1742

1742

CITY ENGINEER'S OFFICE

MADE IN U.S.A.

1742

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

No. 380 LEVEL BOOK.	Left and Right Hand Page the same as Left Hand Page of this Book.
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THE FREDERICK POST CO.

ENGINEERING and DRAFTING SUPPLIES

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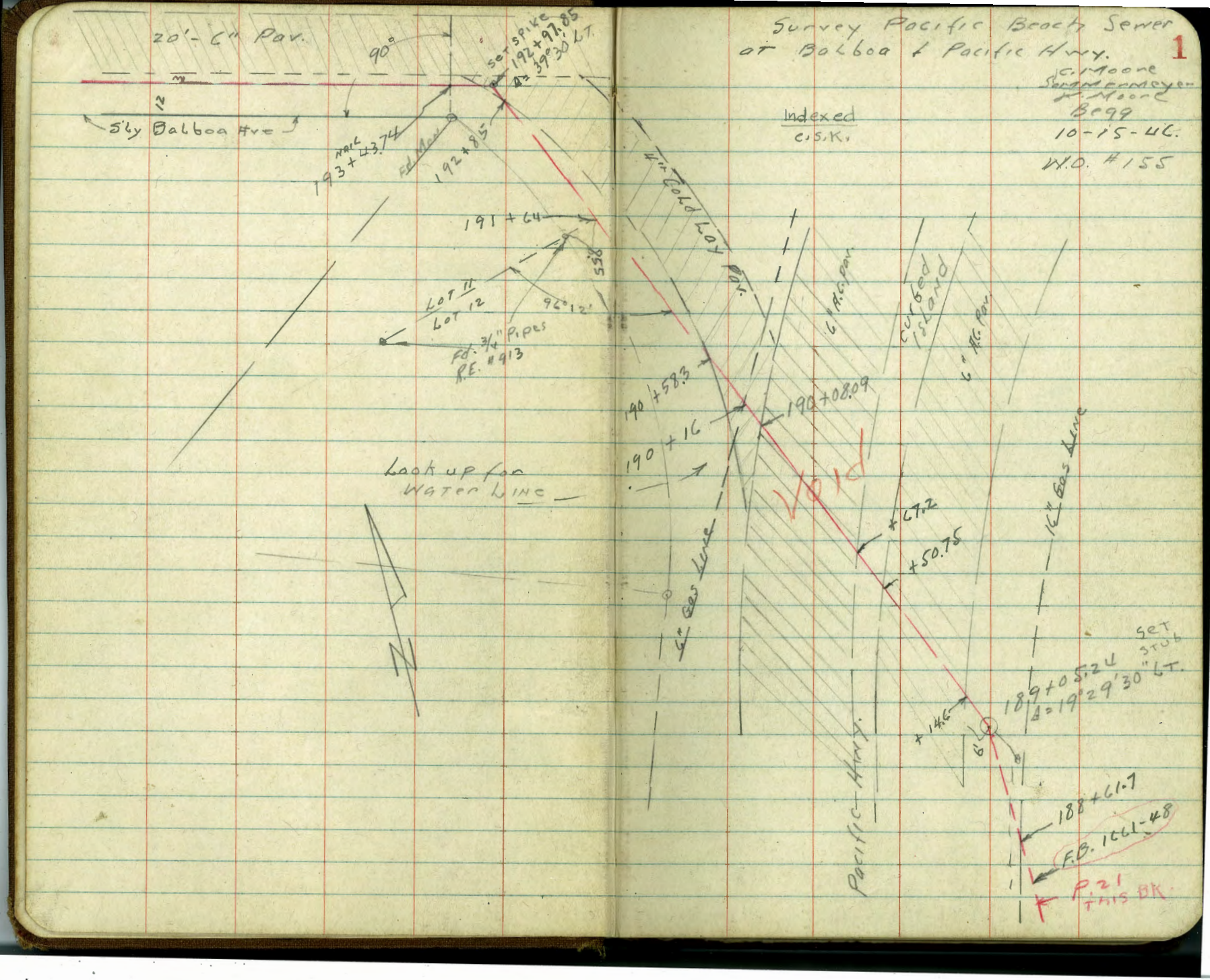
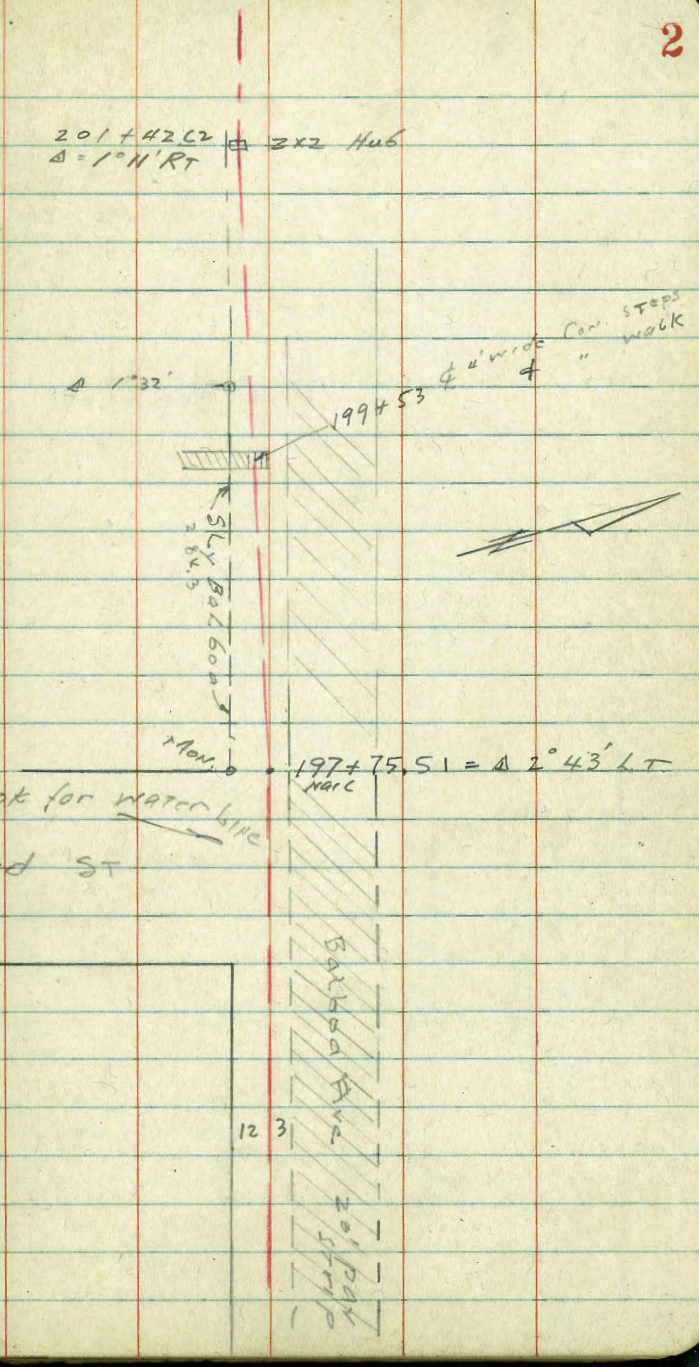
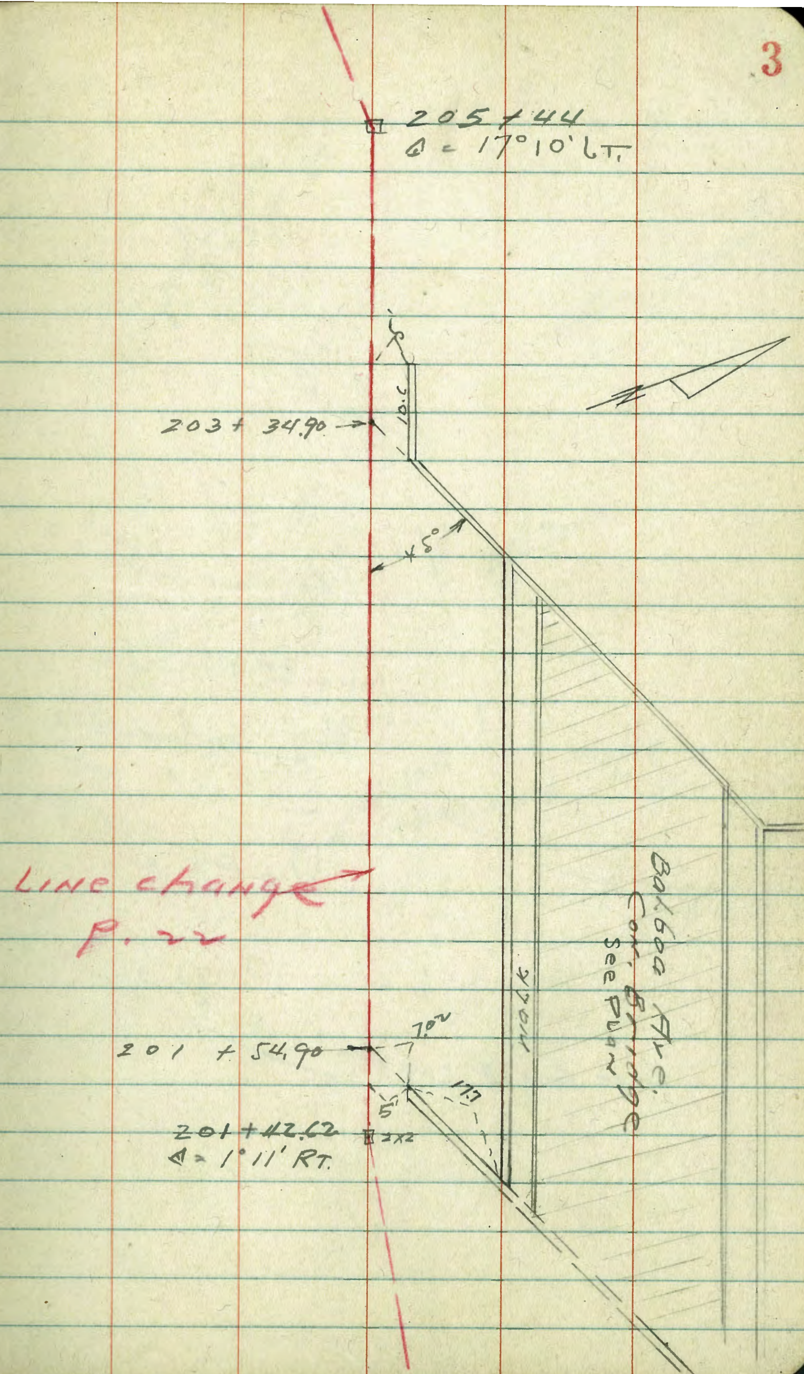
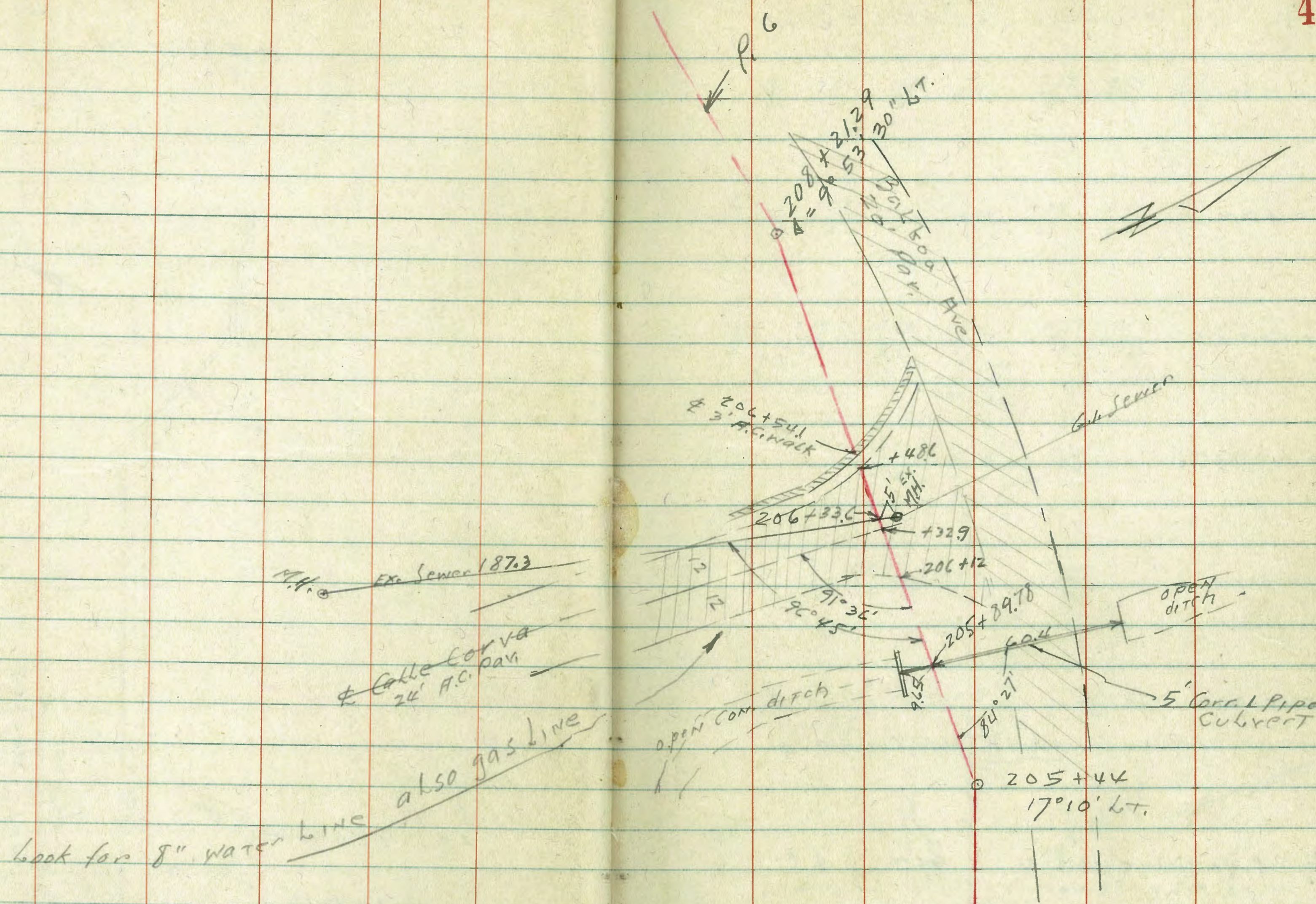

Survey Pacific Beach Sewer
at Balboa & Pacific Hwy.
1
C. Moore
Set Hermeyer
F. Moore
Beg
10-15-46
W.O. #155
Indexed
C.S.K.
20'-6" Pav.
90°
Set Spike
192+97.85
Δ=39°30' Lt.
N
S'ly Balboa Ave
193+43.74
Fd. Mon.
192+85
191+64
Lot 11
Lot 12
96°12'
Fd. 3/4" Pipes
R.E. #913
Look up for
Water Line
4" Gas Line
190+58.3
190+16
190+08.09
Fill
Curbed Island
6" A.C. Pav.
6" A.C. Pav.
16" Gas Line
+67.2
+50.75
+14.6
189+05.24
Δ=19°29'30"
Set Stub
Lt.
188+61.7
F.B. 1661-48
P. 21 This Bk.
Pacific Hwy.


201+42.62
Δ = 1°N'RT
3x3 Hub
Con. steps
walk
Δ 1°32'
¢ 4' wide
¢ "
199+53
Set Spike
Mon.
197+75.51 = Δ 2°43' LT.
Mon.
Look for water line
Bond ST
Barbara Ave
Sidewalk


205 + 44
Δ = 17°10' LT.
203 + 34.90
10.0
8.0
Line change
P. 22
201 + 54.90
7.0
5'
17.7
201 + 42.62
2x2
Δ = 1°11' RT.
Balboa Ave.
Con. Bridge
See Plan

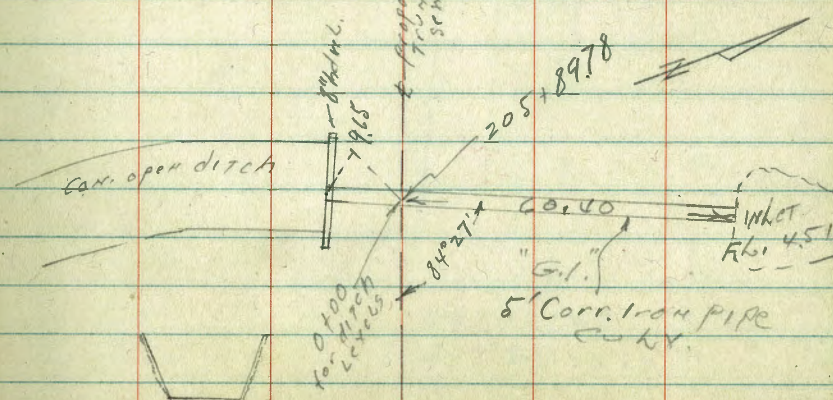

P.C.
208+21.29
Δ = 9° 53' 30" Lt.
Balboa Ave
N
℄ 206+54.1
3' A.C. walk
+48.6
5' Ex. M.H.
206+33.6
+32.9
206+12
G.L. Sewer
91°32'
90°45'
205+89.78
open ditch
60"
R.C.P.
84°27'
5' Corr. Pipe Culvert
205+44
17°10' Lt.
M.H.
Ex. Sewer 187.3
℄ Calle Corva
24' A.C. pav.
open con. ditch
Look for 8" water line also gas line

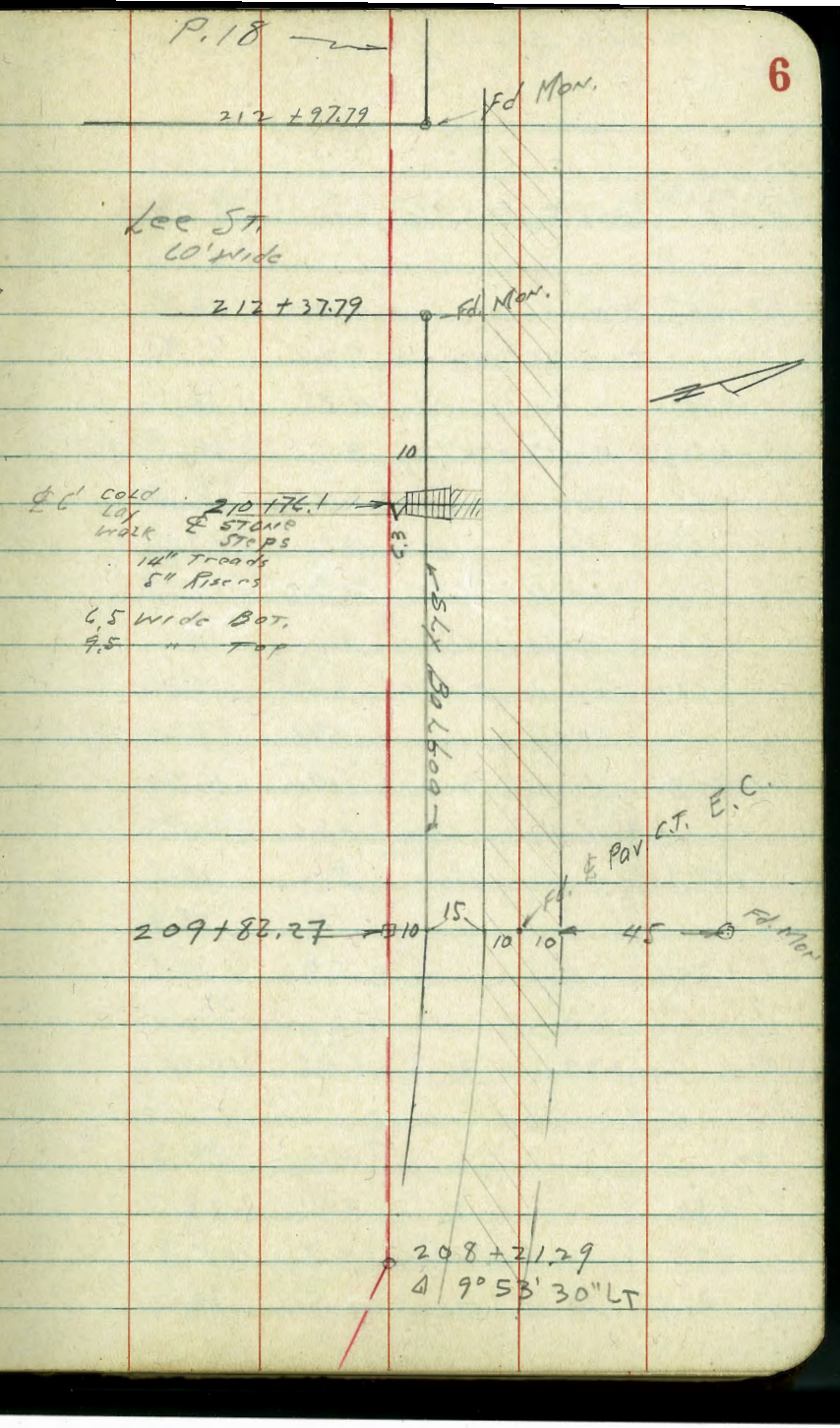
Levels on 5' Corr. I.P. Culv.
at Balboa & Calle Curva

Sta.	Lt = E			℄ Culv.			Rt = W
0+30	5.7 / 13	7.51 / 7.4	10.88 / 4	10.91	10.87 / 2	7.52 / 5.6	5.1 / 13
0+20	4.2 / 14	7.51 / 7	10.71 / 4	10.84	10.75 / 2.6	7.44 / 6.2	4.3 / 13
0+09.65	3.1 / 11	7.08 / 6.5 Top Con. ditch	10.26 / 2.5	10.50 F.L. 5' pipe outlet =El. 3.63	10.39 / 3.0	7.07 / 7.5 Top Con. ditch	3.4 / 14
0+09.65			4.34 / 5.4	4.36 Top hdwl.	4.38 / 5.4		
0+00			1.8 / 10	1.9	2.0 / 10		
0+00=205+89.78			1.8 / 10	1.9	2.0 / 10		

14.13 H.I. from P.14

FL. 5' pipe inlet 60.4 Rt of prop. Sewer	9.62	4.51
Top hdwl. at inlet	0.58	13.55




P. 18
212 + 97.79
Fd Mon.
Lee St.
60' wide
212 + 37.79
Fd. Mon.
10
℄ C' cold
Lay
walk
210 + 76.1
℄ Stone
Steps
14" Treads
8" Risers
6.5 Wide Bot.
4.5 " Top
C.3
Asph. Pav. 1600
C.T.
E.C.
℄ Pav
209 + 82.27
10
15.
10
10
45
Fd. Mon.
208 + 21.29
Δ 9° 53' 30" Lt

Pacific Beach Trunk Sewer Levels

STATE BM. #B-1	2.68	20.96		18.28	Sq. Iron Bolt on S.E. Cor. Pump Island, Gen. Pet. Ser. Sta. N.W. Cor. Pacific and Balboa F.B. 1647-C3
188+61.7	ground		4.8	16.2	
"	Top 16" gasline		9.04	11.92	
+90			4.8	16.2	
189+05.24	Δ 19°29'30" Lt.		4.5	16.5	C.O. F.L.
+14.5	edge Pav.		4.41	16.55	
+50.75	Pav.		3.80	17.16	
"	Top I.S. Curb		3.31	17.65	
+59	Island		3.1	17.9	
+67.2	Top I.S. Curb		3.33	17.63	
"	Pav.		3.71	17.25	
190+08.9	edge 6" Pav		3.90	17.06	
+16	Cold Lay over 6" gas line		4.06	16.90	
+58.3	edge Cold Lay		5.2	15.8	
191			5.4	15.4	
+50			5.9	15.1	
T.P.	3.99	18.47	6.48	14.48	
192			4.0	14.5	
+50			4.5	14.0	
+85	edge Cold Lay		4.7	13.8	
192+97.85	39°30' Lt.		4.5	14.0	

1847

STA #					
	193+18	edge Caldclay	4.9	13.6	
	+20	5' LT 24" di. Eucal. Tree			
	+43.7X		5.0	13.5	
188	+50		5.0	13.5	
	+80	11' LT P.P.			
	+96	6 LT 30" di. Eucal			
189	194		5.0	13.5	
	+50		5.3	13.2	
	+70	5' LT 18" Eucal.			
	+97	10.5 LT P.P.			
	195		5.4	13.1	
	+21	5 LT. 18" Eucal.			
	+50		5.3	13.2	
190+	196		5.3	13.2	
	T.P.	4.86 17.94	5.39	13.08	
191					
	+15	11 LT. to PP			
	+20	4.5 to 16" Eucal.			
T.F.	+50		5.0	12.9	
	"	3 Rt. pav. edge	4.70	13.24	
19	"	5 LT. Shoulder	5.2	12.7	
	"	11 LT. Nat. ground	7.4	10.5	
	+95	5' LT 12" Acacia Trees			
192	197		4.7	13.2	

Use offsets to PP & trees

17.94

	+14	10.5 Lt P.P.		
	197+50		4.9	13.0
ST &	"	3' Rt edge Pav.	4.79	13.15
	"	50 Lt.	7.8	10.1
18	+75.51	W.L. Bond St.	4.9	13.0
	+76	5' Lt 24" Eucal. Tree		
	198		5.0	12.9
189	+45	2' Lt 30" Eucal Tree		
	+50		5.5	12.4
	"	3' Rt		
	"	7 Rt. Pav. edge	4.80	13.14
	"	8' Lt	7.5	10.4
	+51	6' Lt P.P.		
	199		5.5	12.4
190	"	3' Rt	4.6	13.3
	"	9 Rt Edge Pav	4.83	13.11
	"	6 Lt	7.2	10.7
19	"	35 Lt.	8.1	9.8
	+53	E on Con steps	5.93	12.01
	"	3.8 Lt. 4' Con. Invert	7.57	10.37
T.F	"	20 " " " "	7.66	10.28
	"	2.5 Rt Top Step	5.38	12.56
19	"	13 Rt Pav edge	4.86	13.08
	+63	1' Lt. P.P.		
	+94	2' Rt 16" Eucal Tree		
19	200		6.9	11.0

			17.9				
	200+00	5' Lt		7.5	10.4		
ST 4	"	5 Rt		4.8	13.1		
	"	16 Rt	Pav. edge	4.87	13.07		
18							
	T.P.	1.89	15.61	4.22	13.72	Set	B.M.B.P. on curb S.E. Cor. of Conc. Bridge Balboa Ave. at Rose Cañon Creek
189	200+05	3.5 Lt	4" dia. pepper tree				
	+30	10 "	8" " "				
	+48	7 "	5" Cypress "				
	+50			3.8	11.8		
	+56	6 "	4" Pine "				
	+60	6 "	" Oleander "				
	+68	4 Rt	16" Eucal. "				
190	"	4 Lt	12" Palm "				
	+86	4.5 Rt	P.P.				
	201			4.8	10.8		
19	"	18 Rt	Shoulder	2.4	13.2		
	"	22 "	Pav. edge	2.58	13.03		
	"	11 Lt		5.8	9.8		
T.P.	201+42.62	Δ 1°11' Rt		4.5	11.1		
	"	7' Rt		2.9	12.7		
19	"	4' Lt		5.5	10.1		
	"	17 Lt		5.9	9.7		
	+50			4.8	10.8		
19	"	5 Rt	ground	4.7	10.9		

15C1

	201+50	5' Rt.	Top wing wall	2.69	12.92
	"	6 Rt	ground	7.0	8.6
STC #	"	7 Lt		5.7	9.9
	"	15 Lt		5.7	9.9
188	+65			6.4	9.2
	"	18 Rt		13.7	1.9
	"	10 Lt		6.8	8.8
189	+80			10.8	4.8
	"	17 Rt		13.8	1.8
	"	8 Lt		7.3	8.3
	"	20 Lt		8.0	7.6
	202			14.0	1.6
	"	17 Rt		14.9	0.7
	"	11 Lt		10.4	5.2
190	"	25 Lt		8.7	6.9
	T.P.	6.96	12.19	10.38	5.23
19					
	202+12			11.8	0.4
	"	8 Lt		11.7	0.5
T.P	"	24 Lt		7.2	5.0
	"	17 Rt		11.6	0.6
19	+50			12.6	-0.4
	"	17 Rt		11.8	0.4
	"	25 Lt		12.1	0.1
19					

12.19

202 + 60			11.3	0.9
"	8 LT		12.4	-0.2
STC "	25 LT		12.4	-0.2
"	17 RT		11.2	1.0
188 +75			11.7	0.5
"	12 LT		11.4	0.8
"	20 LT		12.4	-0.2
189 "	17 RT		11.2	1.0
203			10.5	1.7
"	17 RT		10.0	2.2
"	15 LT		11.1	1.1
"	25 LT		11.7	0.5
+23			9.2	3.0
"	12 RT		9.1	3.1
190 "	20 LT		8.9	3.3
+30			8.7	3.5
"	5 RT		7.4	4.8
191 "	5 RT	TOP WING	+0.56	12.75
"	9 LT		8.3	3.9
"	20 LT		7.4	4.8
TF "	30 LT		8.0	4.2
+40			4.9	7.3
19? "	5 RT		2.2	10.0
"	5 RT	TOP END WING WALL	+0.60	12.79
"	5 LT		5.8	6.4
19 "	10 LT		3.9	8.3
"	20 LT		3.2	9.0

12.19

	203+48		4.1	8.1
	"	5 Rt	0.8	11.4
STA #	"	5 Lt	4.4	8.1
	"	10 Lt	2.8	9.4
188	"	25 Lt	3.8	8.4
	T.P.	8.29 1734	3.14	9.05
189				
	+55		6.8	10.5
	"	5 Rt	5.1	12.2
	"	15 Lt	8.0	9.3
	"	35 Lt	8.7	8.6
	+57	5 Rt P.P.		
	+66		5.3	12.0
190	"	15 Rt	4.5	12.8
	"	14 Lt	7.1	10.2
	"	30 Lt	8.2	9.1
191	204		5.4	11.9
	"	18.5 Rt Pav. edge	4.6	12.7
	"	25 Lt	5.8	11.5
T.P.	+03	4 Rt 12" Encal		
	+15		5.2	12.1
19?	+22		6.7	10.6
	+32		6.0	11.3
	+48	3 Lt P.P.		
19	+50		5.4	11.9

17.34

205+00			5.6	11.7	
"	10 Rt	Pav edge	4.7	12.6	
"	25 Lt		6.6	10.7	
205+44	∆ 17°10' Lt		5.0	12.3	
"	3 Rt	Pav edge	4.9	12.4	ON SPLIT
"	6 Lt		4.9	12.4	"
"	15 Lt		6.4	10.9	"
+54	6 Lt	12" Acacia Tree			
+76	7 Lt	P.P.			
205+89.78	ground	over sidew.	5.1	12.2	
T.P.	0.78	14.13	3.99	13.35	
206+17	edge Pav.		2.25	11.88	
+32.9	℄ Calle Cerro		2.44	11.69	
+33.6	INT Sewer		2.43	11.70	
"	5' Rt	MH Rim	2.28	11.85	
"	" "	" FL	10.86	3.27	
"	187.3 Lt	MH Rim	5.64	8.49	
"	"	" FL	11.34	2.79	
+48.6	edge Pav.		2.15	11.98	
+54.1	℄ 3' AC walk		2.04	12.09	
+75			3.3	10.8	
+98	8 Rt	18" dr. Euc.			
207			3.7	10.4	
"	9' Rt	edge pav.	2.4	11.7	
"	10 Lt		4.2	9.7	

14.13

207+05	C' Rt	P.P.		
+50			3.9	10.2
+72	8 Rt	18" Eucal.		
208			3.9	10.2
"	16 Rt.		2.7	11.4
"	16 C Rt	edge pav.	2.08	12.05
"	20 Lt		4.9	9.2
T.P.	2.57	13.8.5	2.85	11.28
208+21.29	9°-53'-30" L' Lt.		3.1	10.8
+25	3 Rt. = otr. P.P.			
+50			3.9	10.0
+82	8 E Rt = 8" tree			
209+00			3.9	10.0
"	9' Rt		2.1	11.8
"	Pav. 22.5 Rt		1.86	11.99
"	17' Lt		4.8	9.1
+50			4.3	9.6
+51	19' Lt = 36" pine			
"	7' = P.P.			
209+82.27	Paving E.C.		4.6	9.3
+92	7 E Rt = 20" Eucal tree			
210+00			5.0	8.9
"	10' Rt.		2.8	11.1
"	25 Rt. = Pav		1.84	12.01

13.85

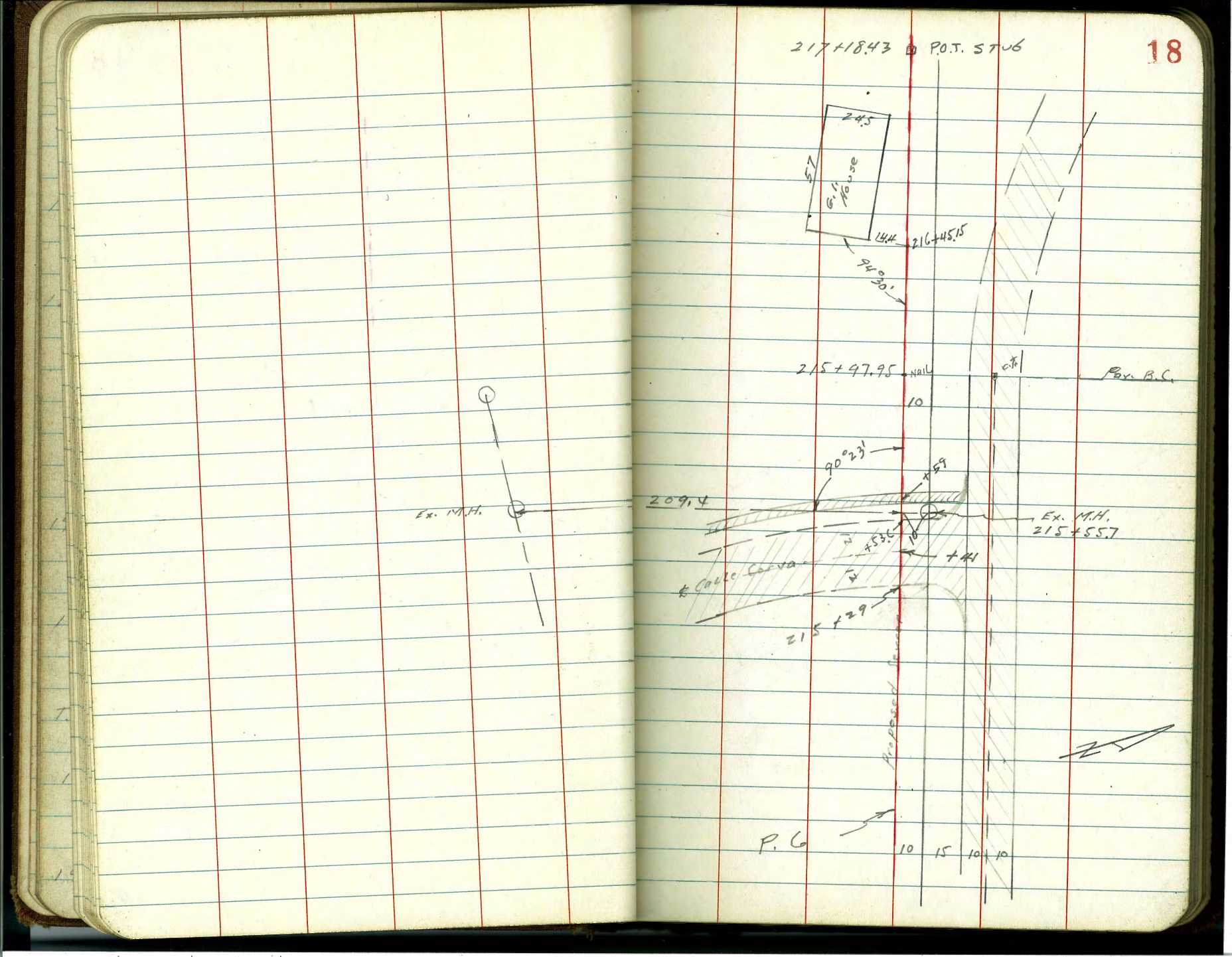
210+00	16' Lt	5.3	8.6	
+50		5.4	8.5	
210+76.1	℄ Steps (Page 6)	5.46	8.39	E.C. Walk
+84	7° R = P.P.			
T.P.	4.15	13.74	4.26	9.59
211+00		5.5	8.2	
"	14 Rt	2.6	11.1	
"	25 " Pav. edge	1.6	12.1	
"	20 Lt	5.7	8.0	
+42	8 Rt 16" Eucal. tree			
+50		5.5	8.2	
212		5.3	8.4	
"	14 Rt	2.1	11.6	
"	25 " pav. edge	1.7	12.0	
"	20 Lt	5.6	8.1	
+15	8 Rt 24" Eucal			
+22	7 Rt P.P.			
+37.79	℄ Lee St.	5.0	8.7	
+50		5.0	8.7	
+94	8.3 Rt. 18" Eucal			
+97.79	℄ Lee St.	3.8	9.9	
213		3.9	9.8	
"	10 Rt	2.7	11.0	
"	25 Rt pav. edge	1.8	11.9	
"	20 Lt	4.8	8.9	

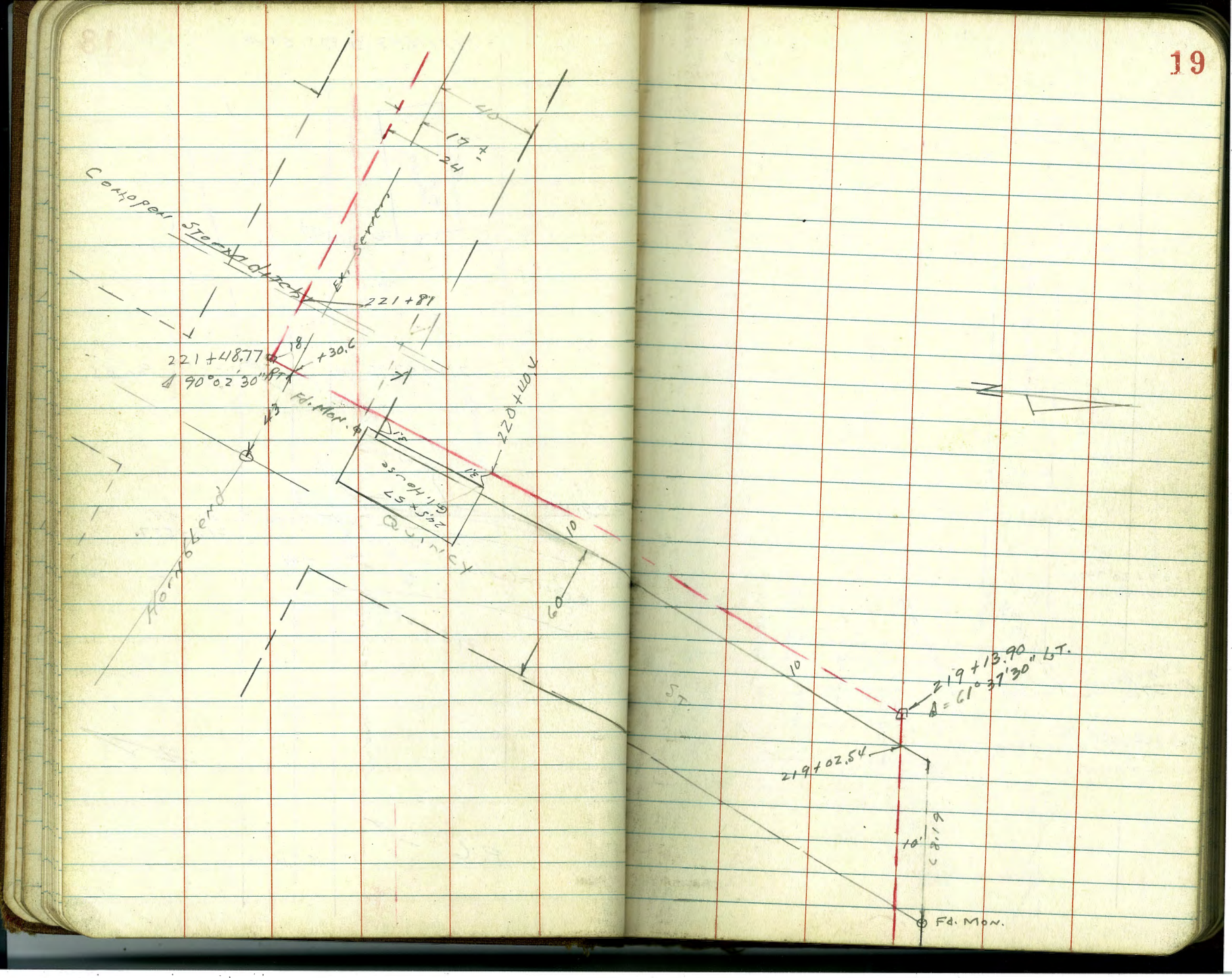
Spike in P.P. 7° Rt. of 210+84

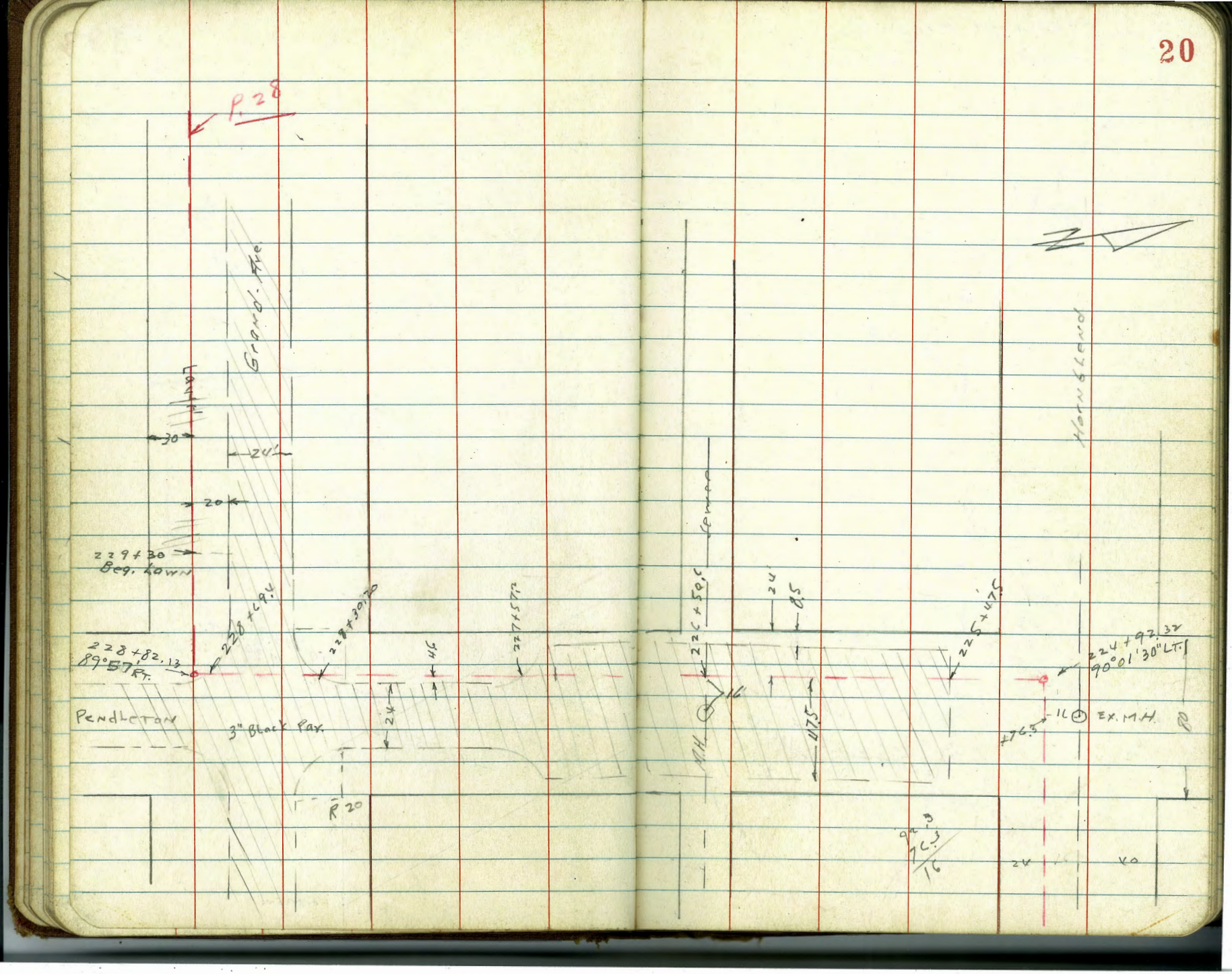
		13.74		
213 + 50			3.4	10.3
+ 56	7' Rt.	P.P.		
+ 75	8 "	24" Eucal.		
214			3.2	10.5
"	10 Rt		2.4	11.3
"	25 "	pav. edge	0.85	12.89
"	25 Lt		4.1	9.6
T.P.	7.79	20.94	0.59	13.15
set spike BM. P.P.	6.01	19.87	7.08	13.86
214 + 43	8' Rt	8" d. acacia		
+ 50			9.6	10.3
+ 80			9.2	10.7
215			7.8	12.1
"	15 Rt		4.2	15.7
"	25 Rt		4.0	15.9
"	16 Lt		9.7	10.2
+ 17	8 Rt	12" Eucal.		
+ 20			4.4	15.5
+ 29	pav. edge		4.1	15.8
+ 41	E pav		4.2	15.7
+ 53.6	Pav. edge		3.8	16.1

Contd. P. 25

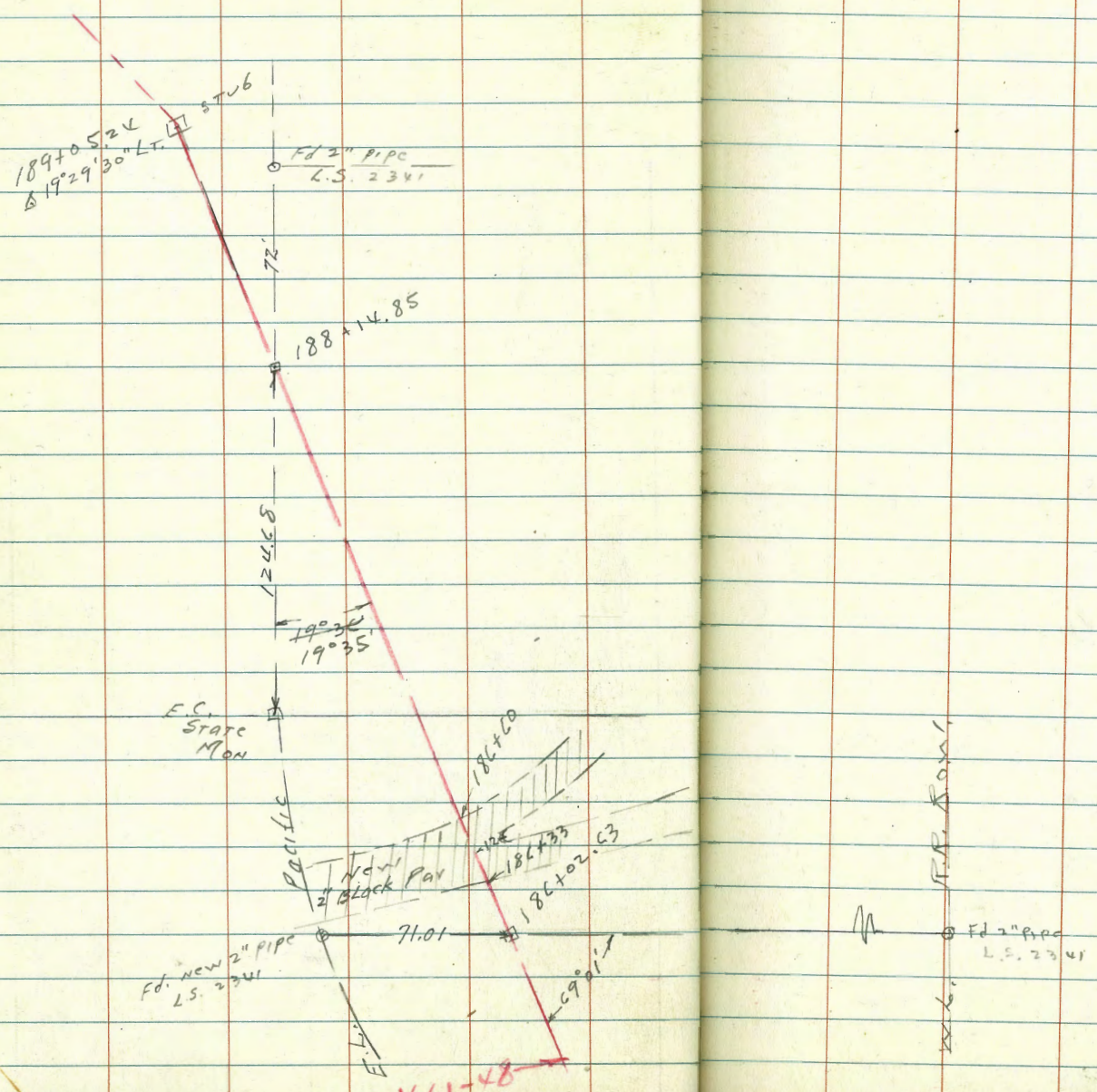
11' Rt of 214 + 80


217+18.43 P.O.T. STUB
24.5
57
6" Water Service
14.4
216+45.15
94° 30'
215+47.95 NAIL
Ex. B.C.
10
90° 23'
+5.9
209.4
Ex. M.H.
215+55.7
+5.5
+41
± Centre Curve
215+29
Proposed Sewer
P.C.
10
15
10
10
Ex. M.H.

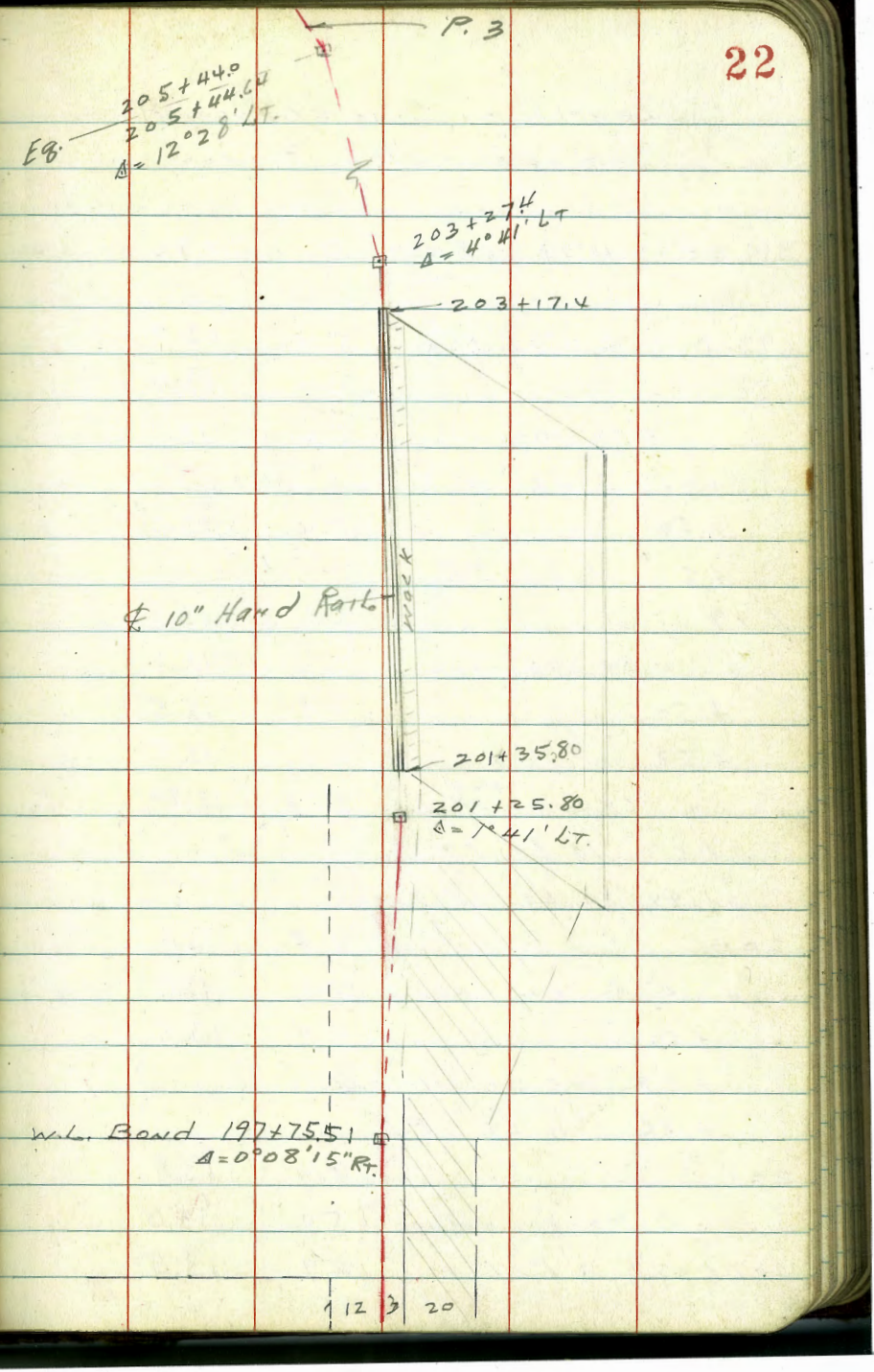

Centerline Steeplechase
Ex. Service
221+89
221+48.77
90°02'30" Rt.
+30.6
18
Fd. Mon. #3
220+40
Horseherd
Quincy
Gen. House
24x57
60
10
40
17
24
219+13.90
Δ = 61°37'30" Lt.
219+02.54
10
219
Fd. Mon.


P.28
Grand Ave
94'±
30
24'
20
229+30
Beg. Curb
228+82.13
89°57' Rt.
228+94
228+30.30
227+57.72
24
Pendleton
3" Black Pav.
R=20
22
50.6
Curb
24
8.5
16
11.75
22
5
47.6
Harvard
224+97.32
90°01'30" Lt.
16
Ex. M.H.
+76.3
24
K.O.

Sewer Property Ties at
Pacific and Magnolia



Sewer Line change "A"
at Balboa Ave. Bridge.
To suspend Sewer Line
from bridge



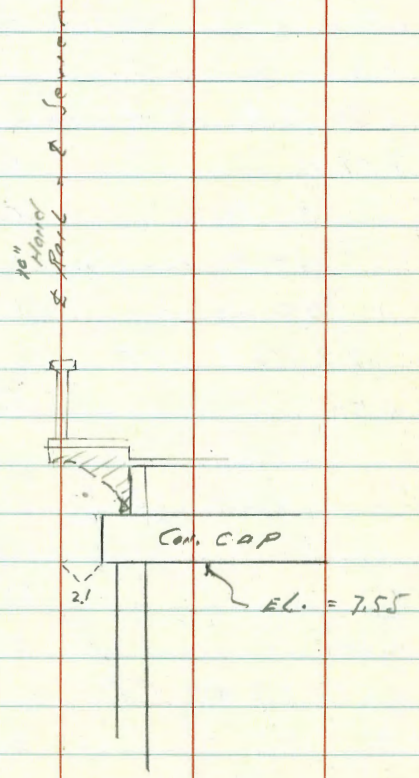
Levels on Line change "A"
at Balboa Ave. Bridge

B.M.B.P.	471	18.43		13.72
197+75.51	Δ 0°08'15"Rt		5.4	13.0
198			5.4	13.0
"	3' Rt. pav. edge		5.3	13.1
+45	5' Lt 30" Eucal			
+50			5.4	13.0
+51	" Lt P.P.			
199			5.2	13.2
"	4 Rt pav. edge		5.3	13.1
+50			4.9	13.5
+53			4.9	13.5
"	C.L Lt	Top Conc. Steps	5.89	12.54
+63	10' Lt P.P.			
+94	9 Lt 16" Eucal			
200			4.8	13.6
"	4' Rt pav. edge		5.4	13.0
+50			4.9	13.5
+68	10.5 Lt 16" Eucal.			
+80	" Lt P.P.			
201			4.9	13.5
"	C Rt pav. edge		5.4	13.0
201+25.8	Δ 1°41' Lt		4.9	13.5

Sketch P. 22

on curb SE Cor. Balboa Ave Bridge

		18.43			
201 +35.8	on walk		4.66	13.77	
"	Top 8"	Con. Bulk hd.	5.45	12.98	
T.P.	3.92	17.64	4.71	13.72	B.T.
203 +17.4	on walk		4.08	13.56	
"	Top 8"	Con. Bulk hd	4.92	12.72	
203+27.4	Δ 4°41' LT.		4.4	13.2	
+50			4.6	13.0	
+57	10.5 LT	P.P.			
204			5.1	12.5	
"	6 Rt	Pav. edge	4.9	12.7	
+03	8' LT.	12" E.J.C.O.C.			
+48	10.5 LT	P.P.			
+50			5.2	12.4	
205			5.6	12.0	
"	5 Rt	Pav. edge	5.1	12.5	
205+44.64			5.3	12.3	
205+44	Eq. Δ 12°28' LT				
T.P.	1.57	7.07	12.19	5.45	
	Bot. Con. Cap		+0.53	7.55	



	19.87	from P. 17		
215+55.7	/Mt. Sewer	3.8	16.1	
"	10' Rt M.H.	3.0	16.9	Rim
"	" " "	11.96	7.91	Flo.
"	209.4 Lt "	12.57	7.30	Rim
"	" " "	19.34	0.53	Flo.
+59	Edge walk	3.4	16.5	
+63		3.6	16.3	
+75		5.2	14.7	
+90	& Rt 16" Ewcol			
215+97.95		6.0	13.9	
"	14 Rt	0.7	19.2	
"	25 Rt Pav. edge	0.75	19.12	
"	25 Lt	8.4	11.5	
+99	& Rt PP			
216+50		6.3	13.6	
T.P.	4.69 1807	6.49	13.38	
217		4.2	13.9	
+50		3.9	14.2	
+57	6.5 Rt P.P.			
218		2.5	15.6	
"	10 Rt	1.3	16.8	
"	20 Lt.	4.4	13.7	

		18.07			
T.P.	5.89	22.67	1.29	16.78	
218 + 29			6.0	16.7	
+ 48			4.0	18.7	
+ 85			4.6	18.1	
219			3.0	19.7	
+ 13.90	Δ 61°32'30" Lt.		2.5	20.2	
+ 37			4.7	18.0	
+ 50			5.1	17.6	
220			5.5	17.2	
+ 50			5.9	16.8	
221			6.5	16.2	
T.P. Stub	8.73	24.23	7.17	15.50	221+48.77
+ 30.6	Int. Sewer		8.4	15.8	ground
"	43' Lt. M.H.		10.64	13.59	P.I.
"	"	"	16.62	7.61	F.L.
221 + 48.77	Δ = 90°02'30" Rt.		8.73	15.50	Stub
+ 75			7.8	16.4	
+ 77	Con. ditch		8.5	15.7	
+ 79	"	"	10.6	13.6	
+ 81	E "	"	10.6	13.6	
+ 83	"	"	10.5	13.7	
+ 85	"	"	8.4	15.6	
+ 88			7.6	16.6	

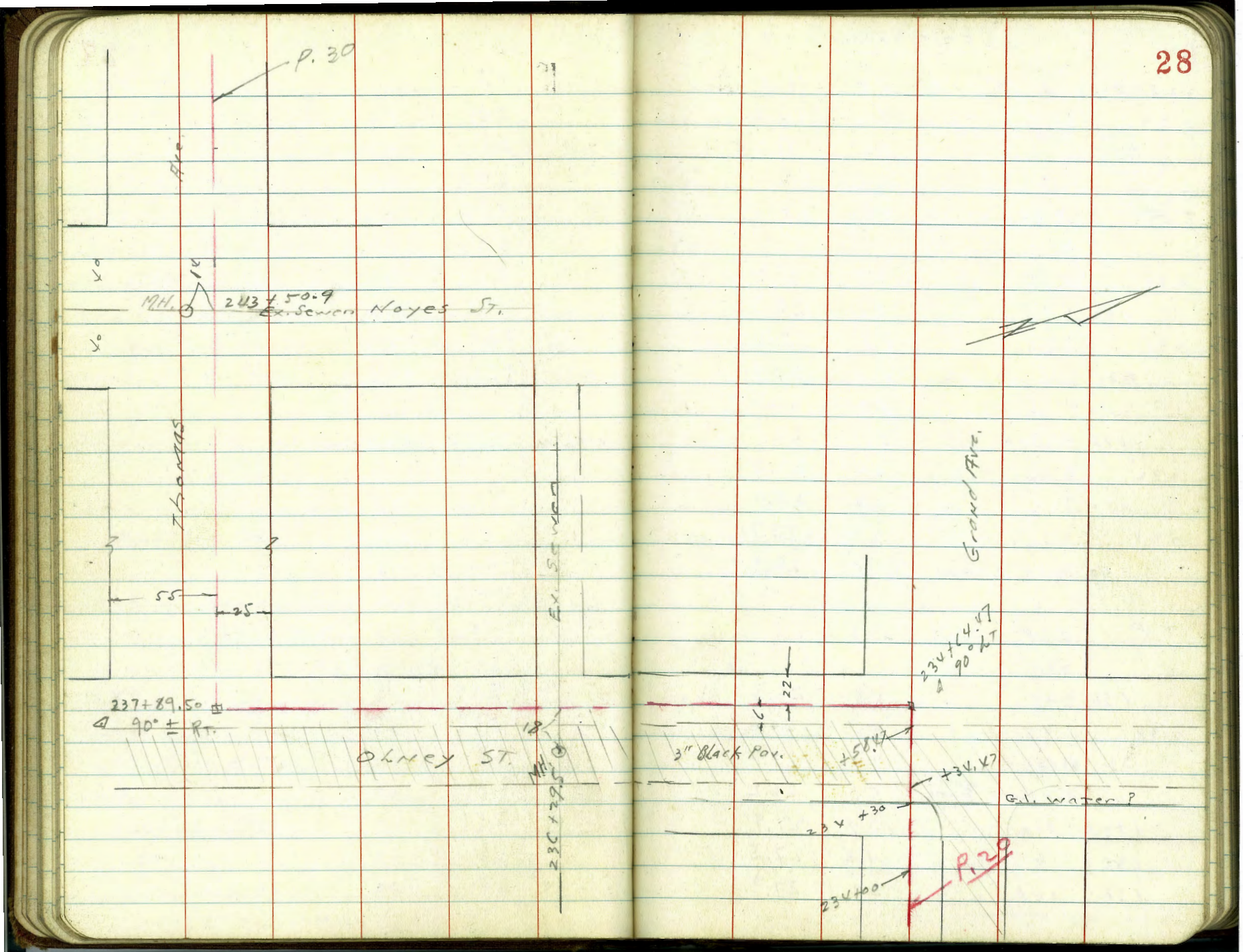
24.23

222		7.6	16.6	
+50		6.2	18.0	
223		5.0	19.2	
+50		3.6	20.6	
224		2.4	21.8	
+50		1.6	22.6	
+76.3		0.8	23.4	
"	16' Rt M.H.	0.68	23.55	Rim
"	" "	6.68	17.55	F.L.
224+92.32	Δ = 90°01'30" Lt.	0.49	23.74	Stub
T.P.	1.47	25.21	0.49	23.72	Stub Δ

Pendleton & Hornblend

225		1.5	23.7
+47.5	Beg. Pav.	2.0	23.2
226		3.2	22.0
+50.6	Intersect Sewer	4.3	20.9
"	16' Lt M.H. Rim	4.51	20.70
"	" " " F.L.	no conn do	
227		5.5	19.7
+50		6.6	18.6
+57.2	end Pav.	6.7	18.5
228		7.4	17.8
+30.2	Beg. Pav.	8.0	17.2
+50		9.1	16.1
+69.4	End Pav.	8.6	16.6

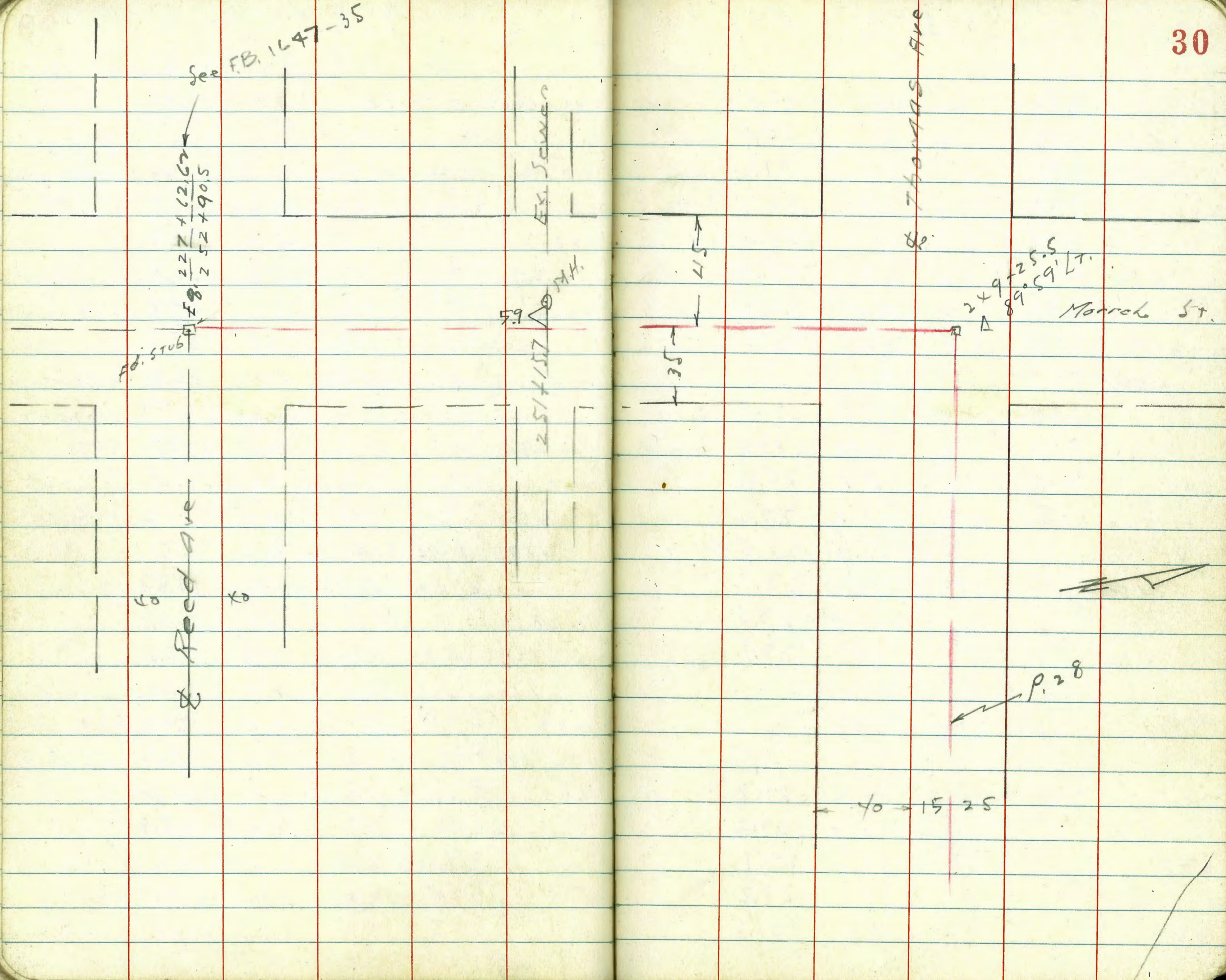
CONT'D P. 29


P. 30
Ave.
MH.
243+50.9
Ex. Sewer Noyes St.
Thomas
55
25
237+89.50
90° ± Rt.
Ex. Sewer
18
MH.
236+29.5
Olney St.
Grand Ave.
234+64.47
90° Rt.
22
3" Black Pov.
+58.47
+34.47
G.I. water ?
234+30
234+00
P. 29

		25.21	from P. 27		
228+82.3	Δ 89°57' Rt		8.9	16.3	
229			8.9	16.3	
+30	= Beg. Lawn				
+50			7.2	18.0	
T.P.	9.86	27.87	7.20	18.01	
230			8.5	19.4	
+50			7.6	20.3	
231			6.8	21.1	
+36	end Lawn		6.1	21.8	
+50			5.9	22.0	
+73	Beg. "		5.0	22.9	
232			4.4	23.5	
+50			2.9	25.0	
233			2.2	25.7	
+40	end Lawn		1.6	26.3	
T.P.	5.64	31.75	1.76	26.11	
+50			5.5	26.3	
234			5.2	26.6	
+30	ground		4.4	27.4	
"	Top Vent	water Gate valve	5.6	26.2	
+34.4	Beg. Pav.		3.9	27.9	
+46.4	E "		4.3	27.5	
+58.4	end "		3.9	27.9	

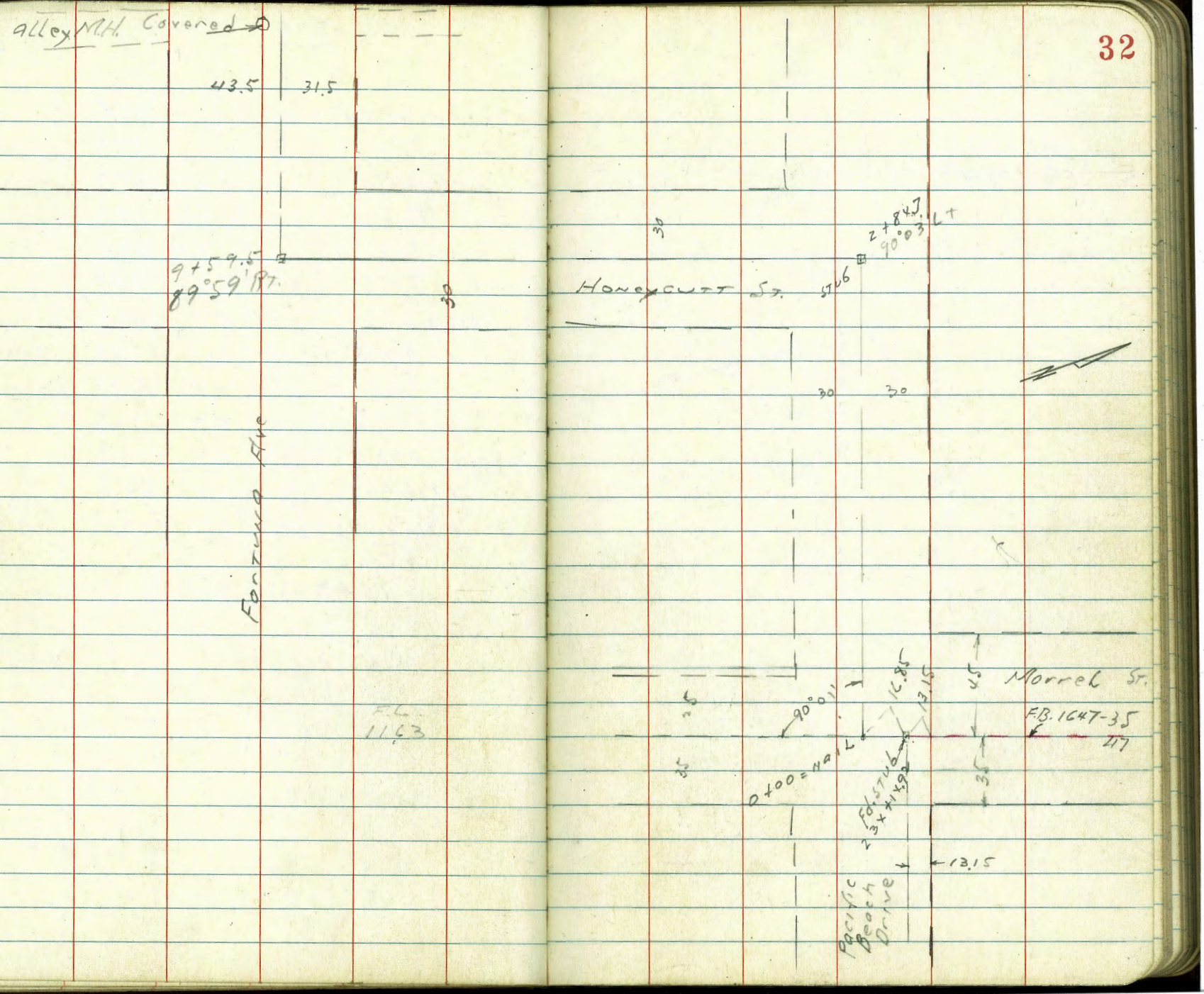
		31.75			
234+64.47	Δ 90° Lt.		3.7	28.1	
T.P. SW 1" Mon.	4.50	31.82	4.43	27.32	Grand Rapids Datum 27.38 +0.06
235			4.4	27.4	
+50			5.6	26.2	
236			7.2	24.6	
+29.5			7.9	23.9	
"	18" Lt	M.H.	8.74	23.08	Rim
"	"	"	15.03	16.79	Invert
+50			8.4	23.4	
237			9.3	22.5	
+50			10.6	21.2	
+89.5	Δ 90° Rt		11.7	20.1	
"	6' Lt	wedge Pav.	11.95	19.87	
238			10.9	20.9	
+25			9.6	22.2	
+50			8.7	23.1	
239			7.8	24.0	
+50			7.6	24.2	
240			6.8	25.0	
+50			6.0	25.8	
T.P.	2.79	34.41	4.70	27.12	

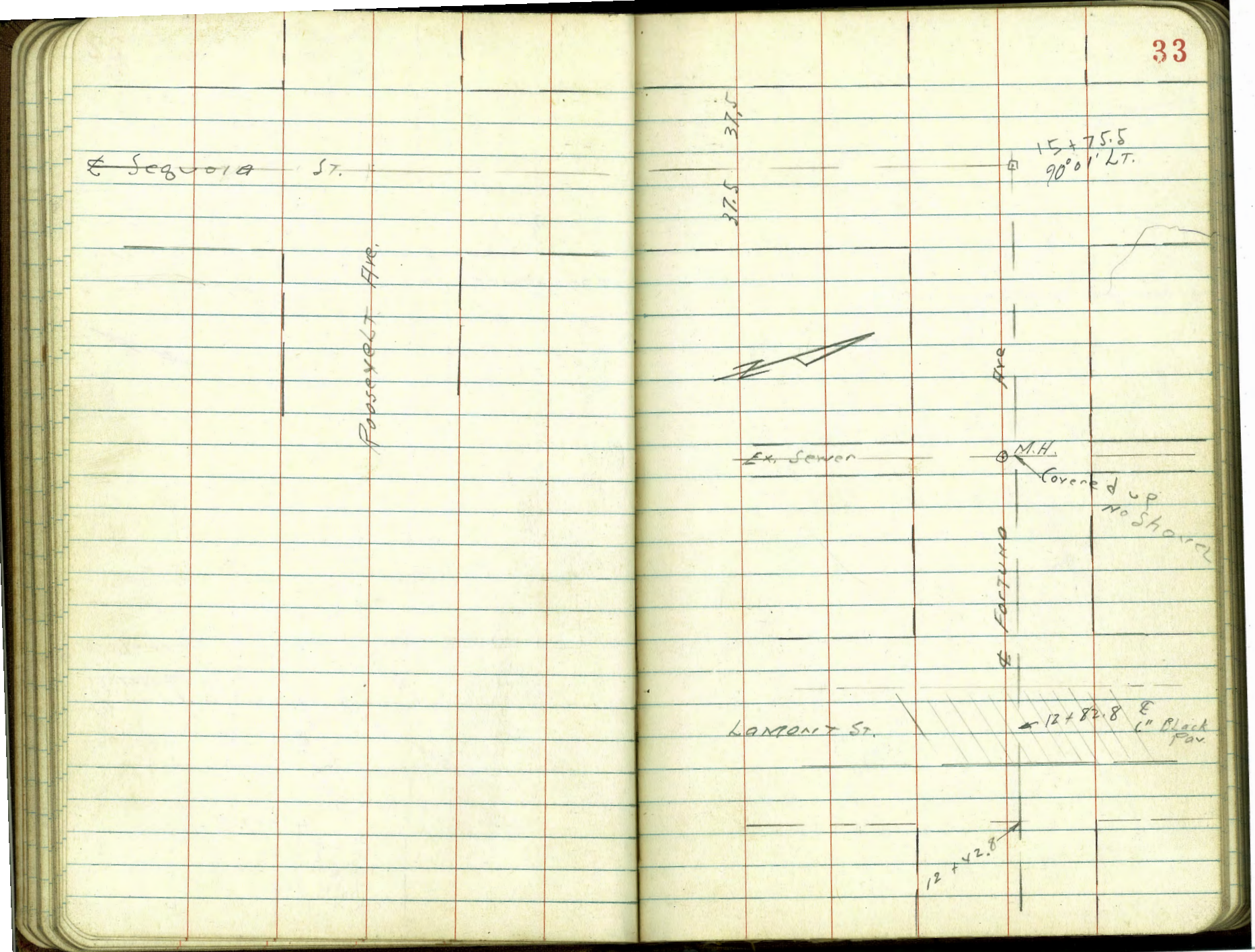
Contd. p. 31

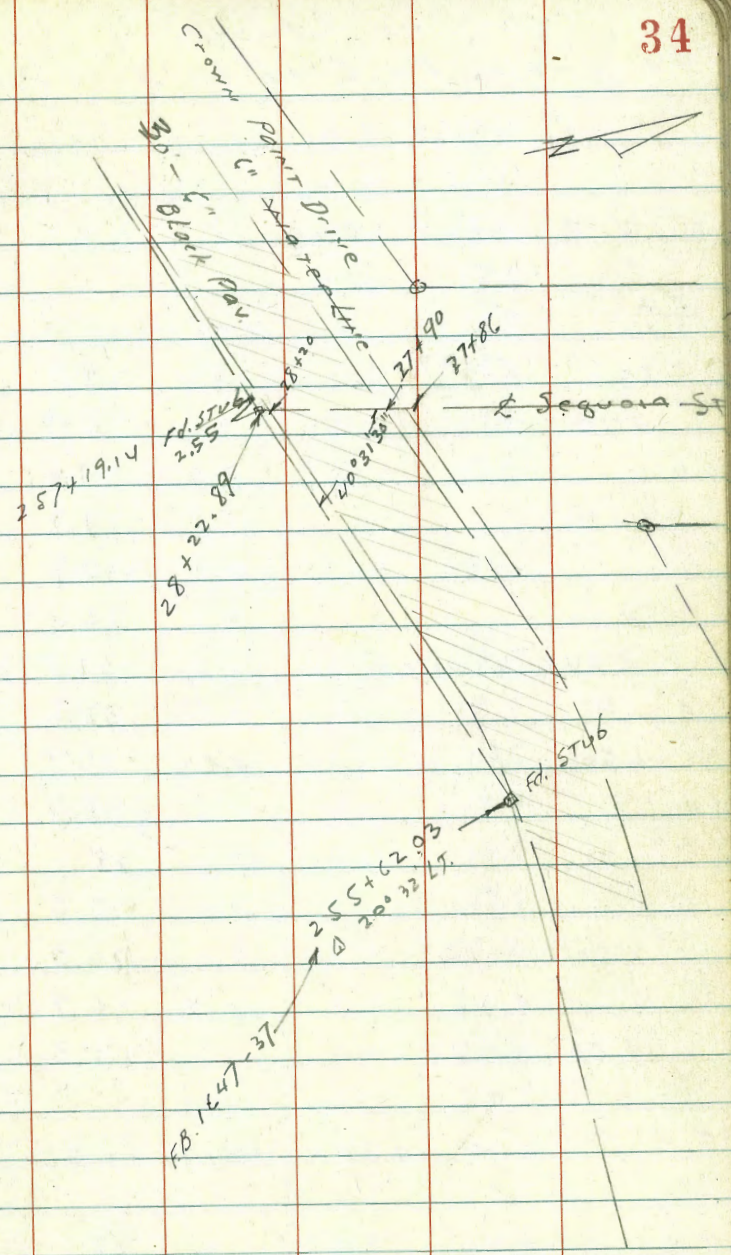

See F.B. 1647-35
Fd. stub
Reed Ave
Ex. Sewer
M.H.
5.9
25+15.7
45
35
Thomas Ave
24+25.5
89°59' Lt.
Marsh St.
p. 28
40 15 25

		34.41	from P. 29		
241			C.C	27.8	
+50			4.1	30.3	
+75			2.6	31.8	
242			1.7	32.7	
+25			1.1	33.3	
+50			0.9	33.5	
+75			1.2	33.2	
243			2.1	32.3	
+50.9			5.5	28.9	
"	12" Lt.	M.H.	5.16	29.25	RIM
"	"	"	13.95	20.46	INVERT
244			8.8	25.6	
+50			10.8	23.6	
245			11.9	22.5	
+50			12.3	22.1	
246			10.9	23.5	
+50			9.7	24.7	
T.P.	12 Ct.	37.0 C	9.97	24.44	
247			12.3	24.8	
+50			12.9	24.2	
248			12.0	25.1	
+50			8.9	28.2	
249			5.3	31.8	

	37.0 C			
249+25.5	∠ 89°59' Lt.	3.6	33.5	
+53		3.1	34.0	
+58		2.3	34.8	
250		2.2	34.9	
+50		2.6	34.6	
251		3.2	33.9	
+15.7		3.5	33.6	
"	5.9 Rt.	M.H.	3.13	33.93	RIM
"	"	"	14.78	22.28	INVERT
+50		4.5	32.6	
252		5.4	31.7	
+50		6.6	30.5	
252 +90.5 = Eq.		7.49	29.57	STUB. 29.53
227+62.5				.04
F.B. 1 C 47-46				


alley M.H. Covered
43.5
31.5
9+59.5
89°59' Rt.
30
Fontana Ave
FC
11.63
30
2+84.7
90°03' Lt
Honeycutt St.
30
30
Morrell St.
90°01'
16.85
13.15
45
F.B. 1647-35
117
0+00 = Half
Fontana
2+14.90
35
13.15
Pacific
Beach
Drive


℄ Sequoia St.
Roosevelt Ave.
37.5
37.5
15+75.5
90°01' Lt.
Ave
Ex. Sewer
M.H.
Covered up
No Shown
℄ Fortuna
Lamont St.
12+82.8
℄
6" Black
Pav.
12+42.8


Crown Point Drive
6" Water Tectric
30 - 4" Block Dav
N
℄ Sequoia St
27+86
27+90
28+30
Fd. Stub
2.55
257+19.14
28+22.89
Fd. Stub
255+62.03
20.32 Lt.
Fd. Lt 47 - 37

Sewer Levels
from Pac. Beach Dr. & Monrch
to Crown Pt. Dr. & Sequoia

				Pac. B. Dr	
SW 7' Mon	12.17	35.49		23.32	Marcel
EB.					
0+00	See Sketch P. 32		12.2	23.3	
+35			10.6	24.9	
+70			9.2	26.3	
1			7.9	27.6	
+50			5.8	29.7	
2			4.6	30.9	
+50			3.5	32.0	
2 +84.7	Δ 90°03' Lt		3.0	32.5	
3			3.3	32.2	
+50			4.6	30.9	
4			6.0	29.5	
+50			7.3	28.2	
5			8.5	27.0	
+50			9.5	26.0	
6			10.8	24.7	
+50			12.2	23.3	
T.P.	1.68	250.4	12.13	23.36	
7			2.9	22.1	
+50			3.9	21.1	

250.4

8			4.3	20.7	
+50			4.9	20.1	
9			5.4	19.6	
+50			6.0	19.0	
9+59.5	Δ 89°59' Rt		6.1	18.9	
10			6.0	19.0	
+50			5.6	19.4	
11			5.4	19.6	
T.P.	7.25	26.91	5.38	19.66	
11+16			7.4	19.5	
"	6' Lt	M.H.	8.1	18.8	Rim
"	"	ground	7.2	19.7	Look up EL
+50			7.5	19.4	
12			7.3	19.6	
+42.8	EL Lamon		7.0	19.9	
+74	pav.		6.7	20.2	
+83	"		6.5	20.4	
+94	"		6.8	20.1	
13			6.6	20.3	
+50			4.7	22.2	
14			3.8	23.1	
+50			2.3	24.6	
15			0.7	26.2	

		26.91			
T.P.	5.23	31.62	0.52	26.39	
15+50			4.0	27.6	
15+75.5	∠ 90°01'Lt		3.2	28.4	
16			3.7	27.9	
+50			4.5	27.1	
17			5.4	26.2	
+50			6.4	25.2	
18			7.3	24.3	
+50			8.1	23.5	
19			8.9	22.7	
T.P.	6.14	28.23	9.53	22.09	
+50			6.2	22.0	
20			6.5	21.7	
+50			6.4	21.8	
21			5.8	22.4	
+50			4.6	23.6	
22			3.2	25.0	
+50			2.5	25.7	
23			2.3	25.9	
+50			2.2	26.0	
24			3.0	25.2	
T.P.	0.41	25.72	2.94	25.31	

		25.72			
24+50			1.6	29.1	
25			2.8	22.9	
+50			3.7	22.0	
26			4.3	21.4	
+50			5.1	20.6	
27			5.8	19.9	
+50			5.8	19.9	
+90	Pav.		5.6	20.1	
28	"		5.2	20.5	
+20	"		5.2	20.5	
28+22.89	∠ 40°31'30 Pt.		5.4	20.3	
Check to BM Spike P.P. Crown Pt. Dr. and Lo Playa Ave. TC 47-48			2.4	23.58	23.55 0.03

Pacific Beach Trunk Sewers

Line change from
137+94.30 to 149+46

See F.B. 1661 p. 25 and 39
W.O. 155

TRUNK SEWER #2

C. Moore
Jon McMeyer
W. Fox
E. B.

11-29-46

149+46
20° 32' Lt.
F.B. 1661-39

1661/6

Eq. 145+00 / 144+98.83 Δ 2° 46' 30" Lt

P.O.T. 143+50.60

℄ Cobble ditch
140+61

1661/25

137+94.30
~~Δ = 2° 11' Lt.~~
Δ = 5° 53' Lt.

P.O.T. 130+76

Levels on Line change

+ 50				
T.P	9.14	15.60	10.09	6.46
139+10				
+85				
+60				
+30				
138+00				
137+94.3 New ∠ 2°11' LT.	6.14	16.55	10.41	H.46

FB. 1661-35

LT = West ℄ RT

EL.	6.9	8.0	14.6
	9.2	7.6	1.0
	10		10

15.60

EL.	5.7	6.9	11.3
	10.9	10.2	2.3
	10		10
EL.	5.5	6.2	12.1
	11.1	10.4	1.5
	10		10
EL.	6.6	9.3	13.8
	10.0	7.3	2.8
	10		10
EL.	8.3	12.2	14.9
	8.3	4.4	1.7
	10		10
EL.	9.6	11.2	13.8
	7.0	5.4	2.8
	10		10

16.55

+57.5 S. edge Cobble ditch

+57

+50

+30

140

139+80

15.60

	Lt	℄	Rt
EL.	2.0	4.8	7.1
	13.6 / 10	10.8	8.5 / 10
EL.	3.9	6.4	8.3
	14.7 / 10	9.7	7.3 / 10
EL.	7.1	8.9	11.7
	8.5 / 10	6.7	3.9 / 10
EL.	7.0	8.8	12.5
	8.6 / 10	6.8	3.1 / 10
EL.	6.3	10.5	15.5
	9.3 / 10	5.1	0.1 / 10
EL.	6.8	10.3	17.0
	8.8 / 10	5.3	+ 1.4 / 10

15.60

+ 50

+ 34

1 x 1

+ 93

+ 70

+ 6.4 N. edge Cobble ditch

+ 6.3.5

15.60

	Lt	℄	Rt
EL.	7.0	11.2	13.3
	8.6 / 10	4.4	7.3 / 10
		12" dia. Palm	
EL.	6.6	10.8	12.8
	9.0 / 10	4.8	7.8 / 10
EL.	6.6	9.0	9.8
	9.0 / 10	6.6	5.8 / 10
EL.	7.4	9.2	12.7
	8.2 / 10	6.4	7.9 / 10
EL.	3.8	6.2	8.4
	11.8 / 10	9.4	7.2 / 10
EL.	2.0	4.8	7.1
	13.6 / 10	10.8	8.5 / 10
		15.60	

1+3				
+85				
+50				
+20				
I.P.	12.76	16.11	12.25	3.35
1+2				
+75				
+60				
		15.60		

EL.	9.0	12.2	14.3
	7.1	3.9	1.8
	10		10
EL.	7.7	10.7	14.4
	8.4	5.4	1.7
	10		10
EL.	8.9	11.7	14.4
	7.2	4.4	1.7
	10		10
EL.	7.5	10.4	13.5
	8.6	5.7	7.6
	10		10
		16.11	
EL.	6.4	9.3	14.3
	9.2	0.3	1.3
	10		10
EL.	5.4	11.1	13.3
	10.2	4.5	7.3
	15		10
EL.	7.2	10.1	12.0
	8.4	5.5	3.6
	10		10
		15.60	

+48

+30 9' LT to 4" dk. Pine

144+17

+90

+70

... +50.6 P.O.T.

143+22

16.11

	LT		RT
EL.	6.3	10.5	11.8
	9.8	5.6	4.3
	10		10
EL.	6.1	7.0	9.8
	10.0	9.1	6.3
	10		10
EL.	6.6	10.0	13.7
	9.5	6.1	3.4
	10		10
EL.	7.9	10.3	14.1
	11.7	5.8	2.0
	10		10
EL.	8.0	10.7	14.1
	8.1	5.4	2.0
	10		10
EL.	9.2	13.0	13.9
	6.9	3.1	2.2
	10		10
EL.	10.0	13.0	15.0
	6.1	3.1	1.1
	10		10

16.11

Lt ℄ Rt

145+00
144+98.83 Δ 2° x ℄ 30" Lt.

+84 7 Rt 4" dia. Pine

144+75

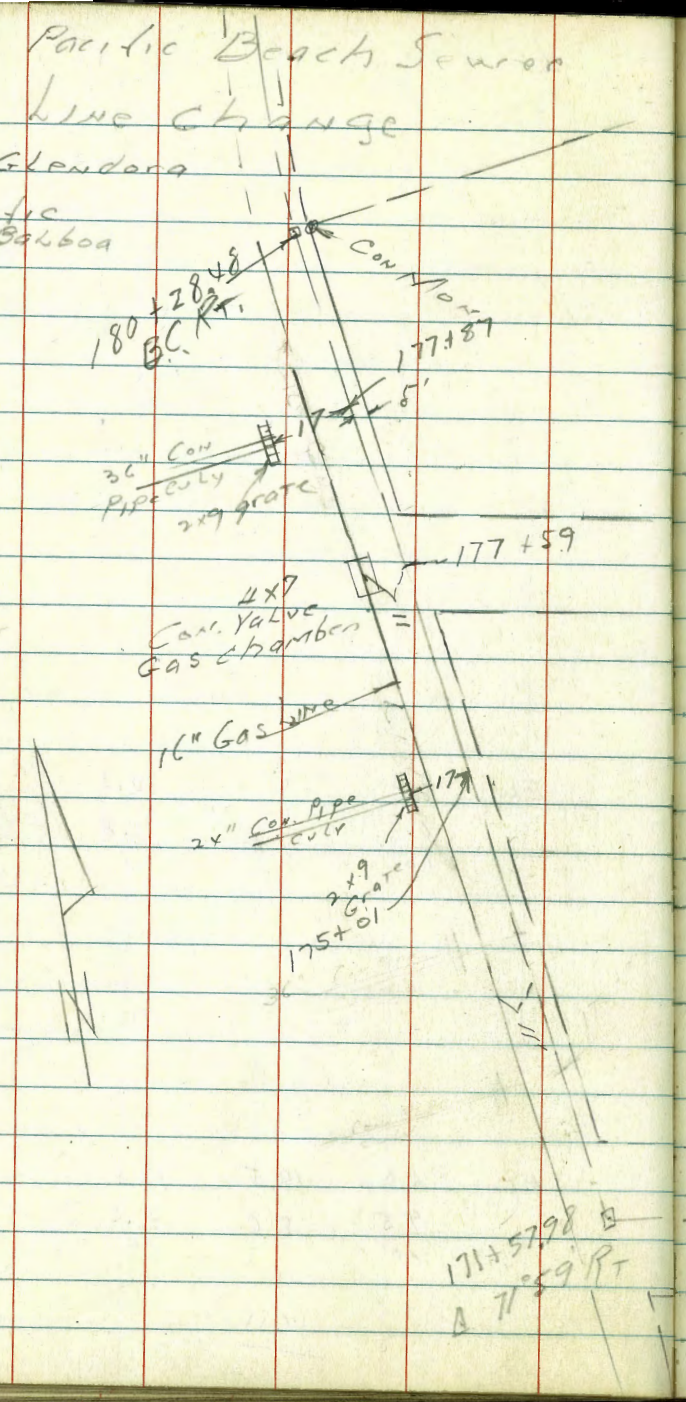
16.11

EL. 8.0 ℄ 10.3
8.1 7.1 5.8
10

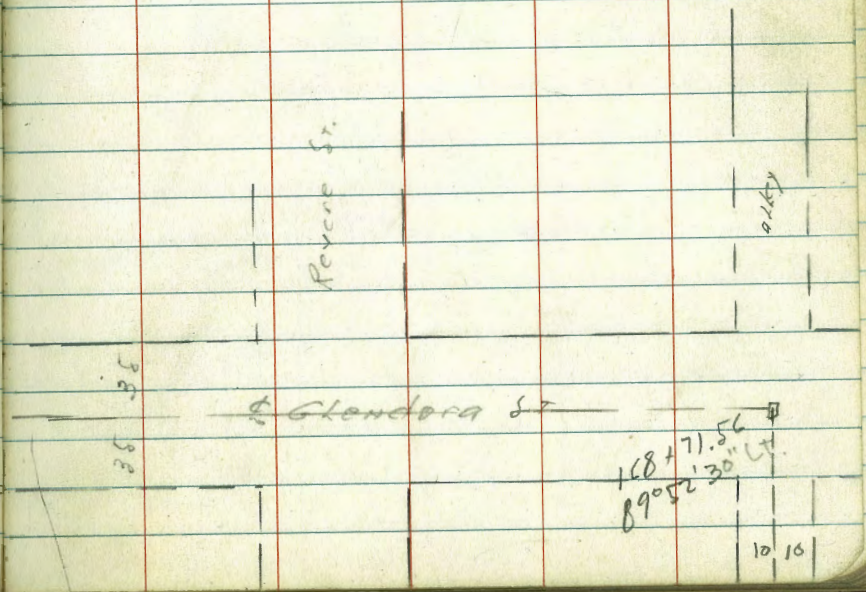
EL. 6.6 10.5 12.5
9.5 5.0 3.0
10

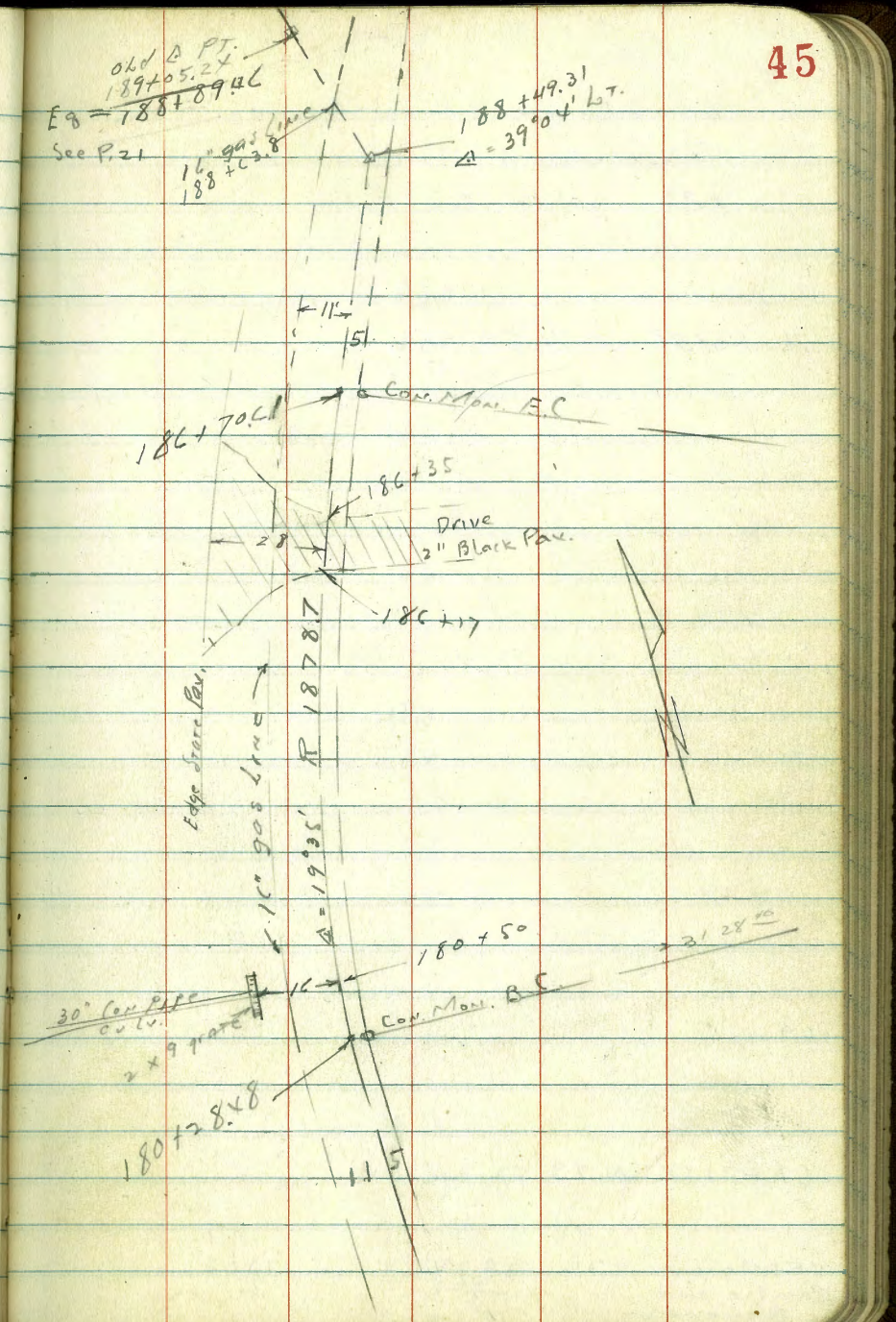
16.11

Pacific Beach Sewer
Line Change
from Glendora
to Pacific
S. of Balboa



Bunker Hill St.




Old ℄ PT.
189+05.24
Eq = 188+89.46
See P. 21
16" gas Line
188+62.8
188+49.31
Δ = 39°04' Lt.
11
51
Con. Mon. E.C
186+70.61
186+35
Drive
2" Black Pav.
28
186+17
Edge Stone Pav.
16" Gas Line
R 187.87
Δ = 19°35'
180+50
16
30" Con Pipe
Culv.
2 x 9 Plate
Con. Mon. B.C
31.28
180+38.48
11.5

Levels on Line change
Glendora to Baldwin

+80 10' Rt Tel. Pole

171 +57.98 Δ 71°59' Rt

171

+50

170

+50

169

168+71.5C Δ 89°52'30" Lt.

NEMON 9.2C 19.3X 10.08
Pacific and
Revere St.

Lt ℄ Rt 46

El. 9.40
9.9X
STUB

El. 10.7
8.C

El. 12.5
C.8

El. 13.9
5.X

El. 15.5
3.8

El. 16.7
2.C

El. 18.08
1.2C
STUB

19.3X

175 + 01

+ 50

+ 45 13 LT Tel. Pole

174

+ 50

+ 18 1x' LT Tel. P.

173

T.P. 5.06 15.00 9.40 9.94

+ 50

172 + 00

171 + 94 1x LT Tel Pole

1934

LT

EL. 9.27

5.73

ON grade

℄

EL. 10.4

4.6

EL. 10.1

4.9

EL. 9.7

5.3

EL. 9.5

5.5

EL. 9.5

5.5

15.00

EL. 9.5

9.8

EL. 9.4

9.9

19.34

+50

178

T.P. 5.10 16.04 4.04 10.96

+87

+59

+50

+40 5 Rt Power Pole

+35 13 Lt Tel. Pole

177

+50

176

+67 13' Lt Tel Pole

178+50

1500

Lt ℄ Rt

EL. 10.0
6.1

EL. 10.6
5.5

16.04

EL. 10.0
5.0
17
Top grade

EL. 10.6 10.4
4.4 4.6
11
Top. of
Gas valve
chamber

EL. 10.2
4.8

EL. 10.0
5.0

EL. 9.8
5.2

EL. 9.9
5.1

EL. 10.2
4.8

15.00

+50

+32 13' Lt Tel. Pole

187

+50

181

+CL 13' Lt Tel Pole

+50

+28.48 BC Rt

180

+50

179 13' Lt. Tel. Pole

1406

Lt ℄ Rt

EL. 12.5

3.C

EL. 12.2

3.9

EL. 11.5

4.C

EL. 10.7

5.4

EL. 10.4 11.2

5.7 4.9

1C

Top grade

EL. 10.9

5.2

EL. 11.2

4.9

EL. 10.8

5.3

EL. 10.2

5.9

1406

		Lt	℄	Rt
+17	Sedge Pav. Strip			
			El. 15.1	
			4.5	
186				
			El. 14.7	
			5.2	
+61	14' Lt Tel. Pole			
+50			El. 14.0	
			5.6	
185				
		El. 13.3	13.3	16.3
		6.3 C	6.3	3.3 C
+50				
		El. 13.0	14.2	17.9
		6.6 C	5.4	1.7 C
184				
+95	13 Lt Tel. Pole	El. 12.7	14.8	18.3
		6.9 C	4.8	1.3 C
+50				
		El. 12.4	14.5	18.1
		7.2 C	5.1	1.5 C
183				
		El. 12.6	13.5	15.2
		7.0 B	6.1	4.4 C
T.P.	8.16 / 19.63 / 11.47		19.63	

+49.31 Δ 39° 0' Lt

188

+89

+56 4' Lt to P.P. Guy Pole

+50

187

186+70.61 E.C.

T.P. 6.12 20.34 5.41 14.22

+54 14' Lt. Palm Tree

+50

186+35 N edge Pav. Strip

19.63

Lt

℄

Rt

EL. 15.0

2.3

EL. 17.4

2.9

EL. 17.1

3.2

EL. 16.3

4.0

EL. 15.6

4.7

EL. 15.2

5.1

20.3x

EL. 15.1

4.5

EL. 15.4

4.2

19.63

189+05.2V
188+89.46 = Eq. = old ⚓ 17.

+63.8 Intersect 16" Gas Line

188+55

EL. 16.4
3.9

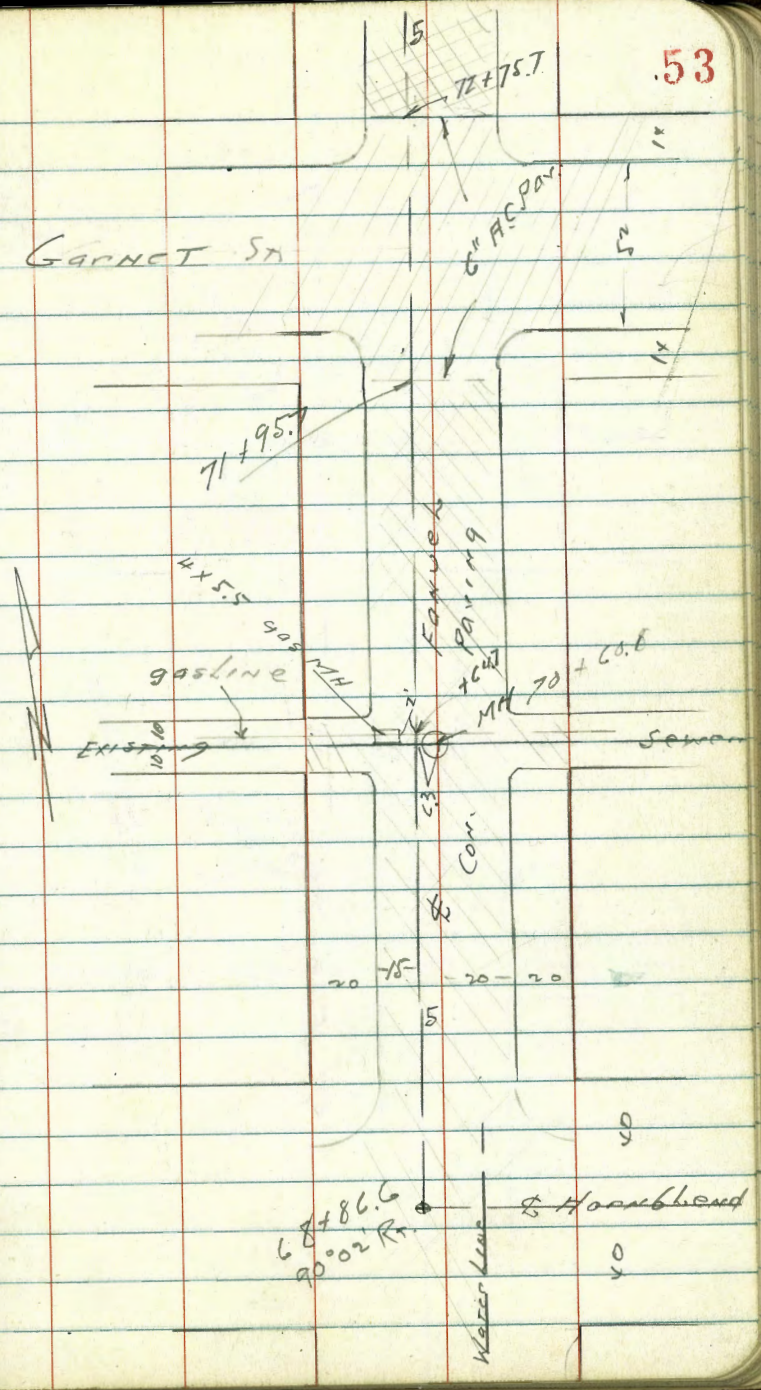
EL. 16.7
3.6
ground

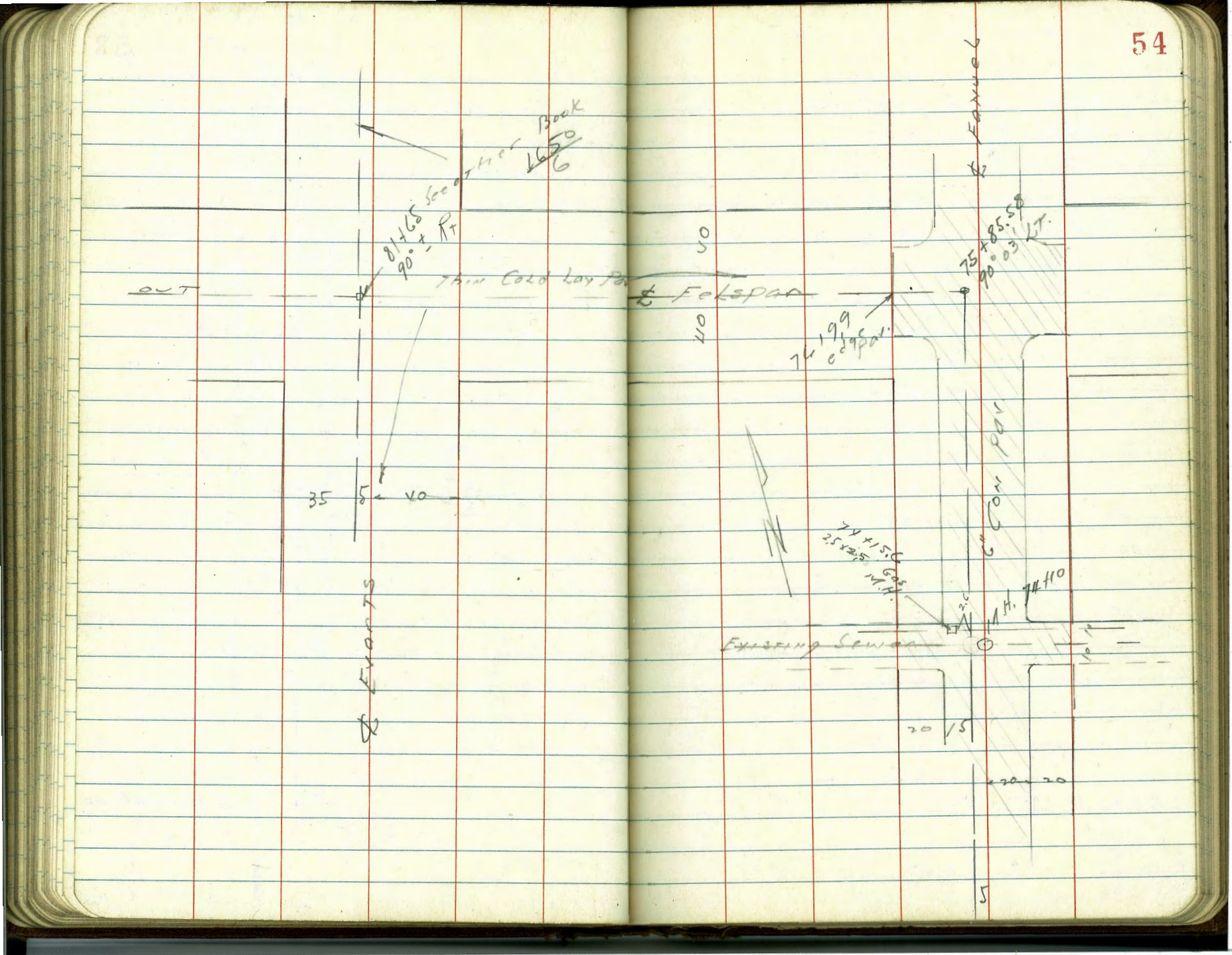
EL. 16.7
3.6

Line change on Moore Sanitation Dist. Trunk Sewer
Hornblend & Fennel
and
Exact & Felspar W.O. 155

(Moore Sanitation Dist. E.B. 12-1-xx)

See F.B. 1650-6




Block
81+65 See other
90° ± Rt
OUT
Thin Cold Lay Pat
Existing
35
5
10
Felspar
75+85.58
90° 03' Lt.
74+99
Felspar
Existing Sewer
74+15.50
2.5 x 2.5
M.H.
M.H. 74+10
20
5
20
20
5

Levels on Line Change

+60.8 ℄ alley

+50

70

+50

+266

+07

.69

L 8+86.6 90°02' Rt

ON PAV
℄ Fanuel 7.59 48.53 40.94
1650-36

℄ Rt

55

EL. 43.34 43.50 37.70
5.19 5.03 10.83
6.3 6.3
R.M FL M.H.

EL. 43.20
5.33

EL. 42.52
6.01

EL. 41.79
6.74

EL. 41.30
7.23

EL. 40.88
7.65

EL. 40.93
7.60

EL. 40.93
7.60

48.53

73

+75.7 NL Garnet

+35.7

72

71+95.7 SL Garnet

+50

71

70+64.7

48.53

Lt ℄ Rt

EL. 46.75
1.78

EL. 46.44
2.09

EL. 46.11
2.42

EL. 45.60
2.93

EL. 45.53
3.00

EL. 44.79
3.74

EL. 44.02
4.51

EL. 43.34 43.41
5.19/2 5.12
E edge
Rim
Gas WH 48.53

TC				
+85.58	Δ 90°03' LT			
+50				
75				
+50				
+10	Q alley			
74				
73+50				
T.P.	5.28	53.09 48.53	0.72	47.81

LT ℄ RT

EL. 49.85
3.24

EL. 50.65
2.44

EL. 50.11
2.98

EL. 49.35
3.74

EL. 48.72
4.37

EL. 48.22	48.32	41.64	
4.87	4.77	11.45	
	RIM	F.G.	

EL. 48.08
5.01

EL. 47.93
5.16

53.09

+50				
79				
+50				
78				
+50				
77				
+50				
T.P.	3.86	54.74	2.21	50.88
76+19.9	edge Con pav.			
		5309		

℄

EL. 49.1
5.6

EL. 49.6
5.1

EL. 50.0
4.7

EL. 50.3
4.4

EL. 50.4
4.3

EL. 50.8
3.9

EL. 51.0
3.7

54.74

EL. 50.56
2.53

5309

check to NWBP	Garnet Evans	8,41	39,54	39,54	
T.P.	2.1N	47,95	8.41	45,83	
81+65	See other Book				
+46					
81					
+50					
80					
		54,74			

El. 45.6
8.9

El. 45.6
8.9

El. 47,2
7,5

El. 48.0
6,7

El. 48.7
6.0

54,74

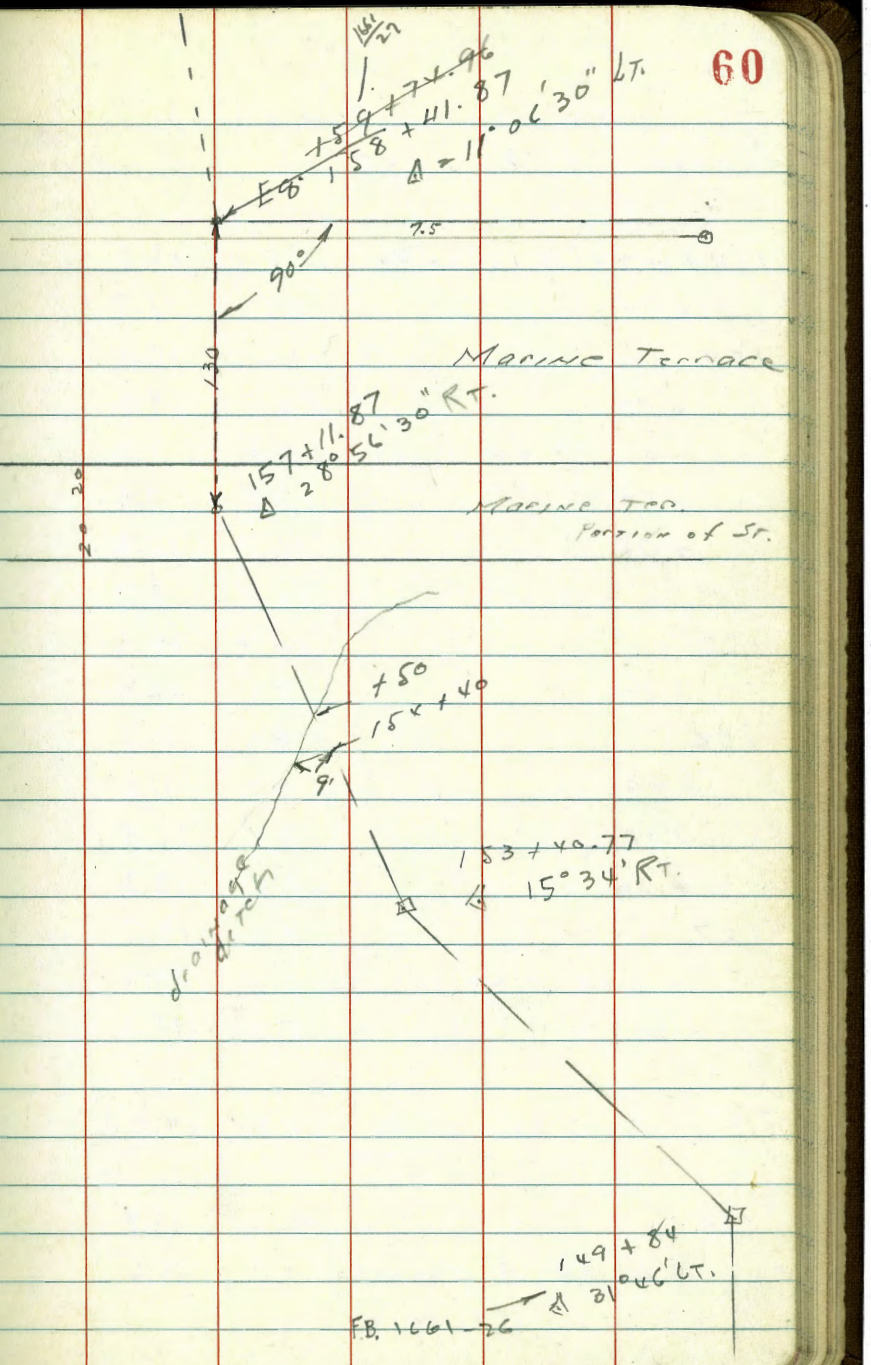
TRUNK SEWER #2

Proposed Line change
Pacific Beach Trunk Sewer

Betw. 149+84 and 159+74.96

C.S.A.
C.S.
W.M.
E.B.
12-10-46.

W.O. #155



Levels on Line change

Sta					F.Book
149+84	9.28	21.28		12.00	1661.37
153+40.77	△ 15°34' Rt		8.5	12.8	
+70			9.6	11.7	
154			11.2	10.1	
+40			12.1	9.2	
"	9' Lt	ditch	14.1	7.2	
+50		"	13.5	7.8	
+65			10.7	10.6	
"	13' Rt	"	12.6	8.7	
155			10.7	10.6	
+50			9.3	12.0	
156			9.1	12.1	
+09			9.7	11.6	
+18			8.8	12.5	
+50			8.0	13.3	
157			6.6	14.7	
+11.87	△ 28°56'30" Rt		6.7	14.7	
+50			5.7	15.6	
T.P.	4.91	21.50	6.69	14.59	
158			4.6	16.9	
Eq +41.87	△ 11°06'30" Lt		2.9	18.6	
= 159+74.96					

Dim. etc. of
Babbog Ave. Bridge

Sta. of 4" drain pipe S.C.B. bridge

		℄ Rt
+35.9		5.4
+27.9		5.39
+13.7		5.4
202+05.6		5.4
+97.2		5.4
+84.5		5.4
+75.8		5.38
+66.4		5.38
+54.6		5.37
+45.6		5.36
201+36.1		5.39 = to curb face

Piles in Caps at 4 ft.

℄ Pt

4" drains

203 + 05.3	5.4
+ 96.1	5.4
+ 87.6	5.4
+ 73.6	5.4
+ 65	5.4
+ 57	5.4
202 + 44.7	5.4 to cb. face

Sta. of ℄ of 12" Brackets
on ℄ Trunk Sewer

202 + 07.34 ℄ Bracket

+ 93.18 " "

+ 91.96 " "

+ 77.36 " "

+ 62.80 " "

+ 61.28 " "

+ 46.75 ℄ Bracket

201 + 36.75 Face of E Abut.

Sta. & 12" Brackets on & Sewer

203 + 16.78 Face of W. Abut.

203 + 11.80 " "

+ 97.28 " "

+ 82.58 " "

+ 81.28 " "

+ 67.05 " "

+ 53.18 " "

+ 51.93 " "

+ 37.30 " "

+ 22.63 " "

202 + 21.34 & 12" Bracket

Sta. of E & W. sides
" Caps on
E. edge of Girder #1 = Most SL
203 + 12.75 E. face of W. Bulkhead
+ 84.40 W edge #5
+ 80.81 E edge #5

+ 57.02 W edge #4
+ 50.50 E edge #4

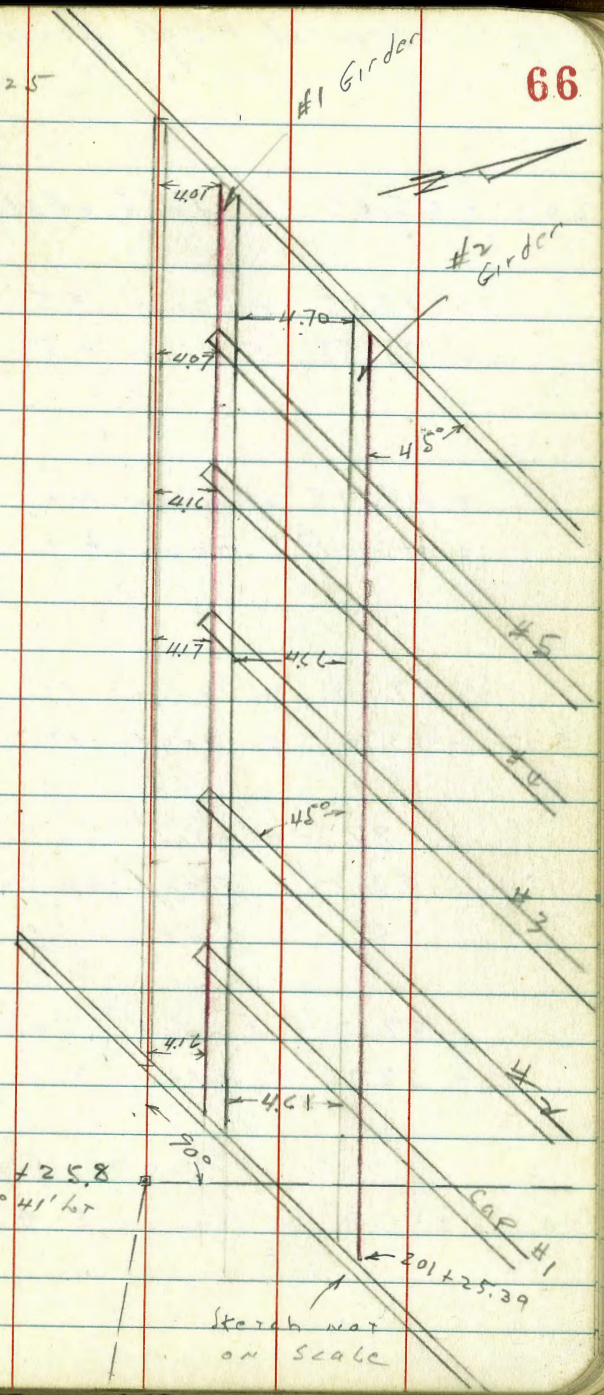
+ 24.35 W edge #3
202 + 20.90 E edge #3

+ 94.45 W edge #2
+ 90.92 E edge #2

+ 64.42 W edge Cap #1
+ 60.97 E edge Cap #1

201 + 32.55 W face of E. Bulkhead

Width Girder = 1.25
Cap =



Sta. of E & W. sides of Caps on N. edge of Girder #2

203 + 05.65 E. face of W. Bulkhead

+ 77.15 W. edge #5 Cap
+ 73.53 E. edge #5

+ 46.95 W. edge #4
+ 43.48 E. edge #4

+ 17.19 W. edge #3
202 + 13.70 E. edge #3

+ 87.30 W. edge Cap #2
+ 83.87 E. edge Cap #2

+ 57.32 W. edge Cap #1
+ 53.75 E. edge Cap #1

201 + 25.39 W. face of E. Bulkhead

Levels on Bottoms of Girders #1 and 2

C SAN C.S. WM E.B.

12-20-46

W.O. 155

202 + 09.22

+ 97.22

+ 81.22

+ 65.22

+ 49.22

201 + 36.75 = W. face of E. Bulkhead at P on ℄ and Bottom of girders

T.P.	5.64	8.60	11.68	2.96
B.M. B.P. S.W. curb of Balboa Ave Bridge	0.92	14.64		13.72

℄	S. edge Girder #1	Rt.	N. edge Girder #2
EL.	10.01		10.15
	± 1.41		± 1.55
EL.	10.02		10.14
	± 1.42		± 1.54
EL.	10.01		10.13
	± 1.41		± 1.53
EL.	10.10		10.17
	± 1.50		± 1.57
EL.	10.13		10.19
	± 1.53		± 1.59

8.60

203 + 12.78 = E. face of W. Bkhd on ℄ approx. level with Bot. of gir

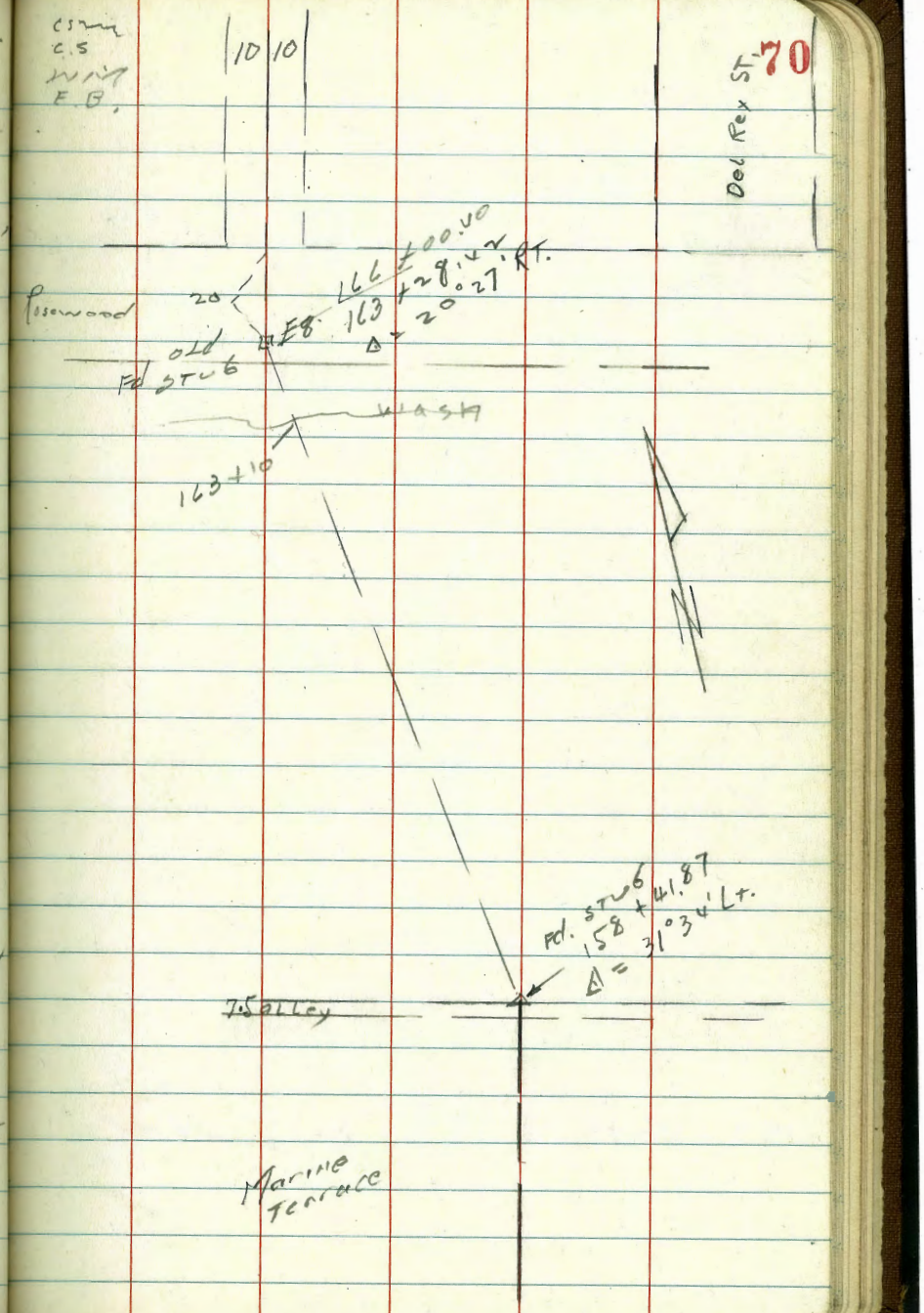
203 + 05.22		6.42	
		0.97	
		5.45	
		12.90	
		18.39	
		4.67	
+ 89.22	BM.	13.72 ✓	
+ 73.22			
+ 57.22			
+ 41.22			
202 + 25.22			
T.P.	4.67	6.42	6.85	1.75
		8.60		

℄	S. edge #1	P.T.	N. edge #2
EL.	9.93		10.02
	+ 3.51		+ 3.60
EL.	10.03		10.08
	+ 3.61		+ 3.62
EL.	9.99		10.11
	+ 3.57		+ 3.69
EL.	10.03		10.09
	+ 3.61		+ 3.67
EL.	10.07		10.21
	+ 3.65		+ 3.79
EL.	10.12		10.18
	+ 3.70		+ 3.76
	6.42		

Line Change - Trunk Sewer #2

N.L. alley, Marine Terrace
to alley on Rosewood

STUB old Δ 159+74.96 same PT.	4.9	34.6		18.54	1661-4 STUB
158+41.87	31°30' Lt.		4.9	18.54	
159			4.6	18.9	
+50			4.2	19.3	
160			5.1	18.4	
+50			4.6	18.9	
161			4.9	18.6	
+50			5.2	18.3	
162			6.5	17.0	
+50			8.0	15.5	
162+85			8.7	14.8	
163			8.3	15.2	
+07			7.6	15.9	
+10	Wash		10.6	12.9	
+13			8.5	15.0	
163+28.2 / 166+00.4	EB. Δ 20°27' Rt. Top STUB .13		8.59	14.87 below ground	1500
check to T.P. Marion Box			8.68	14.78	15.65
Wrong Box			?		



#2 Sewer
W.O. #155
1-30-47

Line change

△ 153+40.77 to ℄ alley at Rosewood St. 166+00.40 = ahead
163+12.85 = Rear
= Bs

Moore
Bc 99

153+40.77 △ 15°57' Rt, Fd old stub

166+00.4
163+12.85
△ = 15°27' Rt

Fd old stub

Rosewood

℄ proposed sewer

Fd Iron

10.4

Bs 1+63.85

87.52

Hwy

63°27'

15 offset

Fd. Mon.

Hwy

Pacific

Wash

154+57

TRUNK SEWER #2

1-30-47

Sketch P. 21

Levels on Linechange

B.M. B.P. Con. Mon. 3'W of W.L. Prol. 2'S of Sta. Mission Bay Parks. To #1120	11.19	14.27	3.08	near sta. Mission Bay	
153+40.77	Δ 15°57'Rt	1.54	12.73	STA 26	
154		3.7	10.6		
+57	average wash	5.0	9.3		
"	in wash Recent Rain	6.2	8.1		
+67		3.8	10.5		
155		3.4	10.9		
+50		1.7	12.6		
T.P.	7.39	20.50	1.16	13.11	
156			7.9	12.6	
+14			8.1	12.4	
+18			8.5	12.0	
+26			7.7	12.8	
+50			6.8	13.7	
+72			5.7	14.8	
157			5.3	15.2	
+50			5.0	15.5	
158			4.2	16.3	
+40.6 = 5L. 75 alley			3.6	16.9	

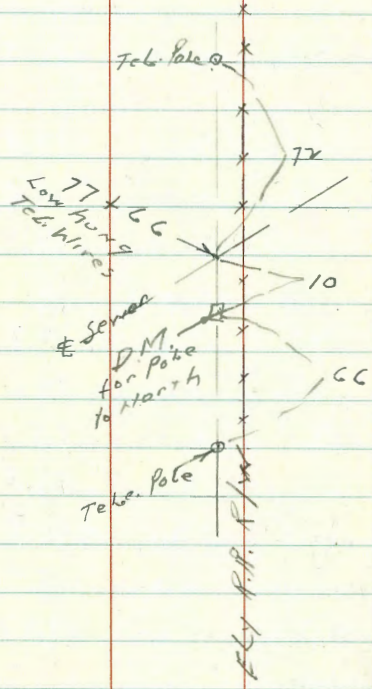
		20.50			
159			3.0	17.5	
+50			3.7	16.8	
160			3.1	17.4	
T.P.	4.03	22.21	2.32	18.18	
750			4.4	17.8	
161			4.4	17.8	
+50			4.9	17.3	
162			6.1	16.1	
+50			7.3	14.9	
+75			7.6	14.6	
+85			6.5	15.7	
+95			9.4	12.8	
+96			9.4	12.8	
163			7.2	15.0	
163+12.5 Eq. ahead 166+00	Δ 15°27'Rt.		7.34	14.87	old stub
Check to T.P. SE Cor Water Mtr. Box			6.55	15.66	15.65
12' Rt of 166+14					
1661-41					

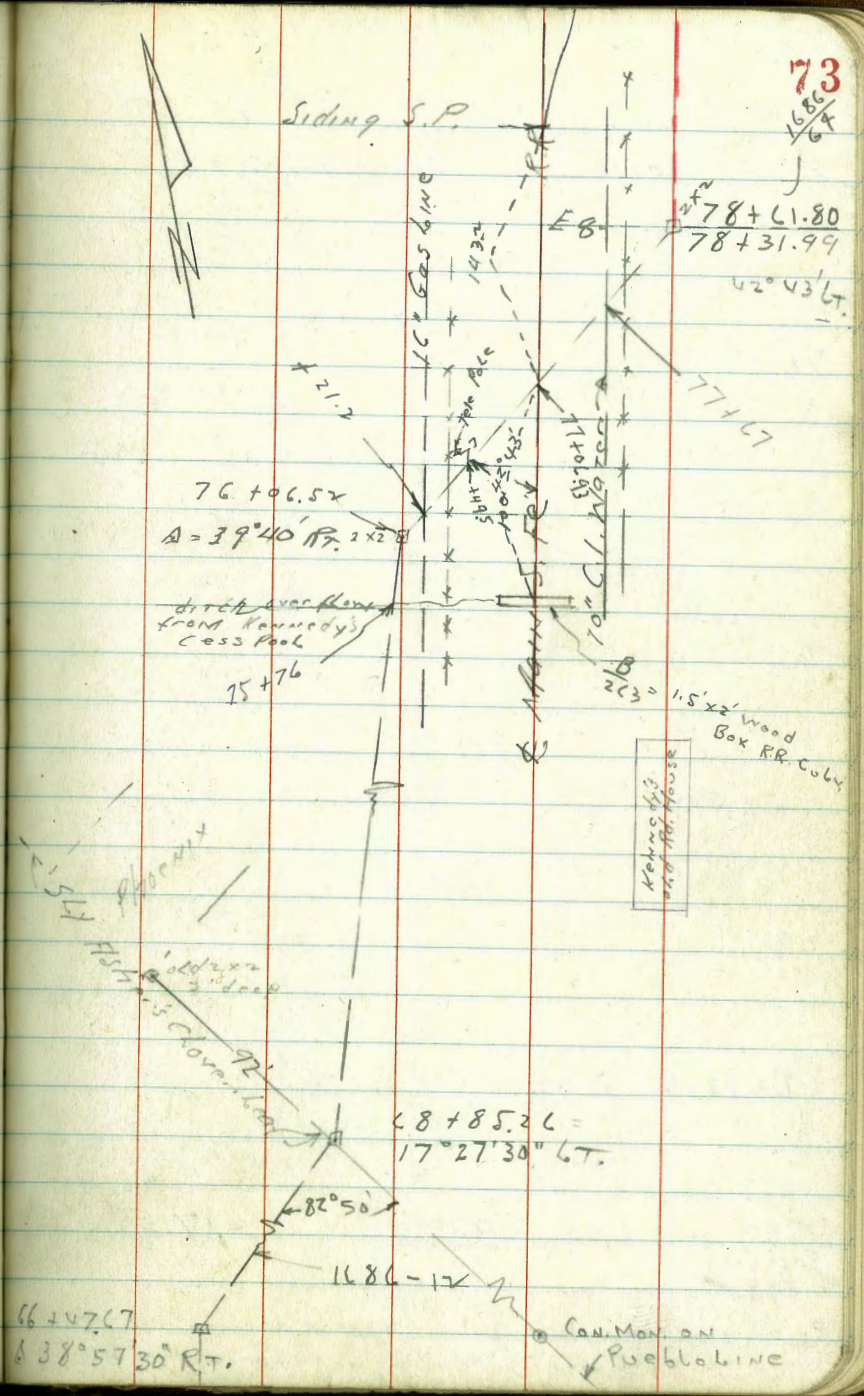
TRUNK SEWER #2

Line change # 20?

Sta. 68 + 85.26 To 78 + 61.80

Moore
Begg
Roberts
Green
2 - 14 - 47





Sewer Levels on Line change Sketch P. 73

			℄
+ 22			EL. 4.7
			4.0
			EL. 2.3
71			6.4
			EL. 1.3
+ 50			7.4
			EL. 1.4
70			7.3
			EL. 1.9
+ 50			6.8
			EL. 2.5
69			6.2
			EL. 2.2
68+85.26	△ PT.		6.5
BM. B.P. on Pacific & Top of	6.54	8.71	2.17
			8.71

E. bound Hwy. Box Culv. approx. Center 1st Curve North of Cudahy Plant or approx. 125 ~~West~~ East of 68+30

T.P.	11.05	14.91	4.85	3.86
75				
+50				
74				
+50				
73				
+50				
72				
71 +50				
		8.71		

E.

EL. 3.0
5.7

EL. 3.3
5.4

EL. 3.6
5.1

EL. 3.9
4.8

EL. 4.0
4.7

EL. 4.7
4.0

EL. 4.7
4.0

EL. 4.7
4.0

8.71

7+50

7+21.2

76+01.52 Δ 39°40' Rt

76

7+77

7+76 ditch

7+75

75+50

1491

℄

El. 5.8
9.1

El. 4.9
10.0

5.33
9.58/2 on 1a-4 STUB
Coll gas Co.
to dig up
16"

El. 3.42
11.49 11.46

El. 3.4
11.5

El. 3.6
11.3

El. 1.7
13?

El. 3.6
11.3

El. 3.2
11.7

1491

+50

+17

+14

+11± TOP E. RAIL

77+06.93 TOP TIE E R.R.

77+04± TOP W. RAIL

+96

+94

76+78

IV.91

℄

EL. 9.3

EL. 10.1
4.8

EL. 10.8
4.1

EL. 11.42
3.49

EL. 10.86
4.05

EL. 11.42
3.49

EL. 10.9
4.0

EL. 10.0
4.9

EL. 8.1
6.8

IV.91

78+61.80

78+31.99 = Eg. ∠ 42°43' LT on Sw6

78

+67 ground over 10" Water Main

77+55

14.91

EL. 13.5 +13.54
1.40 1686-67

EL. 11.9
3.0

EL. 11.4
3.5

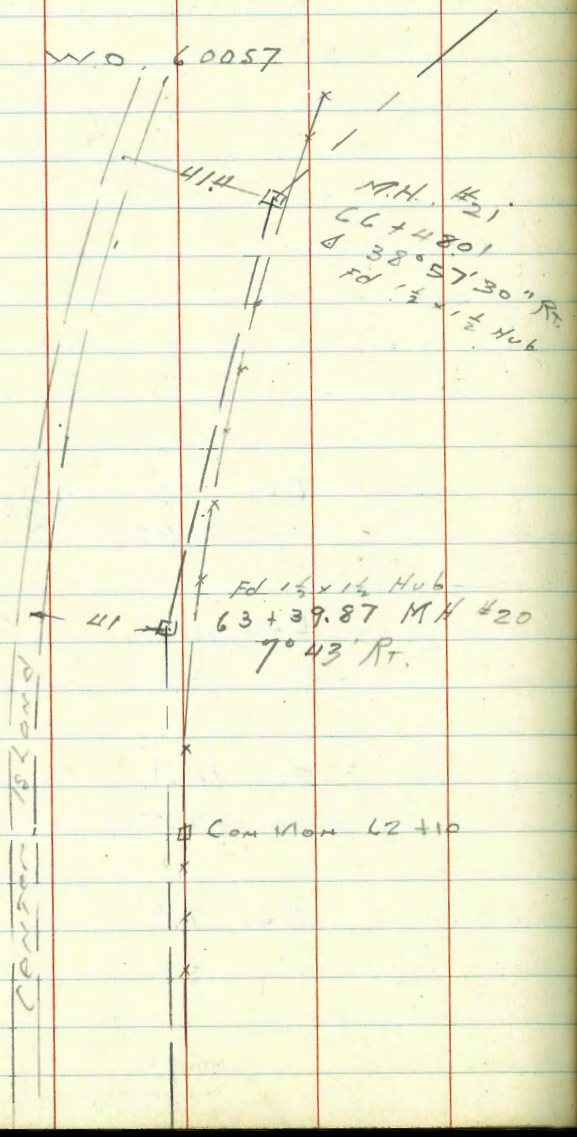
EL. 9.8
5.1

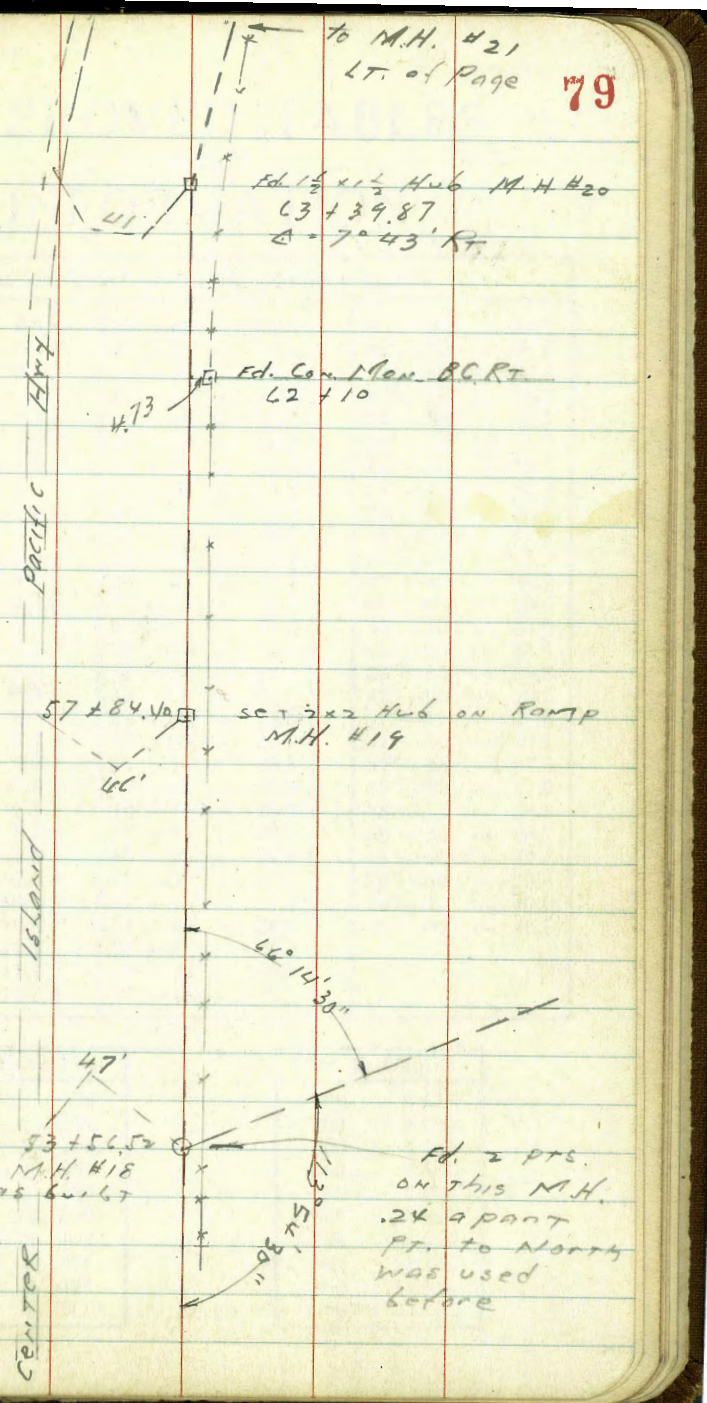
14.91

Line change on
Trunk Sewer #2
at Pt. of Beginning

Moore
Green
Roberts
8-21-47

W.O. 60057





IMPROVED TABLES AND INFORMATION

HORIZONTAL STADIA CORRECTIONS

2°—00′ — 0.1	21°—00′ — 12.8	33°—00′ — 29.7
3°—00′ — 0.3	21°—30′ — 13.4	33°—15′ — 30.1
4°—00′ — 0.5	22°—00′ — 14.0	33°—30′ — 30.5
5°—00′ — 0.8	22°—30′ — 14.7	33°—45′ — 30.9
6°—00′ — 1.1	23°—00′ — 15.3	34°—00′ — 31.3
7°—00′ — 1.5	23°—30′ — 15.9	34°—15′ — 31.7
8°—00′ — 1.9	24°—00′ — 16.5	34°—30′ — 32.1
9°—00′ — 2.5	24°—30′ — 17.2	34°—45′ — 32.5
10°—00′ — 3.0	25°—00′ — 17.9	35°—00′ — 32.9
10°—30′ — 3.3	25°—30′ — 18.6	35°—15′ — 33.3
11°—00′ — 3.6	26°—00′ — 19.2	35°—30′ — 33.7
11°—30′ — 4.0	26°—30′ — 19.9	35°—45′ — 34.1
12°—00′ — 4.3	27°—00′ — 20.6	36°—00′ — 34.6
12°—30′ — 4.7	27°—30′ — 21.3	36°—15′ — 35.0
13°—00′ — 5.1	28°—00′ — 22.0	36°—30′ — 35.4
13°—30′ — 5.5	28°—30′ — 22.8	36°—45′ — 35.8
14°—00′ — 5.9	29°—00′ — 23.5	37°—00′ — 36.2
14°—30′ — 6.3	29°—30′ — 24.3	37°—15′ — 36.6
15°—00′ — 6.7	30°—00′ — 25.0	37°—30′ — 37.1
15°—30′ — 7.2	30°—15′ — 25.4	37°—45′ — 37.5
16°—00′ — 7.6	30°—30′ — 25.8	38°—00′ — 37.9
16°—30′ — 8.1	30°—45′ — 26.2	38°—15′ — 38.3
17°—00′ — 8.5	31°—00′ — 26.5	38°—30′ — 38.7
17°—30′ — 9.0	31°—15′ — 26.9	38°—45′ — 39.1
18°—00′ — 9.5	31°—30′ — 27.3	39°—00′ — 39.6
18°—30′ — 10.1	31°—45′ — 27.7	39°—15′ — 40.0
19°—00′ — 10.6	32°—00′ — 28.1	39°—30′ — 40.5
19°—30′ — 11.2	32°—15′ — 28.5	
20°—00′ — 11.7	32°—30′ — 28.9	
20°—30′ — 12.3	32°—45′ — 29.3	

Chains to Feet	
1	66
2	132
3	198
4	264
5	330
6	396
7	462
8	528
9	594
10	660

Feet to Chains	
100	1.515
200	3.030
300	4.545
400	6.060
500	7.575
600	9.090
700	10.606
800	12.121
900	13.636
1,000	15.151

322.62
1 1
23.72

-24.7 to culvert

1 C C I - x 8" BM 18,32 1828

" 45

375 131.30 In T. T. E.C. to Intersection

19 35
19 29 30
39 04 30

x 9.31
40.15
99.46

E 8 IM - 200

K, C :: + 200 3' out

5' N. of Inlet & Prod.
IN 14 to 3' OUT
205
1.25C

3' out from NE Rad.
Prod only To 3' out
and INT 5' Rad.