88.96	
12			5.3	85.6	
+50			4.9	86.0	
13			5.1	85.8	
+50			5.5	85.4	
+71.5 = WL in order South			5.6	85.3	
T.P.	8.72	99.61	0.0	90.89	
check to BM Chatsworth Tennyson			3.76	96.85	96.65

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TRAVERSE TABLE FOR TRANSIT BOOK.

From 1° to 90° for a distance of 100.

Degrees	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	0.87	99.99	1.31	89
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	88
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	87
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	86
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	85
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	84
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	83
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	82
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	81
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	80
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	79
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	78
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	77
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	76
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	75
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	74
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	73
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	72
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	71
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	70
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	69
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	68
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	67
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	66
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	65
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	64
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	63
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	62
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	61
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	60
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	59
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	58
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	57
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	56
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	55
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	54
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	53
37	79.86	60.18	79.60	60 53	79.34	60.88	79.07	61.22	52
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	51
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	50
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	49
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	48
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	47
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	46
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	45
45	70.71	70.71							
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
	DEGREES.		¾ DEGREE.		½ DEGREE.		¼ DEGREE.		

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