

1285

PASTY

FIELD BOOK

No. 385 F

ENGINEERING DEPARTMENT,  
CITY OF SAN DIEGO,  
CALIFORNIA.

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**THE FREDERICK POST CO.**  
*ENGINEERING and DRAFTING SUPPLIES*  
IRVING PARK STATION  
CHICAGO, ILL.

1827

6° 39 30

3+20.29

35° 01 45

2+02.52

100

Notes La Jolla Mean High Water Line 1 to 14

X sec. Alley Blk 19 Lincoln Park	19-23
" " " " 2 Frary Heights	24-26
" " " Illinois El Cajon to Meade	27-32
Mean High Water Line, La Jolla	33-34
X sec Alley Blk 63 Olive Hill	43-48
Opening 33rd and Bancroft	49-51
Ch levels in Alley - <sup>Central + 91st</sup> Meade + Monroe	52
Presidio Park roads locations	53
" " " Museum "	54
X sec. A St. - 18th to 34th	56
Survey City Prop. Blk 410 Old Town	15
" " " " 412 " "	17

Elv. Housefoot, Arista + Ft Stockton Dr. 80.

Levels on N.H. Water Line  
 La Jolla Cove North to Del Mar

BM #	1st	2nd	3rd	4th	Notes
BM #1	4.85	16.275		12.09	Above HSL
T.P. #1 lat	4.185	10.140	1.03	5.935	
T.P. #2	4.595	10.265	4.25	5.67	
T.P. #3	2.225	8.025	4.465	5.800	
T.P. #4	3.92	9.69	2.275	5.250	
T.P. #5	2.26	9.95	0.00	9.69	
T.P. #6	3.85	8.97	4.80	5.15	
T.P. #7	1.73	9.48	2.74	5.25	
T.P. #8	2.74	12.47	0.25	9.73	
T.P. #9	4.03	8.51	8.59	3.88	
BM #10	0.37	6.09	2.79	5.72	spike in pile
T.P. rock	3.76	5.44	4.43	1.66	in Ocean
T.P. #11	5.23	7.30	3.35	2.07	
BM #13 nail	8.83	12.09	4.04	3.26	in Rock 10'
T.P. on Rock	12.05	23.04	1.10	10.79	pt. N. of Cove
T.P. nail in Rock	11.67	3.447	0.25	4.25	
T.P. #12	7.30	25.99	2.78	31.69	

32.997  
 12.40  
 11.79  
 11.05  
 12.67  
 15.05  
 15.53  
 15.94  
 16.42  
 16.90

14.21 = 8.14 TP  
 6.07  
 70.43  
 204 error

4.98  
 6.22  
 11.20

11.00  
 9.78 Rod for  
 M.H. Water

only Log screw  
 in Rock w. side  
 of La Jolla Cove

USCG

BM #	1st	2nd	3rd	4th	Notes
17.09 BM. 139	6.73				TP N.S. of 2028803
3.09	0.68				
15.33	7.41				
17.07	8.22				
3.31	3.89				TP
3.81	3.10				
7.12	6.69				
4.08	3.92				TP
4.03	2.77				
4.29	4.49				
6.34	7.26				
2.93	1.76				
3.39	2.63				BM Gal. Log screw 2797 42.18
3.41	2.13				Above Sea level
7.80	3.43				
3.22	4.70				TP
4.58	4.65				
3.47	0.35				
7.05	0.10				TP
4.63	0.25				TP
2.74	0.67				
4.64	8.92				
7.06	5.33				
4.08	3.59				TP
2.98	4.35				
4.03	6.94				
7.61	4.42				TP
4.42	2.52				
3.74	7.51				
3.52	4.58				TP
7.01	7.80				
4.26	10.73				
4.74	2.95				TP on Aug
4.15	6.78				
7.90					
2.95					
4.95					spike in Rock
2.84					
7.51					
2.61					
5.20					TP
2.77					
7.97					
6.87					
3.50					TP
4.57					
2.07					
2.91					
5.14					TP
7.81					
3.01					
3.86					
4.15					TP
3.70					
7.58					
1.34					
6.73					TP on Rock

10/18/15  
 Moore  
 DeLeon  
 Ralston  
 Pearce

Location of Mean High Water Line

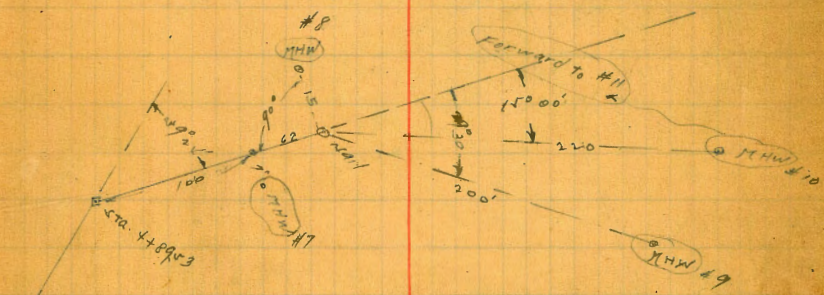
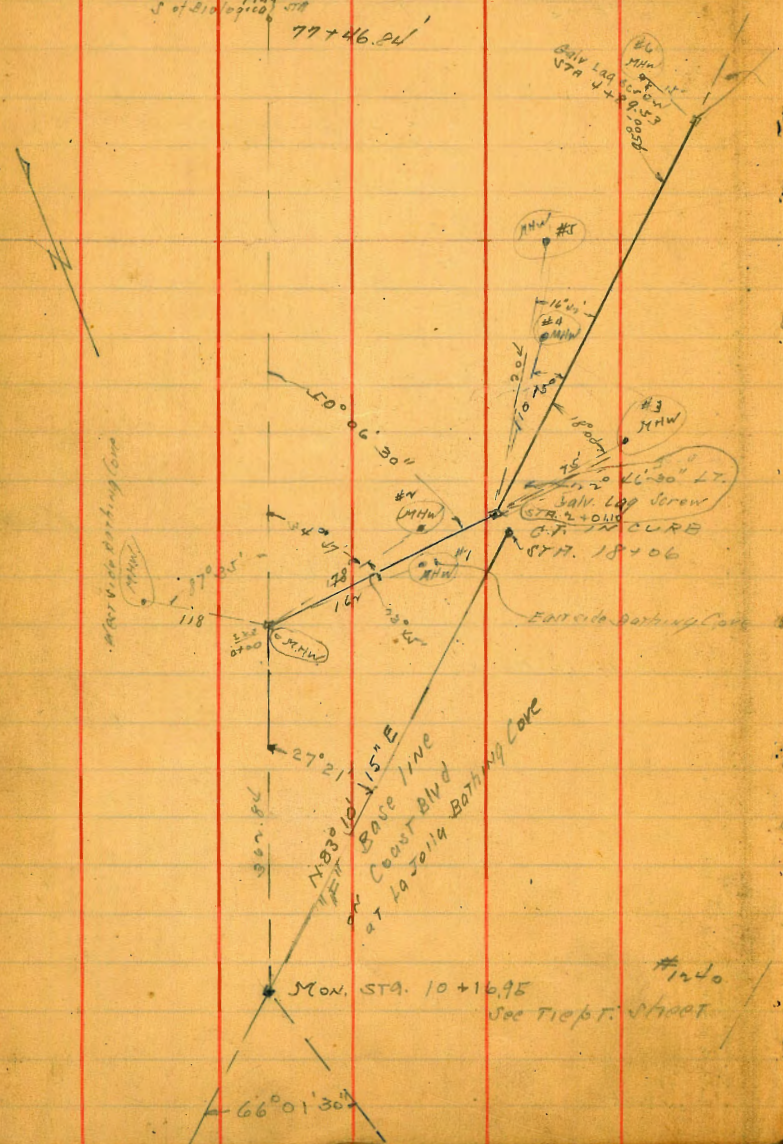
La Jolla Bathing Cove to Torrey Pines

FLAG  
 S of Biological Sta  
 77+46.24

Base line  
 next page

21° 13' 44" RT.  
 4+89.43

1806  
 1017  
 789



Location of Gold Fish Cove

MON. STA. 10+16.95  
 See Tie Pt. sheet

Top of 1st N edge of cave → 17+97.26  
 Sewer M.H. CTR → POT 16+44.66

This Line Ties to STA. 18+85

3xV POT # 14495.21

21°40' LT

Top of Cliff

STA 11+45.23

6°10'47" = 3xV - base of cliff - South edge of La Jolla Caves  
 6°10'47" = 3xV - base of cliff - South edge of La Jolla Caves  
 6°10'47" = 3xV - base of cliff - South edge of La Jolla Caves

North Point of Goldfish Cove

21°19' 1/2" RT 11+84.53

3

12°33' 00" RT  
 STA. 56+71.88 Lead Peg cob rock in Rock

36+05 15' @ MHW  
 36+00 15' @ MHW  
 35+70 30' @ MHW  
 35+00 30' @ MHW  
 34+30 30' @ MHW

33+60 30' @ MHW

31700 100' @ MHW

39000 100' @ MHW

74413 30' LT MHW

51°45' RT. Calc. lag screen

21+40 MHW 00+75

Northside La Jolla Caves

62°VV LT STA. 17+97.26

Sewer M.H. CTR POT 16+44.66

M.H.W. 19+05

Top of Cliff

108°40' RT

108°40' RT

PROSPECT R.

LA JOLLA PARK

See Tie to Sheet #108

10° 47' 40" LT  
STA. 47+47.01  
110.0  
Found 1" pipe  
S.A. La Jolla Ranch Club

J 201.1

15+14  
100 MHW

177+43+70.91  
17.59' LT.

177° 00'  
31.84  
at

SPINDRIFT DR.  
ST 100  
700

29+90  
100 MHW

STA 38+91.01  
13° 31' RT.  
10' 20" pipe in Rock

- 38+60 30' @
- 38+75 100
- 38+10 150
- 37+80 50' @
- 37+00 40' @
- 37+50 100
- 37+00 50' @
- 37+00 100

12° 33' RT  
STA 36+71.88  
in Rock

92.84  
60  
138+73  
Pipe to Bluff

Iron pin out  
La Jolla  
30' RT  
Princess St

12° 18' 00" LT  
STA 60+50.80  
MHW

99'  
95° 23'  
98° 10'

58+13

90'  
MHW

La Veredy  
41.14

LA Jolla Shores Marriott

5° 17' 30" RT  
STA 55+42.80 15.4  
MHW

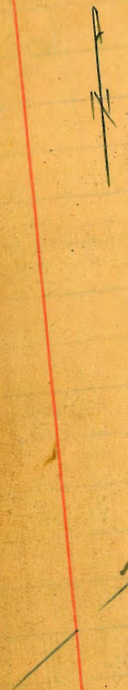
70° 30'  
106'  
24' Hub  
Medola Hill

53+95  
53+72  
MHW 06

51+75  
100 MHW

50+60 130 MHW  
48+75 120 MHW

Found 1" pipe  
MHW  
10° 04' 45"  
47+47.01



To station 0+000

3° 19' 30" RT.  
68+54.85

12° 18' LT

11° 24' 00" LT  
STA. 77+46.84

66+60 MHW

64+40 50 MHW

64+93 150 MHW

60+50.80

90° 71+07 MHW

43° MHW 73+40

160 MHW 76+17

MHW

ST. in Sidewalk  
174.57

93+14.72

POT. STA. 106+23.93

Galv. Lag screw  
106+81  
107+56

100+86 MHW  
99+30 0.15 MHW  
97+80 0.17 MHW

95+34 MHW

91+60

90+00

88+35

86+80

85+19

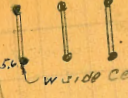
83+31

81+60

79+60

78+00

M.H.W.  
40 MHW  
100 MHW



W. side Com. pile on south side Biol. pier and  
(P.L. 12 98)

BIOLOGICAL STATION  
S. End Conc. Seawall

S. End Biol. Conc. Seawall  
Express Hoag  
Bluff  
TOP  
R.W. Hub (11670 London)

105° 27'

PLOT 12 97

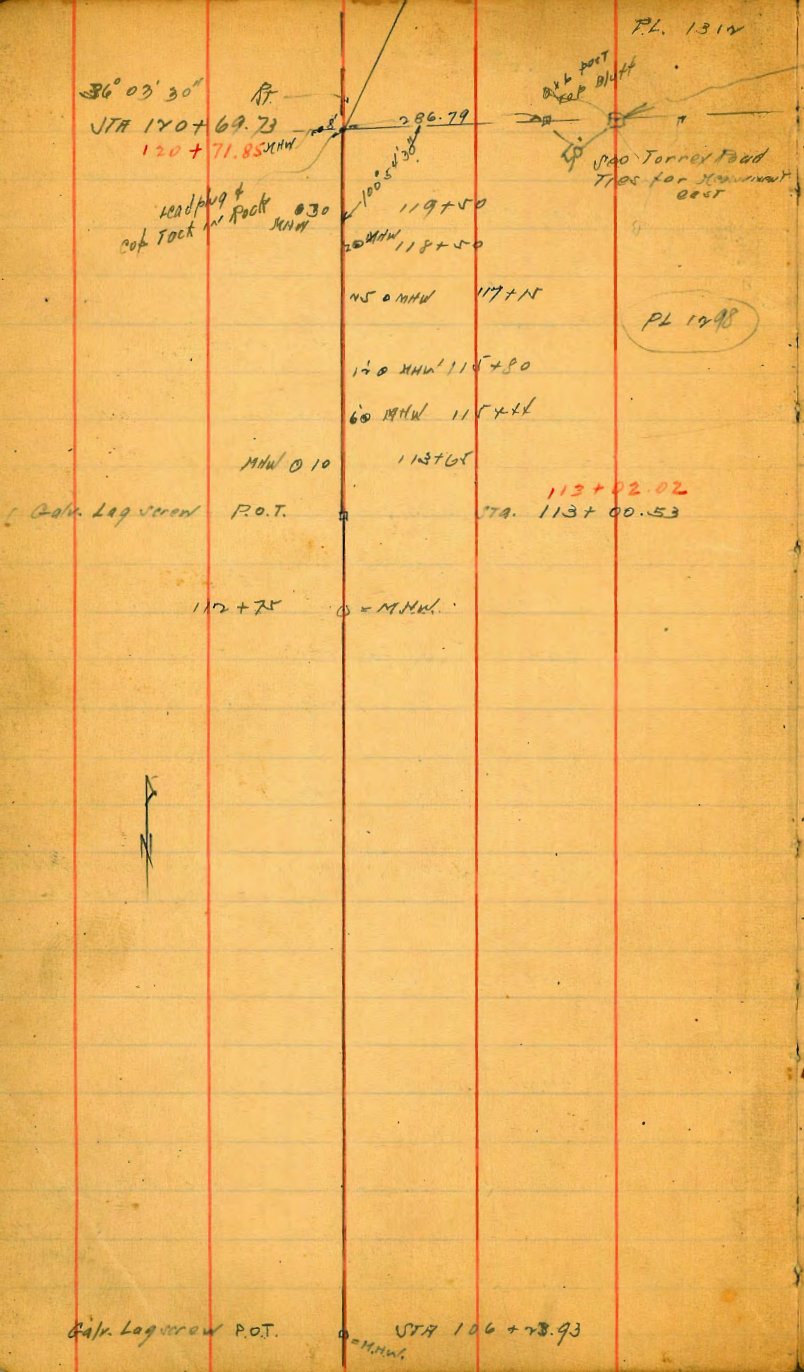
N. End Seawall North of Red Stone Pier

South end Higher Seawall  
N. of Red Stone Pier

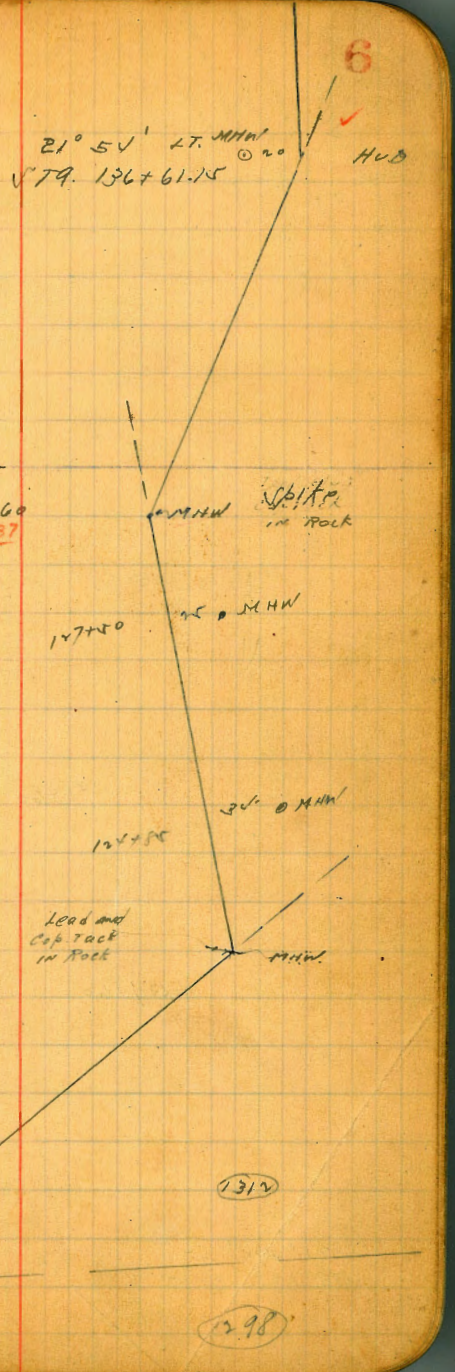
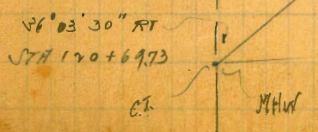
11° 24' 00" LT  
77+26.84  
MHW

Head  
W. Point  
Terry Rd.  
See Map





Set. Con. Mon RP  
See p. 35  
4-11-45

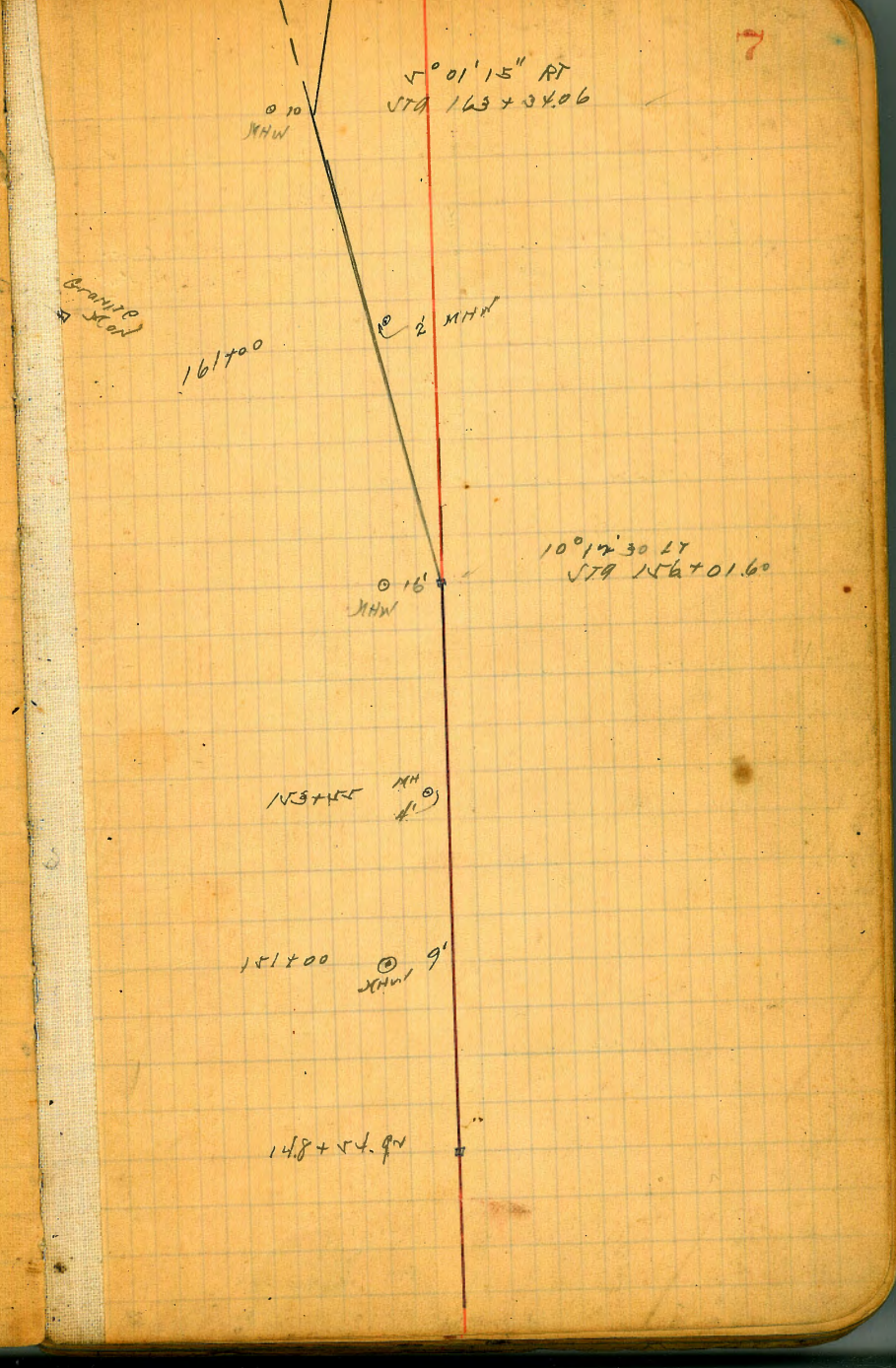
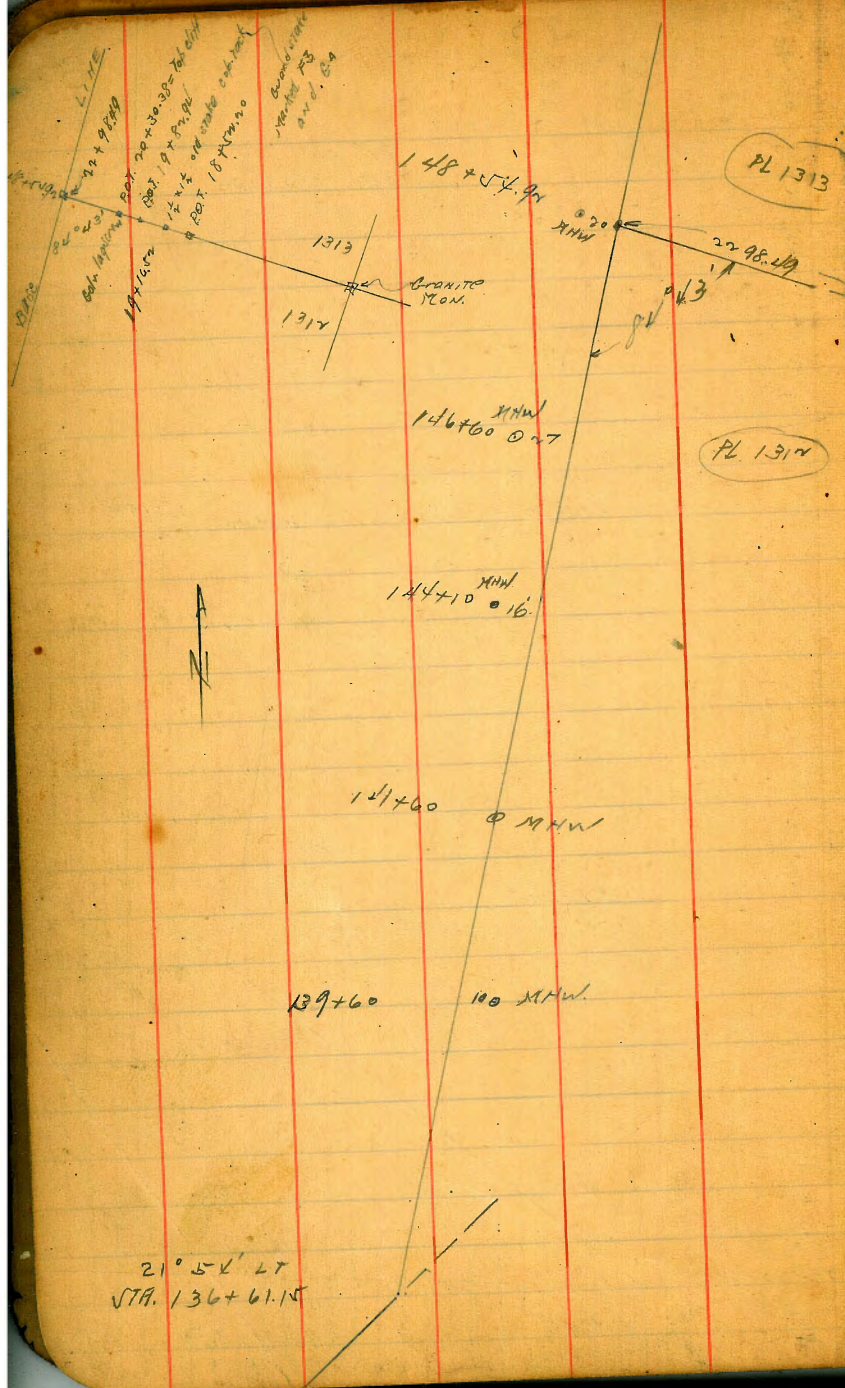


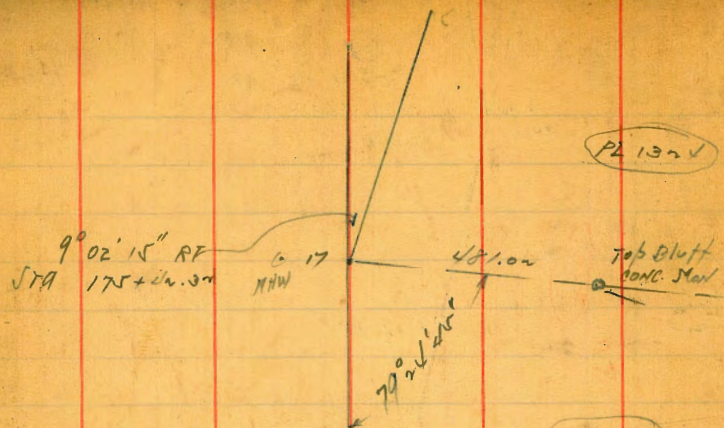
6° 18' RT  
STA 128+96.60  
128+99.37

36° 49' 15" LT  
STA 124+16.33  
124+18.68

1312

1298





173+35 0 35'

170+80 0 40

168+30 0 35'  
 MHW

165+80 0 30  
 MHW

5° 01' 15" RT  
 STA 163+24.06

PL 1313

0 45  
 MHW 0 44  
 MHW 0 45

MHW 0 45

230209  
 (2410)  
 Mon.  
 MHW 0 50'

MHW 0 50'

MHW 0 46

MHW 0 40

MHW 0 35

MHW 0 47

9° 01' 15"  
 STA 175+24.39

198+19.19 = bearing now

196+80 8

194+30

191+80

P.O.T. 189+32.10

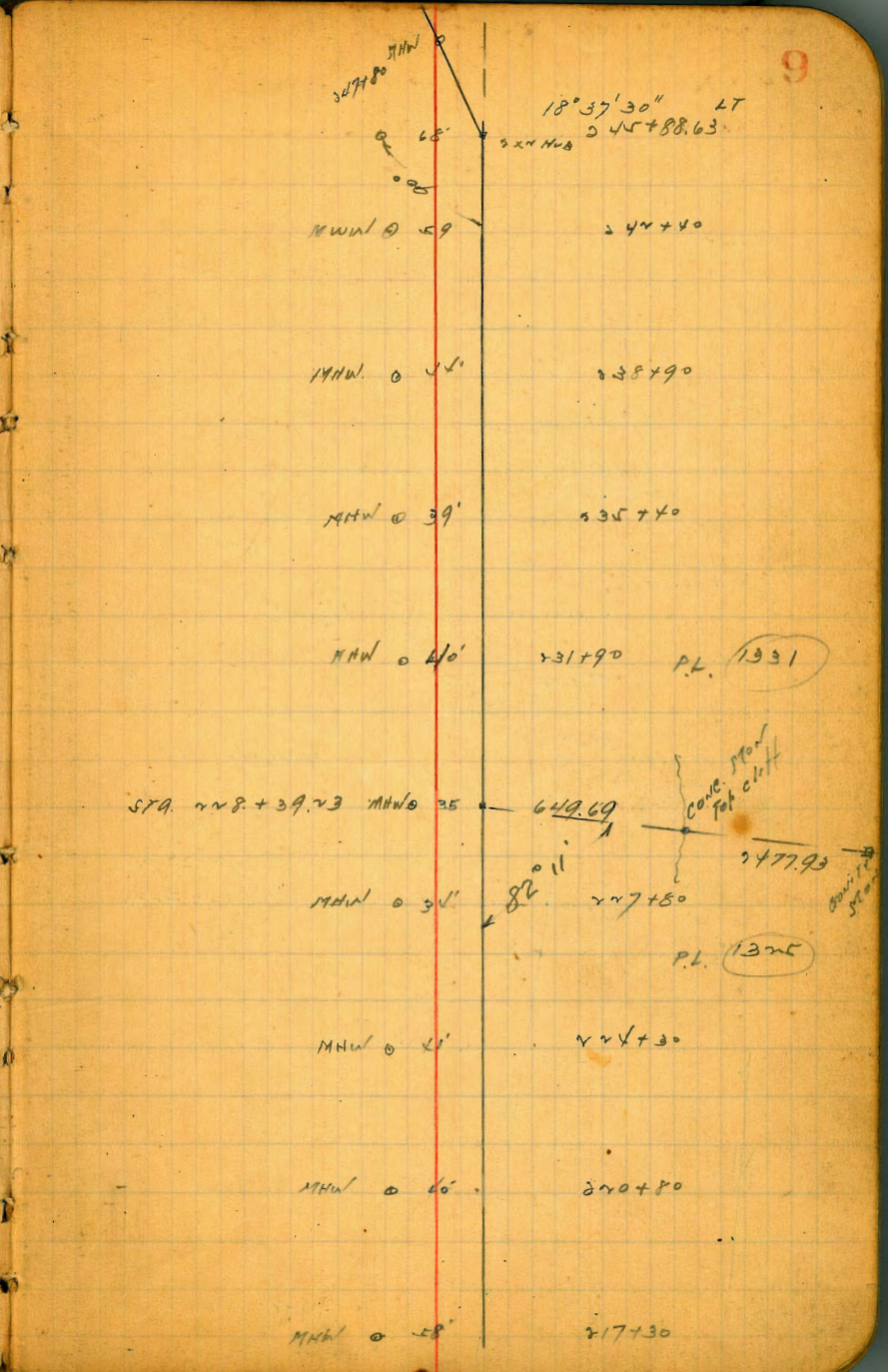
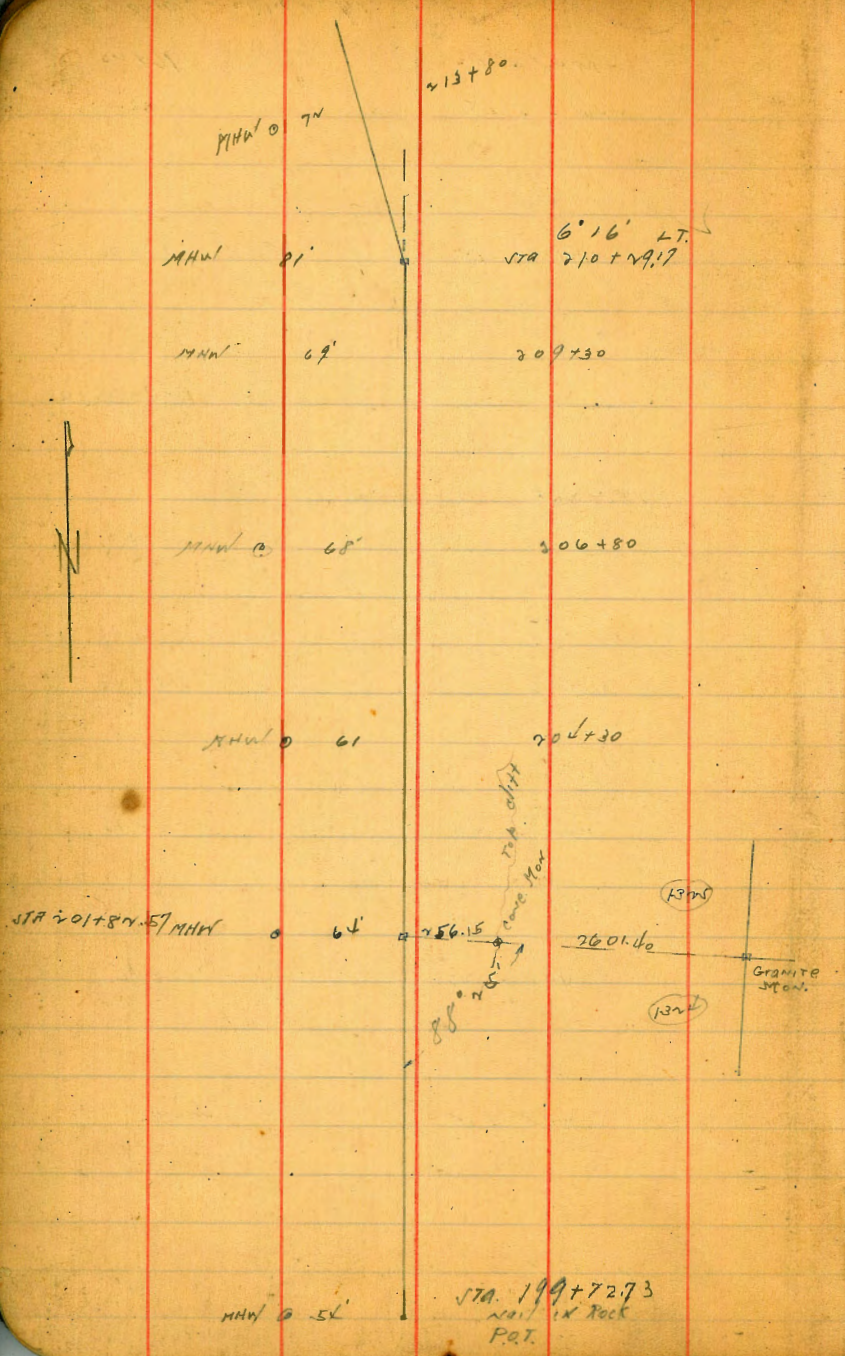
187+90

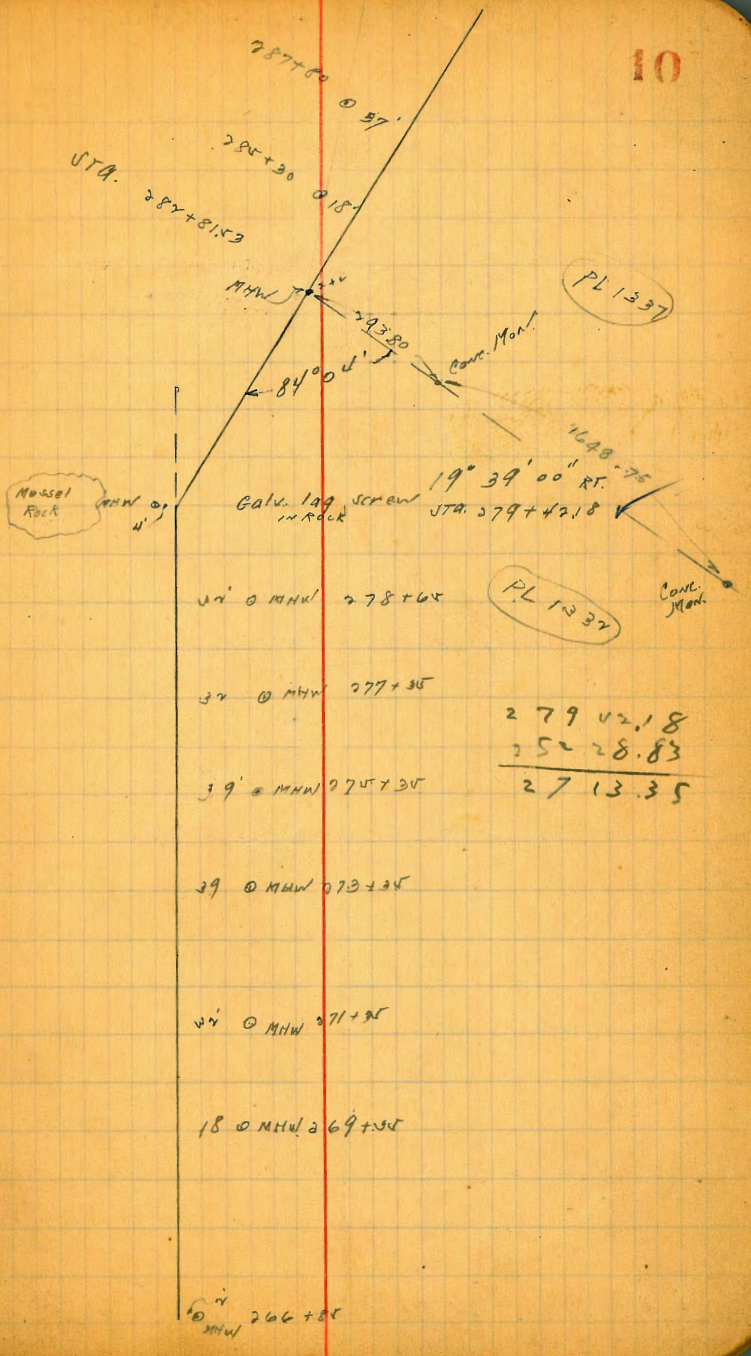
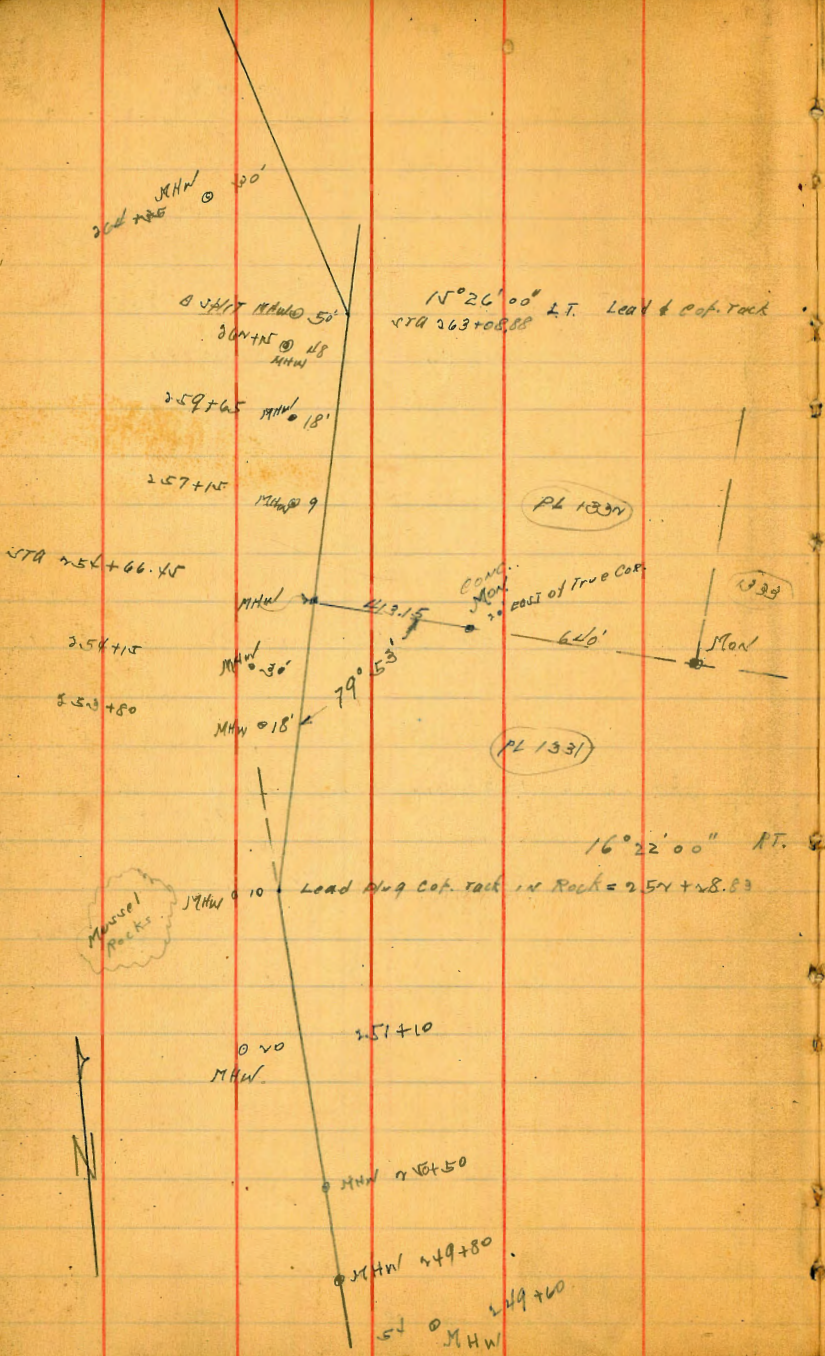
185+20

182+90

180+40

177+90





279 42.18  
 252 28.83  
 ---  
 27 13.35

308+20  
20

MHW @ 308+20

MHW @ 8' 305+70

MHW @ 24' 302+20

MHW @ 24' 300+70

MHW @ 35' 298+20 = P.O.T.  
mail ELV. 8' SW  
43  
a NAL

MHW @ 45' 295+30

MHW @ 47' 292+80

MHW @ 38' 290+20

X



Foot of  
Terry Pink  
Grade

11  
cc.

34' MHW 326+85

37' STA 324+25  
approx. 175

36' MHW 321+85

39' MHW 319+25

29' MHW 316+85

19' MHW 314+25

90' MHW 311+85

PL 1338

Sta. 309+36.58

MHW

220

223.37

82° 05'

Top

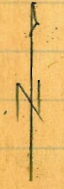
slight  
curve to  
right

1933.56

St. 2

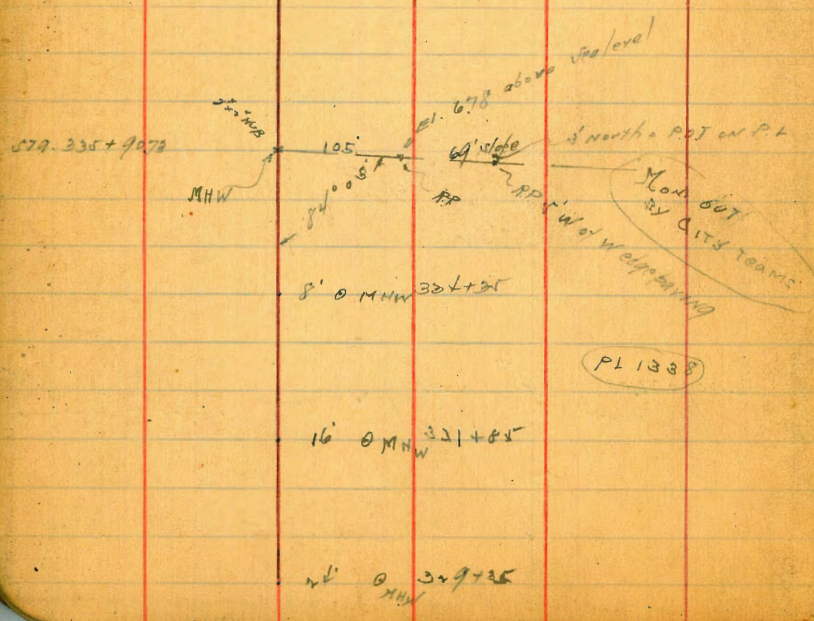
P.L. 1037

10/31/28  
 570000  
 OSBORN  
 CALHOUN  
 PEARCE

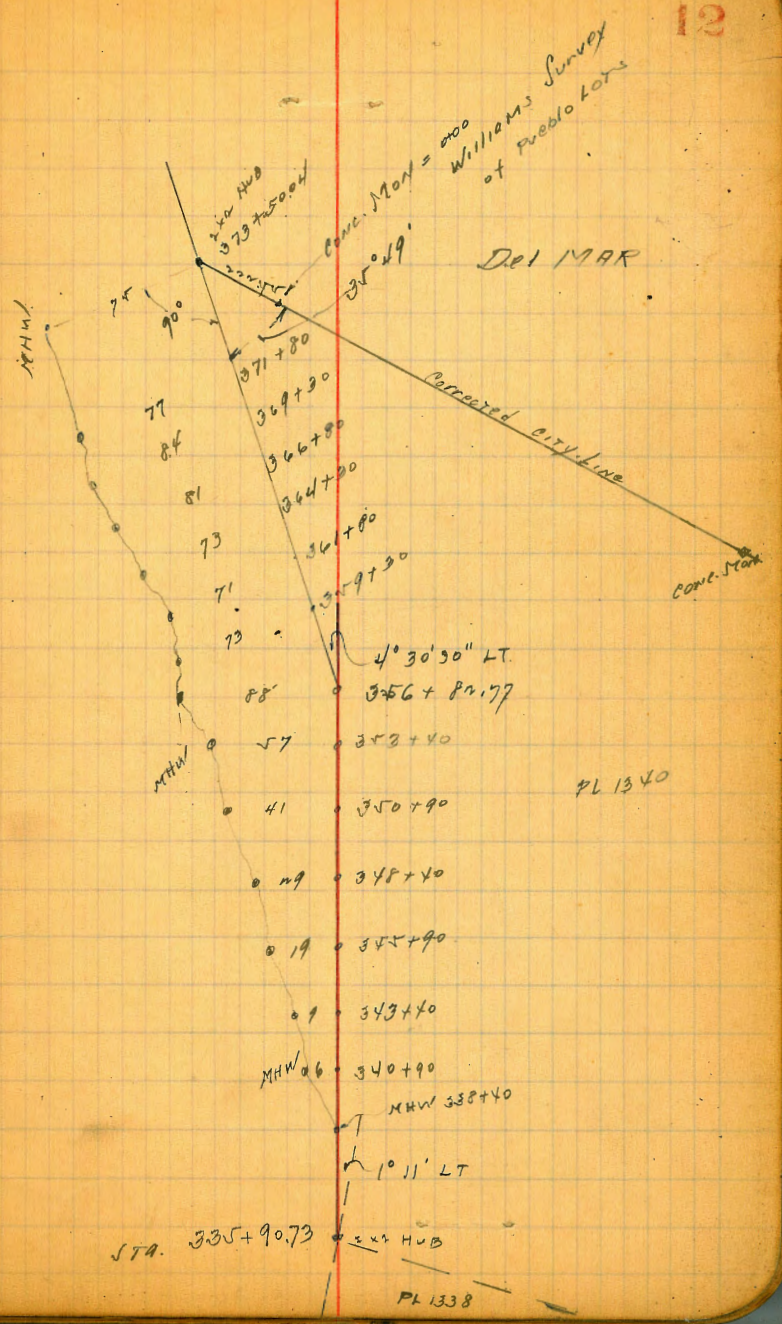


Should tie up to  
 North Cor. of City.

PL 1340



PL 1338



13.



Levels for M.H.T. Line  
 La Jolla Cove To La Jolla Beach  
 Ref P. 1.30, P. 33. This Book

	+	-	Elevs	
B.M.	6.39	40.12		33.73
T.P. Nail	9.99	49.92	0.29	39.83
T.P. Nail	3.37	46.72	7.07	42.75
T.P. Nail in Grid Fence and Post S. End of Line Demersal	0.67	40.37	6.42	39.70
T.P. Nail on Grid Fence	5.52	39.15	6.74	33.63
T.P.	7.20	44.40	1.95	37.20
T.P.	0.86	39.18	5.98	32.62
T.P.	2.55	31.21	10.82	28.66
T.P.	1.31	19.62	12.90	18.91
T.P.	5.67	14.31	10.95	8.67
T.P.	5.27	17.13	2.50	11.81
T.P. To Beach	4.09	18.92	6.51	10.32
T.P.			2.30	14.93
T.P.	8.10	23.01	1.01	14.91
Check To B.M. W. End Seakane			2.95	20.06

B.P. in Wall W. End  
of Wall at S. Jolla  
Cove.

U.S.G.S.

N. End Retaining Wall

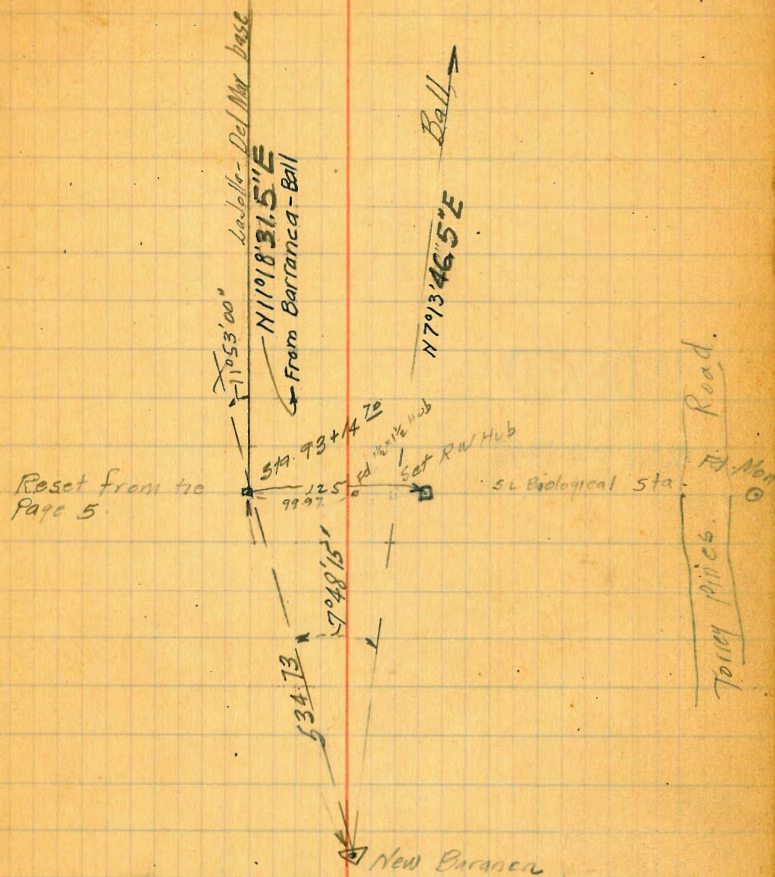
S. Line Top  
Seawall

2006  
6.12  
13.74  
18.72  
0.15 Error

Ties of La Jolla - Del Mar M.H.T. base  
 line to U.S.G.S. Net 11/7/30 London.

14

H. Lag Screen Sta 106 + 23.23



Reset from tie  
 Page 5.

Survey City Prop. in  
BLK 410 Old Town

Moore  
Begg  
Green  
Roberts  
11-26-47

W.O.

Ref. L.S. 435  
Tie shoot 518

INDEXED

WIK  
MAR 24 1949

Fd. 3/4" Pin 71.78  
nd 0.30 wht  
Pin has been  
disturbed acct.  
of digging  
post hole  
Set 2nd Hub

251.63  
50.20  
301.92

110059	108787
25	25
50295	37.74
20128	25.15
251475	12.57
100596.5	108787
37.5	37.5
50295	54390
70413	76146
30177	76146
3772125	32634
408	79250
177	
181.08	

108787	25
54390	
21786	
271950	

53 51 45  
36 11 20

Fd. PIPE  
RE 3"  
checked at  
007 LINE

Meas. 90° 03' 05"  
60 01 10  
36 11 20  
9 6 12 30  
179 59 60  
83 47 30

BLK 410 Old Town

N36°11'20"E

25'  
CLOSING

Old & Wallace

15

N 60° 01' 10" W 251.63

83° 47' 30"

L.S. 435

N 53° 51' 45" W

JUAN 20

Fd. Crosses  
ST.

St.

7' C.T.

Rec. = 100.16

90° 02' 28"

90° 02' 28"

90° 02' 28"

90° 02' 45"

Set disk TOP  
COR. Fence Post

N 53° 51' 28" W

25'

N 25° 01' 10" E  
1000'

N 53° 51' 35" W

100'

90° 02' 58"

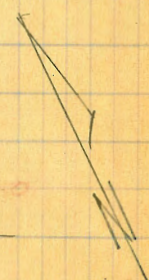
Set 2x2 Hob  
P-15

Fd. 3/4  
meas. 77.73

77.72

St. Swainson Blvd.  
N 53° 51' 20" W

50



Taylor

N 36° 11' 10" E  
N 53° 51' 20" W  
90° 02' 30"

N 36° 11' 05" E

Stake Ely line of 15' alley  
BLK x 12 Hinton sub.

Moore W.O. 60009

Begg  
Cress  
Roberts

11-27-47.

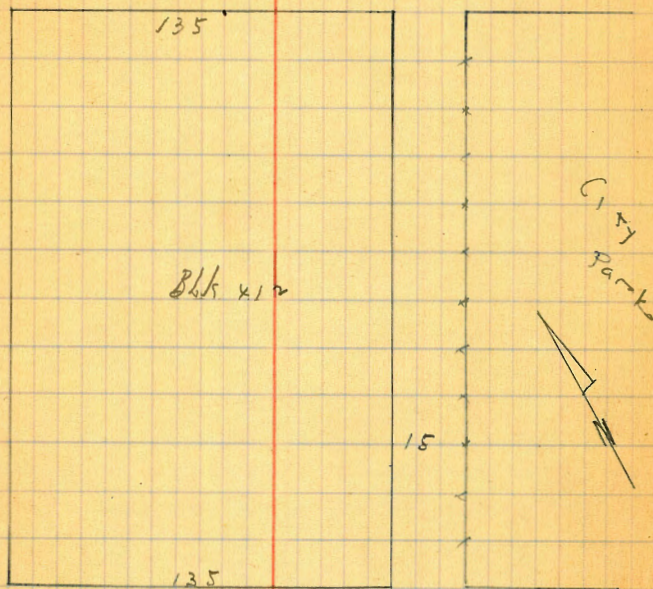
Ref, tie sheer

" Map 1507

17

Chestnut St

Taylor St.



Whitman St





20 wide X Sec. Alley BIK 19 Linden Park 1-9-29  
miller

Between L, 25<sup>th</sup> & 26<sup>th</sup> STS.

B.M. (B.P. 900)	5.04	81.97	76.93. NW 25 <sup>th</sup> & K
			N & S. Alley
			00 = S. line K ST.
W. emb. ch		4.57	77.40
W. Parvt		4.63	77.34
¢		4.91	77.06
E. "		4.57	77.40
E. emb. ch		4.48	77.49
	10.5		
E. on gravel Runway to Service Station		4.3	77.7 ✓
C.		4.4	77.6
W.		3.6	78.4
	34.5		
W		3.9	77.1
E		4.3	77.7
E. & emb. Runway in Service Station		4.70	77.27 ✓
	70.5 = garage on W	4.5 Back	dirt floor ✓
E		4.7	77.3
C		4.9	77.1
W		5.0	77.0
+45		4.8	77.2 floor ✓
	80.5 = garage on W. emb. floor	4.5 Back	
W. -45		4.9	77.1 floor ✓
	90.5 doorway to Public Garage on E. on line emb. floor		
E		4.94	77.03 floor ✓

Jan. 14 - 29  
G.B.H.

Plotted

81.97

69.97 SE L & 25

95's garage on W. dirt floor 4.5 Back

30

W. +45		5.4	76.6 floor ✓
	100.5		
W		5.4	76.6
C		5.3	76.7
E		4.9	77.1
	115.5		
E		5.5	76.5
C		5.7	76.3
W		5.7	76.3
	140.5 = N. line E. & W. Alley		
W		6.6	75.4
C		6.5	75.5
E		6.2	75.8
	142.5 = Double garage on W. dirt floor	2.5 Back	
W - 2.5		6.6	75.4 floor ✓
	150.5 = E & W. Alley		at end 3 garages on W. dirt floors 2.5 Back
E		7.0	75.0
C		7.0	75.0
W		7.2	74.8
+2.5		7.5	74.5 floor ✓
	160.5 = S. Line E & W. Alley		
W		7.6	74.4
C		7.4	74.6
E		7.3	74.7

Public Garage Hall  
on E. line

81.97

174'S = S. end 3 garages on W. dirt floors 2.5 Back

E	7.8	74.2
C	7.8	74.2
W	8.1	73.9
+2.5	7.7	74.3 floor ✓

175.5 S = R. ent walk 2.5 W. of W line dipped for drainage

N - 2.5	8.25	73.72 ent. walls ✓
---------	------	--------------------

177'S = N. end 3 garages on W. ent. floors 2.5 Back

W. - 2.5	8.20	73.77 floor ✓
W.	8.1	73.9
E	8.0	74.0
E	7.9	74.1

200'S = S. end 3 garages on W. ent. floors 2.5 Back ✓

E	8.4	73.6
E	8.6	73.4
W	8.9	73.1
+2.5	8.30	73.67 floor ✓

235'S

W.	9.3	72.7
C	9.9	72.1
E	9.3	72.7

360'S

E	10.3	71.7
+5	11.3	70.7
C	11.3	70.7
+7	11.0	71.0
W	10.1	71.9

81.97

Alley BIK 19 Linden Park.

295'S

21

W	11.8	70.2
+3	13.6	68.4
C	13.5	68.4
E	12.6	69.4

300'S = N. Line L. ST.

E	13.39	68.58 ent. cl.
E	13.61	68.36 Parment
C	13.84	68.13 "
W	13.74	68.234 ent. cl.

E &amp; W Alley

00 = E. line N. &amp; S. Alley

N	6.2	75.8
C	7.0	75.0
S	7.3	74.7
T.P.	5.38 80.19	7.16 74.81

41'. E = <sup>double</sup> garage on S. dirt floor 1.8 Back

S	5.2	75.0 floor ✓
C	5.1	75.1
N	4.2	76.0

58'. E. { garage on S. dirt floor 1.8 Back  
Double garage on W. dirt floor 0.4 Back

N	4.7	75.5 floor ✓
C	5.0	75.2
S	5.3	74.9 Floor ✓

From 00 to 48 E. T. L. Wall  
of Public Garage only  
is 0.00 in Alley



80.19

108'.E double garage on N dirt floor 0.3 in Alley

S	5.0	752
E	5.0	752
N	4.8	75.4 floor ✓

156'.E = garage on S. emb. floor 1.4 Back

N	4.2	760
E	4.8	75.4
S	4.80	75.39 floor ✓

188'.E = double garage on N. dirt floor 1.1 in Alley

N	4.4	758 floor ✓
E	4.7	75.5
S	4.8	75.4

242'.E = double garage emb. floor 0.5 Back

N	4.3	75.9 floor ✓
E	4.7	75.5
S	4.8	75.4

255'.E { garage on S. emb. floor 1.9 Back  
" " " " " " " " 0.8 "

S	4.6	75.6 floor ✓
E	4.4	75.8
N	4.6	75.6 floor ✓

266'.E = emb. drive into yard on S 1.5 Back

N	4.5	75.7
E	4.4	75.8
S	4.60	75.59 emb. drive ✓

Alley BIK 19 Linden Park

80.19

300'.E.

22

S	4.6	756
E	4.2	76.0
N	4.3	759

340'.E = double garage on N. dirt floor 0.3 in Alley

N	4.0	76.2 floor ✓
E	4.2	760
S	4.4	75.8

345'.E garage on S. dirt floor 1.0 Back

S-1.	4.4	75.8
------	-----	------

358'.E = W. end emb. walk 0.7 S. of S. line Alley

S	4.7	75.5 emb. walk ✓
E	4.2	760
N	3.8	764

371'.E

N	4.0	762
E	4.4	75.8 Top. M. H. ✓
S	4.7	75.5

S + 0.5	4.80	75.39 emb. walk ✓
---------	------	-------------------

395'.E

S-0.5	4.86	75.33 emb. walk ✓
S	4.9	75.3
E	6.0	762
E	6.0	762
E	6.0	762
N	4.7	75.5

80.19

400.65 E. = W. line 26<sup>th</sup> St.

N			5.33	74.86	amt. ch.
N.			5.80	74.39	payment
C			6.35	73.74	"
S			6.36	73.83	"
S			6.24	73.95	amt. ch.
T.P.	3.06	77.01	6.24	73.95	
chk on B.M.			7.06	69.95-49.97	S.E. 26 <sup>th</sup> + L. Sts

15' wide X Sec Alley BIKR Frary Hts  
Thorn to Ulas Bet. Grim + 31<sup>st</sup> St. 1-9-29  
mills

BM. BP.	R. 28	331.27	328.99	WN. 31 <sup>st</sup> Ulas
		00 = S. Line Ulas St		
E		4.16	32711	ent. d
E		4.36	32691	parmt
E		4.73	32644	"
W		4.68	32659	"
W		4.47	32680	ent. d
		18'S		
W		5.8	325.5	
E		5.8	325.5	
E		5.8	325.5	
		60'S		
E		7.0	3243	
E		7.3	3240	
W		7.7	323.6	
		94'S. garage on E. ent. floor	6.0	Back
W		8.7	322.6	
E		8.0	323.9	
E		7.1	324.2	
E+6.		6.6	324.7	floor ✓
		from 99'S to 149. Fence on E. 0.7 in Alley		
		from 112'S to 128'S garage on E. 0.7 in Alley ✓		
		115'S. garage on E. dirt floor 0.7 in Alley		
E		8.9	3224	floor ✓
E		9.1	3222	
W		9.3	3220	

Garages ok Jan. 14. 29 GEM

331.27  
157'S = garage on E. ent. floor 4.0 Back

W	9.8	321.5
E	9.8	321.5
E	9.30	321.97
+4'	8.57	322.70 ✓
	200'S	
E	10.8	320.5
E	11.0	320.3
W	10.8	320.5
	from 227'S to 237'S shed on E. 0.5 in Alley	
	234'S garage on W. dirt floor 9.0 Back	
W-9'	11.8	319.5 floor ✓
W	11.4	319.8
E	11.5	319.8
E	11.5	319.8
T.P.	4.20	323.84
	11.61	319.66
	244'S. garage on E. ent. floor 3.2 Back	
E-32	3.18	320.68 ✓
0.5' W. 48.4 in	3.73	320.13 ent. floor
E	4.3	319.6
W	4.3	319.6
	257'S. garage on E. ent. floor 2.1 Back	
W	4.3	319.6
E	4.5	319.4
E	4.2	319.7
+1.3	4.06	319.80 ✓
		ent. floor

	323.86		
E	281.5	3' cmt wall	B'w. of w. line Dipped in center for drain
E+1.2			4.0 4.6 319.9 Fence
E			4.8 319.1
W			4.7 319.2
+3'			4.68 319.18 ✓
	309.5	garage on W	9.5 Back dirt floor
		" " E	7.2 " cmt. floor
W			5.0 318.9 ✓
E			4.8 319.1
+6.1			4.73 319.13 cmt. apron
E			4.5 319.4 on W "
+4.2			3.9 320.0 floor ✓
	343.5	garage on W	cmt. floor 5.2 Back
E			5.0 318.9
E			5.3 318.6
W			5.4 318.5
+5.2			5.44 318.42 ✓
	379.5	garage on W	cmt. floor 5.2 Back
W-5.2			6.2 317.7 ✓
W			6.1 317.8
E			6.06 317.80
+7			5.7 318.2 garage
	From 306.5 to 396.5	garage on E	Entrance to E. 0.5 in Alley ✓
			H00.5
E			5.7 318.2
E+1.5 fence			6.3 317.6
E+1.7 cmt. block under fence			6.3 317.6
E			6.4 317.5
W			6.2 317.7

	323.86		
	411.5	N. End	cobble wall on W
W-0.5			8.7 315.7
W			6.4 317.5 Top Wall ✓
	450.5	S. End	cobble wall on W
W-0.2			8.5 315.4
W			6.9 317.0 Top wall ✓
E			7.2 316.7
+6.6			6.6 317.3 shed
	from 350.5 to 369.5	shed on E	0.7 in Alley ✓
	469.5	double garage	cmt. floor 5.8 Back
E			6.6 317.3
+0.7			7.5 316.4 shed
E			7.7 316.2
W			8.0 315.9
W+5.8			8.42 315.44 floor ✓
	490.5		
W-5			12.2 311.6
W-1			10.0 313.9
W			8.8 315.1
E			8.7 315.2
E			8.4 315.5
T.P.	5.21	320.23	8.84 315.02
			515.5
E			5.5 314.7
E			5.6 314.6
+6			5.6 314.6
W			8.0 312.2
+6			9.4 310.8

Alley BIK 2. Frary Hts

25

320.23

548.5

-10	10.0	310.2
-3	9.9	310.3
W	7.9	312.3
+2	5.5	314.7
E	5.5	314.7
E	5.4	314.8

550.5

E	5.3	314.9
e	5.5	314.7
+6	5.3	314.9
N	6.0	314.2
+5	6.0	314.2

565.5

W	4.8	315.4
U	4.9	315.3
E	5.0	315.2

595.5

E	4.6	315.6
E	4.9	315.3
W	4.6	315.6

600.5 = N. Line Thort st.

W	5.02	315.21	entr. el.
W	5.06	315.17	Parrot
E	5.09	315.14	"
E	4.87	315.36	"
E	4.60	315.63	entr. el.

220.23

Flley Bk R. Fray HTs.

26

N. N 31<sup>st</sup>

1.24 318.99 = 318.78 + Thort

chk on B.M.

Location	Level	Series	Drain	Man/Holes	Flley Bk R. Fray HTs
B.M.	2.05	331.04			328.99
TP	2.30	320.51	1283		318.21
319 S of 54 <sup>th</sup> St				Sexer Man Hole Cover	2.03 318.48
617 <sup>th</sup> Flwy				Series Floor Line	7.37 313.14
329 S of 54 <sup>th</sup> St				Clear = 12 Star m Drain Cover	1.89 318.62
617 <sup>th</sup> Flwy				" " Floor Line	4.76 315.75
Drop				Catch Basin N. Side of Thort Grating	6.37 314.14
				North Side of Flwy	
E				Bottom of Basin	8.26 311.55
				Floor Line of Drop	14.66 305.85
TP	6.1	322.24	488		315.63
			481		318.99

80' wide  
14' elev.  
13' 1/4's

Illinois St L sec  
El Cajon to Meade.

1-9-29  
Miller

375.49

27

B.M. B.P.	13.00	375.49	362.49	SE. El Cajon & Illinois		21.7	3638
		00 = N. Line El Cajon Blvd.			+3		
					+4	11.1	364.4
N.		11.8	363.7		E	10.8	3647
cb		12.53	362.96	cont. db. ret	+7	11.1	3644
gutter		12.96	362.53	parmt	+10	8.8	3667
"		12.57	362.92	"	1/4	8.6	3669
E		12.32	363.17	"	cb	7.5	3680
"		12.29	363.20	"	E	4.7	3708
gutter		12.45	363.04	"			
cb		12.02	363.47	cont. db. ret	E	4.1	371.4
E		10.5	365.0		+10	4.3	3712
cont. W alk Return 1/4 on N.E. El Cajon & Illinois Not in on N.W. copy.					cb	5.2	3703
		10' N			+6	6.8	3687
E		7.5	368.0		1/4	7.3	3682
cb		9.6	365.9		+3	8.2	3673
1/4		10.1	365.4		+5	10.3	365.2
+3		10.2	365.3		E	10.2	365.3
+5		11.5	364.0		1/4	10.4	365.1
E		11.7	363.8		+10	10.2	3648
1/4		11.9	363.6		cb	8.5	367.0
+10		12.2	363.5		W	8.2	367.3
cb		11.2	364.3				
W		8.7	366.8		W	7.3	3682
		20' N			cb	8.0	3675
W		8.3	367.2		1/4	8.1	367.4
cb		9.4	366.1		E	8.2	3673

Plotted Jan. 12-29-29 - CEM

Yardage. 1.28-29

30' N

65' N

375.49

65' N. (con)

c + 8	8.5	367.0
E. 14	7.6	367.9
cl	5.6	369.9
E	4.0	371.5

85' N.

E	3.9	371.6
cl	4.6	370.9
+ 5	5.0	370.5
+ 10	6.8	368.7
14	7.0	368.5
E	7.2	368.3
14	7.2	368.3
cl	7.2	368.3
W	4.5	369.0

100' N.

W	6.0	369.5
cl	6.7	368.8
14	6.7	368.8
E	6.7	368.8
14	6.7	368.8
+ 8	4.9	370.6
cl	4.6	370.9
E	4.1	371.4

139' N

E	3.8	371.7
cl	4.4	371.1

375.49

Illinois

28

+ 8	4.8	370.7
+ 10	5.4	370.1
14	5.3	370.2
E	5.4	370.1
14	5.5	370.0
cl	5.5	370.0
W	5.0	370.5

140' N = S. Line Alley - Paved To W.

W	6.36	369.13 <sup>e. end</sup> Alley Parmt
+ 2	4.9	370.6
cl	5.5	370.0
14	5.4	370.1
E	5.4	370.1
14	5.2	370.3
cl	4.4	371.1
E	3.4	372.1

145' N. = S. Alley

W	6.44	369.05 Alley Parmt
---	------	--------------------

150' N = N. Line Alley

E	2.9	372.6
cl	4.3	371.2
14	4.8	370.7
E	5.0	370.5
14	5.1	370.4
cl	5.2	370.3
+ 10	5.4	370.1
W	6.12	369.37 Alley Parmt

375.49

155' N

W	5.2	370.3
cl	5.2	370.3
14	5.2	370.3
C	4.9	370.5
14	4.8	370.7
cl	4.7	371.1
E	2.8	372.7

185' N.

E	2.7	372.8
+9	3.6	371.9
cl	3.1	371.8
+5	2.9	372.6
+8	4.3	371.2
14	4.3	371.2
E	4.4	371.1
14	4.5	371.0
+6	5.0	370.5
cl	4.1	371.4
W	4.7	371.1

205' N

W	4.1	371.4
cl	2.5	373.0
+4	4.3	371.2
14	4.0	371.5
e	4.0	371.5
14	3.8	371.7

375.49

Illinois

29

cl	3.5	372.0
+8	2.1	373.4
E.	0.8	374.7

225' N

E	1.6	373.9
cl	2.8	372.7
14	3.3	372.2
C	3.6	371.9
14	3.8	371.7
+7	3.8	371.7
cl	3.3	372.2
W	3.4	372.1

245' N

W.	3.5	372.0
cl	3.2	372.3
14	3.3	372.2
C	3.1	372.4
14	2.7	372.8
cl	2.3	373.2
E	1.5	374.0

T.P.	9.62	384.49	0.62	374.87
------	------	--------	------	--------

270' N.

E	8.0	376.5
+2	8.8	375.7
+11	9.0	375.5
cl.	9.8	374.7



384.49

270' N. (con)

E dch	11.1	373.4
E 1/4	11.2	373.3
c	11.5	373.0
1/4	11.9	372.6
elb	12.1	372.4
W.	12.2	372.3

285' N

W	10.6	373.9
elb	11.5	373.0
1/4	11.5	373.0
c	11.1	373.4
1/4	11.0	373.5
d	10.3	374.2
e	9.5	375.0

300' N.

E	9.4	374.7
d	10.4	374.1
1/4	10.5	374.0
c	10.7	373.8
1/4	11.2	373.3
el	10.7	373.8
W	9.7	374.8

At 326.5' N. 8" curb wall from East

Protrudes 4.5 into ST.

Illinois ST.

384.49

335' N.

30

W.	11.3	373.2
elb	10.1	374.4
+12	9.9	374.6
1/4	10.3	374.2
c	9.7	374.8
1/4	9.6	374.9
+7	9.5	375.0
d.	8.4	376.1
E	7.1	377.4

355' N.

E	7.2	377.3
d.	8.2	376.3
+6	9.0	375.5
1/4	9.0	375.5
c	9.3	375.2
1/4	9.9	374.6
+2	9.9	374.6
+5	8.5	376.0
ch	9.4	375.1
W	5.8	378.7

375' N.

W	9.0	375.5
elb	9.2	375.3
1/4	9.2	375.3
+2	9.5	375.0
c	9.0	375.5

384.49

375' N. (con)

E. 1/4	8.6	375.9
cb	8.6	375.9
E	7.1	377.4

400' N.

E	7.4	377.1
cb	7.9	376.6
1/4	8.0	376.5
e	8.5	376.0
+10	8.9	375.6
1/4	8.4	376.1
cb	8.5	376.0
W	8.7	375.8

425' N.

W	8.1	376.3
cb	7.9	376.6
1/4	7.9	376.6
+7	8.3	376.2
e	7.8	376.7
1/4	7.5	377.0
cb	7.5	377.0
E	6.8	377.7

460' N.

E	6.1	378.4
cb	6.8	377.7
1/4	6.8	377.7
e	7.1	377.4

384.49

Illinois ST

31

+7	7.5	377.0
1/4	7.1	377.4
cb	7.1	377.4
W	7.7	376.8

500' N

W	6.9	377.5
cb	6.9	377.6
1/4	6.7	377.8
e	6.5	378.0
1/4	6.1	378.4
cb	5.8	378.7
+5	7.0	380.5
E	4.1	380.4

520' E

E	5.1	379.4
cb	5.5	379.0
1/4	5.6	378.9
e	6.3	378.2
1/4	6.3	378.2
cb	6.2	378.3
+4	6.0	378.5
W	5.1	379.4

384.49

545' N

W	5.9	378.6
cb	5.7	378.0
ly	5.7	378.8
c	5.9	378.6
ly	5.2	379.3
cb	5.0	379.5
E	4.7	379.8

570' N

E	3.3	381.2
cb	4.6	379.9
ly	4.8	379.7
c	5.2	379.3
ly	5.1	379.4
cb	5.4	379.5
W	5.4	379.1

600' LN = 5.21 m - Meade

W	4.3	380.2	
cb	4.48	380.01	ent. cl
gutter	5.18	379.31	pa. vent
ly	4.48	380.01	"
c	4.20	380.29	"
ly	4.09	380.40	"
gutter	4.12	380.37	"
cb	3.45	381.04	ent. cl Noyardarc
cb	4.2	380.3	yardage 2.5
E	3.3	381.2	

384.49

Illinois St

32

Cannon BM. N.W. Meade + Iowa

1.24 383.25 = 383.22

24.142

2.80 386.02

383.22 BM. NW  
Toward Meade

N.E. Return Meade - Ill.

N End Top cb 3.98 382.04

E " " " E Propine Ill. 4.01 382.01

S.E. Return

East End Return 4.89 381.13

S " " 5.02 381.00

S.W. Return

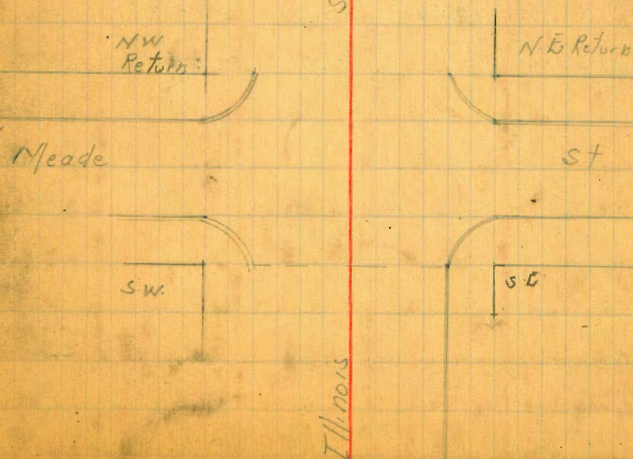
S. End Return 6.10 379.92

W " " 5.99 380.03

N.E. Return

W End W Prop Ill 4.99 381.03

N " " Meade 4.93 381.09



Mean High Water Line  
La Jolla Beach

33

MEBR	1.18	71.69		70.51	Sea Lane La Jolla Blvd
TD	0.91	59.91	12.69	59.00	
TP	1.09	48.26	12.74	57.17	
TP	0.20	25.61	12.85	35.41	
TP	0.78	43.63	12.76	29.85	
set B.P. near old Sea Lane on St Sea Lane Top Sea Wall			9.84	13.79	

20.06 = USCS  
-6.17  
13.94  
13.79 = CITY  
0.15 diff.

See page 14 this book.

for levels from

La Jolla Bathing Cove to Sea Lane

See page 1 this book for levels

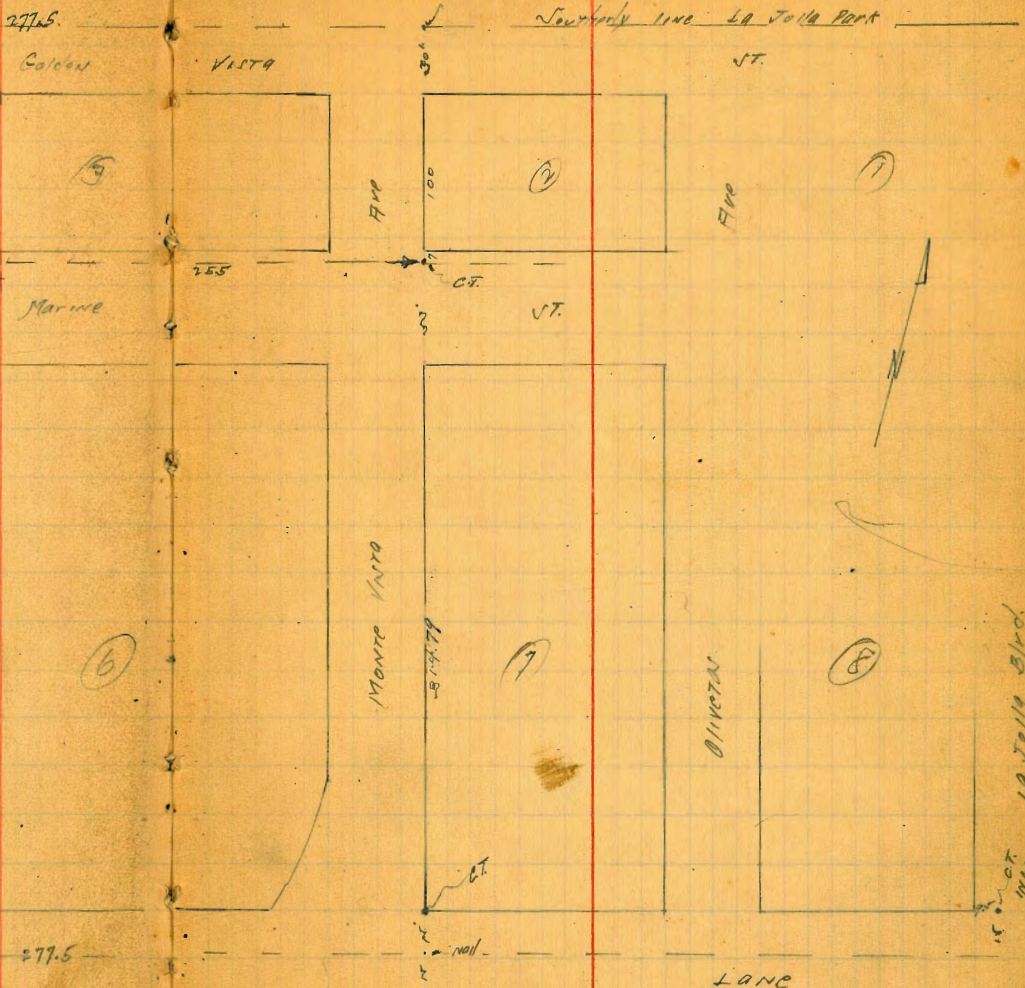
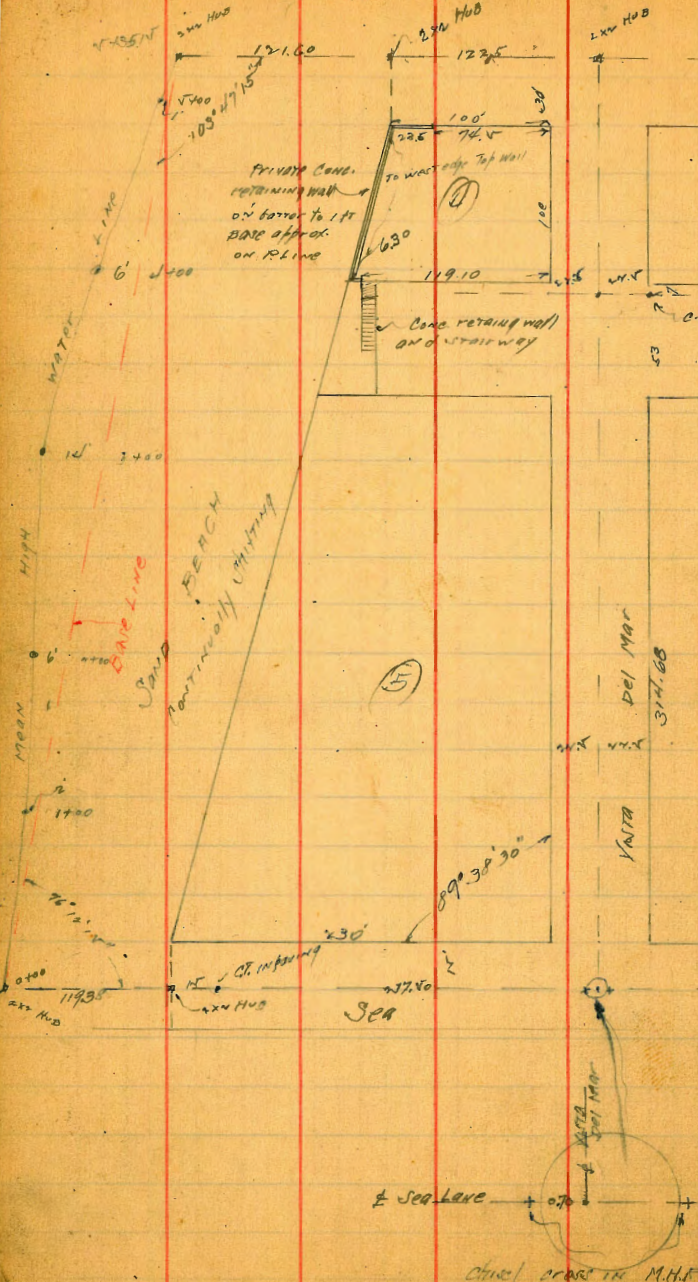
Biological Sta To La Jolla Bathing Cove

H.L. from page 14

23.01

T.P.	1.30	13.56	10.75	12.26
Mean High Water			11.54	2.02

Location of Mean High Water Line at La Jolla Beach



MOORE Flood 3/20/29  
Colquhoun Pearce

# Please Index

Indexed  
C.S.K.

Survey of N.L. of P.L. 1298

C. Moore and S.L. " 1312  
S. M. Meyer  
W. F. Moore

4-11-45.

Pacific Ocean

35

Fd. 6' 6" Post "Tom Shaw"  
on very edge of cliff  
see P. 6  
50' E.  
SET Con. Mon. P.O.T. Ref. PT.

N 89° 41' 10" W  
1406.57

1312

1298

3rd spike Ref. in Eucalytus  
SET Con. Mon. P.O.T.  
Fd. in Place 6-17-52 by C.B. Walker  
" " 1-13-55 " " " " 2' deep

1000'  
1000.26  
1000.5  
1-13-55  
C.B. Walker  
FB 2311  
for Addition  
7155  
on Producer  
1000'



Fd. Granite Mon. 10" deep

see Williams Survey

1311

see check survey of  
U.S. Defence Housing  
by Kneeland.

Pinus Rd.  
Fd. spike in Pav.

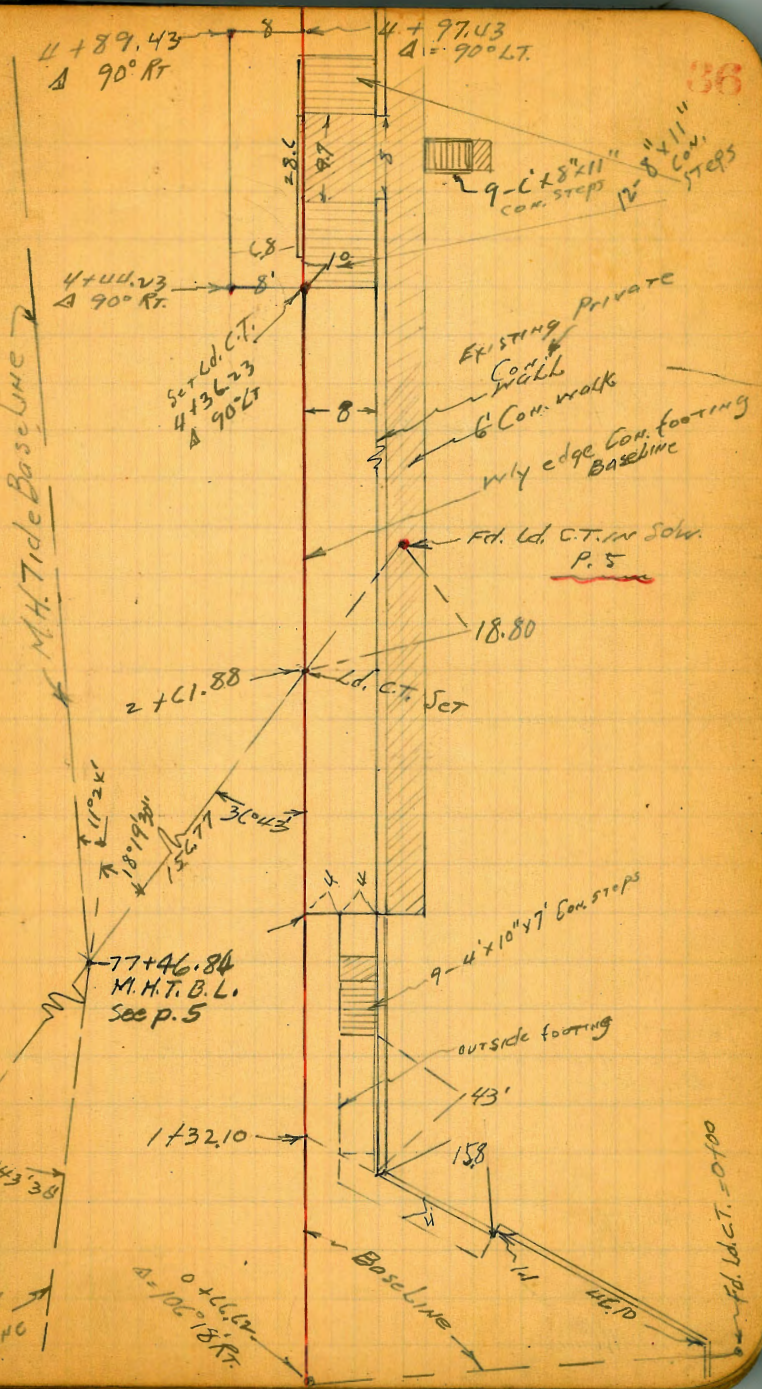
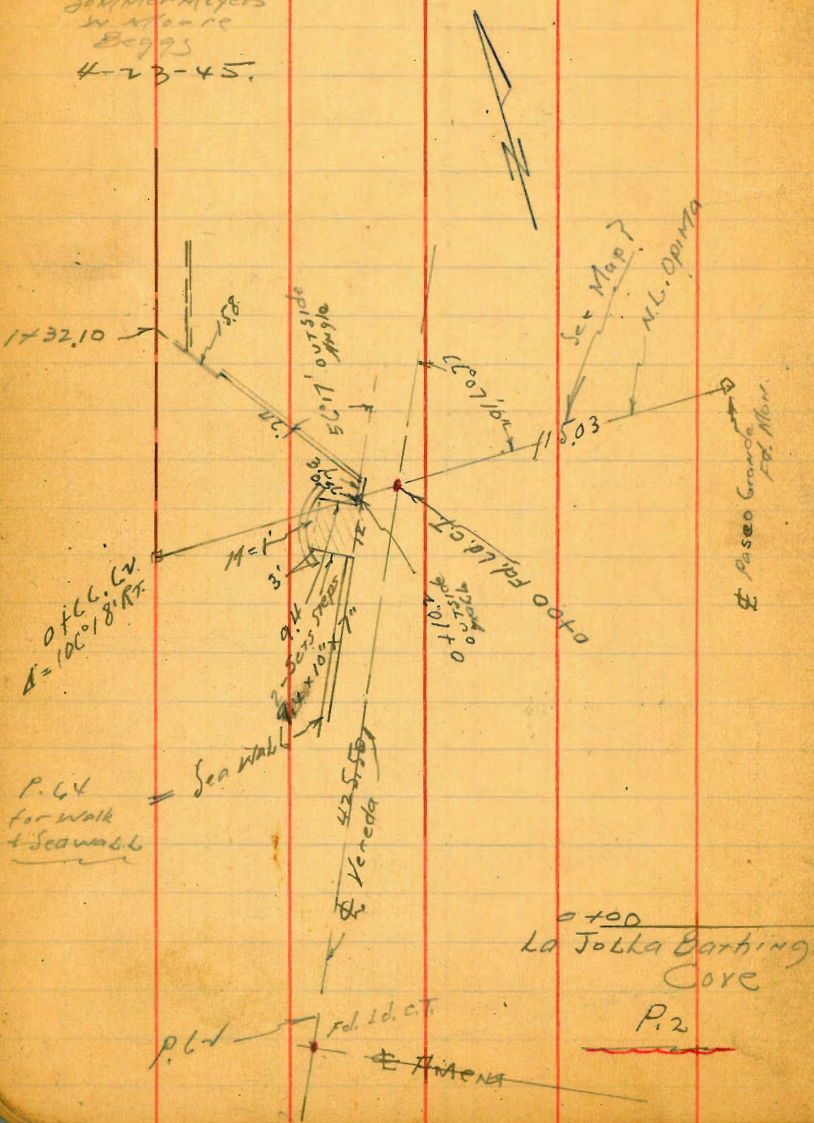
To river

1299

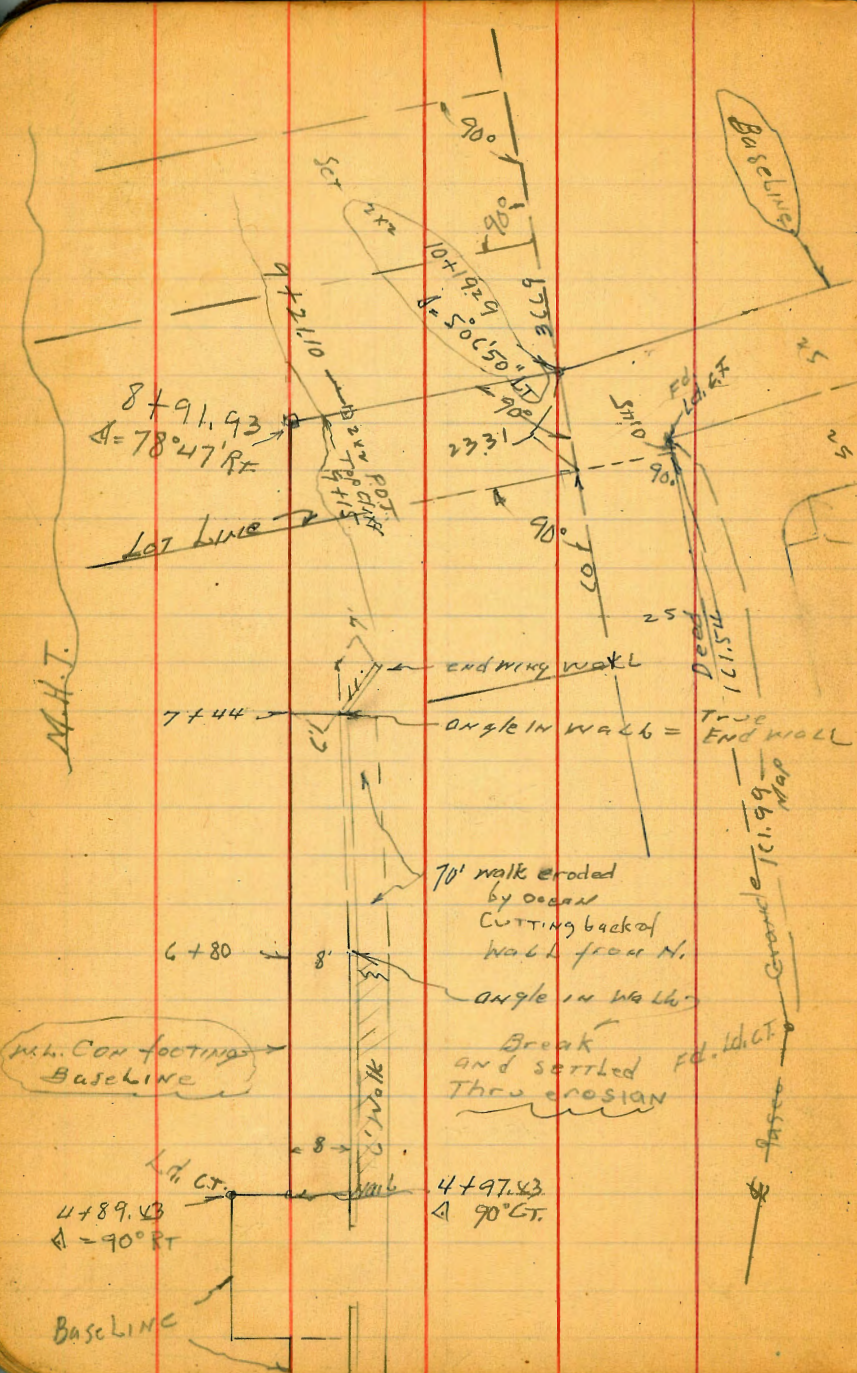
INDEXED  
C.S.K.

# Survey of Public Parks Proposed at La Jolla Shores

C. Moore  
S. M. Meyer  
W. Moore  
Boggs  
4-23-45.



M.H.I.



Baseline

Cottado

95°06'50"  
P.L.V

Grande 1819 Map

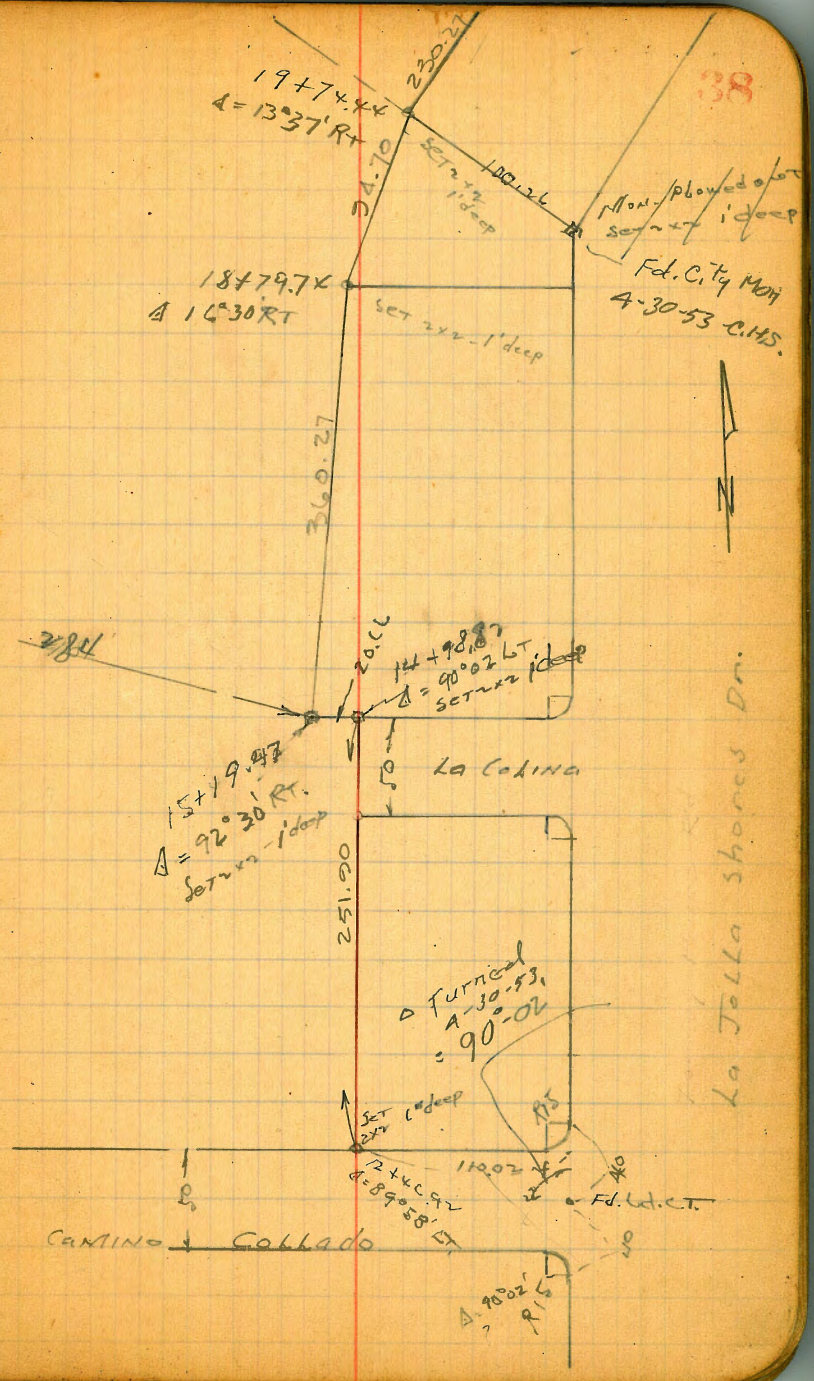
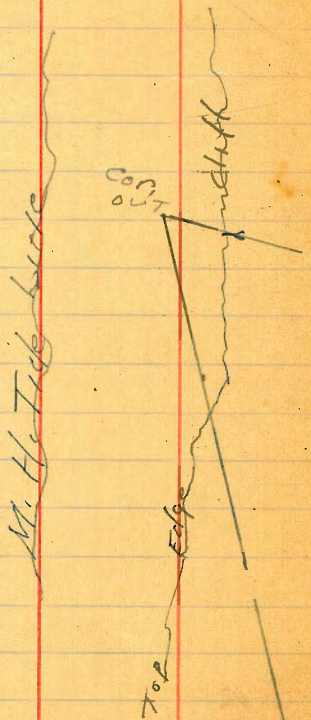
110.0v  
20.0v  
Fd. Id. CT.

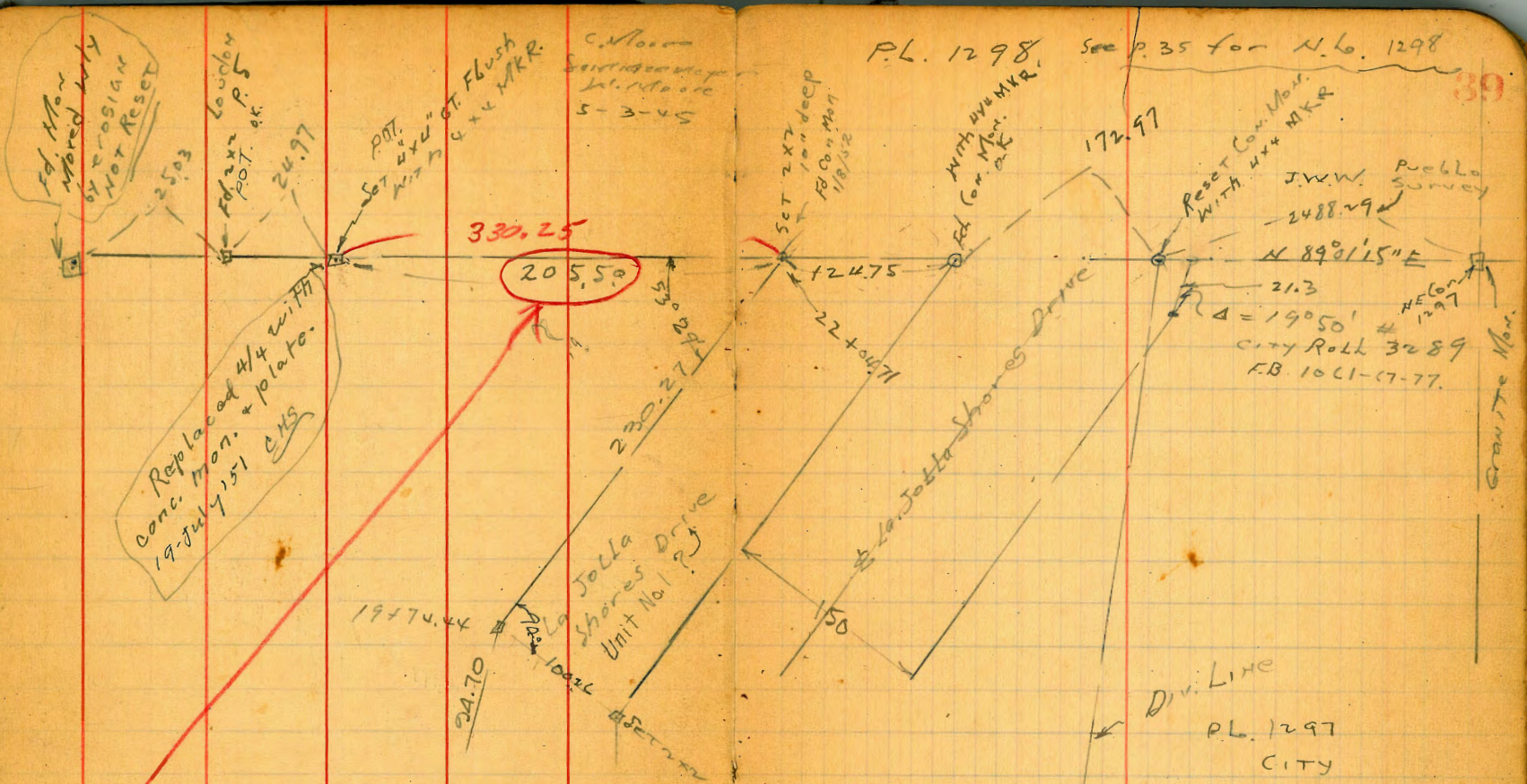
Set out 11/11/92  
12+46.9v  
Δ=89°58' LT

89°58'  
La Talla Shore 01/15/92

37







Should be 330.25

Checked 4/8/52 Sommermeyer  
D. Smith.







Bill Bliss  
 Overmit  
 Jacobszoon  
 Kiernan  
 March 23, 1929

X-Section Alley Block 63 Olive Hill  
 between Central + 41<sup>st</sup> Monroe to Meade

	+	H.I.	-	Elev	
BM	0.89	375.39		374.50	SWBP Thoms or 35 <sup>th</sup>
Set BM	6.92	376.46	5.85	369.54	SW1 <sup>st</sup> TK 39 <sup>th</sup> st
Set BM			3.82	372.69	SW1 <sup>st</sup> TK 90 <sup>th</sup>
TP.	3.84	374.31	5.99	370.47	
Set BM			4.44	369.87	SWBP Central Ave
Sec in Gutter Line of Monroe on Paving					
N Topcb.				4.93	
G on Street PC Return			5.33	368.98	
E of Alley Produced North			5.37	368.94	
TP.	3.30	372.93	<sup>68</sup> 4.46	369.63	
E Topcb			3.56	369.37	
E in Gutter Line of Street on PC Return			4.05	368.88	
at 100' E line of Monroe					
E Topcb		5	3.31	369.62	
G			3.81	369.12	
E			4.00	368.93	
G			3.70	369.23	
N Topcb			3.20	369.73	
			0+17		
N			3.8	369.1	
E			3.6	369.3	
E			3.5	369.4	
E Topwalk			3.18	369.75	
			0+93		
E Topwalk			3.68	369.25	

Plotted 4-1-29 C.B.H.

Meade  
 41<sup>st</sup> N.W. 367.74  
 Central 368.65  
 40<sup>th</sup> 369.89

	+	HI 372.93	-	Elev
E			3.9	369.0
E			3.9	369.0
N			4.3	368.6
+5			4.4	368.5
			0462	
-5			4.9	368.0
N			4.8	368.1
E			4.6	368.3
E			4.7	368.2
			0475 N. End 2 car Garage on East.	
	7.0 Back	concrete	4.50	368.43 ✓
			0490 S. End 2 car Garage on East.	
	7.0 Back	concrete floor	4.56	368.37 ✓
E			4.9	368.0
E			5.0	367.9
N			4.9	368.0
+5			5.0	367.9
			0497	
-5			5.9	367.0
N			5.7	367.2
+3			5.9	367.5
E			5.2	367.7
+5			5.9	367.5
+6			5.9	367.0
E			6.1	366.8
+5			6.3	366.6

	+	HI 372.93	-	Elev
			1407	
-5			6.4	366.5
E			5.9	367.0
+4			6.3	366.6
E			6.3	366.6
N			6.3	366.6
+5			6.2	366.7
			1427	
-5			6.5	366.4
N			6.7	366.2
E			6.6	366.3
E			6.9	366.5
+5			6.5	366.4
			1452	
-5			6.6	366.3
E			6.4	366.5
E			6.6	366.3
N			6.8	366.1
+5			6.6	366.3
			1477	
-5			6.3	366.6
N			6.6	366.3
E			6.8	366.1
E			6.7	366.2
+5			7.0	365.9
			1492	
+10			7.0	365.9

	HZ 37293		Eky
E		7.0	365.9
E		7.0	365.9
N		6.6	366.3
+5		6.3	366.6
		2102	
-5		6.2	366.7
N		6.2	366.7
+5		6.6	366.3
E		6.7	366.2
+4		7.0	365.9
E		6.8	366.1
+10		6.6	366.3
TP	2.79	371.13	459 368.34
		2117	
-10		4.8	366.3
+3		4.8	366.3
E		5.1	366.0
+6		5.0	366.1
E		4.5	366.6
N		4.3	366.8
+5		4.4	366.7
		2142	
-5		4.8	366.3
N		4.8	366.3
E		4.8	366.3
+2		5.1	366.0

	HZ 37113		Eky
E		5.1	366.0
+3		4.7	366.4
+10		4.7	366.4
		2152	
-10		4.7	366.4
E		4.5	366.6
+4		5.1	366.0
E		5.2	365.9
+4		4.5	366.6
N		4.3	366.8
+5		4.3	366.8
		2157	
-5		5.2	365.9
N		5.2	365.9
E		5.3	365.8
E		5.0	366.1
+2		4.6	366.5
+5		4.6	366.5
		2182	
-5		4.4	366.7
E		4.6	366.5
+3		5.1	366.0
E		5.0	366.1
N		5.2	365.9
+10		5.0	366.1



	HZ	-	Elev
	37113		
		2184	
-5		50	366.1
N		51	366.0
E		51	366.0
+4		52	365.9
E		46	366.5
-		3.4	367.7
		3702	
-2		39	367.2
E		46	366.5
+3		50	366.1
E		50	366.1
N		49	366.2
+5		52	365.9
		3727	
-5		51	366.0
N		49	366.2
E		49	366.2
E		50	366.1
+2		47	366.4
+5		35	367.6
		3740 Ma. Hole	
		4.99	366.19
-2		3.8	367.3
E		47	366.4
E		46	366.5

on E. Rim

	HZ	-	Elev
	37113		46
+5		46	366.5
N		49	366.2
+5		50	366.1
		3777	
-5		46	366.5
N		48	366.3
E		50	366.1
+5		50	366.1
E		44	366.7
-		3.8	367.3
		4702	
-		3.8	367.3
E		39	367.2
+3		46	366.5
E		46	366.5
N		46	366.5
+5		45	366.6
		4720	
-5		45	366.6
N		46	366.5
E		46	366.5
+6		45	366.6
E		3.8	367.5
+2		3.6	367.5
		4725	
-2		45	366.6

	+	HI 371.13	-	Elev
E			4.5	366.6
☉			4.6	366.5
W			4.5	366.6
			412	367.01
			414.5	367.08
			415.2	
W			4.5	366.6
+4			4.5	366.6
☉			4.2	366.9
E			4.1	367.0
			3.95	367.18
			4.0	367.1
☉			4.0	367.1
W			4.2	366.9
			510.2	
W			4.0	367.1
+2			3.9	367.2
+5			3.7	367.4
☉			3.7	367.4
+3			3.8	367.3
E			4.1	367.0

	+	HI 371.13	-	Elev
			5121	367.27
			5132	367.2
			5152	367.6
			5152	367.5
			5152	367.6
			5152	367.4
			5152	367.4
			5152	367.6
			5152	367.8
			5152	367.9
			5152	367.8
			5152	367.94
			5171	368.04
			5171	367.6
			5171	367.8
			5171	368.0
			5171	368.0
			5171	367.6
			5171	367.5

+ H.F. 372.55 - Elev

E Top cb			4.55	368.03
			Sec on Curbline of street	
E Top cb			4.88	367.90
W Top cb			4.62	367.96
Paving on N Line of Made W Line of 91 <sup>st</sup>			5.53	367.05
Paving on N Line of Made E Line of Central			4.93	367.65
T.P.	546	373.86	4.18	368.40
	501	374.83	4.04	369.82
	542	379.72	0.53	374.30
check out on starting BM			5.21	374.51
				374.50
				0.01

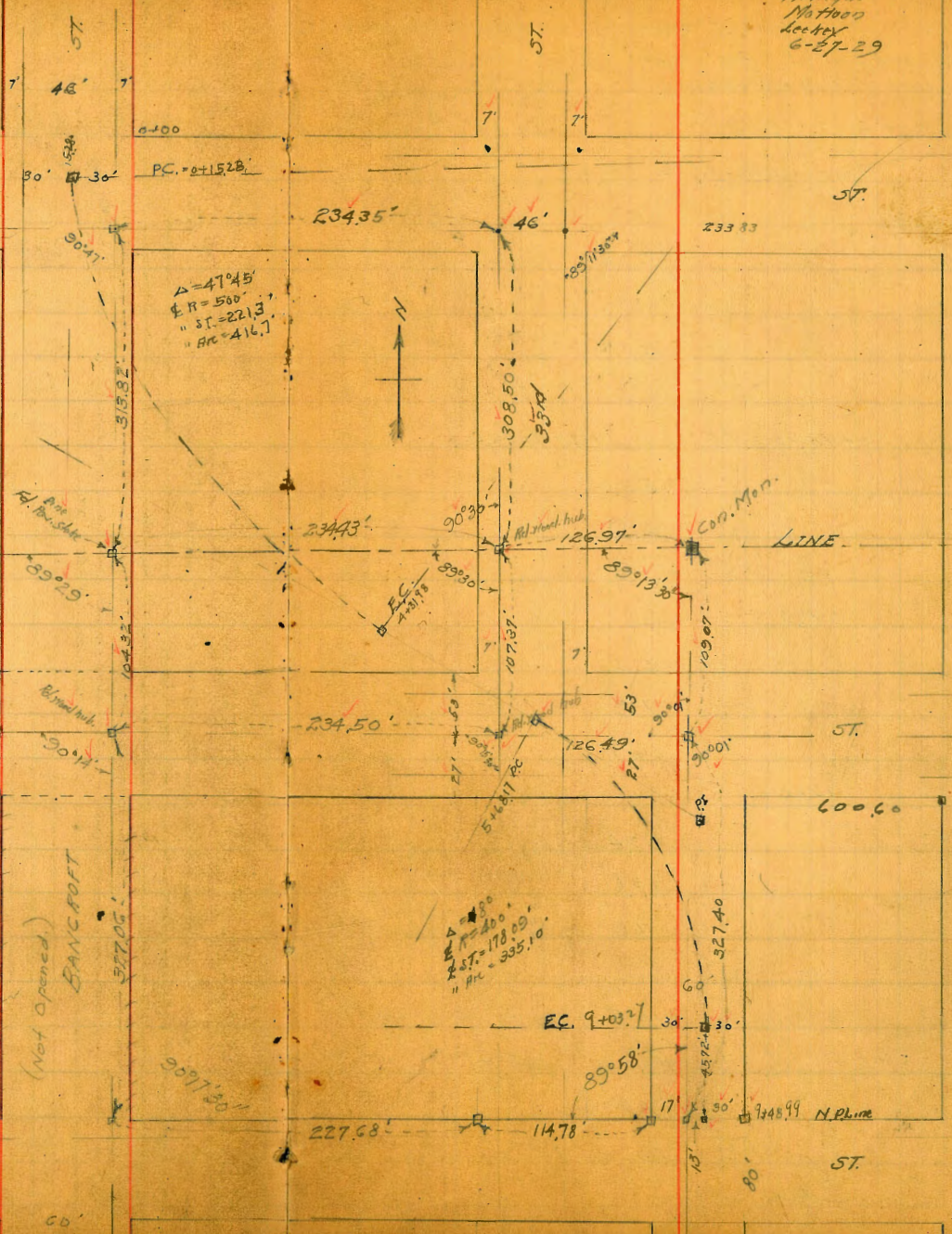
57

SURVEY FOR 3324  
AND BANCROFT ST  
OPENING

1/6 Ac  
17x High  
No 1000  
Lecty  
6-27-29

57 49

175H



for file use  
77504 19-53

No. 100  
No. 100  
No. 100  
Leaky 6-28-27

LEVELS on Property <sup>2d Ed.</sup>  
of Proposed opening as located on P. 59  
Levels are for st. 80' wide  
Notes & stations.

603 198.87 122.84 <sup>NE. 120.</sup> 157+33rd

S.W. Sub St. = 0+00

E		2.8		
E+20 = Ecb.		5.34		
L		6.4		
+20 = Xcb.		7.33		
X		6.9		
	0+15.28 = PC	L 47°45' L R = 500'		
X		8.0		
L		6.9		
E		3.6		
	0+50			
E		5.5		
L		7.9		
X		16.7		
	1+00			
X		23.4		
L		13.6		
E		7.8		
	1+50			
E		14.5		
T.P.	0.56 186.37	138.6	185.81	
L		7.8		
X		19.0		
	2+00			

186.37

50

X		20.2		
L		12.6		
E		7.2		
T.P. 229	175.89 130.7		173.30	
	2+50			
E		10.4		
L		6.8		
X		17.1		
	3+00			
X		16.3		
L		8.1		
E		2.5		
	3+50			
E		1.9		
L		5.7		
X		11.0		
	4+00			
X		8.3		
L		4.3		
+17 = opp. S.W. Cor Garage		2.9		
E		1.3		
+2 = " NE " "		1.1		
+7 = " S.W. " House		1.0		
	4+31.98 = E.C.			
E		2.8		
L		5.4		

17559

Y.			8.8	
T.P.	0.70	163.49	12.80	162.79
		5+21		
Y			3.3	
L			2.9	
E			3.1	
		5+68.7 = PC. RA. 48.9		
E.			11.5	
L			15.0	
Y.			10.9	
T.P.	1.19	152.20	12.48	151.01
		6+00		
Y			1.1	
L			10.3	
+3			7.4	
E			+1.0	
		6+50		
E			+2.6	
L			4.6	
+21			12.8	
Y			8.5	
		7+00		
Y			15.4	
+7			18.4	
+25			7.1	
L			4.7	

15220

51

E			+2.0	
		7+50		
E			7.7	
L			8.8	
+10			10.0	
Y.			21.7	
+5			18.7	
		8+00		
T.P.	267	142.58	12.29	139.91
Y			10.7	
L			6.1	
E			+2.3	
		8+50		
E.			+2.3	
L			2.9	
+15			5.4	
Y			12.4	
		9+03.27 = EC.		
Y			11.5	
L			4.4	
E			+1.2	
		9+48.99 = NL. B St.		
E			+2.3	
L			1.9	
		3751 Produced N.Y. Pop. 146. 33rd + B.		
		Chk. 00 Sissons. G.M. Book 1320-1	15.8	
Y			5.8	

1750  
12787 = 82  
0.1

1/20/24  
London

check Elev of Garage etc in Alley  
between Central & 41st Moade to Monroe

B.M. 3.21 373.18 369.89  
B.M. 4.52 368.66

N eb line Moade  
E.L. top eb 5.09 368.09  
E.L. gut 5.61 367.57  
± gut 5.63 367.55  
W.L. gut 5.60 367.58  
W.L. top eb 5.03 368.15

1+00 = N.L. Moade

W.L. top eb 4.95 368.23  
W.L. Pav 5.16 368.02  
± Pav 5.42 367.76  
E.L. Pav 5.10 368.08  
E.L. top eb 4.96 368.22  
T.P. 4.52 372.24 5.46 367.72

0+50 = S end of 5 car garage 0.35' East

4.82 367.42

0+80 = ± same garage

4.90 367.34

1+10 = N end same garage 0.22 East

4.88 367.36

1+20 = S end 2 car garage 6.7 East

5.05 367.19

1+40 = N end same garage 7.0 East

5.06 367.18

372.24  
T.P. 7.10 373.44 5.90 366.34

4+78 = S end 2 car garage 6.7 East  
4.92 368.52

5+00 = N end same garage 6.8 East  
4.84 368.60

5+72 = S.L. Monroe

E.L. top eb 3.61 369.83  
E.L. Pav 4.09 369.35  
± Pav 4.29 369.15  
W.L. Pav 3.99 369.45  
W.L. top eb 3.49 369.95

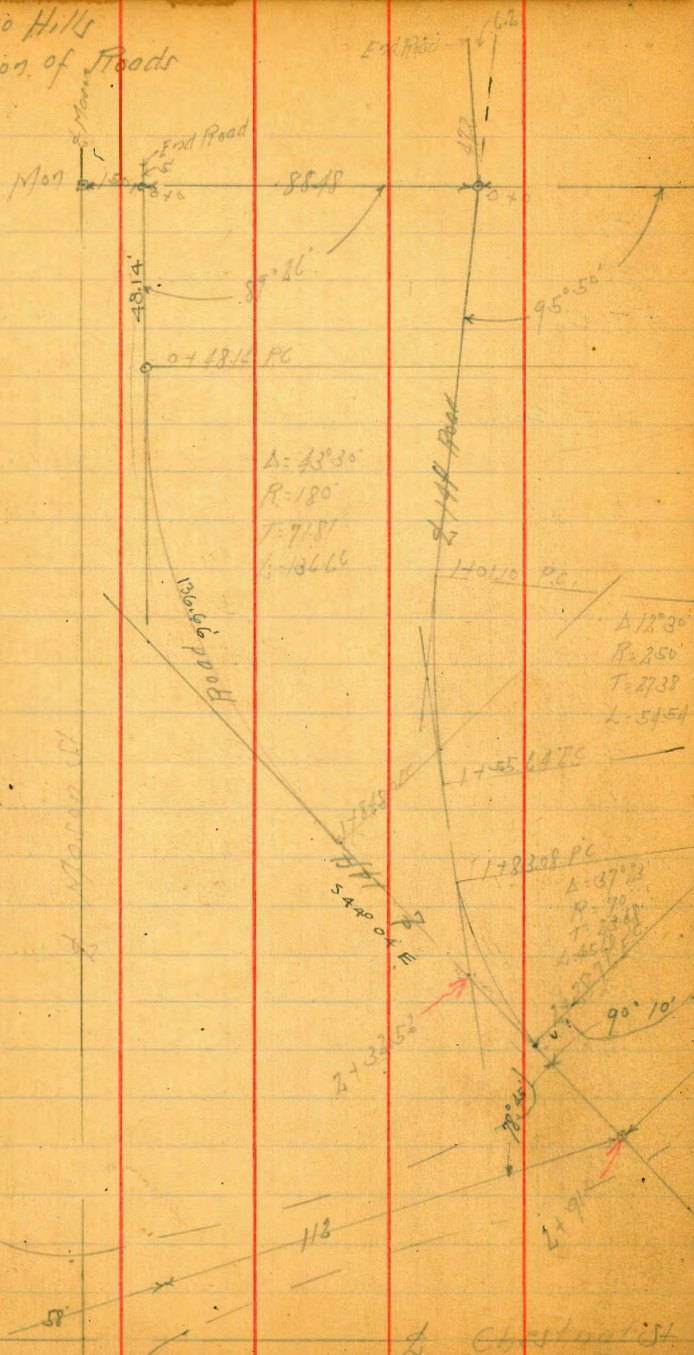
S eb line Monroe

W.L. top eb 3.83 369.61  
W.L. gutter 4.26 369.18  
± gut 4.30 369.14  
E.L. gut 4.30 369.14  
E.L. top eb 3.86 369.58

T.P. 4.88 374.49 3.83 369.61

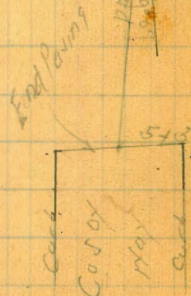
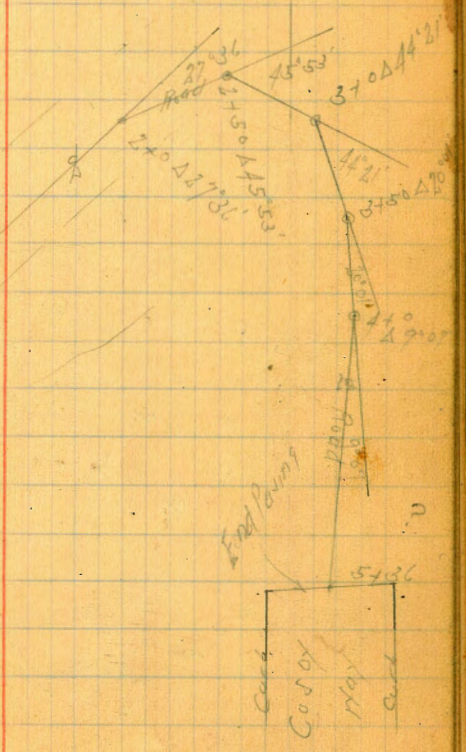
B.M. NW Central Moade 5.81 368.68

Presidio Hills  
Location of Floods



11-20-29  
Survey  
of  
Northern

24672 & Hickory St



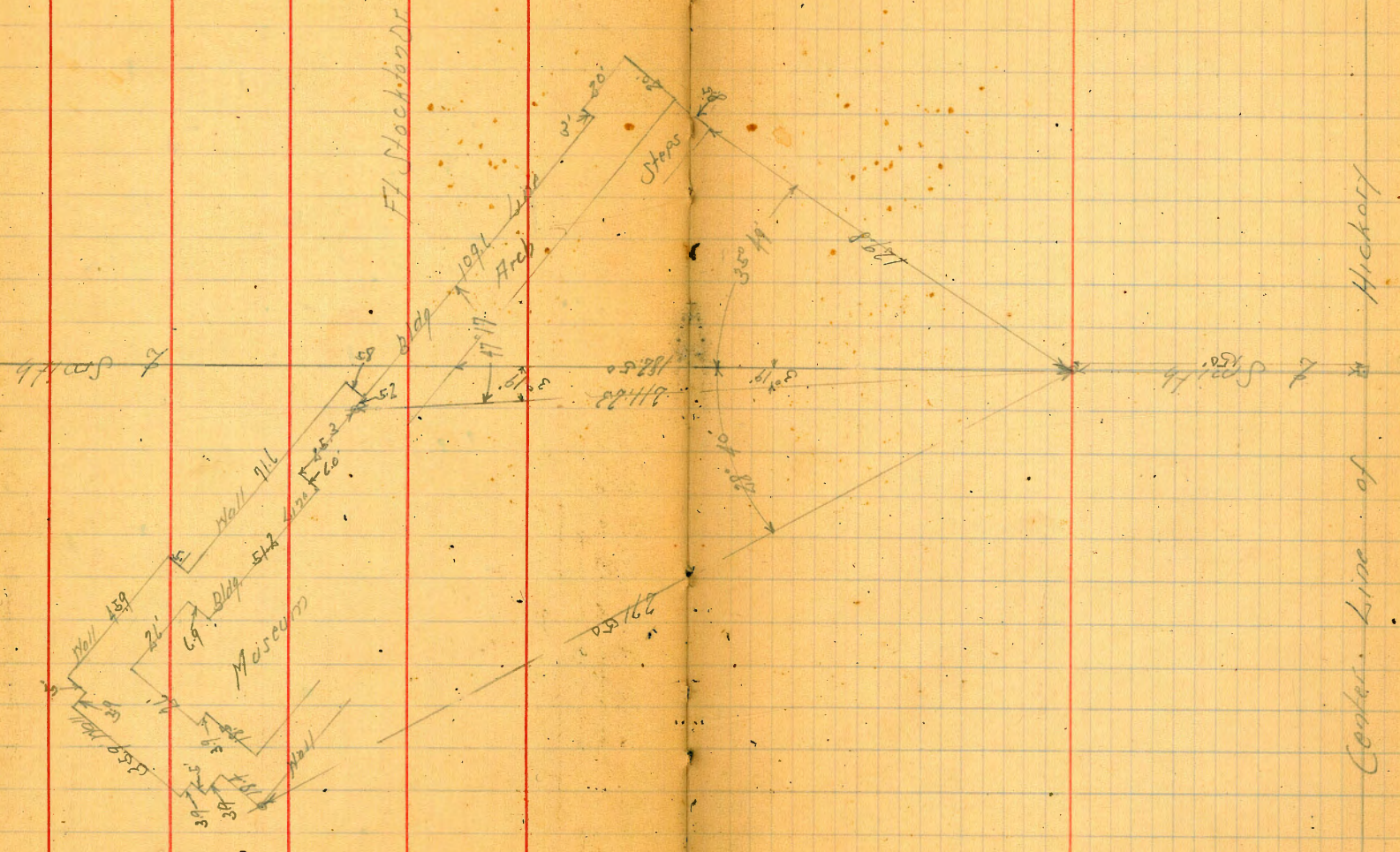
Charleston St



Pradío Hills  
Location of Museum

Mason

11-20-39  
54



Stockton

Cook's Line of Hickory



H St. Cross Section

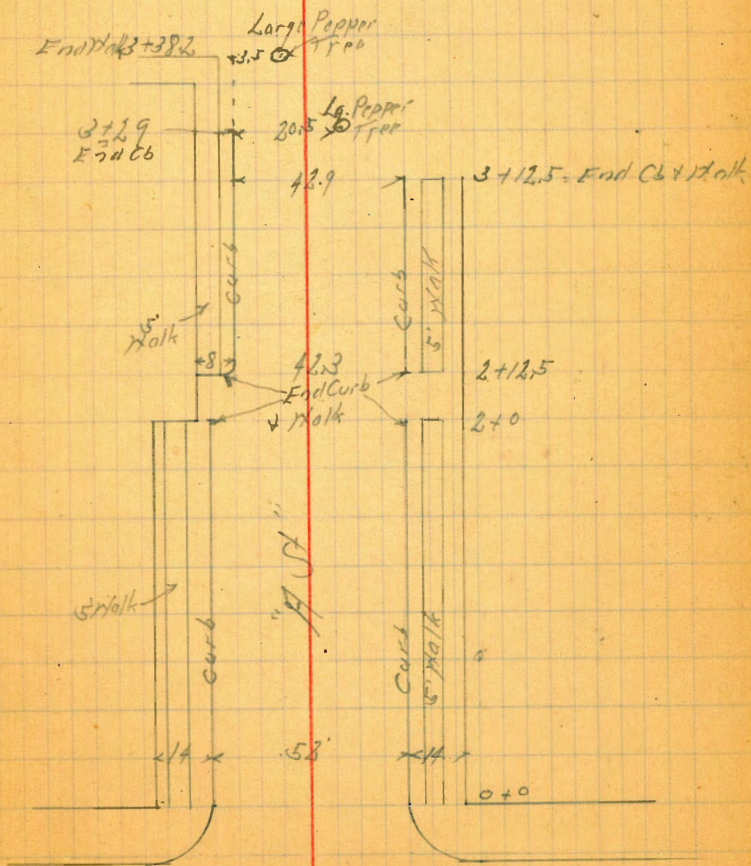
18th St 40.345' East

80' Wide  
11' Cb  
13' 9" S

N.F. 80  
B x 18"

BM	12.76	80.83	18.07
TP	8.98	59.77	80.77
		E 18th St	
S		39	
Cb Top		430	
Gutter on Pav. top		494	
"		455	
"		443	
"		457	
Gutter		494	
C.T.P.		430	
N		39	
		15 E of E. 18th St	
N		58	
Cb top		605	
Gutter		66	
"		62	
"		60	
"		62	
Gutter		64	
Cb Top		598	
S		55	
		50' E	
S		70	
Cb Top		751	

56  
11.25.29  
5.00.00  
4.14.00  
10.11.00  
Remainder



18th

St

8977

Gutter	81
1/4	81
L	79
1/4	82
Gutter	85
Cb Top	777
H	76
75 F	
H	91
Cb Top	949
Gutter	102
1/4	99
L	96
1/4	98
Gutter	97
Cb Top	913
S	862
160 F	
S	99
Cb Top	1073
Gutter	114
1/4	116
L	114
1/4	117
Gutter	119
Cb Top	1128

57

8977

H				10.9
125 F				
H				126
Cb Top				130.0
Gutter				137
1/4				136
L				130
1/4				133
Gutter				132
Cb Top				1346
S				121
TP	118	7874	1221	7756
150 F				
S				27
Cb Top				287
Gutter				37
1/4				37
L				38
1/4				38
Gutter				42
Cb Top				372
H				20
175 F				
H				47
Cb Top				545
Gutter				50

78.74

1/4	50
1/2	51
1/4	51
Gutter	50
Cb Top	455
S	46
200'E - End of Cb & Hall 1145 527' Roadway	
S	51
Cb Top	615
Gutter on Flat Line of Inlet	738
1/3	58
1/4	57
1/2	55
1/4	54
Gutter	56
Cb Top	716
H	54
212.5E 425' Roadway	
H	51
Cb Top	582
Gutter	58
1/4	55
1/2	57
1/4	59
Gutter	60
Cb Top	556

78.74

58

S	51	
225'E		424' Roadway
S	57	
Cb Top	576	
Gutter	64	
1/4	61	
1/2	58	
1/4	51	
Gutter	59	
Cb Top	579	
H	51	
256'E		425' Roadway
H	54	
Cb Top	561	
Gutter	59	
1/4	58	
1/2	58	
1/4	63	
Gutter	67	
Cb Top	601	
S	58	
275'E		466' Roadway
S	60	
Cb Top	631	
Gutter	68	
1/4	64	

7874

S	60
H	60
Gutter	61
Cb Top	54.4
H	52
300 F	50
H	50
Cb Top	52.1
Gutter	59
H	58
S	60
H	64
Gutter	70
Cb Top	64.1
S	61
312.5 F = End Cb + Deck on 1st Roadway	
S	63
Cb Top	65.4
Gutter	72
H	66
S	61
H	57
Gutter	55.1
Cb Top	57.5
H	56

329 F = End Cb on H

422.8 F

59

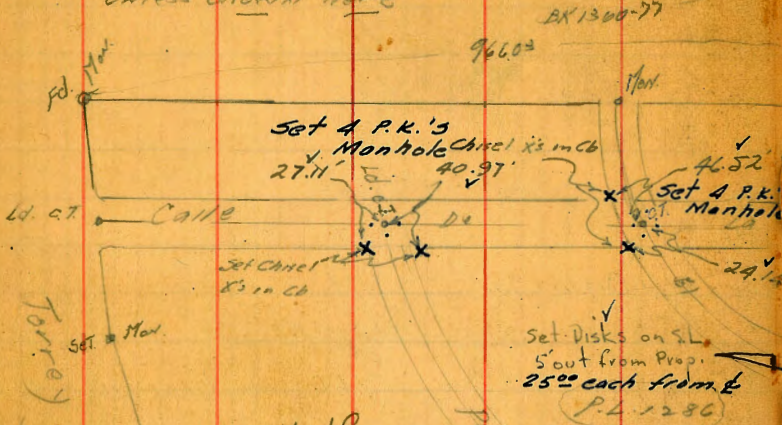
H	47
Cb Top	49.6
Gutter	49
H	53
S	54
H	55
H	57
Cb - Edge Corq Iron Stud	184
338.2 F = End Walk on H	
5 Cb - Edge Corq Iron Stud	14.5
H	16.1
T	513
777.2	6.5
725.9	
S	38
H	3.0
Cb	2.4
+3 - Edge Walk	243
H on Core	20.5
345 F	
H	14
Cb	2.6
H	7.1
S	11.3
H	14.4
Cb	14.4

La Jolla Stores & Tie Pts.

Sheet #1

See map for  $\Delta$  & cross.

unless shown here

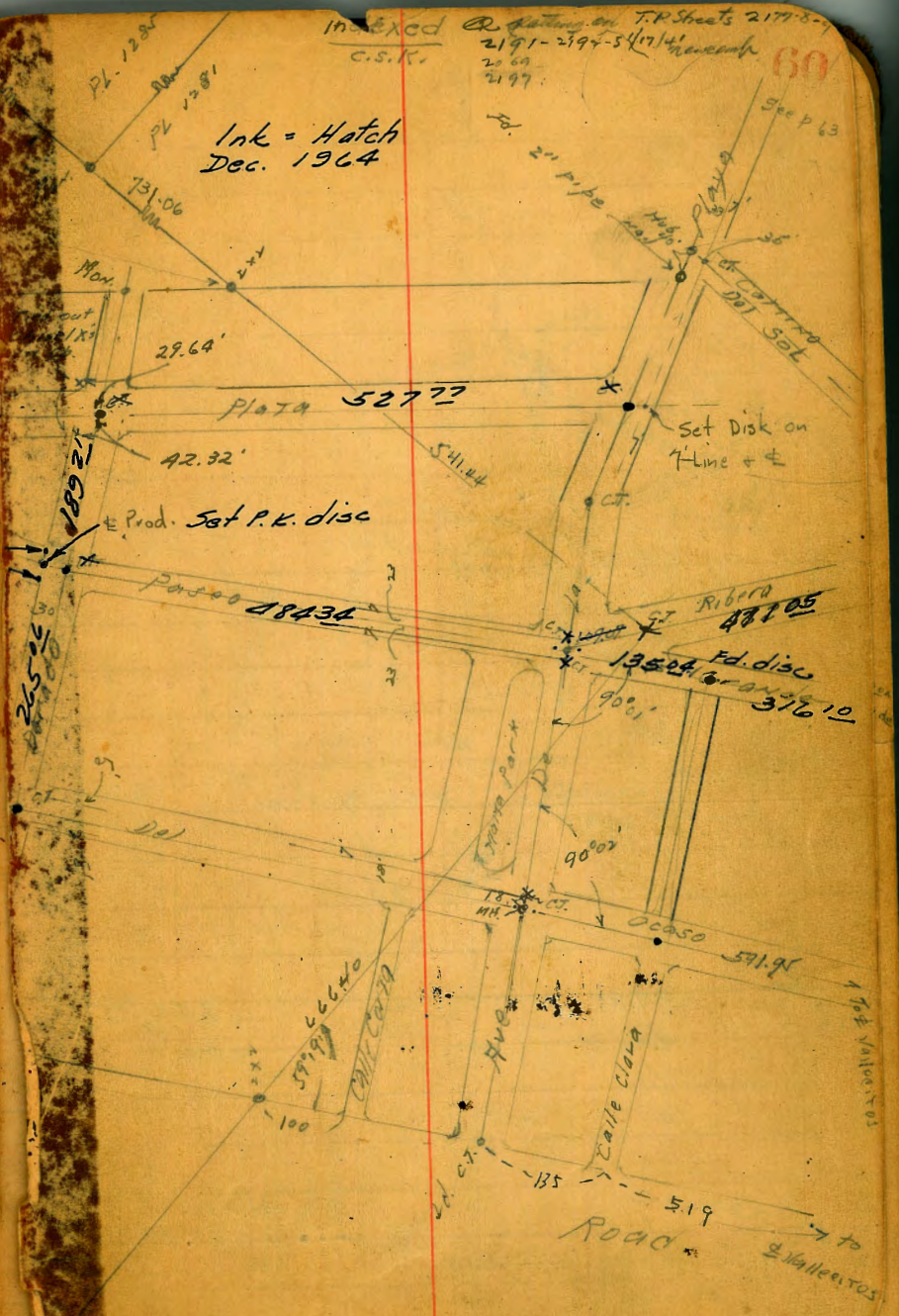


316.10  
 135.04  
 ---  
 451.14

362.21  
 109.03  
 ---  
 471.28

Indexed @ Station on T.P. Streets 2177-5-1  
 C.S.K. 2191-2194-5/17/41  
 2069  
 2197.

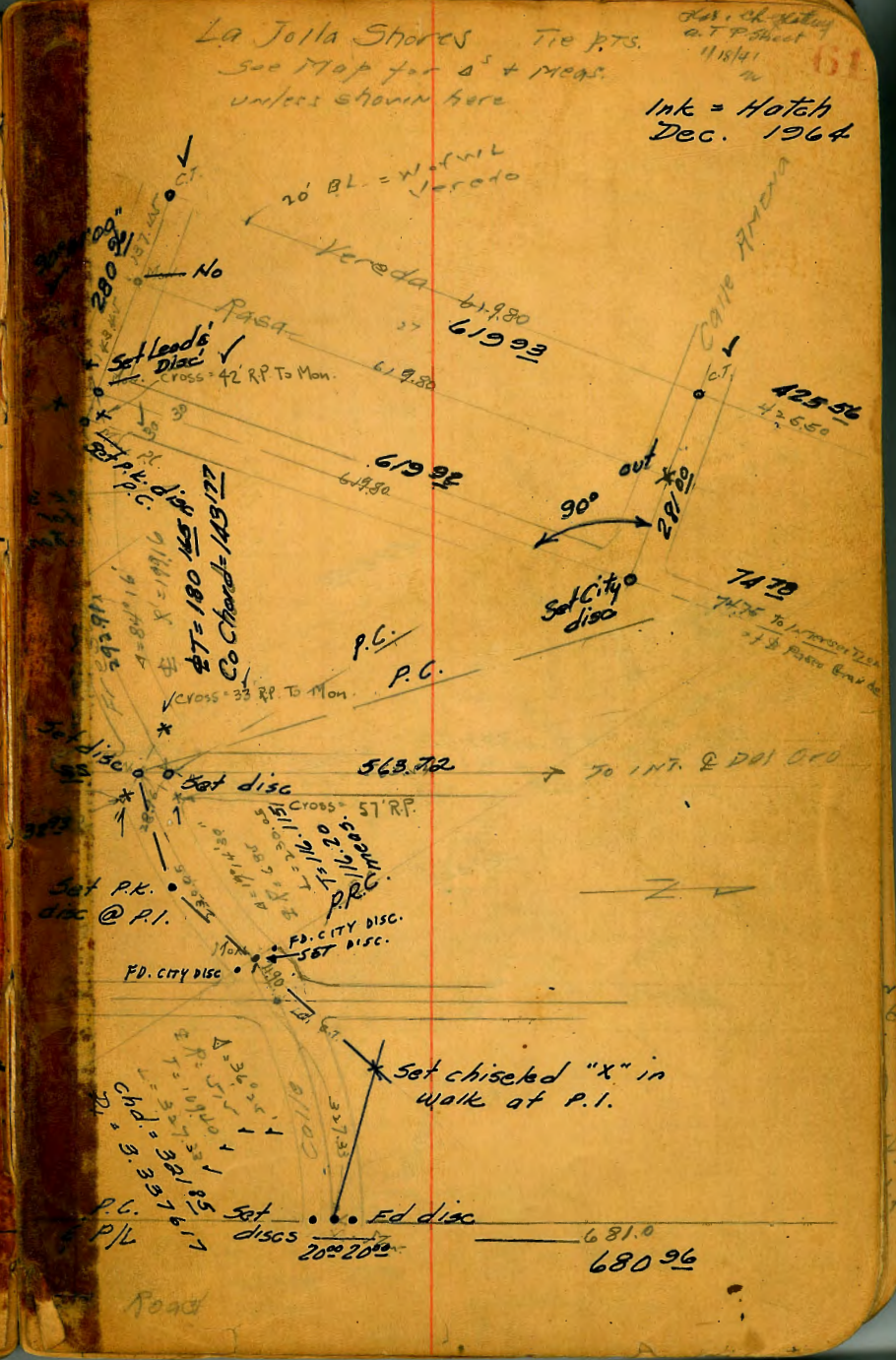
Ink = Hatch  
 Dec. 1964



316.10  
 135.04  
 ---  
 451.14

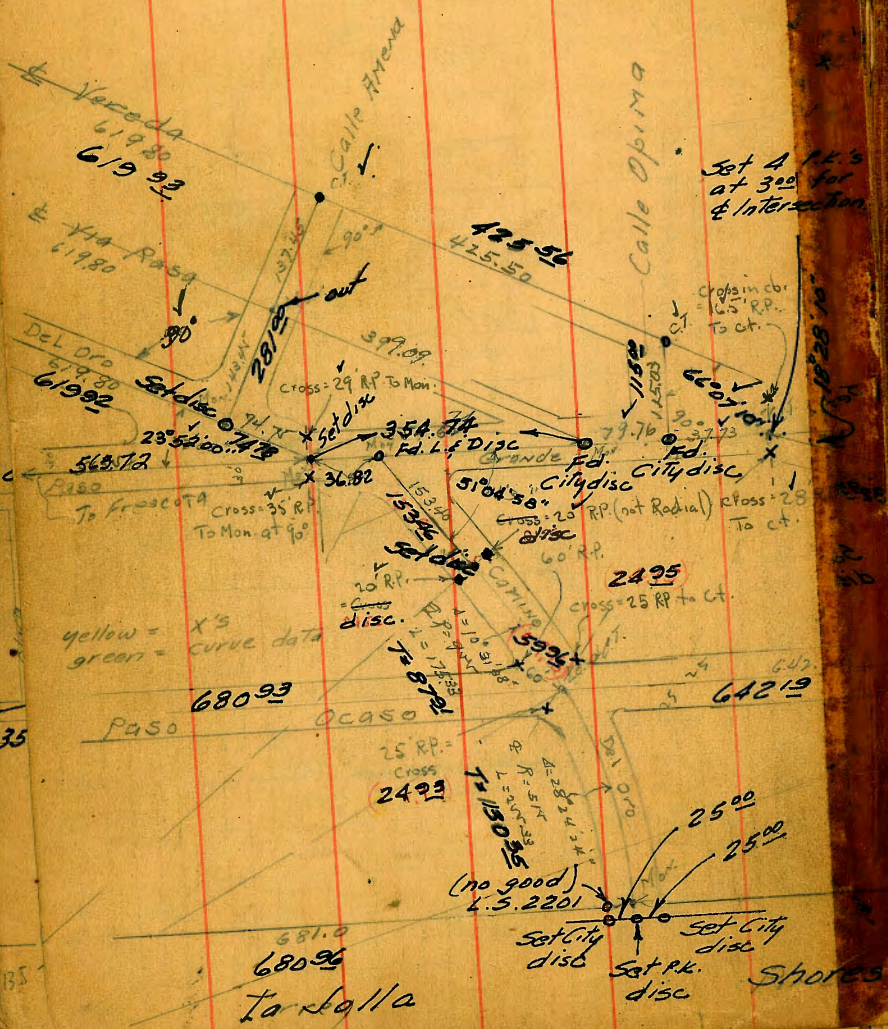
See p 63

to Vallejos





La Jolla Shores TIC PTS  
 See Map for  $\Delta$  + meal.  
 unless shown here ✓



Set 4 P.K.'s  
 at 300' for  
 & intersection

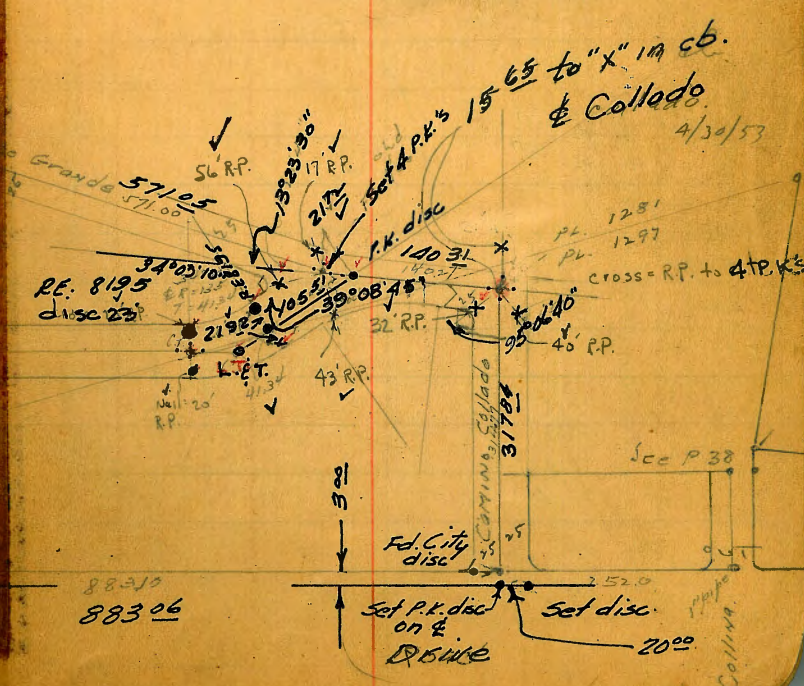
yellow = X's  
 green = curve data

To Jolla

Plot of stationing  
 sheets 118/41  
 20

62

Ink = Hatch  
 Dec. 1964

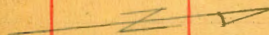


Set 4 P.K.'s 15' 65" to "X" in cb.  
 & Collado  
 4/30/53

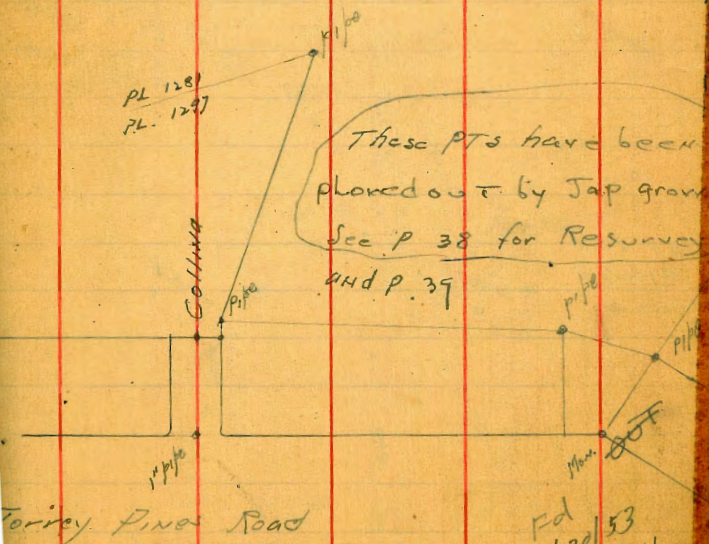
See p 38

Collado

La Tolla Storos tie pts.



PL 1287  
PL 1297



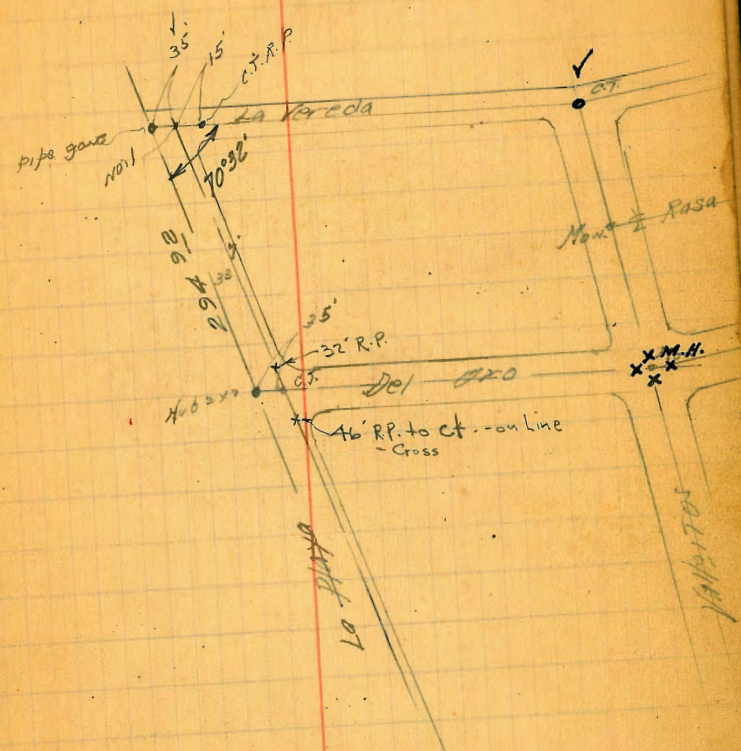
Torrey Pines Road

Ed 1/30/53  
C.M.H.

N.Y. PL 1297

NOTES

Plate of plotting out P. Shee  
1/18/41  
22



Calif. State  
Sly. PL 1298  
Biological Station

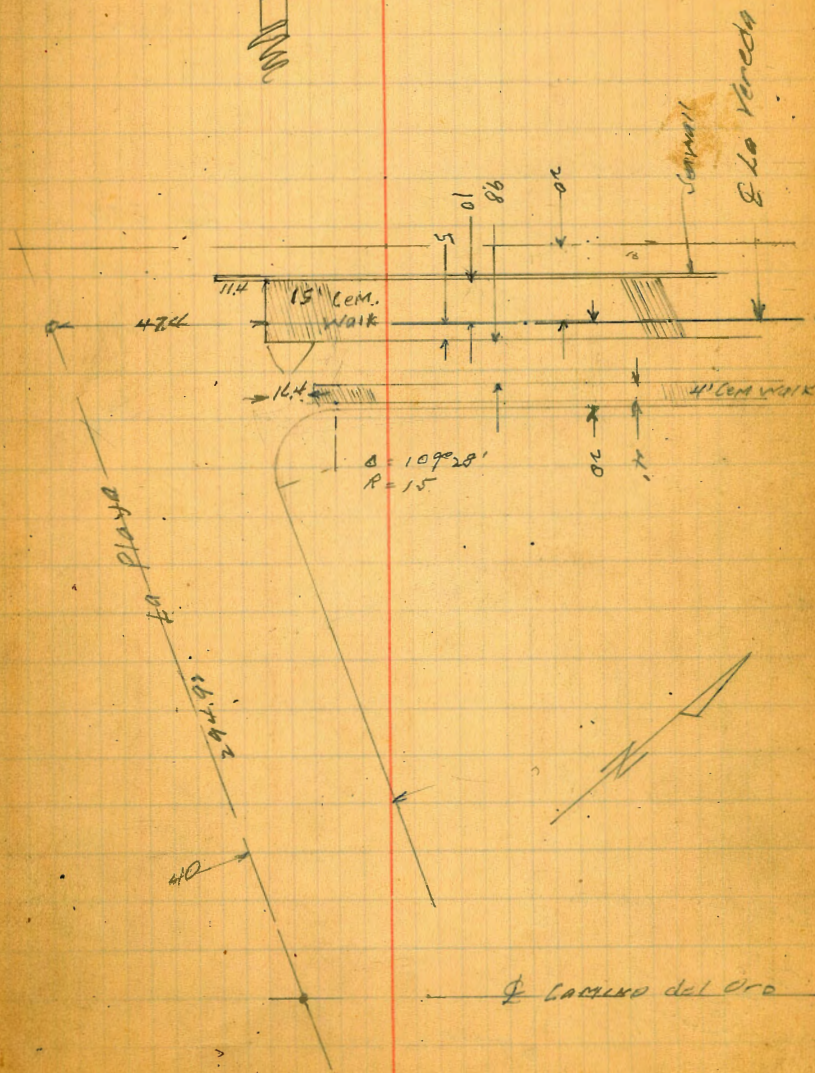
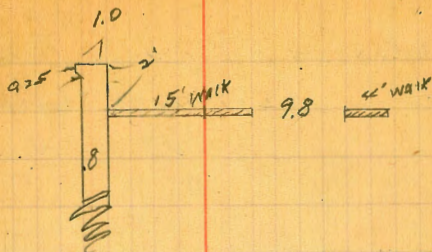
Man. Ed. OK.  
5-3-45

Location of Sea Wall + Sidewalk  
at La Jolla Shores

Moore  
4-6-39

Indexed  
C.S.K.

64



indexed  
C.S.K.

# Opening of Pasco Dorado Calle Plata to Sinderite Dr.

Moore 7-5-39  
Sisson  
Northern

For  
Note: Additional notes  
8 Cross Sections  
See FB 1778

Note!  
E Sta.

$A = 41^{\circ} 18'$   
 $R = 348.18$   
 $T = 137.76$

↑  
Cable Car  
Drain to Pond

136.49

Grate

572.7

Pasco

Grate

5728.50

BC

65

3-8" Pipe or less  
to Pond

add  
BING

curved Drains

Calle Plata

R 151.99  
L 121.91

Dorado  
L

Nail  
2129.30

Nail  
2174.49

45.19

$45^{\circ} 57' 20''$

$50^{\circ} 44'$

R = 121.99

L = 57.82

T = 108.02

83.58

121.28

121.28

0491

89.97

to ST

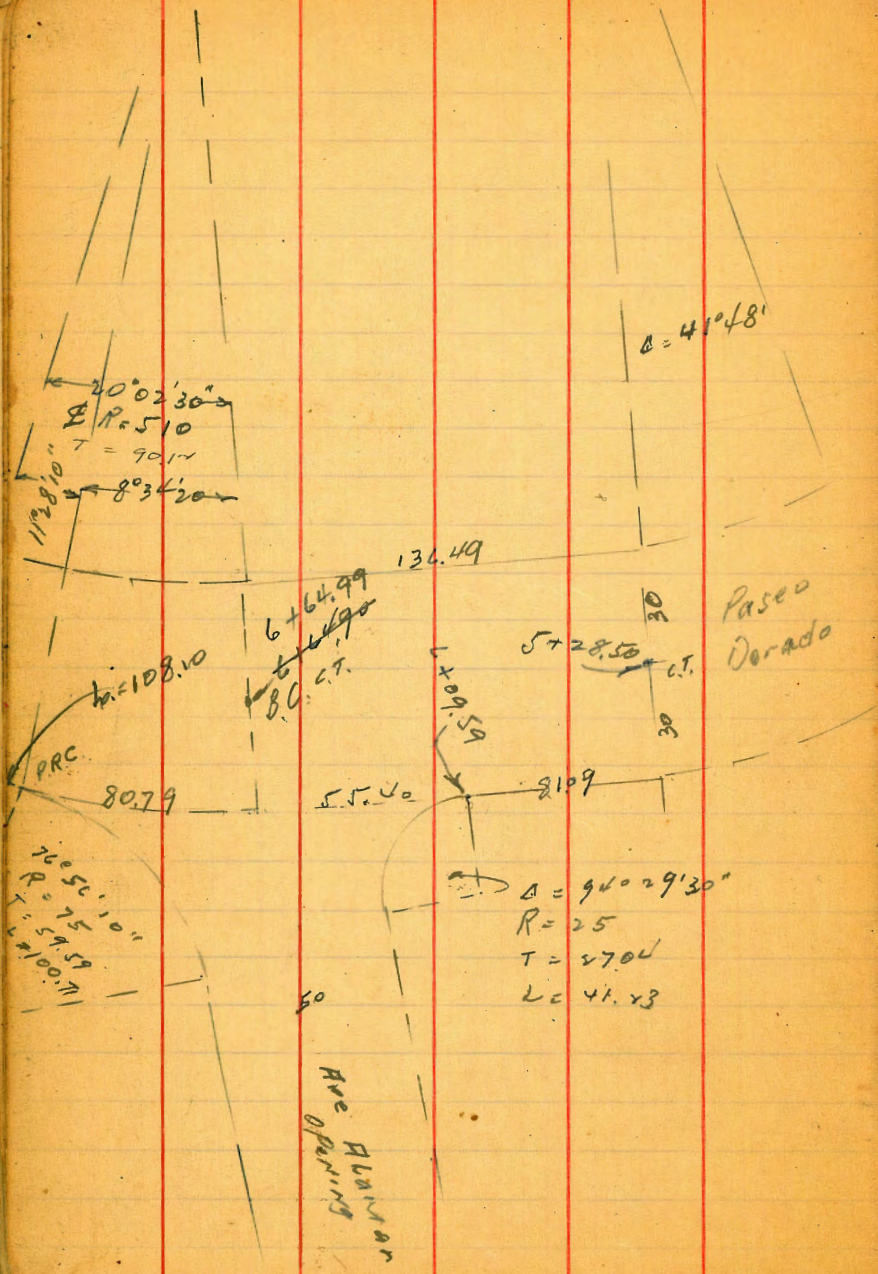


Lowery

See Profile

Paseo Dorado

66



$\Delta = 41^{\circ}48'$

Paseo Dorado

$\Delta = 94^{\circ}29'30''$   
R = 25  
T = 27.04  
L = 41.23

Ave. Alvarado

Paseo Dorado

12 + 41.93 = Meas. Egu.

12 + 41.98 = Profile + opening

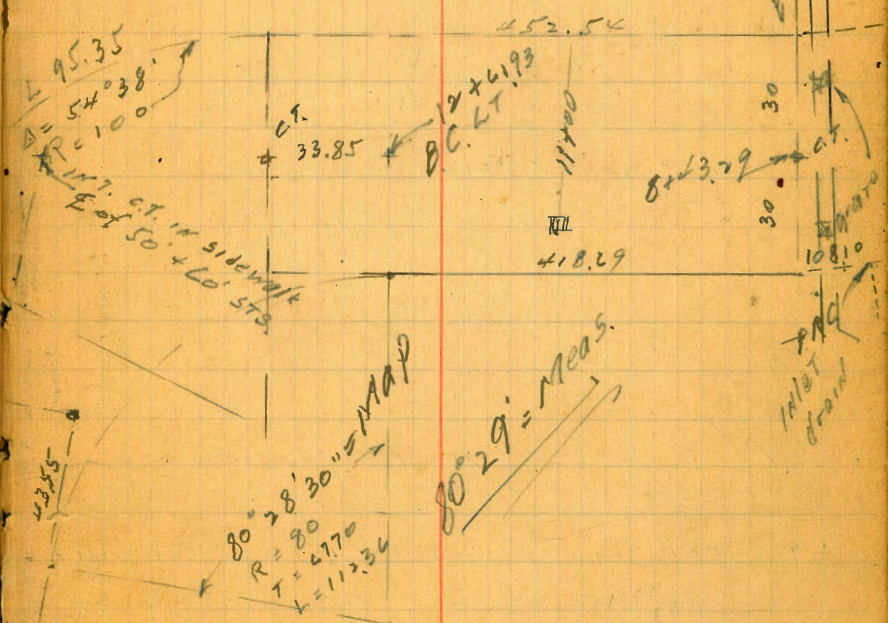
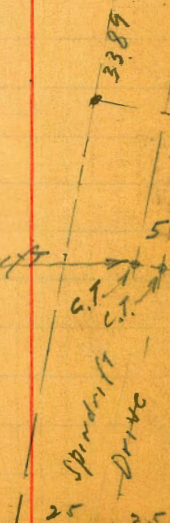
Meas  $\Delta = 80^{\circ} 29' 00''$  LT

ER = 110

IT = 93.09

IL = 154.52

14 + 16.45 = C.T. E.C. 5' W of R Spindrift



Dorado Levels

± STA.

1402.30 19° 01' 30"

1475.29 12° 41' 00"

1482.8 6° 20' 30" LT.

W ⊥ La Jolla Shores angle line  
Beg. of roll type cb + gut

1421.28 B.C. LT.

Note! Inter Headwalls dangerous  
should be curb inlets

0 + 91 end of old 12' curb with 36' roadway  
and beg. of 30' roadway + 15' curbs

T.P. 3.68 10.381 6.70 Top cb.

Sr Dorado  
Pasco Grande  
CITY DATUM

LT

±

RT - NORTH SIDE

5.96	5.62	5.72	5.40	5.69
<u>4.44</u>	4.76	4.66	4.98	4.49

5.93	5.60	5.75	5.29	5.62
<u>4.45</u>	4.78	4.63	5.09	4.70
15	15		15	15

5.68	5.36	5.70	5.59	5.88
<u>4.70</u>	5.02	4.68	4.99	4.50
15	15		15	15

5.91	5.60	5.62	5.30	5.59
<u>4.47</u>	4.78	4.76	5.08	4.79
15	15		9.07	15
cb	gut		15	15

5.66	5.19	5.53	4.87	5.12
<u>4.77</u>	5.10	4.85	5.51	5.22
15	15		9.07	15
slab	gut		gut	slab

4.63	5.71	5.30	4.68	5.68	5.10	4.38	5.31	4.82	5.19	4.32
<u>5.75</u>	4.67	5.08	5.90	4.70	5.98	6.00	5.07	5.56	5.19	4.56
18	18	18	15	15		15	15	18	18	15
pu	slab	cb	Pav	slab	Headwall	Pav	slab	cb	Top slab	Headwall

INLET 6'x24"

10.38 ✓

6'x24" opening

58

1 + 77.70 14° 43' 12"

T.P. 1.71 6.27 5.84 4.56

4 + 70.90 12° 32' 24"

3 + 70.09 8° 21' 36"

2 + 25.29 4° 10' 48" RT

2 + 74.49 B.C. RT.

2 + 29.30 = F.C. 25° 24' LT

10.321

LT		E		RT
4.19	3.88	3.93	3.05	3.52
2.08	2.39	2.34		2.75

4.56	4.22	6.27	6.69	3.97
5.84	6.16	6.09		6.41

4.86	4.56	4.63	5.35	4.34
5.52	5.84	5.75		6.04

5.03	4.75	4.97	5.79	4.91
5.35	5.63	5.41		5.47

5.41	5.10	5.42	5.41	5.30
4.97	5.28	4.96		5.08

5.74	5.43	5.61	5.11	5.77
4.62	4.95	4.77	4.97	4.66

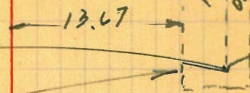
15	15	15	15
cb	9.25	9.25	6

10.382

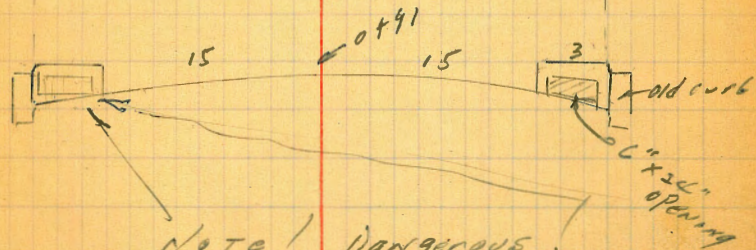


curb of. taken  
here

comb. roll type  
curb & gutter



w/ La Jolla Sporus. beg of roll type cb + gut.



NOTE! Dangerous!  
Should be rebuilt to curb extn;  
Too small anyway

7+54.09 5° 00' 36"

7+09.50 2° 30' 18" RT

6+64.90 B.C. RT.

6+09.59 B.C. LT ELY Alantao

5+28.50 = E.C. 20° 54' RT  
5.80

5+22.70 = 12" x 12" iron grates flush with gutter

6.27 ✓

LT

Q

RT

71

1.99 4.60 1.70 5.10 1.48  
4.28 4.57 4.79

2.30 2.05 1.73  
3.97 4.22 4.54

2.64 2.79 2.07  
3.63 3.98 4.20

2.09 2.77 2.44  
3.18 3.50 4.17 3.85

3.78 3.44 3.04  
2.49 2.81 2.83 3.57 3.23

3.83 3.53 3.51 2.77 3.09  
2.44 2.74 4.62 2.76 5.24 3.50 3.18

cb  
15

grate Bot. Box

grate cb  
15

6.27 ✓  
3

+50

9+00

8+45.5 end of Roll type cb on S or LT and  
beg. of old type curb

8+43.29 E.C. 10° 01' 15"

8+333 12" x 12" grates RT + LT

7+98.69 7° 30' 54" RT

6.276

LT

Q

RT

72

1.57  
470

520

1.30  
497

539

1.19  
5.08

1.54  
473

523

1.20  
507

545

1.17  
5.15

1.59  
468  
old type

1.38  
489  
Roll  
cb

5.19  
9UT

1.13  
514

555

1.03  
5.24

NO SEC.

1.46  
481

1.17  
515  
grate

677  
16. Box

1.17  
510

708

0.74  
553  
grate

1.04  
5.23

1.70  
457

490

1.37  
490

538

1.41  
5.00

06

9UT

6.276  
3

9UT

06

11+73 beg. old type ed on N on RT.

7.05  
7.98

8.53

1.63  
8.40

8.38

1.97 7.70  
8.06 7.83  
15  
old type Roll TYR  
cb

Mr. Kellogg says to dis-  
continue this  
Curb will be built  
across DRIVE  
Private  
Drive

11+41.7

11 Wedge of 12"x18" grate

10.40  
FL. of  
double 8" pipes  
inlet

10.80  
FL. 2x8'  
Box  
in  
sidewalk  
trap

9.40  
FL.  
Box  
under  
grate

1.85  
8.18

1.34  
8.69  
grate

1.43  
8.60

8.83

1.48  
8.55

+50

1.71  
8.32

8.82

1.42  
8.61

8.94

1.39  
8.64

T.P.

8.73

10.03 ✓

4.97

1.30

10.03 ✓

10+00

1.65  
4.64

5.09

1.34  
4.93

5.28

1.30  
4.97

6.27 ✓

cb

9.00

6.27 ✓

9.00

cb

14 + 16.45 E.C.

13 + 77.84 30° 10' 54"

13 + 39.19 20° 07' 15"

13 + 00.50 10° 03' 37"

approx. 16 P.C.  
ON LT. OF SO.

14 + 01.98 BC LT = 12 + 01.98 MAP.

12

10.03

LT

2

PT.

74

5/104  
E to SO.

7.97  
2.06  
20

2.47  
20

8.01  
7.07

2.03  
10

8.48  
1.55  
10

6.03  
4.00  
13.2

4.25  
13.2

5.89  
4.14

3.92  
16.8

6.67  
3.36  
16.8

4.33  
5.70  
3.9

6.21  
3.9

3.90  
6.13

5.75  
26.1

4.98  
5.05  
26.1

7.77  
7.28  
8.5

7.84  
8.5

7.43  
7.60

7.25  
22

3.47  
6.56  
22

7.46  
7.57  
15

8.17  
15

7.13  
7.90

7.93  
15

7.64  
7.39  
15

2.16  
7.87  
15

8.39  
15

1.75  
8.48

8.21  
15

7.37  
7.66  
15

68

90T

10.03  
7

94T

68

TOP cb ON E Spindrift	10.85	29.09
TOP cb ON W	11.95	27.99
check to B.P. Sely Cor	4.54	37.40
T.P.	8.46	39.94
T.P.	12.48	31.54
T.P.	17.55	19.17
	10.031	3.41

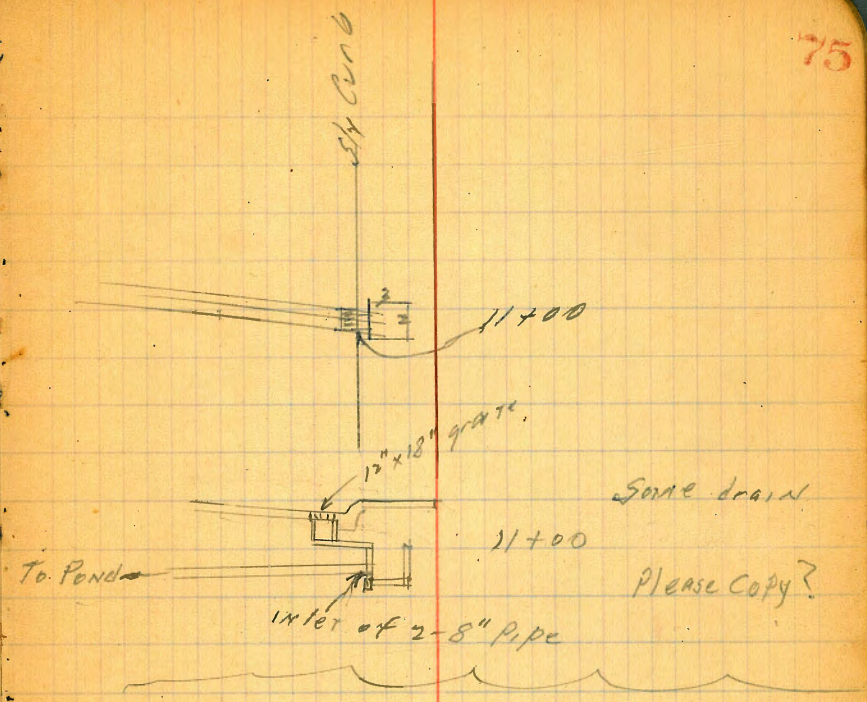
CITY DATUM

37.80  
0.40

approx 100' N of St Louis -  
end of Private Cont. of grading, set + od  
by O. Nelson stakes set by Gregory

by WALKER U.S.C. & DATUM.  
SPINDRIFT of St. Louis (Newport Ter)

2d + C.T. OR T LINE and Sk. of Kellogg Prop.  
and N.L. of SPINDRIFT INX (HANNAY PROP.)



Indexed  
C-S.K.

50' wide  
10' curbs

Moore  
7-5-39

76

Levels on Spindrift Drive  
Dorado S/W

CITY DATUM

SWBP 0.24 37.66 ✓ 37.40 58 hours Spindrift

0+00 K.C.

W.C.B. 12.61 25.05  
9UT P&V 13.15  
E.C.B. 11.80 25.86  
9UT 17.21

T.P. 0.56 25.19 ✓ 13.07 24.64

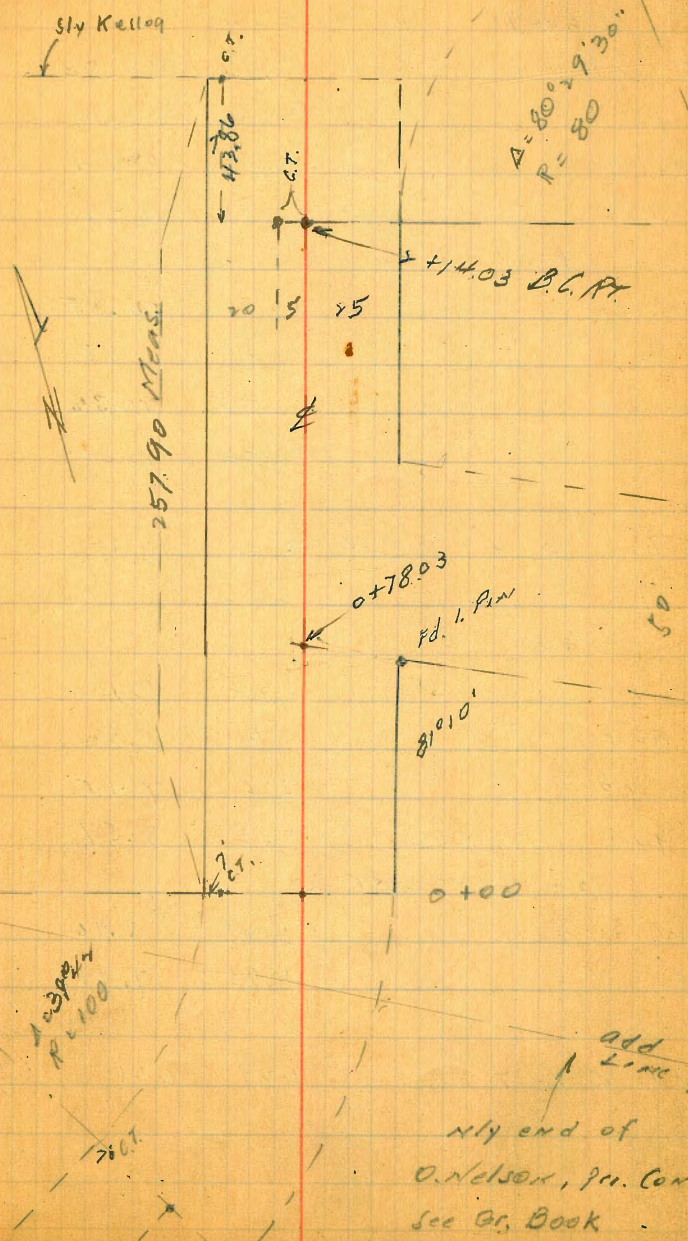
0+50

E.C.B. 4.64 40.55  
9UT 5.08  
W.C.B. 5.03 40.16  
9UT 5.55

0+74.14 90° with S.L. ST Cor. 1. P.M.

W.C.B. 7.27 17.97  
9UT 7.80 17.39  
E.C.B. 7.36 17.83  
9UT 7.85 17.34

end Ret. on E.L. Spindrift 9.10 16.09 S.L. ST EAST  
" " " 11.27 13.77 N.L. " "



25.19 ✓

1	124.74	90° with Cor		
E CB			12.36	17.83
9UT			12.75	12.36
W CB			12.35	17.84
9UT			12.70	12.31
1248.43 = on N 45° E Δ 2190' Diag				
W CB			12.81	17.38
9UT			12.41	11.98
E CB			12.45	17.74
9UT			12.88	12.31
T.P.	0.16	12.90 ✓	12.45	12.74
2 + 00				
E CB			4.20	8.70
9UT			4.60	8.30
W CB			3.75	9.15
9UT			4.33	8.57
2 + 14.04 BC R7				
W CB			4.44	8.46
E "			4.95	7.95
check to C.T.	7' PT.		6.29	6.61 6.62 ✓

NOTE!

BREMS, please check Glover's  
NOTES & herald on little St etc.  
He may have used Walters USCG  
DATUM

77



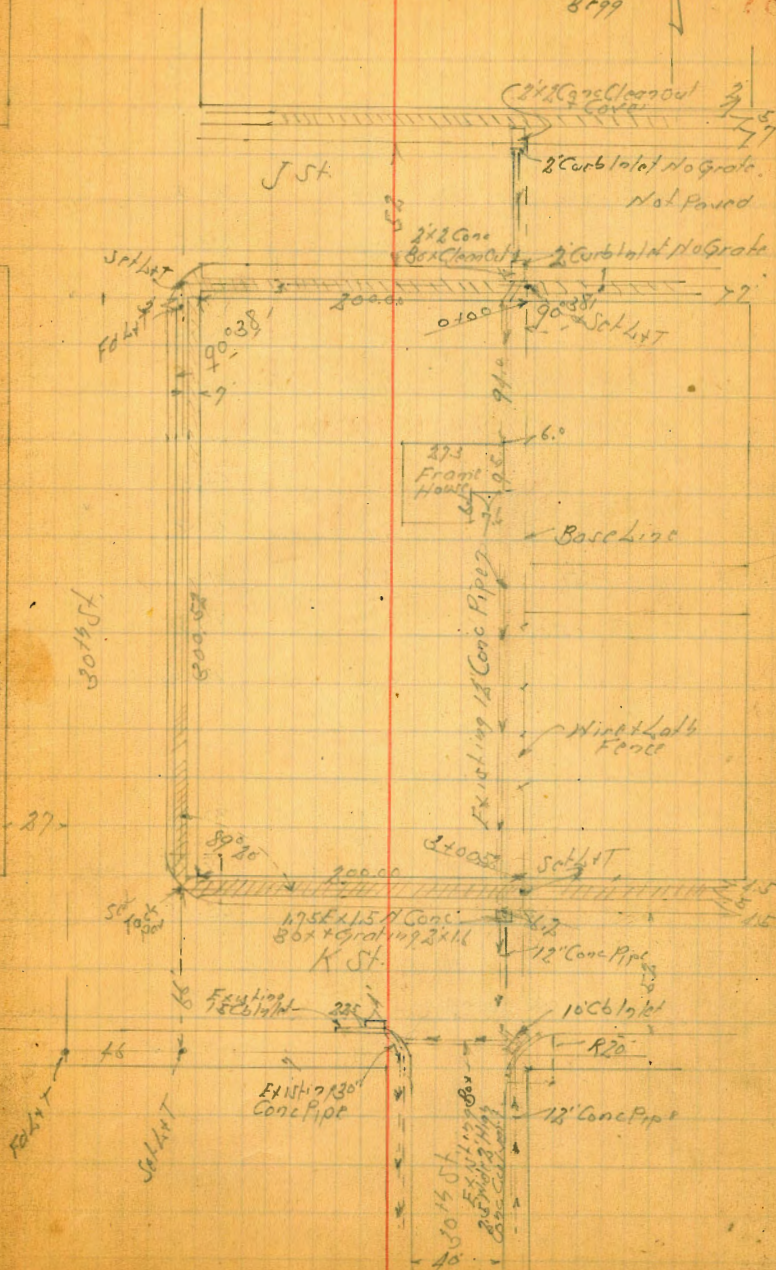
Location of Curb Inlets And Storm Drain  
Between J St & K St. East of 30th St.

B.M	318	80.19	77.01	SW&P J & 30th St
Inlet South Curb Line J St.				
Top Curb		9.15	78.09	
Gutter		8.17	72.02	
Bottom Conc Box Cleanout		11.84	68.35	
Flow Line 12" Conc Pipe		10.07	70.12	
Inlet North Curb Line J St.				
Top Curb		6.13	79.06	
Gutter		7.17	73.02	
Bottom Conc Box Cleanout		10.68	69.51	
Flow Line 12" Conc Pipe		9.35	70.89	
TP	3.25	75.87	72.62	
Grating North Curb Line K St.				
Top Curb		4.80	71.07	
Gutter on Grating		5.49	70.38	
Flow Line 12" Conc Pipe And Bottom Box		7.16	68.71	
S.E. Return K & 30th St				
Top Curb Center of Return		5.64	70.23	
Gutter on Grating & 10" Curb Inlet		6.40	69.47	
Bottom Conc Box		8.85	67.02	

Indexed  
c.s.k.

Feb. 5, 1912  
55500  
8155  
8199

78



Levels Proposed Drain From J St to K St  
300' East of 30th St

Feb-18-41

Levels on Baseline & West Same

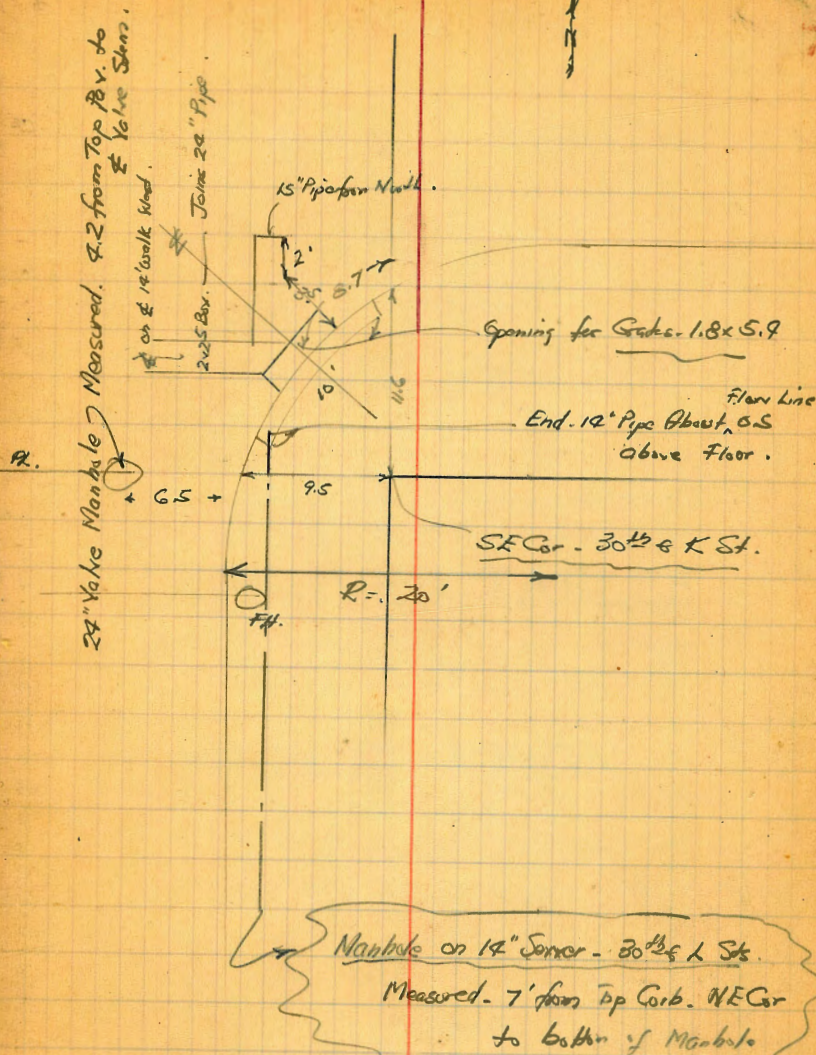
B.M.	3.63	80.64	77.01	SWBP J St + 30th St
0-2	- Sly Concrete Walk	7.34	73.30	
0+0	= South Line J St.	6.2	74.9	
+50		6.0	74.6	
+10		6.8	73.8	
+50		7.2	73.9	
TP	3.46	76.98	71.2	78.52
2+0			3.8	73.2
+50			4.1	72.9
+93			4.6	72.9
3+00.5	= N.E. K St.	5.7	71.3	
+04.5	= Nly Concrete Walk	5.67	71.31	
+14.5	= N.E. K St	5.92	71.06	

SW Cor. 30th & K St

Top Curb	6.80	70.18
Gutter on Grating	7.53	69.45
Bottom Conc Box & Flow Line of 30" Conc Pipe	11.32	65.66

TP	7.27	80.79	3.46	73.52
B.M.			3.77	77.02

SWBP  
J St + 30th St



At Stockton Drive + Aristo

Elevation of Floor of House

BM	3.03	270.09		267.06
TP	1.65	260.05	11.69	258.40
TP	1.18	249.60	11.63	248.42

Floor Front of South			10.25	249.85
TP	1.79	251.56	2.89	248.67

Floor of Garage			3.63	
-----------------	--	--	------	--

Floor of Back of House			2.71	
------------------------	--	--	------	--

E.L. Aristo on Lot line			1.1	
-------------------------	--	--	-----	--

L.I. of E.L.			2.9	
--------------	--	--	-----	--

25 L			1.6	
------	--	--	-----	--

Cars Pool Back of House

DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

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 is same row and column number.

from side stake to slope stake. If ground is not

**IMPROVED TABLES**  
AND  
**INFORMATION**

TABLE No. 2.

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 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.

TABLE II—Continued  
TRIGONOMETRIC FORMULAE (continued)

In any triangle:

Given a, b, C; to find c, B, A.

Use Law of Tangents.

Given A, B, c; to find a, b, C.

Use Law of Sines.

Given a, b, c; to find A, B, C.

$$\text{Let } \frac{a+b+c}{2} = s; \sqrt{\frac{(s-a)(s-b)(s-c)}{s}} = r$$

$$\cos \frac{1}{2} A = \sqrt{\frac{s(s-a)}{bc}}$$

$$\tan \frac{1}{2} A = \frac{r}{s-a}$$

$$\tan \frac{1}{2} B = \frac{r}{s-b}$$

$$\tan \frac{1}{2} C = \frac{r}{s-c}$$

Area of a triangle:

$$\text{Area} = \frac{1}{2} ab \sin C$$

$$\text{Area} = \sqrt{s(s-a)(s-b)(s-c)}$$

PRISMOIDAL FORMULA.

$$\text{Vol.} = \frac{h}{6} (B+b+4M)$$

h = altitude; b, B = bases; M = midsection

TABLE III  
INCHES AND FRACTIONS OF AN INCH IN DECIMALS OF A FOOT

	0	1	2	3	4	5	6	7	8	9	10	11
$\frac{1}{16}$	.0052	.0885	.1719	.2552	.3385	.4219	.5052	.5885	.6719	.7552	.8385	.9219
$\frac{1}{8}$	.0104	.0938	.1771	.2604	.3438	.4271	.5104	.5938	.6771	.7604	.8438	.9271
$\frac{3}{16}$	.0156	.0990	.1823	.2656	.3490	.4323	.5156	.5990	.6823	.7656	.8490	.9323
$\frac{1}{4}$	.0208	.1042	.1875	.2708	.3542	.4375	.5208	.6042	.6875	.7708	.8542	.9375
$\frac{5}{16}$	.0260	.1094	.1927	.2760	.3594	.4427	.5260	.6094	.6927	.7760	.8594	.9427
$\frac{3}{8}$	.0313	.1146	.1979	.2813	.3646	.4479	.5313	.6146	.6979	.7813	.8646	.9479
$\frac{7}{16}$	.0365	.1198	.2031	.2865	.3698	.4531	.5365	.6198	.7031	.7865	.8698	.9531
$\frac{1}{2}$	.0417	.1250	.2083	.2917	.3750	.4583	.5417	.6250	.7083	.7917	.8750	.9583
$\frac{9}{16}$	.0469	.1302	.2135	.2969	.3803	.4635	.5469	.6302	.7135	.7969	.8802	.9635
$\frac{5}{8}$	.0521	.1354	.2188	.3021	.3854	.4688	.5521	.6354	.7188	.8021	.8854	.9688
$\frac{11}{16}$	.0573	.1406	.2240	.3073	.3906	.4740	.5573	.6406	.7240	.8073	.8906	.9740
$\frac{3}{4}$	.0625	.1458	.2292	.3125	.3958	.4792	.5625	.6458	.7292	.8125	.8958	.9792
$\frac{7}{8}$	.0677	.1510	.2344	.3177	.4010	.4844	.5677	.6510	.7344	.8177	.9010	.9844
$\frac{15}{16}$	.0729	.1563	.2396	.3229	.4063	.4896	.5729	.6563	.7396	.8229	.9063	.9896
$\frac{1}{1}$	.0781	.1615	.2448	.3281	.4115	.4948	.5781	.6615	.7448	.8281	.9115	.9948
	.0833	.1667	.2500	.3333	.4167	.5000	.5833	.6667	.7500	.8333	.9167	1.000
	0	1	2	3	4	5	6	7	8	9	10	11

TABLE IV  
USEFUL RELATIONS.

Lineal feet	×.00019	= miles
Lineal yards	×.0006	= miles
Square inches	×.007	= square feet
Square feet	×.111	= square yards
Square yards	×.0002067	= acres
Acres	×4840	= square yards
Cubic inches	×.00058	= cubic feet
Cubic feet	×.03704	= cubic yards
Links	×.22	= yards
Links	×.66	= feet
Feet	×1.5	= links
360°	= 21600'	= 1296000"
Radius	= arc of 57.2957790°	
Arc of 1° (radius = 1)	= .017453292	
Arc of 1' (radius = 1)	= .000290838	
Arc of 1" (radius = 1)	= .000004848	

179° 59' 60"  
59 11 30"  
90° 48' 30"

$$\pi = 3.141592654 \quad \sqrt{\frac{1}{.4}} = 0.564190$$

$$\frac{\pi}{4} = 0.785398163 \quad \sqrt[3]{\frac{6}{\pi}} = 1.240700982$$

$$\frac{\pi}{6} = 0.523598776 \quad \pi^2 = 9.869604401$$

$$\sqrt{\frac{4}{\pi}} = 1.128379167 \quad \frac{1}{\pi^2} = 0.101321184$$

$$\frac{\pi}{6} = 0.523598776 \quad \sqrt[3]{\pi} = 1.772453851$$

$$\frac{4\pi}{3} = 4.188790205 \quad \frac{1}{\pi} = 0.3183099$$

Curvature of Earth's surface = about 0.7 feet in 1 mile

Curvature in feet = 0.667 (Dist. in-miles)<sup>2</sup>

Difference between arc and chord length, 0.05 feet in 11½ miles

$$\text{Probable error of a single observation} = 0.6754 \sqrt{\frac{Mv^2}{n-1}}$$

Error in chaining of 0.01 feet in 100 feet:

Due to—

1. Length of tape error of 0.01 feet
2. Alignment. One end 1.4 feet out of line
3. Sag of tape at centre of 0.61 feet.
4. Temperature difference of 15°
5. Difference of pull of 15 lbs.

STADIA REDUCTION FORMULAE.

$$\text{Horizontal Distance} = R - R \sin^2 a + C \cos a$$

$$\text{Vertical Distance} = R \frac{1}{2} \sin 2a + C \sin a$$

$$R = \text{Reading} \times \frac{\text{distance from Object glass to cross hairs}}{\text{distance between cross hairs}}$$

C = distance from Object glass to cross hairs + distance from Object glass to center of instrument.

a = angle of elevation for mid Reading

17.92  
 96.41  
 78.49  
 99.97  
 21.58

99.97  
 17.92  
 117.89  
 125  
 7.11

98.24  
 36.49  
 134.73

ENGINEERING DEPARTMENT,  
 CITY OF CALIFORNIA,  
 SAN DIEGO.

113  
 2(171-53-30)  
 85-56-43

69.51

52.31  
 94.74  
 40.51  
 187.56  
 .6  
 187.56

(54106+001-)  
 (105+30.49)

85°56'45"

279.52 279.

384.49  
 383.22 N.W. Iowa & Meade  
 1.27

90°15'30"

250  
 15  
 14  
 279  
 125  
 7  
 132.26  
 7.5  
 139.76  
 139.76  
 279.52

98  
 20.8  
 78.8

171.30  
 15  
 119.39

2 W  
 3 W  
 4 W

41537  
 3085  
 10737  
 179.60  
 290.11  
 90.11

64.96  
 1.2  
 65.98

474.256  
 18.564  
 99.97  
 81.41