1703

EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and SURVEYING INSTRUMENTS

Chicago New York San Francisco New Orleans Pittsburg Toronto

Distances from Center of Roadway for Cross-Sectioning
Roadway 16 feet wide. Side Slopes 1 on 1.
For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be 30.6+(20—16)÷2 or 2 ft. added to 30.6 =32.6. For slopes of 1 on 1½ see inside of back cover.

1703

CITY ENGINEER'S OFFICE

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Made in U. S. A.

1- 60 Mission Valley Trunk Sewer

61 - 62 Location Bluff West of Ocean Blvd. Pacific Beach

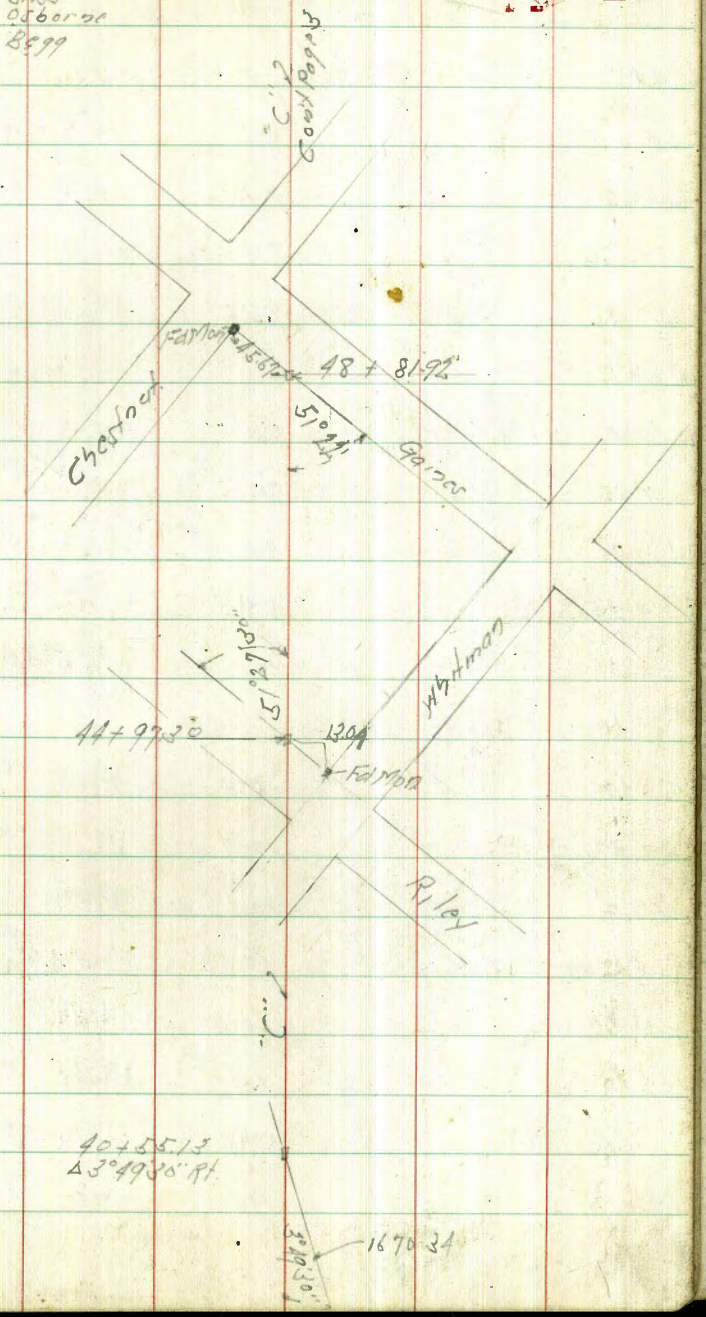
For final line see F.B. 2040

Also see F.B. 1629
" 1631
" 2054
" 1873
" 2003

Proposed Sewer Mission Valley Trunk
"C" Line

No Levels From 40+55.13 to 51+10

Jan. 2. 46
Simon
Bill
Osborne
B&W



Levels Proposed Sewer Mission Valley Trunk
Line Change 54+15 to 64+32.06 "A" Line
Alignment 1670-50 "A" Line

BM	10.33 (29.76)		19.43	on Hub 54+15. 1670.62
54+50		9.3	20.5	
55+0		9.4	20.4	
+50		8.9	20.9	
+62	1.4 Lt. Sly .00 20" Conc Curb	9.95	19.81	Flow Line
56+0		9.2	20.6	
+50		9.7	20.1	
+85		9.5	20.3	
57+0		8.5	21.3	
+25		8.7	21.1	
+50		10.0	19.8	
+60	8' Lt. of ℄ Sly Power Pole			
58+0		10.5	19.3	
+50		10.7	19.1	
59+0		10.6	19.2	
+15.00	Δ 3°20' Rt.	10.46	19.30	on Hub
+50		10.2	19.6	
60+0		10.2	19.6	
+50		9.1	20.4	
61+0		9.6	20.2	

Dec. 20-45
Sisson
Bixby
Osborne A

	(29.76)			
61+50		9.3	20.5	
62+0		8.7	21.1	
BM	6.32 (31.02)		24.70	on Hub 4 x 4 Post 1.5' Ext. O. Box Culvert Camino Del Rio #8655
+86	= Fly O.I Shoulder	5.2	25.8	
+87	= " Paving	5.57	25.45	
+89		5.57	25.45	
"	29' Rt. of ℄ = Inlet O. 3x5.86 Box Culv.	10.30	20.72	Flow Line
"	108.6 Lt. of ℄ Outlet O. 3x5.86 Box Culv.	11.26	19.82	" "
+69	= Fly of Wall Shed	5.26	25.76	
63+01	= Fly " Fast "	5.56	25.46	
+40.6		5.72	25.30	
"	11' Rt. = Inlet	9.73	21.29	Flow Line
+61	= Fly Paving	5.70	25.32	
64+0		6.8	24.2	
"	3' Lt. = Sly Pwr	5.50	25.92	
+14.80	= Δ 19°06'30" Rt	5.44	25.58	on Hub
64+32.06 "A"				

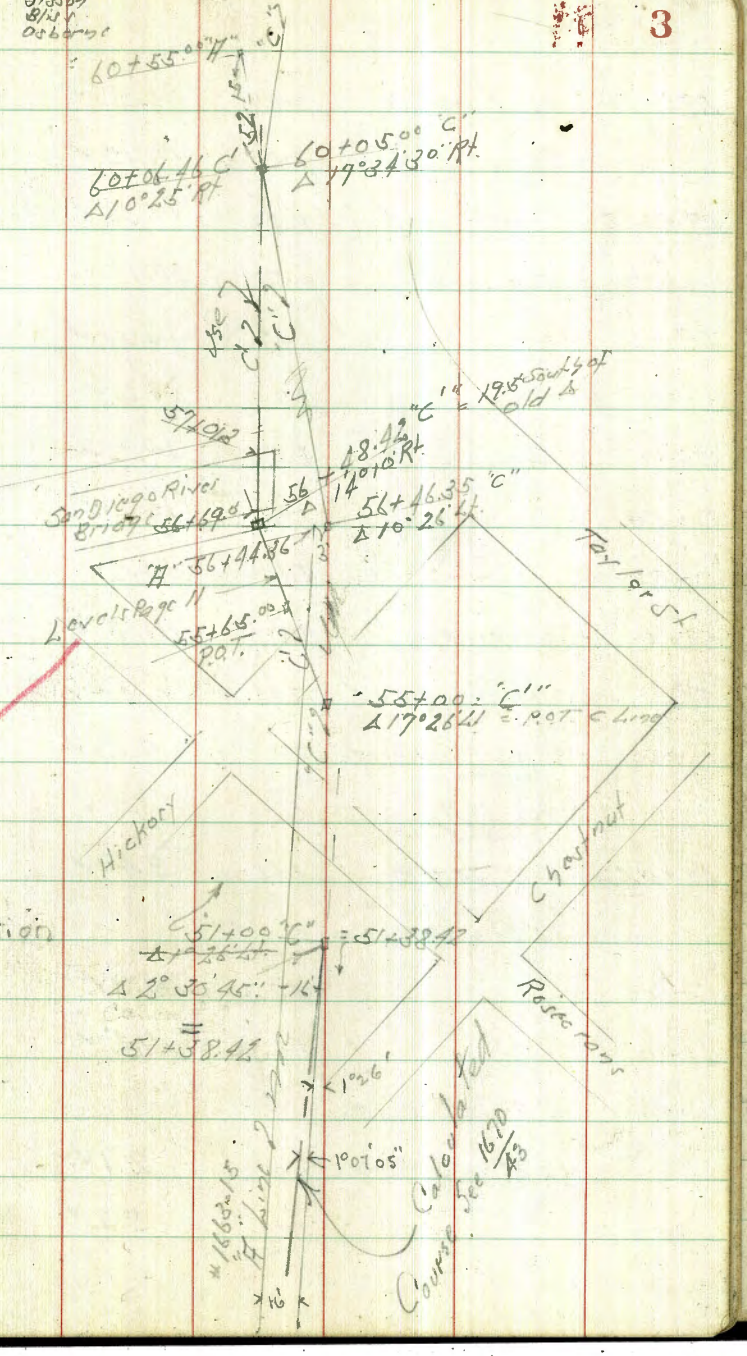
Levels Proposed Sewer Mission Valley Trunk

"C" Line

		H.I.		
BM	0.66	20.66		20.00 ✓
51+0			15.4	5.3 ✓
"	45' Lt of ℄: Sly Toe of Slope of Dyke			
+50			14.3	6.4 ✓
52+0			13.4	7.3 ✓
"	37' Lt of ℄ = Sly Toe of Slope of Dyke			
+50			13.4	7.3 ✓
53+0			12.8	6.9 ✓
" "	24' Lt of ℄ = Sly Toe of Slope of Dyke			
+52	2' Rt of ℄ Power Pole: Nly Power		13.4	7.3 ✓
54+0			13.2	7.5 ✓
"	9' Lt of ℄ = Sly Toe of Slope of Dyke			
+50			12.1	8.6 ✓
55+0	Toe Slope Dyke		9.4	11.3 ✓
+30			7.9	12.8 ✓
+50			4.8	15.9 ✓
+75			2.3	18.4 ✓
56+0			2.5	18.2 ✓
+46.35	= Δ 10°24' Lt		1.86	18.80 ✓ by Hab
+57	2.5 Rt of ℄: Sly Toe of Slope			

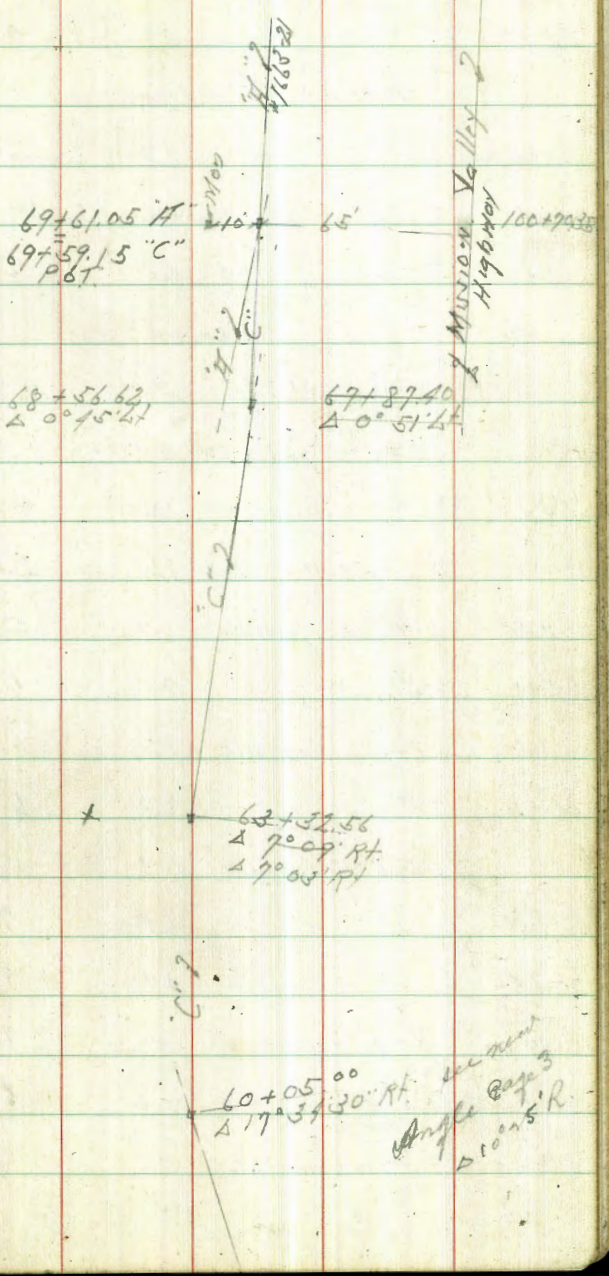
See Pg 11

Dec. 27-45
J. Sloan
B. Lee
Osborne



"C" Line Mission Valley Trunk Sewer

		20.66		
56+71	= Top Exist Curb		0.78	19.88 ✓
"	= Gutter on Paving		1.51	19.15 ✓
57+045	" " "		1.30	19.36 ✓
" "	= Top Curb		0.53	20.13 ✓
TP	1.12 ✓	20.31 ✓	1.47	19.19 ✓
+50			2.7	17.6 ✓
58+0			6.1	14.2 ✓
+50			5.0	15.3 ✓
+80			6.1	14.2 ✓
59+0	on Rip Rap		8.5	11.8 ✓
TP	0.61	8.06 ✓	12.86	7.45 ✓
+50	= N½ Rip Rap Above Ground		3.9	4.2 ✓
"	100' Lt of ℄ = S½ S.D. River		6.3	1.8 ✓ Water Level
60+0 50.0	Δ 17° 34' 30" Rt.		4.65	3.41 ✓ on Stub
" "	14' Rt = N½ Rip Rap			
+50			4.2	3.9 ✓
61+0			3.6	4.5 ✓
"	5' Rt = N½ Rip Rap			
"	155' Lt = S½ River		6.0	2.1 ✓ Water Level
+50			2.9	5.2 ✓



"C" Line Mission Valley Trunk Sewer

8.06

62+0		8.7	4.4 ✓		
"	3' Rt of ℄: N½ Rip Rap				
+50		8.9	5.2 ✓		
"	8' Rt of ℄: N½ Rip Rap				
63+0		8.1	5.0 ✓		
"	6' Rt of ℄: N½ Rip Rap				
+32.56	∆ 7°09' Rt	8.57	4.49 ✓	on Slab	
"	6' R of ℄: N½ Rip Rap				
TP	9.49	43.98 ✓	8.57	1.49 ✓	
64+0	℄: N½ Rip Rap	10.0	4.0 ✓		
"	63' Lt of ℄ Sly River	11.1	2.9 ✓	Water Level	
+50	7' Rt: N½ Rip Rap	8.7	5.3 ✓		
65+0	7' Rt: " "	7.9	6.1 ✓		
+50	6' Rt: " "	7.2	6.8 ✓		
66+0	7' Rt " "	7.3	6.7 ✓		
"	45' Lt: Sly River	10.8	3.2 ✓	Water Level	
+50		6.1	7.9 ✓		
+65		4.7	9.3 ✓		
+79	5' Rt of ℄ Outlet 30° Conc Colv	6.70	7.3 ✓		
"	56' Lt: ℄ Apron N½ & Conc	7.42	6.96 ✓		
67+0	8' Rt: N½ Rip Rap	5.4	8.6 ✓		

67+50	8' Rt: N½ Rip Rap	5.1	8.9 ✓		
+77	: N½ Paved Ramp	0.6	13.4 ✓		
+87.40	: ∆ 0° 51' Lt	0.32	13.66 ✓	on Nail	
68+0	: S½ Paved Ramp	0.0	14.0 ✓		
+17	℄: N½ Rip Rap	8.8	5.2 ✓		
TP.	3.39	46.01 ✓	1.31	12.67 ✓	
+35	: S½ Rip Rap		9.3	6.7 ✓	
+50			9.1	6.9 ✓	
69+0			8.6	7.4 ✓	
+50			8.4	7.4 ✓	
+59.05			8.10	7.91 ✓	on Nub
70+16	11' Lt: Gas Valve Top 8" Conc. Casing		7.05	8.96 ✓	1663-26 8.91

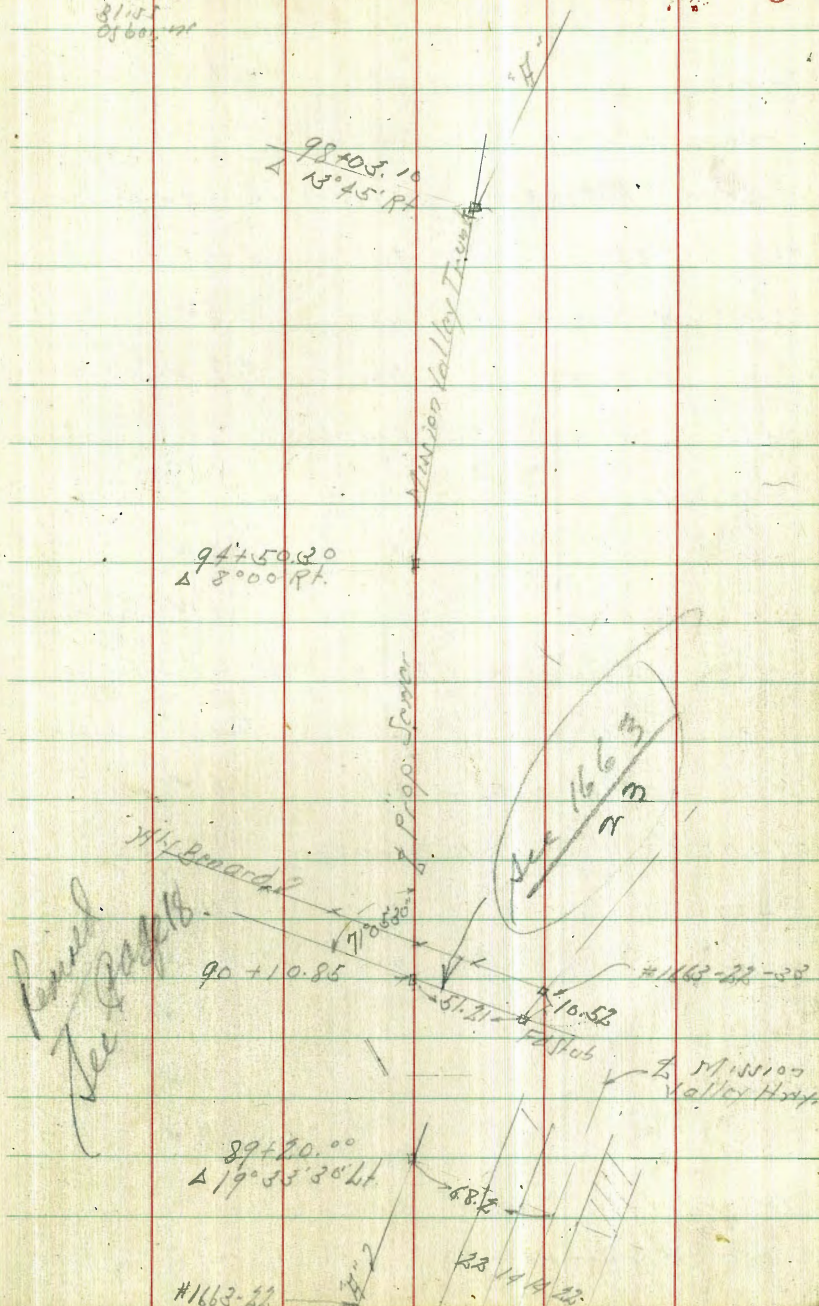
Levels & Location of 12"

BM	3.51	11.45		7.91	On Nub 69+59.05
69+45	: Crossing 12" Gas Line		10.45	1.00	Bottom Conc Slab
	See page 35		8.45	3.00	Flow Line 18" Cast Iron
			6.12	5.83	Top Conc over Pipe

Levels Proposed Sewer Mission Valley Trunk
"A" Line Cont #1663-22
Across Benard's

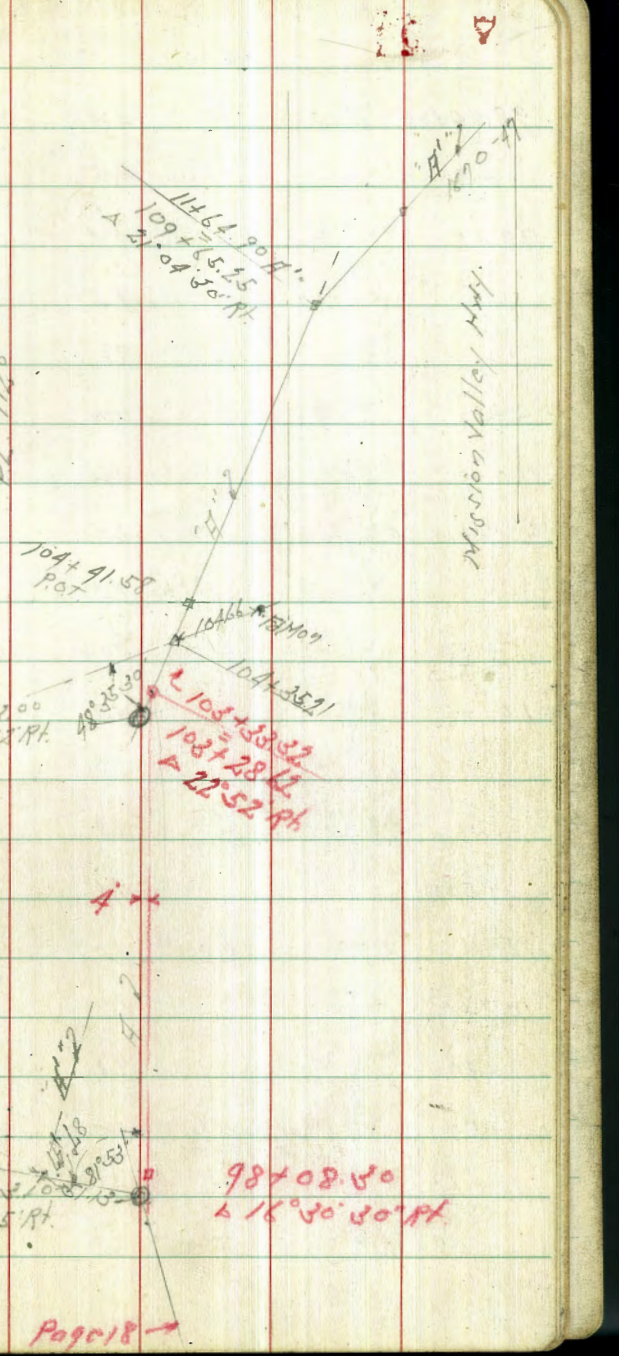
BM	3.12	16.86 ✓		13.74	on Stub 89+20.°A #1663-29
89+35	3.7 Rt o/℄ - Nly Tel Pole				
+50			3.2	13.7 ✓	
90+0			2.5	14.4 ✓	
+19	- Top Rock Fill		2.3	14.6 ✓	
+25			4.0	12.9 ✓	
+50			4.6	12.3 ✓	
91+0			4.7	12.2 ✓	
+02	10' Lt = Sly 20" Euc Tree				
+16	12.5 Lt o/℄ Sly 16" ..				
+20	8.8 Lt " - Sly 15" "				
+40	11.5 Rt o/℄ - Nly 36" "				
+50			4.8	12.1 ✓	
92+0			5.8	11.1 ✓	
+25			6.0	10.9 ✓	
+50	12.5 Rt o/℄ = Nly 14" Euc T		4.8		
+56	10' Rt " " 10" " "				
+66	8.2 Rt " 18" " "				
93+0	12.5 Lt " - Sly 18" Euct		4.7	12.2 ✓	
+40	8' Lt " Sly 18" Euc Tree				
+50			4.9	12.0 ✓	

Dec. 28.45
Sisson
Bliss
Osborne



F' Line

		16.86		
94+40			4.8	12.1
-34	4.5 Lt of ℄ = Sh 36" Euc. Tree			
+50.30	= Δ 8°00' Rt		3.77	13.09 ✓ on Stub
TP	4.60	17.69 ✓	3.77	13.09 ✓
95+40	.5 Rt of ℄ = Nly 18" Euc		4.6	13.1 ✓
"	30' Lt of ℄		8.0	9.7 ✓ Bottom old Channel
+25	28 Rt of ℄ = Nly 36" Euc Tree			
+30	36 " " = " 30" " Stump			
+60			2.2	14.5 ✓
"	35' Lt of ℄		9.6	8.1 ✓ Bottom old Channel
+62	105 Lt of ℄ = Sly 18" Euc T			
+90			5.6	12.1 ✓
+96	= Nly Cone Thicket		5.9	11.8 ✓
96+05	8' Rt of ℄ = Nly 16" Poplar Tree			
+20			8.1	9.6 ✓
+30			8.0	9.7 ✓
+50			6.9	10.8 ✓
97+10			6.4	11.3 ✓
+50			6.7	11.0 ✓
TP	3.46	15.10 ✓	6.05	11.64 ✓
98+0	= Fly Cone thicket			



"H" Line

		15.10	Note 98 to 103+29.66 wire moved 4' South. for R Sewer. W. Reset Fender Rod Level				17.81				
98+03.10	= ∠ 13°45'		4.18	10.62 ✓	on Stub				5.41	12.40 ✓	on Stub
+50			5.5	9.6 ✓	✓	103+33.00	- ∠ 22°52' Rt		5.41	12.40 ✓	on Stub
99+0			4.4	10.7 ✓	13 = 11.0	TP	8.60	21.55 ✓	4.86	12.95 ✓	
"	40 Lt of ℄		5.2	9.9 ✓	= Sly Bank River	+37 +30			8.6	13.0 ✓ 13.1	13.6
"	50 Lt " "		9.0	6.1 ✓	= Sly River Water Level	+47	5' Rt of ℄ = Nly 8" Fence Post				
+50			5.0	10.1 ✓	✓	+10			4.0	17.6 ✓	
100+0			4.9	10.2 ✓	✓	10 4+0			3.5	18.1 ✓	
"	45 Lt of ℄		5.0	10.1 ✓	= Sly Bank River	"	20' Lt. Water in Sump		13.5	8.1 ✓	
"	55 " " "		8.9	6.2 ✓	= Sly River Water Level	+41.58	P.O.T		3.68	17.87 ✓	on Stub
+50			5.0	10.1 ✓	✓	"	3' Lt		5.4	16.2 ✓	
101+0			4.9	10.2 ✓	✓	"	13 Lt = Water in Sump		12.9	8.7 ✓	
"	60' Lt of ℄		4.8	10.3 ✓	= Sly Bank River	10 5+0			7.1	14.5 ✓	
"	70 " " "		8.8	6.3 ✓	= Sly River Water Level	+20			8.7	12.9 ✓	
+50			4.6	10.5 ✓	-2. 10.3 ✓	+50			9.3	12.3 ✓	
TP	6.78	17.81 ✓	4.07	11.03 ✓		10 6+0			9.3	12.3 ✓	
102+0			6.7	11.1 ✓	-4 10.7 ✓	+50			9.4	12.2 ✓	
+30			7.3	10.5 ✓	✓	+80			7.5	14.1 ✓	
+50	9.3 Rt of ℄ = Nly 18" Fence Post		5.9	11.9 ✓	13.5 ✓	10 7+0			7.3	14.3 ✓	
103+0			4.1	13.7 ✓	14.9 ✓	+15			7.2	14.4 ✓	
+09			3.2	14.6 ✓		+30			8.7	12.9 ✓	
						+50			8.2	13.4 ✓	

"A" Line

		21.55			
10870			6.9	14.7 ✓	
+22			6.4	15.2 ✓	
+30	Bottom Wash		8.2	13.4 ✓	
+40			6.5	15.1 ✓	
10970			7.1	14.5 ✓	
+50			7.0	14.6 ✓	
+65.25 = 11466.90		"A"	6.80	14.75 ✓	on H46
TP	967	2686 ✓	4.86	17.19 ✓	
BM			1.60	25.26 ✓	Chisel X N Face of Hydrant 2533 1663-33

Levels Proposed Sewer Mission Valley Trunk
Di'Linc Alignment #1670-54 North Side Mission Valley Hwy.

118+60 Rt" ± 0 223+07.93					
BM	6.70	40.41 ✓		38.71	3 nails Pole 62 Rt 117+70 1670-29
118+60.0	- Δ 19°25'30" Lt		847	31.94 ✓	on Hem Stub
119+0			8.2	32.2 ✓	
+50			7.8	32.6 ✓	
120+0			6.8	33.6 ✓	
+50			5.8	34.6 ✓	
"	3' Lt of ℄ = Top Shoulder		4.3	36.1 ✓	
"	3' Rt " " Toe Slope		7.0	33.4 ✓	
121+0			5.2	35.2 ✓	
"	℄ Lt = Top Shoulder		4.3	36.1 ✓	
"	3' Rt = Toe Slope		6.6	33.8 ✓	
+50			7.0	33.4 ✓	
"	5' Lt = Top Shoulder		4.7	35.7 ✓	
"	3' Rt		7.2	33.2 ✓	
122+0			6.9	33.5 ✓	
+489	Δ 5°46' Lt		7.48	32.93 ✓	on Stub
123+0			7.5	32.9 ✓	
+50			7.4	33.0 ✓	
124+0			7.3	33.1 ✓	
+50			6.4	34.0 ✓	

		40.41			Jan 3-70 Sisson Bliss Osborn Berry
125+0			5.4	35.0 ✓	
+50			4.9	35.5 ✓	
126+0	- 5 Lt ACP Paving		5.0	35.4 ✓	
50	0 " "		3.85	36.55 ✓	
+94	- N Lt " "		3.80	37.6 ✓	
127+0			3.5	37.9 ✓	
+15			2.5	37.9 ✓	
+36			5.1	35.3 ✓	
+50			5.8	34.6 ✓	
+83.79	- Δ 25°11' Rt		5.24	35.17 ✓	on Stub
128+35.20 D"			6.07	34.34 ✓	on Stub
223+07.93 Bliss #1626-44					

Levels Proposed Sewer Mission - Valley Tracks
'C' Line At Old Town Bridge
Sketch Page 3

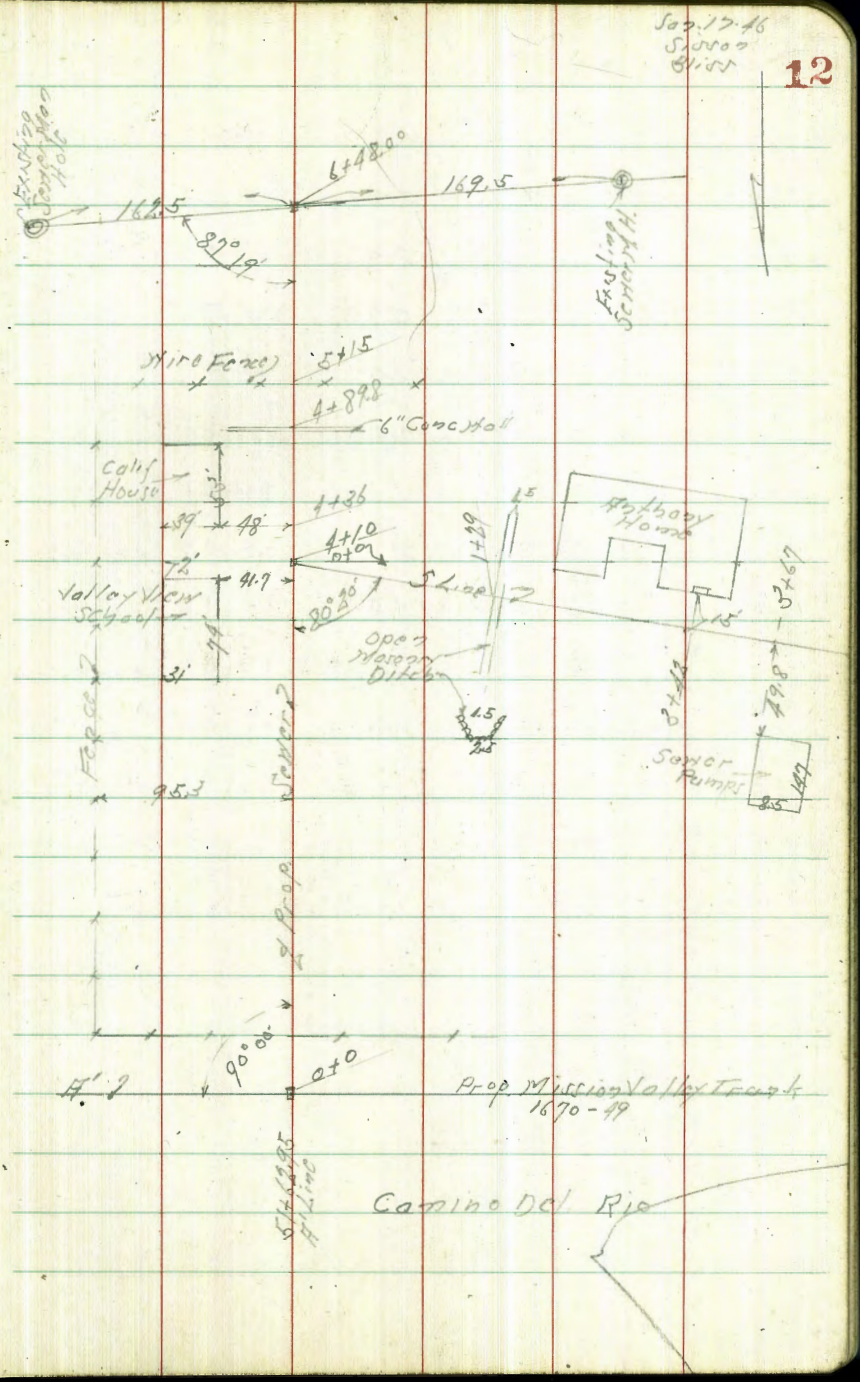
BM	0.55	⟨20.55⟩		20.00	BP SFnd Old Town Bridge
55+0	= 417°26' Lt		9.10	11.45	on Stub
+25	= Top N Sly Dyke		2.6	18.0	
+65	P.O.T.		2.17	18.38	on N
56+0			5.4	15.1	
+25			8.7	11.8	
+48.42	= 14°10' Rt		10.27	10.28	on Stub
+69	= Wly Bridge		8.2	12.3	
TP	2.39	⟨23.39⟩	0.55	⟨20.00⟩	on BP SFnd Br.
57+0			11.2	12.2	
+50			13.8	9.6	
58+0			14.1	9.3	
+35	= Wly Rip Rap		15.7	7.7	
"	35' Lt of ℄ = Sly Rip		21.7	1.1	Waterlevel
"	47' Rt of ℄ = Nly Curb		1.7	≈1.7	of Hwy
+40			13.5	9.9	
+70			11.9	11.5	
TP	0.56	⟨14.57⟩	13.38	⟨11.01⟩	
+85			10.0	4.6	
59+0	= Nly Rip Rap Above Ground		10.4	4.2	

Jan 7-46
S. Scott
Bliss
Osborne
Begg

		⟨14.57⟩			
59+50			10.9	3.7	
"	7' Rt = Nly Rip Rap				
60+06.46 C' = 60+05.00 C			11.14	3.43	on Stub
				= Page 4	

Proposed Sewer Hatboy Home
From Mission Valley Trunk to 6th St. Sewer

BM	11.04	(29.51)		18.47	Top Mon 18' Rt 5+89.98 #1670-63
0+0	= 51+62.95 H'		9.68	19.83	✓ on Stub
+06			11.1	18.4	✓
+62			10.6	18.9	✓
+70			8.3	21.2	✓
+70			7.9	21.6	✓
+50			6.7	22.8	✓
2+0			6.4	23.1	✓
+50			5.6	23.9	✓
3+0			4.2	25.3	✓
+50			2.1	27.4	✓
4+0			1.2	28.3	✓
+10	= 0+0 S Line		0.92	28.59	✓ on Stub
TP	12.26	(10.85)	0.92	(28.59)	✓ on Stub 4+10
+50			11.7	29.1	✓
+75			10.0	30.8	✓
+89.8	= Top 6" Conc Wall		6.83	34.0	✓
5+0			5.2	35.5	✓
TP	12.13	(52.98)	0.0	(16.85)	✓
+20			13.0	40.0	



		52.98			
5+50			6.3	46.7	
TP	12.64	6 X5.22	0.40	5 52.58	
6+0			2.0	63.2	
TP	12.30	7 X6.82	0.70	6 X4.52	
+33			1.0	75.8	
TP	11.44	8 X7.94	0.22	7 56.50	
+45			5.3	82.6	
+48.00 = Ex int Sewer			4.87	83.07	on Stub
"	162.5 East = Ex int MH		7.84	80.10	on Rim
"	" " "		14.52	73.42	Floor Line
"	169.5 West = " "		10.10	77.84	on Rim
"	" " "		16.42	71.51	Floor Line

Anthony Home 5 Line
Sketch Page 12

BM	10.27	(38.86)		28.59	on Stub 4+10 Page 12
0+0 = 4+10				28.59	
+50			8.6	30.3	
1+0			2.7	31.2	
+15			6.2	32.7	
+29 = Ely Masonry Ditch			6.19	32.67	
+31 = Bottom " "			9.11	29.75	
+33.5 = Wly " "			6.15	32.71	
+38			4.8	34.1	
+56 = Ely Oil Paving			4.1	34.8	
2+0 on " "			4.2	34.6	
+50 " " "			5.5	33.4	
3+0 " " "			6.2	32.7	
TP	3.75	(35.81)	6.77	(32.09)	
+42			4.0	31.8	
" 15 Left of 2 = Wly Bldg			6.6	29.2	on Basement Floor
+60 = Wly Oil Pav			4.0	31.8	
+67			4.1	31.7	
" 198 Rt = Sly Pumphs			7.21	28.63	on Floor
Boiler Room Floor			7.8	28.0	Estimated

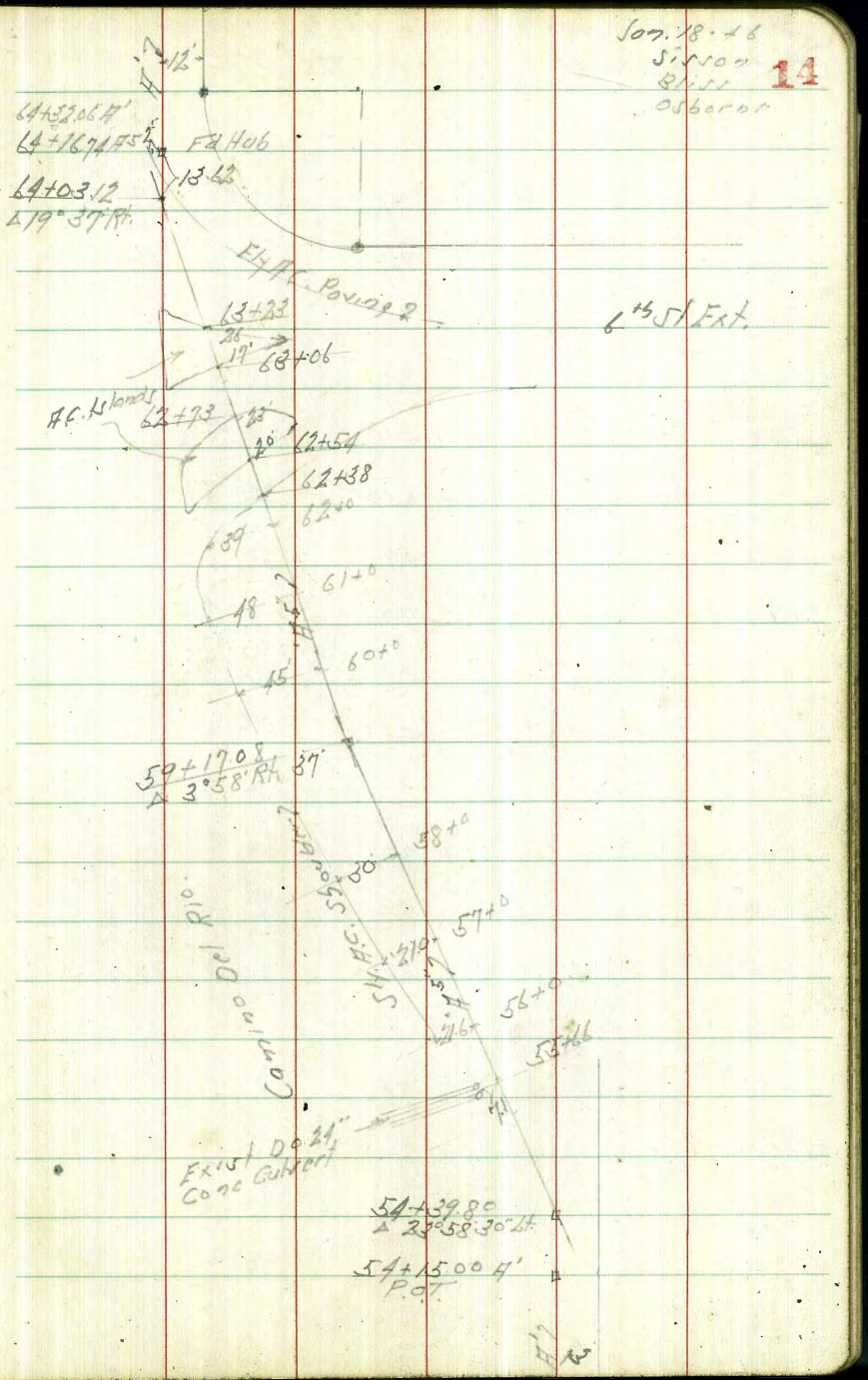
Proposed Sewer Mission Valley Trunk
H^5 Line Change 54+15 to 64+32.06 H'

H' Line # 1670-50

No Levels on this Line

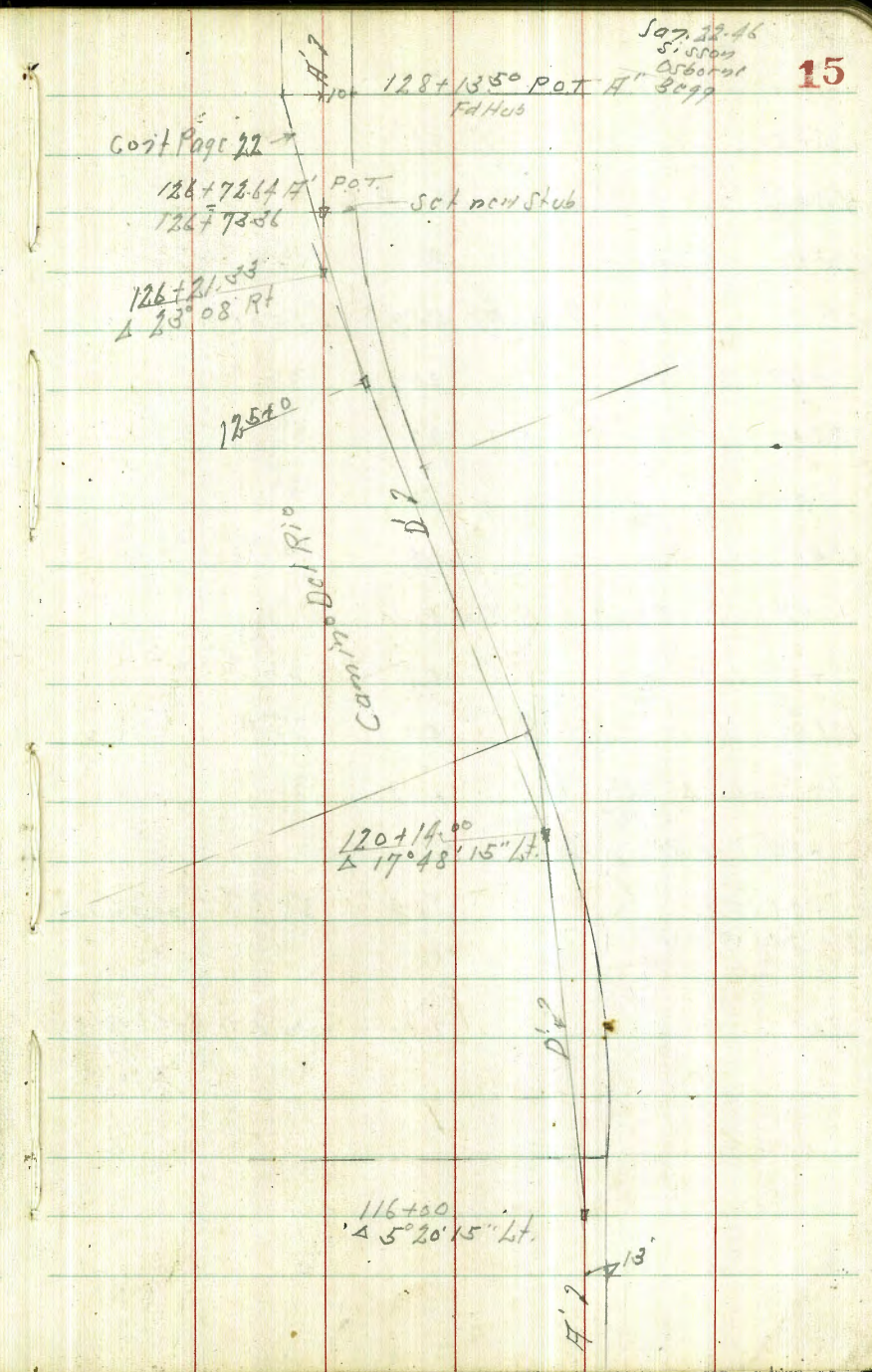
Sep. 18-16
Sisson
Bliss
Osborn

14



Proposed Sewer Mission Valley Trunk
D' Line Change 116+00 to 126+72.64 A'

B.M.	728	(40.62)	32.34	Chiseled X in N.W. Curb 11' Lt. 1450 ft N 1670-69
116+00	Δ 5°20'15" Lt.	9.62	31.00	on Stub
+50		9.2	31.4	✓
117+0		8.7	31.9	✓
+50		7.5	33.1	✓
118+0		5.7	34.9	✓
"	9' Lt of ℄ = Sty Paving	6.14	34.48	✓
+50		5.9	34.7	✓
119+0		7.0	33.6	✓
"	3' Lt of ℄	5.3	35.3	✓
"	11' Lt " " = Sty Pav	5.20	35.32	✓
"	5' Rt of ℄	8.1	32.5	✓
+50		7.7	32.9	✓
120+0		8.0	32.6	✓
+14.00	Δ 17°48'15" Lt.	8.11	32.51	on Stub
+26	7' Rt of ℄ = NN Power Pole			
+50		7.9	32.7	✓
121+0		7.6	33.0	✓
+50		7.8	32.8	✓
122+0		7.3	33.3	✓



D' Line

		(40.62)			
122+50			7.8	32.8	
122+82	7' Rt of ℄ - N4 Pow Pole				
123+0			8.1	32.5	
TP	5.84	(40.89)	5.87	(35.05)	
+50			8.0	32.9	
124+0			7.7	33.2	
+50			7.0	33.9	
125+0			6.2	34.7	
+11	7' Rt of ℄ - N4 Pow Pole				
+50			5.2	35.7	
126+0			5.0	35.9	
+21.33	Δ 23°08' Rt		1.89	36.00	⌀ Stub
"	6.27 of ℄ - S4 Pow		5.23	35.66	
+60	10' Rt of ℄ - N4 Pow Pole				
+72.36			3.52	37.37	⌀ Nail Stub
126+72.64 ℄ P.O.T.					
BM			7.11	(33.45)	Top Mon 13' Rt 123+83.35 3348 # 1670-69

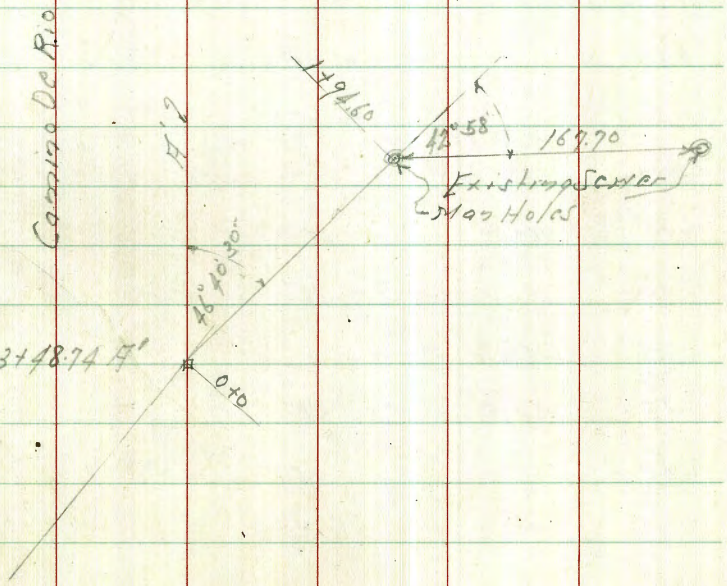
Proposed Sewer Mission Valley Trunk
To 6th St Sewer

Jan 22: 46
S. Slope
0.56 or at
Bldg

	5.08	(27.60)		22.52	03 Hub 13+48.74 Δ 1670-59
0+0	= 13+48.74 Δ'		5.1	22.5	✓
+04			5.0	22.6	✓
TP	12.59	(40.19)	0.0	(27.60)	
+16	= Top Cut Bank		8.2	32.0	✓
+21	= 3 Wire Fence				
+50			4.5	35.7	✓
1+0			0.6	39.6	✓
TP	10.44	(50.04)	0.59	(39.60)	
+50			5.2	44.8	✓
+94.60	= Exist Sewer MH		2.90	47.14	✓ on Rim
"	"	"	7.66	42.38	✓ Flow Line

See Revised Alignment
to this M.B. Pg 29
Levels - 36
W.

18+65.00
Δ 11°28' Lt



Levels Proposed Sewer Mission Valley Trunk
& Line Across Benards

BM	4.06 <1780>		12.74	on Stub 89+20.47 1663.29
89+06	L 17°00' Lt	3.97	13.83	on Stub
+10	℄ Cable Head Mon			
+35	7.2 Rt = Hy Tel Pole			
+50		4.4	13.7	✓
90+0		3.3	14.5	✓
+18	= Top Rock Fill	3.1	14.7	✓
+22		4.7	13.1	✓
+23	2' Lt of ℄ = Sly 20" Euc Stump			
+25	11.7' Lt of ℄ = Sly 32" " Tree			
+50		5.5	12.3	✓
91+0		5.8	12.0	✓
+02	26' Rt of ℄ = Hy 20" Euc Tree 42' Rt of ℄ = Hy 12" Euc Stump		146' Lt of ℄ = Sly 24" Euc Tree	
+10	18' Rt " " 14" " Tree			
+15	17' Lt " = Sly 16" " Tree			
+19	14' Lt " = " 15" " "			
+41	5.4 Rt " = Hy 36" " "			
+50		5.5	12.3	✓
+91	8' Rt of ℄ = Hy 30" Euc Stump			
92+0		6.1	11.7	✓
"	23' Rt of ℄	0.7	17.1	✓
"	30' Lt " "	5.3	12.5	✓

Sep 24 46
S.S.S.S.
Bernard

Page 7

98+02.10
Page 6

98+08.30
Δ 16°30'30" Rt

96+56.85 PT
96+51.91
Δ 5°26'30" Rt

Calculated for revision of location N.

95+60.00
P.O.T.

95+66.61 P.O.T.

94+50

93+65.00
Δ 2°41' Rt

93+65

Hy Benard

Bit Board

89+98

89+89

89+06.00
Δ 17°00' Lt

89+20.00

P.T.

1663.22

Red is Calculated Alignment
As per plan

6-1-47
S.S.S.S.
Office
Williams

		(17.80) ✓			
92+16	9' Rt of ℄ = N 4½		20" Euc Tree		
+25	9.3 Rt " " = "		14" " Stump		
+42	8.7 Rt " " = "		20" " Tree		
+50			5.0	12.8 ✓	
+52	1.2 Rt of ℄ = N 4½		14" Euc Tree		
+59	0.8 Lt " " = S 4½		12" " "		
+66	2' Lt " " = S 4½		16" " "		
93+0			4.8	13.0 ✓	
"	18 Rt of ℄		1.0	16.8 ✓	
"	18' Lt " "		5.6	12.2 ✓	
+23	13.4 Rt " " = N 4½		24" Euc Tree		
+41	22 Lt of ℄ = S 4½		24 " "		
+50			5.2	12.6 ✓	
+69	8.5 Rt of ℄ = N 4½		12" Plum Tree		
+82	8.7 " " " = "		3' " "		
481	8.6 " " " = "		8" " "		
+98	5.4 " " " = "		4" Quince "		
94+0			5.0	12.8 ✓	
"	17 Rt of ℄		9.7	17.1 ✓	
"	15 Lt " "		5.6	12.2 ✓	
+03	9.3 Rt of ℄ = N 4½		12" Plum Tree		

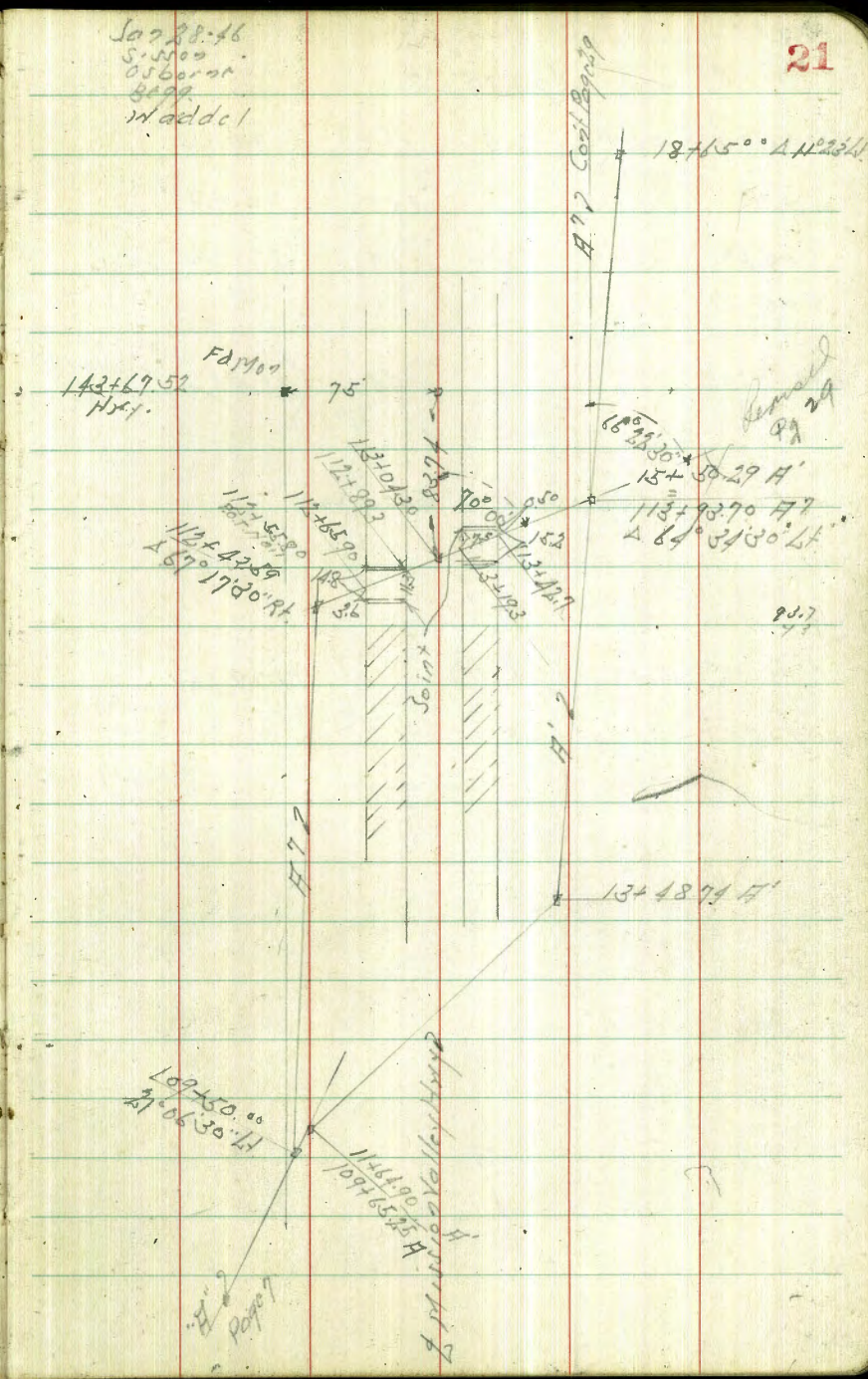
		(17.80) ✓			
94+29	10.7 Rt of ℄ = N 4½		6" Euc Tree		
+50			4.8	13.0 ✓	
+56	28' Rt of ℄ = N 4½		24" Euc Tree		
+99	8' Lt " " = S 4½		14" " "		
95+0	20 Rt of ℄ = N 4½	14" Euc Stump	8.3	14.5 ✓	
"	20 Rt of ℄		0.0	17.8 ✓	
"	13' Lt		4.5	13.3 ✓	
77	4.51	(20.21) ✓	2.10	(15.70) ✓	on Stub 95+60
+07	14.5' Rt of ℄ = N 4½		6" Plum Tree		
+11	20 " " " = "		30" Euc Tree		
+14	7.5 Lt " " = S 4½		24" " Stump		
+19	15.8 Rt " " = N 4½		8" " Plum Tree		
+23	7.6 Lt " " = S 4½		30" Euc Tree		
+26	15.5 Rt " " = N 4½		6" Plum Tree		
+38	6.2 Lt " " = S 4½		24" Euc Stump		
+50			2.8	15.4 ✓	
"	13' Rt of ℄ in Dump		4.8	15.4 ✓	
"	21 " " " "		0.0	20.2 ✓	
"	17' Lt of ℄		8.2	11.6 ✓	
+67			4.6	15.6 ✓	
857			7.11	(18.10) ✓	on Stub 94+50.80 13.09 Pages

<20.21>

96+0		7.2	13.0	Female Cabbage Palm Double reserve Acc 1788/27
"	44' Rt of ℄	0.0	-20.2	
"	10' Lt " "	9.5	10.7	
+05	13 Rt of ℄ = ℄ 12" Pepper Tree			
+30		10.8	9.4	
+54.91	Δ 6	9.54	10.67	= Toe Slope
+56.85	Δ			
"	18' Rt of ℄	9.0	11.2	= Toe Slope
97+0	23' Rt of ℄ = Toe Slope			
+39	22.5 Rt of ℄ = ℄ 16" Palm Tree			
+42	26.7 Rt " " = " 24" Co Ho Wood Tree			
+50	34' Rt of " = Toe Slope			
98+08.10	Δ 29' Rt of ℄ = " "			

Proposed Sewer Mission Valley Trunk
#9 Line Change Across Hwy East of Fiesta

BM	9.14 <2389> ✓		14.75	on Hub 109+65.25 H Page 9
109+50.00	Δ 21°06'30" Lt	9.10	14.79 ✓	on Hub
110+0		9.9	14.0 ✓	
+14	4' Lt of ℄ - Cable Dead			
"	2' Rt " " = NN y Findon or Pole			
+50		10.8	13.1 ✓	
+95	3' Rt of ℄ - NN y Block Down Drive			
111+0		11.7	12.2 ✓	
"	10' Rt of ℄	7.8	16.1 ✓	
"	10' Lt " "	12.0	11.9 ✓	
+50	℄ = Toe Slope	12.1	11.8 ✓	
112+0	℄ = " "	12.1	11.8 ✓	
" "	Rt of ℄	5.8	18.1 ✓	
" "	10' Lt " "	12.3	10.6 ✓	
+43.59	Δ 67°17'30" Rt	11.29	12.60	on Stub
"	5' Lt of ℄	13.6	10.3 ✓	
+55.8	= NN y ORR Shoe	7.3	20.6 ✓	
+65.9	= NN y Conc Pav	8.60	20.29 ✓	
+89.3	= SN y " "	8.30	20.59 ✓	
113+04.20	= ℄ Hwy	4.09	19.80 ✓	on Stub



"A"

(23.89)

113+19.3	= N½ Conc Pav.	3.25	20.64	
+26	= S½ " "	3.45	20.44	
+93.7		5.57	18.32	on Stub
15+50.29				
For Check		1.44	(22.45)	on Hub 13+48.7 ℄ A' 1670.22

Location & Levels 12" Gas Line

B.M.	5.38	(30.17)	14.79	
109+26.8 = 12" Gas Line		5.27	14.90	on Hub over Gas Line
		8.27	11.80	Top 12" Gas Line

Proposed Sewer Mission Valley Trust

D'Line

Levels Next Page

Requested by L.C.H.

22

139+30 °
29° 54' Rt.

Camino Del Rio ?

D'

A'

S½ EC Pavement

133+28

165+68.35 E.C. Hwy

Fd Pipe

Fd Spk

20 20 10

128+11.48
Δ 12° 31' 30" Rt.

125+00
Δ 10° 35' 30" Rt.

D'

Page 15

Levels Proposed Sewer Mission Valley Trunk
D Line
Sketch page 22-23

BM	9.07	(42.55)	33.48	on Mon RR Rt 133+8725 1670-69
125+0	= Δ 10°35'30" Rt	7.85	34.70	on Stub
+12	5' Rt of ℄ = N ly Pow Pole			
+50		6.9	35.6	
126+0		6.3	36.2	
+50		4.2	38.3	
+55	24' Rt of ℄ = S ly Pow. Pole			
127+0		3.4	39+	
+50		4.0	38.5	
128+0		4.5	38.0	
+11.48	Δ 12°31'30" Rt	4.68	37.87	on Stub
"	87 Rt = N ly Pow Pole			
+50		4.6	38.0	
129+0		5.0	37.5	
+50		5.0	37.5	
TP	5.10	(43.06)	4.59	(37.96)
+61	49 Rt of ℄ = N ly Pow. Pole			
130+0		5.4	37.7	
+50		5.6	37.5	
131+0	℄ = S ly Pow	5.5	37.6	
+17	5' Rt = N ly Pole			

Jan 30-46
Sisson
Osborne
Boggs
Waddy

Comm to Dell Rio

182+32.09 Esc Hwy Fd Spk

Mon out March 6-46
144+56.61 A 1670-56
144+57.39 D'
Δ 12°12' Rt

See Sketch Page 34
143+50 D²
Δ 5°01 Rt

142+82.99 P.O.T

Texas St.

142+90
26'
22.0

Exist Do. 5.5 x 4
Conc. Box Culv

D'
D²

142+14

18" Conc Pipe Culv

141+95

141+59

Exist Conc V/A Ve Chamber

Fd Mon

139+93

Oil + Rock Paving

139+45

139+30 Rt D'
139+54 Rt D²
Δ 10°55

Comm to Dell Rio

D' Line

(48.06) ✓

131+50		5.5	37.6	✓
132+0	℄ Sly Berm	5.0	38.1	✓
+50		5.1	38 0	✓
133+0	4' Rt Sly Berm	4.8	38.3	✓
+38.8	= 4' Rt of ℄ Sly 24" Conc Culv	8.68	34.38	✓ Flow Line
"	12 Lt of ℄ Nly	9.16	33.60	✓ " "
+50		4.6	38. 5	✓
134+0	4' Rt Sly Berm	4.4	38.7	✓
+16	4.3' Rt of ℄ Nly Pow Pole	8.6		
+50	℄ Sly Berm	4.3	38.8	✓
135+0	" " "	3.9	39.2	✓
+32	4' Rt of ℄ Nly Pow Pole			
+50		8.2	39.7	✓
136+0	℄ Sly Berm Reg Cut	3.1	40.0	✓
+50		2.1	41.0	✓
TP	9.40 (50.59) ✓	1.87	(41.19) ✓	
137+0		9.5	4 1 1	✓
+17	3' Rt of ℄ Nly Pow Pole			
+50		8.3	42.3	✓
138+0		8.0	42.6	✓

(50.59)

138+13	= Nly AC Pav	7.6	43.0	✓
+50	= Ely " "	7.1	43.5	✓
139+0		6.6	44.6	✓
+30.00	Δ 9°54' Rt	6.00	44.59	✓ on Stk
+45	= Nly Dirt + Rock Pav	5.7	44.9	✓
+59	= Ely " " "	5.3	45.3	✓
+76	2.8 Lt = Sly Pow Pole			
+81	= Nly " " "	5.0	45.6	✓
+93	= Ely " " "	5.0	45.6	✓
140+0		5.1	45.5	✓
+50		4.5	46.1	✓
141+0		4.9	45.7	✓
+50		3.3	47.4	✓
+59	8' Lt of ℄ SE Cor Conc Valve Chamber	4.12	46.47	✓ Top Box
+95	5.4 Lt of ℄ SE Cor Conc. Valve Chamber	4.24	46.35	✓ " "
142+0		2.3	48.3	✓
+14	21' Lt of ℄ = Sly SE Conc Pipe Culv	5.25	45.34	✓ Flow Line
+235	= Nly AC Pav	1.6	49.0	✓
+37	on " "	1.05	49.54	✓
+60	= Ely " "	1.4	49.2	✓
+72	33' Rt of ℄ = Sly SE Conc Box Culv	7.4	43.2	✓ Flow Line

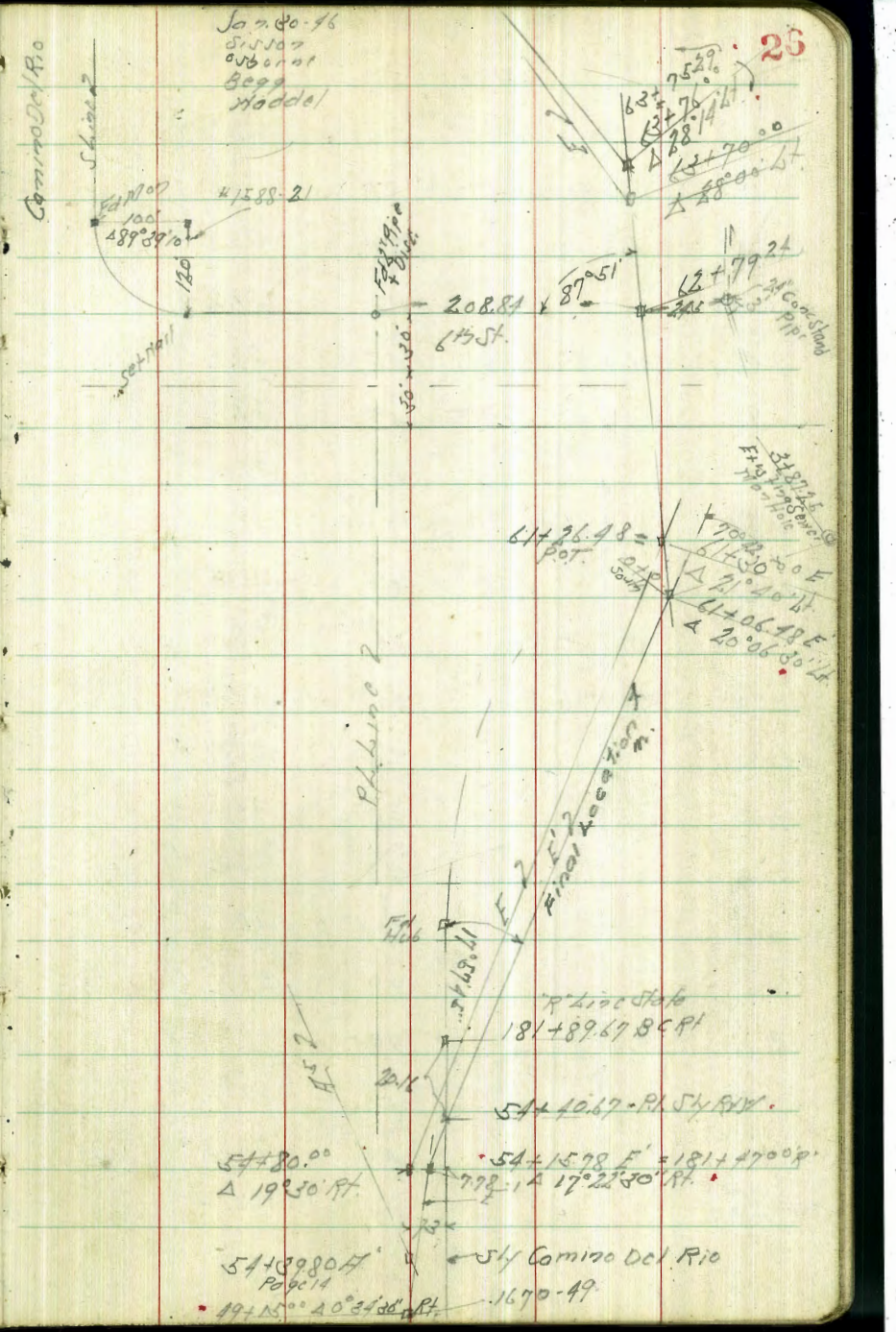
D'L.no

(50.59)

BM		0.92	49.67	C5 use/D HM Cuk 2148.142+96 167°-31
142+83		1.8	48.8	
+80	0.84 o/t = 2" Fire Hyd			
+83	2.5 " " = Sly 24" Cypress Tree			
+90		4.3	46.3	
143+0		4.7	45.9	
+50		6.4	44.2	
144+0		7.6	43.0	
+57.39 = Δ 12°12' Rt		8.24	(42.35)	o/s St ⌀
144+56.61				

Proposed Sewer Mission Valley Trunk
E Line Line Change Hathaway Home to East of 6th St.

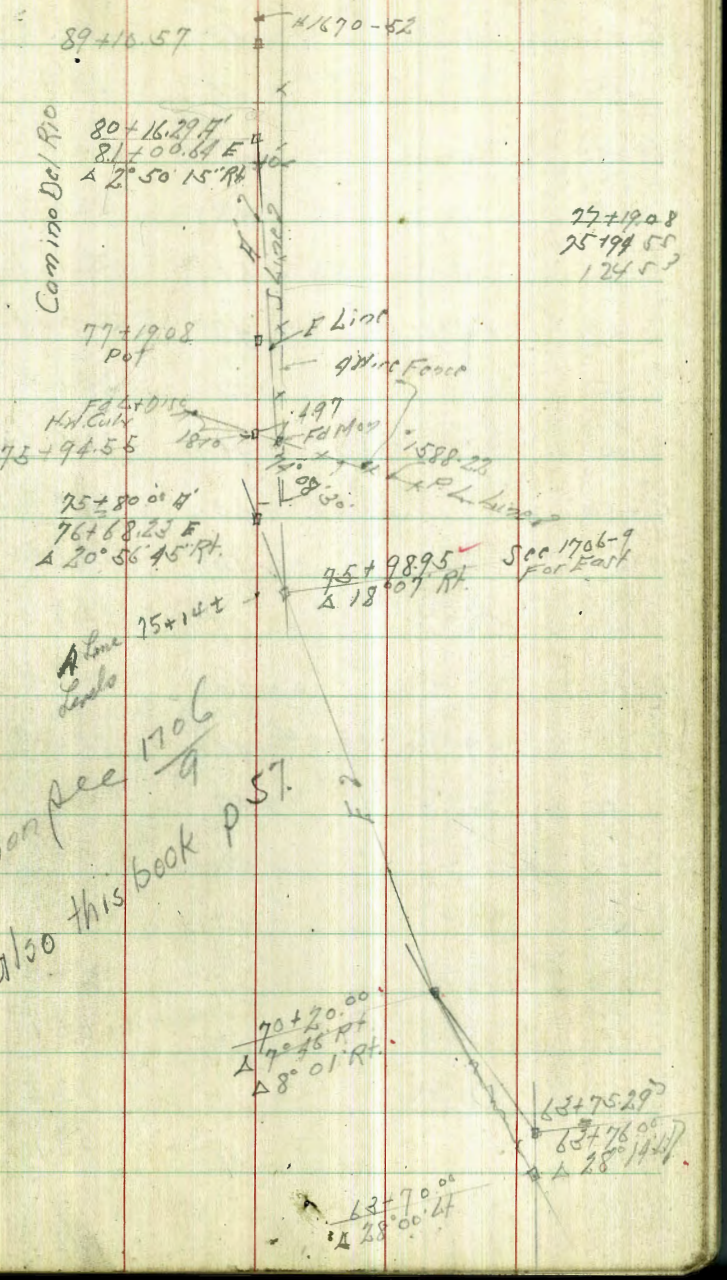
BM	5.91	25.84 ✓		19.93	⊙ Nail 54+15 ℄ 1670-66
54+80.00	Δ 19°30' Rt.		5.84	19.50 ✓	⊙ Stake
55+0			5.9	19.4 ✓	
+50			6.0	19.3 ✓	
56+0			6.0	19.3 ✓	
+50			5.9	19.4 ✓	
57+0			5.8	19.5 ✓	
+50			5.6	19.7 ✓	
58+0			5.4	19.9 ✓	
+50			5.3	20.0 ✓	
59+0			5.0	20.3 ✓	
+50			4.4	20.9 ✓	
60+0			4.2	21.1 ✓	
+50			3.7	21.6 ✓	
61+0			3.4	21.9 ✓	
+30.00	Δ 21°40' Lt.		3.09	22.25 ✓	⊙ Stake
PI	9.68	31.93 ✓	3.09	22.25 ✓	⊙ Stub 61+30
+50			2.7	22.2 ✓	
62+0			2.2	22.7 ✓	
+08			1.83	23.6 ✓	



℄ Line

3193 ✓

62+17	= 3 Wire Fence N+S	8.6	28.3 ✓	
+27	= Wly Bottom Ditch	8.7	23.2 ✓	
+33	= Ely " "	8.1	23.8 ✓	
+34		9.7	27.2 ✓	
+40	= Wly AC. Ramp	9.8	27.1 ✓	
+70	= Ely " "	9.7	27.2 ✓	
+80		9.9	27.0 ✓	
+84	= 3 Wire Fence N+S	8.1	23.8 ✓	
63+0		8.5	23.4 ✓	
+50		8.9	23.0 ✓	
+70	Δ 28°00' Lt	8.8	23.1 ✓	No Stks Gone
64+0		9.5	22.4 ✓	
+50		9.6	22.3 ✓	
65+0		9.7	22.2 ✓	
+50		10.1	21.8 ✓	
66+0		9.7	22.2 ✓	
TP	4.34	2722 ✓	8.95	22.98 ✓
+50			5.0	22.2 ✓
67+0			4.9	22.3 ✓
+50			5.0	22.2 ✓



"E" Line

		27.22						27.79 ✓					
68+0			4.9	22.3 ✓		76+68.23 E			3.93	24.06 ✓	os Stub		
+50			4.8	22.4 ✓		76+80.00 ℄							
69+0			4.7	22.5 ✓		BM			1.85	25.91 ✓	Δ to Disc in H.W. Cut 15' Lt 76+0 ℄ 25.91 1670-67 "		
+50			4.3	22.9 ✓		BM	8.21	29.17 ✓		25.96			
70+0			5.1	22.1 ✓		75+98.95	Δ 18°07' Rt		5.89	23.28 ✓	os Stub		
+20.00	= Δ 7°46' Rt		4.79	22.43 ✓	os Stub	76+50			5.7	23.5 ✓			
+50			5.1	22.1 ✓		+66	7' Rt of ℄ = N-S Tel. Pole						
71+0			4.6	22.6 ✓		+72	= P.I. 4 Wire N-S Fence		4.7	24.5 ✓			
+50			4.3	22.9 ✓		+75	10.5' Lt of ℄ = S-W Anchor Pole						
72+0			4.4	22.8 ✓		77+0			4.7	24.5 ✓			
+50			4.4	22.8 ✓		+50			4.9	24.3 ✓			
73+0			4.4	22.8 ✓		78+0			4.5	24.7 ✓			
TP	4.70	27.79 ✓	4.12	23.09 ✓		+72	= P.I. 3 Wire Fence N-S						
+50			4.7	23.1 ✓		+50			4.6	24.6 ✓			
74+0			4.9	22.9 ✓		79+0			4.7	24.5 ✓			
+50			4.7	23.1 ✓		+37	= P.I. 4 Wire East + West Fence						
75+0			4.8	23.0 ✓		+50			4.5	24.7 ✓			
+50			4.7	23.1 ✓		80+0			3.9	25.3 ✓			
76+0			4.3	23.5 ✓		+50			4.4	24.8 ✓			
+50			4.1	23.7 ✓		81+00.14	= Δ 2°50'15" Rt		4.14	25.03	os Stub		
						80+16.57 ℄							

Proposed Center Mission Valley Trunk
"A" Continued East of Hwy Crossing

B.M	4.46	22.78		18.32	⊙ = Nail 113+93.70 Page 22
114+0			4.5	18.3 ✓	
+50			5.0	17.8 ✓	
115+0			5.1	17.7 ✓	
+03	13' Lt of ℄ = Sly 30" Conc Culvert		8.28	14.50 ✓	Flow 6.4
+11	= Wly Oil Pav		4.1	18.7 ✓	
+28	= Ely " "		4.1	18.7 ✓	
+30			4.6	18.2 ✓	
116+0			4.3	18.5 ✓	
+50			5.6	17.2 ✓	
117+0			5.8	17.0 ✓	
+50			5.5	17.3 ✓	
+76	= Wly Oil Pav		1.3	18.5 ✓	
+91	= Ely " "		1.3	18.5 ✓	
118+0			5.1	17.7 ✓	
+26	15' Lt of ℄ = Top SW Cor 8.19 Conc Valve Chamber		2.18	19.60 ✓	
+50			6.3	16.5 ✓	
"	7' Rt of ℄ = Wly Post Pole				
+58	7' Rt = Wly Pole Fence				
+62	8' Lt = Sly Post Pole	3.5' Rt = Cable Dead Man			

Feb. 11-46
S 55°07
0.56 mi
3090
Wooddale

25+46.68 A'
= 128+91.41 A''
Δ 2°36' Lt

118+92.56
Δ 18°10' Lt

Mon. Not Found
S℄ R/W Camino del Rio

A''

A'

117°49'

113+93.70 A''
Δ 66°22'30" Lt

Page 21

Q ±0

1410

S 63°33' W

S 25°59' W

F+15.1

SCP

26°00

Scale
46.50 ft / 40+48.8.2

Fd Mon

157.04

		22.78		
118+93.56	Δ 18°10' Lt		6.17	16.61 ✓ on Stub
PT	636	33.67 ✓	5.37	17.41 ✓
119+04			6.9	16.8 ✓
+07			8.1	15.6 ✓
+11			5.4	18.3 ✓
"	20' Lt of ℄ - Skew 30° Conc Culvert		8.93	14.74 ✓ Flowline
+33	- Wly of Paving		3.4	20.3 ✓
+48	- Ely " "		2.5	20.2 ✓
120+0			4.5	19.2 ✓
+33	24 Lt of ℄ - Fireland			
+50			4.8	18.9 ✓
121+0			4.9	18.8 ✓
+50			5.0	18.7 ✓
122+0			4.8	18.9 ✓
+50			5.0	18.7 ✓
123+0			4.9	18.8 ✓
+50			4.9	18.8 ✓
+91.41	Δ 2°36 Lt		5.32	18.35 ✓ on Stub
25+46.68 H'				
For Check			4.71	18.96 ✓ on Stub 22+70.484

Proposed Senter Mission Valley Trust
E' Line Change Opposite Hotson Home
Sketch Page 26

B.M	9.40	28.83	19.43	⊙ Hub 54+15 Rt	
49+15.00	Δ 0°34' 30" Rt	8.79	20.04	⊙ = Stob	
+36	2' Rt of ℄ = Wly 24" Cast Iron Culv.	11.7	17.1		Flow Line
"	℄	8.7	20.1		
+45	= Wly 0:1 + Rock Pav.	5.1	23.7		
+65	= Ely " " "	4.9	23.9		
+75		7.8	21.0		
"	Rt of ℄ = Ely 24" Cast Iron Culv.	11.4	17.4		Flow Line
50+00		8.6	20.2		
+11	4' Rt of ℄ = Nly 24 Popolar Tree				
+50		8.5	20.3		
51+00		8.4	20.4		
+10	4' Rt of ℄ = Nly 24" Popolar Tree				
+15		8.0	20.8		
+24		10.4	18.4		
"	7' Lt of ℄ = Sly 24" Conc. Culv.	10.32	18.51		Flow Line
+28	5' Rt of ℄ = Nly Popular Pole				
+33		8.0	20.8		
+50		9.2	19.6		
52+00		9.2	19.6		
+12	2' Rt of ℄ = Nly 24" Popular Tree				

Feb 14-15
S. 1500 ft
Osborne
B.99 Waddel

		28.83			
52+35	℄ = Wly 18" Conc Culv.		10.1	18.7	Flow Line
+42	= Wly 0:1 + Rock Pav		5.6	23.2	
+54	= E " " "		5.6	23.2	
+63	℄ = Ely 18" Conc Culv.		9.9	18.9	Flow Line
53+00			9.9	18.9	
+50			9.8	19.0	
54+00			9.7	19.1	
+05	P.I. 8 Wire Fence				
+15.78	= Δ 17°22'30" Rt		9.62	19.21	⊙ = Stob
TP	5.08	24.51	9.40	19.43	
+50	7' Lt of ℄ = Sly Pow Pole		5.3	19.2	
+59	5 Rt of ℄ = Cable Guy Anchor				
55+00			5.4	19.1	
+50			5.1	19.4	
56+00			5.1	19.4	
+50			5.1	19.4	
57+00			5.0	19.5	
+50			4.8	19.7	
58+00			4.7	19.8	
+50			4.4	20.1	
59+00			4.0	20.5	

		24.51			
59+50			3.6	20.9 ✓	
60+0			3.3	21.2 ✓	
+50			2.9	21.6 ✓	
61+0			2.6	21.9 ✓	
+66.48	∠ 20°06'30" Lt.		2.46	22.05 ✓	0.35 ft
+26.48 = 61+30.0' E			2.27	22.21 ✓	0.35 ft 22.25 Page 26

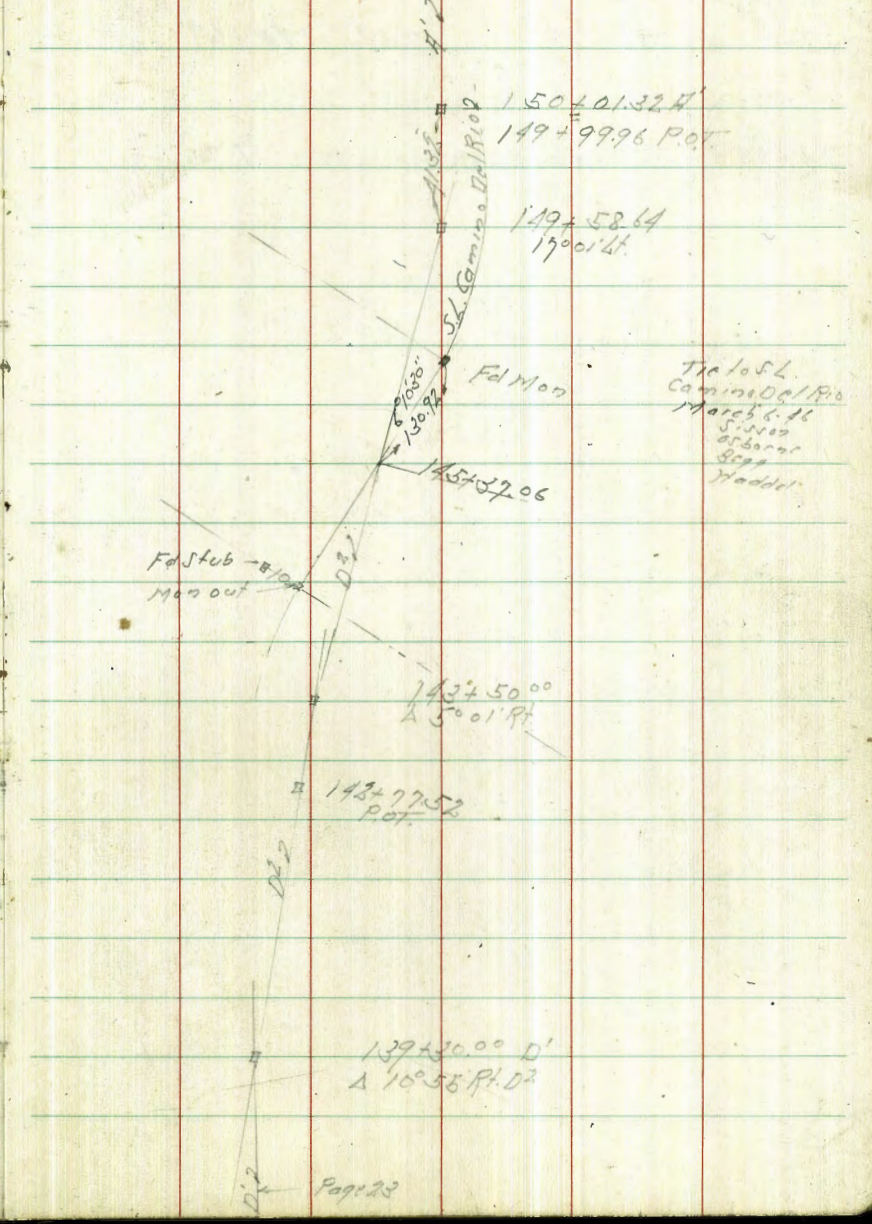
Proposed Sewer Mission Valley Trunk
"D" Line Change At Texas St
Sketch Page 34-22

Feb. 15-46
J. Sisson
Osborne
Begg
Modoni

		5328			
BM	8.69	5328		44.59	on Stub 139+30 "D" Page 21
139+45	= Wly 0:1 x Rock Pav		8.4	44.9 ✓	
+59	= Ely " " " "		8.0	45.3 ✓	
+75	4' Lt of ℄ = Sly Post Pile				
+81	= Wly 0:1 x Rock Pav		7.7	45.6 ✓	
+93	= Ely " " "		7.6	45.7 ✓	
140+0			7.7	45.6 ✓	
+50			7.0	46.3 ✓	
141+0			6.2	47.1 ✓	
+47			5.9	47.4 ✓	
"	12' Lt = Con Valve Chamber		6.75	46.53 ✓	
+97			5.0	48.3 ✓	
"	10' Lt = Con Valve Chamber		6.91	46.37 ✓	
142+0			4.8	48.5 ✓	
+22	= Nly P.C. Pav		3.9	49.4 ✓	
+37	on " " "		3.5	49.8 ✓	
+59	= Ely " " "		3.9	49.4 ✓	
+77.52	POT		3.72	49.56 ✓	on Stub
+79	7' Lt = 2" Fire Hyd				
+83	93 Lt = Sly 24" Cpprw		3.7		

142+88			7.1	46.2 ✓	
143+0			7.5	45.8 ✓	
+50.00	Δ 5°01' Rt		9.02	44.26 ✓	on Stub
+86	= Ely Dirt Drive		8.9	44.4 ✓	
144+0			10.4	42.9 ✓	
+50			11.2	42.1 ✓	
145+0			11.3	42.0 ✓	
+39	10' Rt = Nly 12" Conc Culv		11.53	41.75 ✓	Flow Line
+42	= Nly 0:1 Pav		10.5	42.8 ✓	
+52	= Ely " "		10.5	42.8 ✓	
+57	16' Rt = Fly 12" Conc Culv.		12.03	41.25 ✓	Flow Line
146+0			11.5	41.8 ✓	
+50			11.2	42.1 ✓	
+63	12' Rt. Nly Fence				
147+0			11.3	42.0 ✓	
+50			11.5	41.8 ✓	
+70			12.3	41.0 ✓	
+78			13.8	39.6 ✓	
"	7' Lt = Sly 24" Con Culvert		14.85	38.43 ✓	Flow Line
148+0			11.2	42.1 ✓	

	53.28		
148+50		12.3	41.0 ✓
+57	℄ = 24" Fog Shaped Steel Culv.	12.0	41.3 ✓ Top Culv.
+63	= 24" y 0.1 x Rock Pave	11.1	42.2 ✓
+74	Fly " " "	11.0	42.3 ✓
+84	10 Rt = 24" Pave Pak		
+97	5.5 Lt - Fly 14 Conc. Culvert.	12.8	40.5 ✓ Flowline
149+0		10.8	42.5 ✓
+50		14.2	42.1 ✓
+58.64 = A		11.45	41.83 ✓ on Sta
"	3' Rt - 4 Wire Fence		
150+01.32	17'	11.37	41.91 ✓ on Sta.



Location + Levels 12" Steel Gas Line

BM	6.68	(18.21)	11.53		on Mon N-2 Canino Del Rio West of Pole Road
73+60 Δ		Rt	7.54	10.67	1663 B2+27 on Stub
73+95.5	P.I. Sewer + Gas Line		10.55	7.66	Top 12" Steel Pipe

Location + Levels 12" Gas Line

Feb. 25-76
Simson
Observer

35

BM	3.61	(11.52)		7.91	on Stub 69+59.05 "C" Pagas
69+45 C	4' Rt of ℄		8.02	2.50	Top 12" Steel Gas Pipe
"	17.54 Rt of ℄		8.73	2.79	Top 12" Steel Gas Pipe

4.6/21.5 · 71 = 15.3 = 3.39 at Mo

21.5) 71.8 (3
63
8 5
6 90

Levels Tie to Mission Valley High Line Survey
From Prop. Mission Valley Trunk
Sketch Page 29

BM	10.63	(28.95) ✓		18.32	00 Sta 118+937.07 Page 22	
0+0 = 118+937.07			10.6	18.3 ✓	Invert 7.27	Cut 11.03
+02					7.77	10.58
+33			10.6	18.3 ✓	12.41	5.89
+33	℄ 8' Wire Fence + Cable Dead Man				14.65	
+43			5.2	23.7 ✓	16.88	6.8 ✓
TP	11.78	(40.43) ✓	0.20	28.65 ✓		
+72			7.7	32.7 ✓	23.37 ✓	9.33
+78			8.8	36.6 ✓	24.71 ✓	11.89
1+0			1.9	38.5 ✓	29.63 ✓	8.87
TP	10.49	(49.38) ✓	1.54	38.89 ✓		
+25			6.3	43.1 ✓	35.22 ✓	7.88
						4.28
+57.04 = Existing			2.30	47.08 R ✓	42.38 ✓	

Levels Tie to Mission Valley High Line Sewer
From Prop. Mission Valley Truck West of 6th St
Sheet 6 Page 2

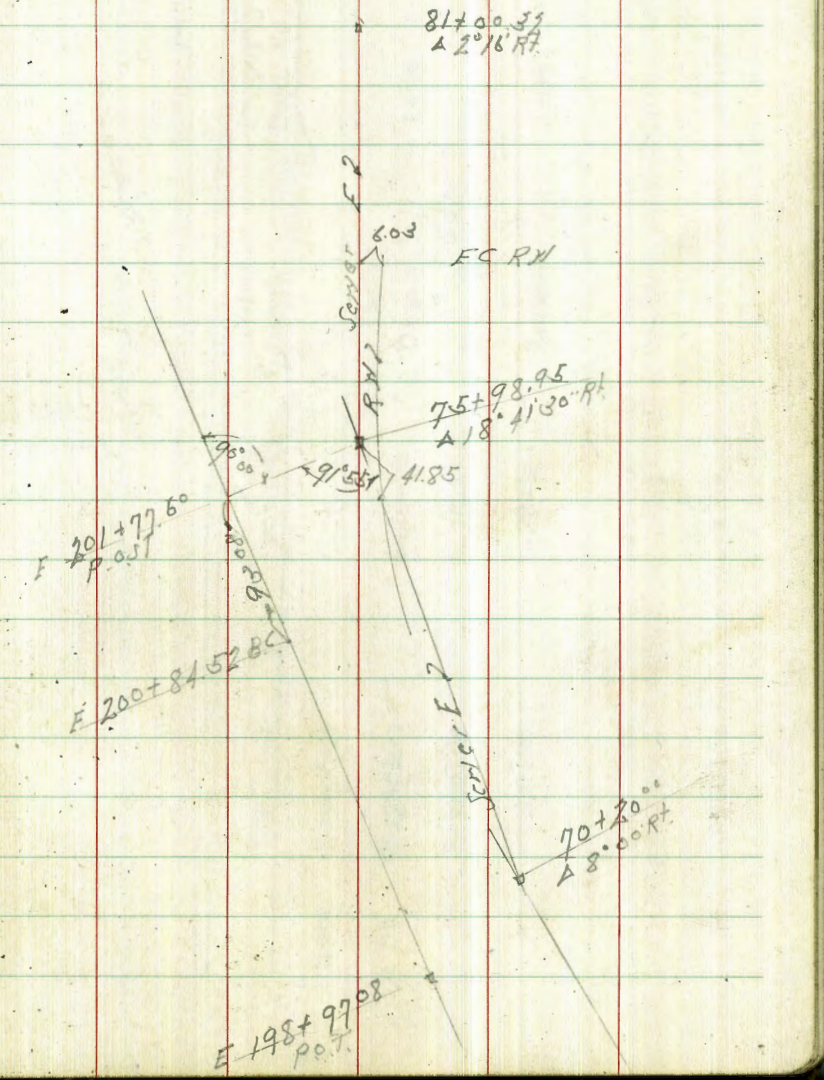
BM	12.15	(34.20) ✓		22.05	on Stub 1706.485'
0+0	= 1706.485'				
+50			11.9	22.3	✓
+83			10.1	24.1	✓
"	5" Pt of 8" = 12" Conc Pipe for Irrigation		10.80	23.40	✓ top
1+0			8.5	25.7	✓
+50			7.7	26.5	✓
2+0			7.4	26.8	✓
+50			6.8	27.4	✓
+92			5.3	28.9	✓
3+0			4.1	30.1	✓
+20			3.4	31.8	✓
TP	12.40	(46.60) ✓	0.00	(34.20) ✓	
TP	12.26	(58.81) ✓	0.05	(46.55) ✓	
+45			4.1	54.7	✓
TP	12.47	(71.06) ✓	0.22	(58.59) ✓	
TP	12.53	(83.59) ✓	0.06	(71.06) ✓	
+78			2.1	81.5	✓
+87.25	= Ex. MH		1.25	82.34	✓ on Rim
"			5.58	78.01	✓ Flowline

Tie sta Sty R/W of Camino Del R/O Clover Leaf as Staked by Gas Co.
East & West of 6th St.
Prop. Sewer Survey E & F Lines

52+69 E	9.7 Rt of ℄ E'	= 180+0 Sty R/W
54+59.3	6 Lt of ℄	= 1817+89.67 = 1+00 BC
55+56	32.8 Lt of ℄	= 2+0
56+54	50.2 Lt of ℄	= 3+0
57+49.6	58.8 Lt of ℄	= 4+0
58+53.6	59.0 Lt of ℄	= 5+0
59+32.5	52.0 Lt of ℄	= 5+78.58 = P.C.C.
60+50.7	20.7 Lt of ℄	= 7+0
60+9.2	= P.I. E & Sty R/W	= 7+48.3
64+01.5 E	76 Lt of ℄	= 7+50
64+86	39 Lt " "	= 8+48.67 E.C.
67+43	39.6 Lt " "	= 6+0
70+20 Δ 8°	59 Lt of ℄	= 8+81
72+39	8.8 Lt of ℄	= 11+0
75+0	13 Lt of ℄	= 13+58.79
75+91.4	55 Rt of ℄	= 14+44 Last Point Found

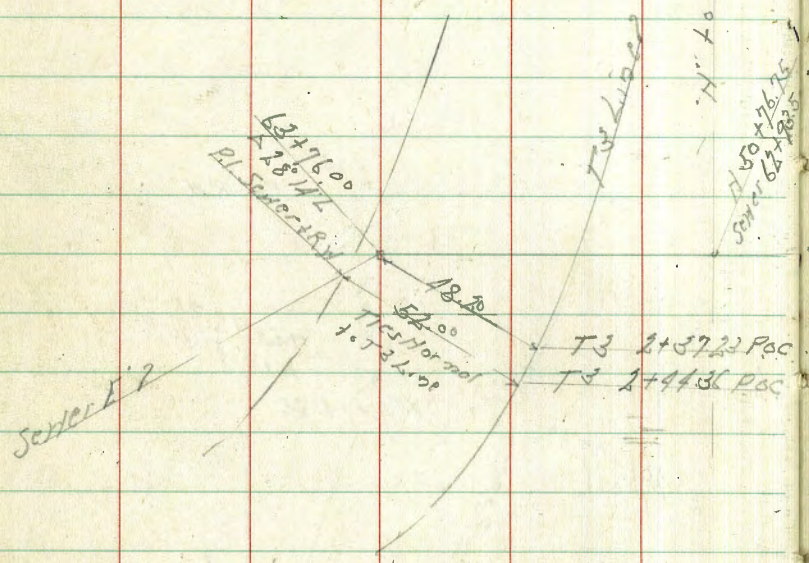
Opp Page = S. 55 07
March 13-46
Woodel Hardin
33

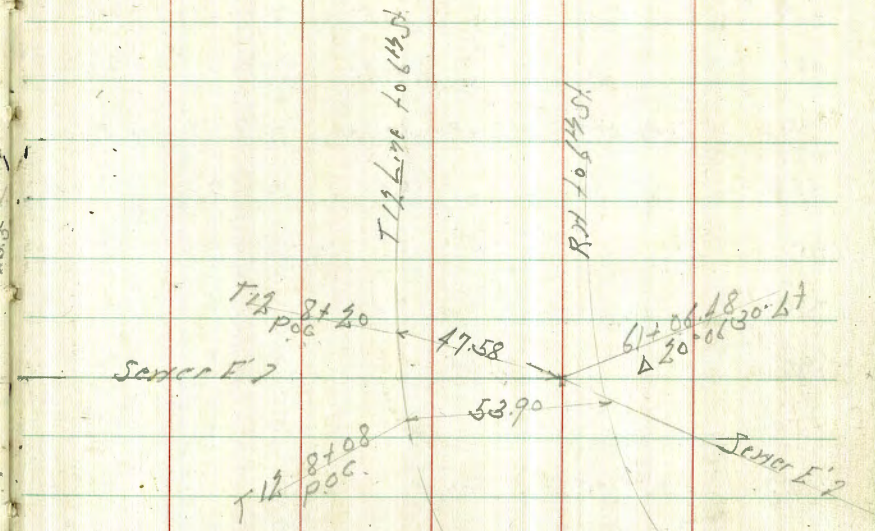
Sta fc Tie Camino Del R.O.
East of 6th St. Taken From Sta fc N. Henderson



State Tie 615' South of Camino Del Rio

Taken from Notes Mr Anderson





Mission Valley Trunk Sewer Relocation. 12/13/56.

W.O. 20735

Begin at Point on present Sewer 210' Easterly of M.H. No 19. (location for New M.H. 19A)

Thence deflect 5°± Rt and ~~Set Point 3' S. of ℄ of M.H. 19 and~~ run location Easterly 485' to Point 102' South of Sta 154+75 of Highway ℄ = M.H. No. 1.

Thence Δ 6° Lt. ± continue Ely. 370' to Point 100' Sly of ℄ of Highway 158+45 = M.H. No 2.

Thence Continue Ely 375' to Point 100' Sly of ℄ of Highway at Sta 162+20 = M.H. No 3.

Thence Continue Ely 555' to Point 112' Sly of ℄ of Highway at Sta 167+75 = M.H. No 4.

Thence Continue Ely 460' to Point 112' Sly of ℄ of Highway at Sta 172+35 = M.H. No. 5.

Thence Continue Ely on Deflection of 11°30'± to Left a distance of 412' to check distance to old M.H. from new location ~~(Point on Extension of Sewer from N and 110' Sly from)~~ Existing Sewer M.H. No 24 = to M.H. No. 6 (112' at Rt angles to Highway ℄)

Thence Continue Ely on Tangent 337' to Point in Dirt Drive = M.H. No. 7

Thence deflecting 56°± Lt. 235' to Existing M.H. 25 on Trunk Sewer.

At M.H. 26 it is desired to seal this M.H. and Construct New M.H. 26A. over and around existing Sewer. 20' to W/4 from existing M.H. 26.

1062 A-D.
3055-B.

PROPERTY ACQUISITION (OPENINGS)

6-10-56
7-20-56

W. O. No.	Dwg. No.	Description	Control Engineer	To Property	Property Agent	Property Dept No.	Transmi To Atto
18200	6203-B	Lot 19 Blk 42 Normal Hts, for Madison	Reynolds	6-28-56			
32223	6166-B	Ptn Torrey Road (clsd) for Amalfi St	Reynolds	6-25-56	Olson	1558	
21499	6197-B	P L 264 Morena for Knoxville	Reynolds	6-25-56	Hermes	1557	
24682	6189-B	Ptn of P L 1187 for fee (see Water Easement)	Reynolds	6-28-56	Hermes	1563	
24096 (ref 22042)	12822-L	P L 1289 for Torrey Pines Road	Reynolds	7-16-56			
27045	6224-B	Lot 19 Soledad Terrace for Los Altos Road	Reynolds	7-11-56			
27469	6210-B	S E ¼ of Lot 53 and N E ¼ of Lot 54 Ex Mission Lands (Horton's Purchase) for Euclid Ave.	Reynolds	7-6-56			

1670/65 B.M. L & T. East side N. end of double Box Culvert Camino Del Rey & 6th St Ext Ele 24.68

1703/2639

1703/9 chisel mark x Newd Below Elev. 25.26

Levels & Tie to Mission Valley High Line Sewer
E Line West of 6th St.

BM	12.13	(34.18)		22.05	61+06.48 E
0+0 = 61+06.48 E'			12.1	22.1	15.2
0+00				22.1	
+50			11.5	22.7	16.9
+81			10.2	24.0	18.0
"	22 Rt of ℄ 12" Conc Pipe		10.90	23.8	Top Pipe
+88			8.2	26.0	18.3
1+0			8.2	26.0	18.7
+50			7.9	26.8	20.5
2+0			6.8	27.4	22.3
+50			5.5	28.7	24.1
+87	= 2 wire Cross Fence				
+92			4.7	29.5	24.9
TP	8.69	(41.35)	1.52	(32.66)	
+91			4.8	36.5	25.6
2+0			4.6	36.7	25.9
+35 +45		Interpolate		36.2	27.2
+50			5.4	36.0	27.9
+55				36.2	28.6
+62.39	= 43° 03' 30" Lt		4.93	36.4	29.4
"	9 Rt of ℄		5.1	36.3	31.02
"	45 Lt of ℄ = N/W Wall		10.7	30.6	
+65			Interpolate	36.4	31.6
+71			4.7	36.6	33.5
+75			Interpolate	38.6	34.6

Cut & Patch Pipe

6.9
5.8
6.0
7.7
7.3
6.3
5.1
4.6
4.6
10.9
10.8
9.0
8.2
7.4
6.8
5.4
4.8
3.1
4.0

April 22.96
Sassa
Mission
Model

40

5+98.85 = Existing Sewer Man Hole #83
Drawing No 298-D
" No 378-D.

18° 12'

134.13

5+12.08 P.O.T.

Existing High Line Sewer

4+57.05 P.O.T.

= Man Hole

3+62.39
Δ 8° 03' 30" Lt.

8° 03'

0+0

E 61+06.48
Δ 20° 06' 30" Lt.

E2

		(41.35)			
TP	12.73	(54.03)	0.05	(41.30)	
4+0			8.4	50.6	4in.g
"	10' Lt of ℄		13.2	40.8	
"	10' Rt " "		16.5	60.5	
TP	12.39	(66.26)	0.16	(53.87)	
4+53	10.5 Lt of ℄ 24½ TEL Pole				
4+57	10' Lt of ℄		0.37	6in.G	
TP	12.08	(77.84)	0.50	(65.76)	
4+57	℄		7.7	70.1	6in.w
"	10' Rt of ℄		0.4	77.4	
4+60				70.9	
4+78				73.7	
4+80				76.5	
4+88	11.81	(88.08)	1.07	(76.27)	
4+90				79.3	
5+10			5.9	8in w	
4+12.08	POT		6.91	84.14	on Stub
4+50			2.8	85.3	
4+59.6	1.42 Lt of ℄ 24½ TEL Pole		4.5	83.6	
4+98.85	= Exist. Manhole		4.09	83.99	on Rim
"	= Flow Line		8.49	79.59	
on MH Rim 234 HH			5.94	(82.34)	

Ext 6 inches Pipe

7.7

7.9

63.5
66.2
68.6
70.4
71.5
72.5

7.9
7.5
7.9
8.9

10.7
11.6

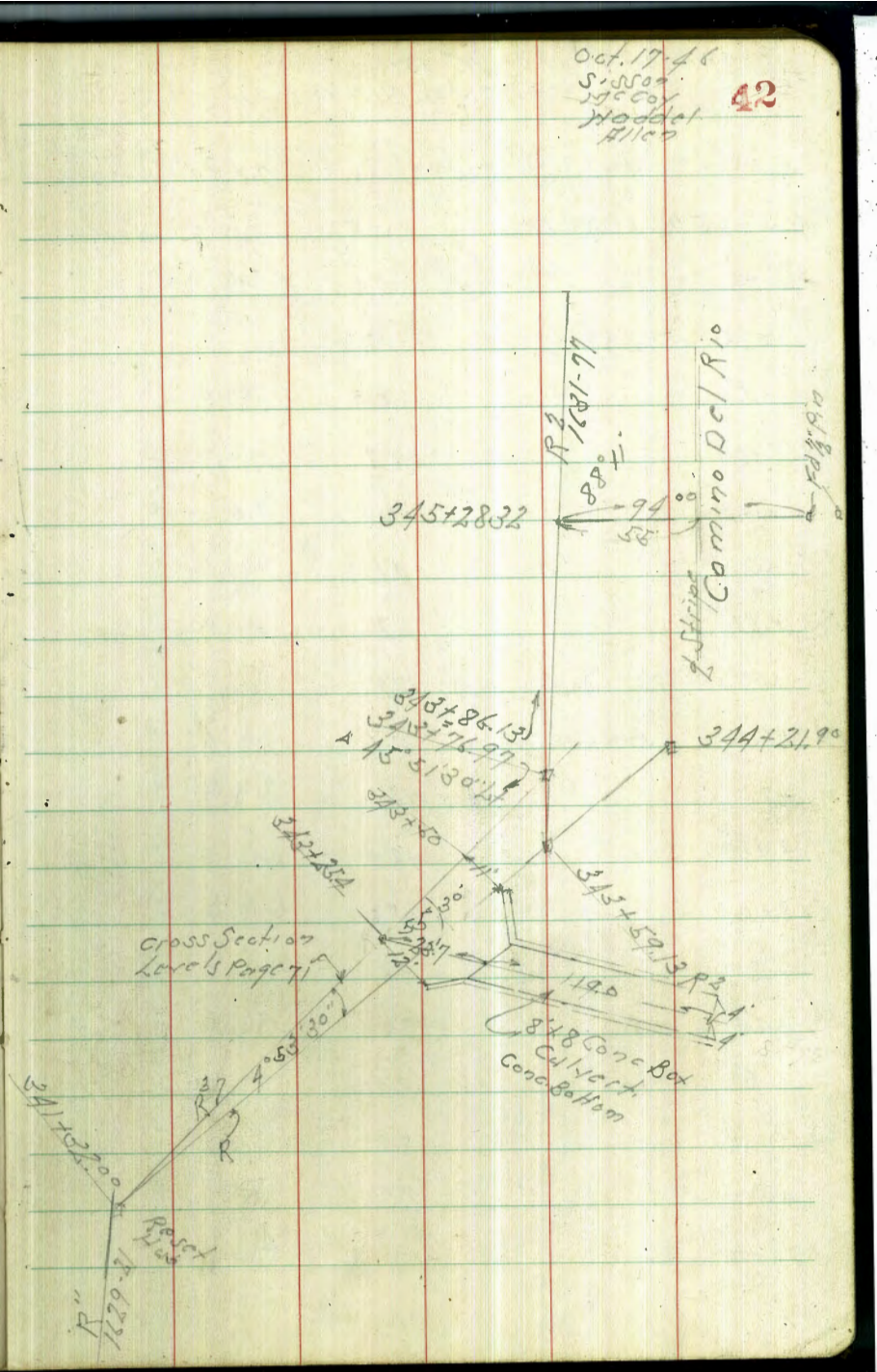
9.7

7.2
4.5

76.4
79.5

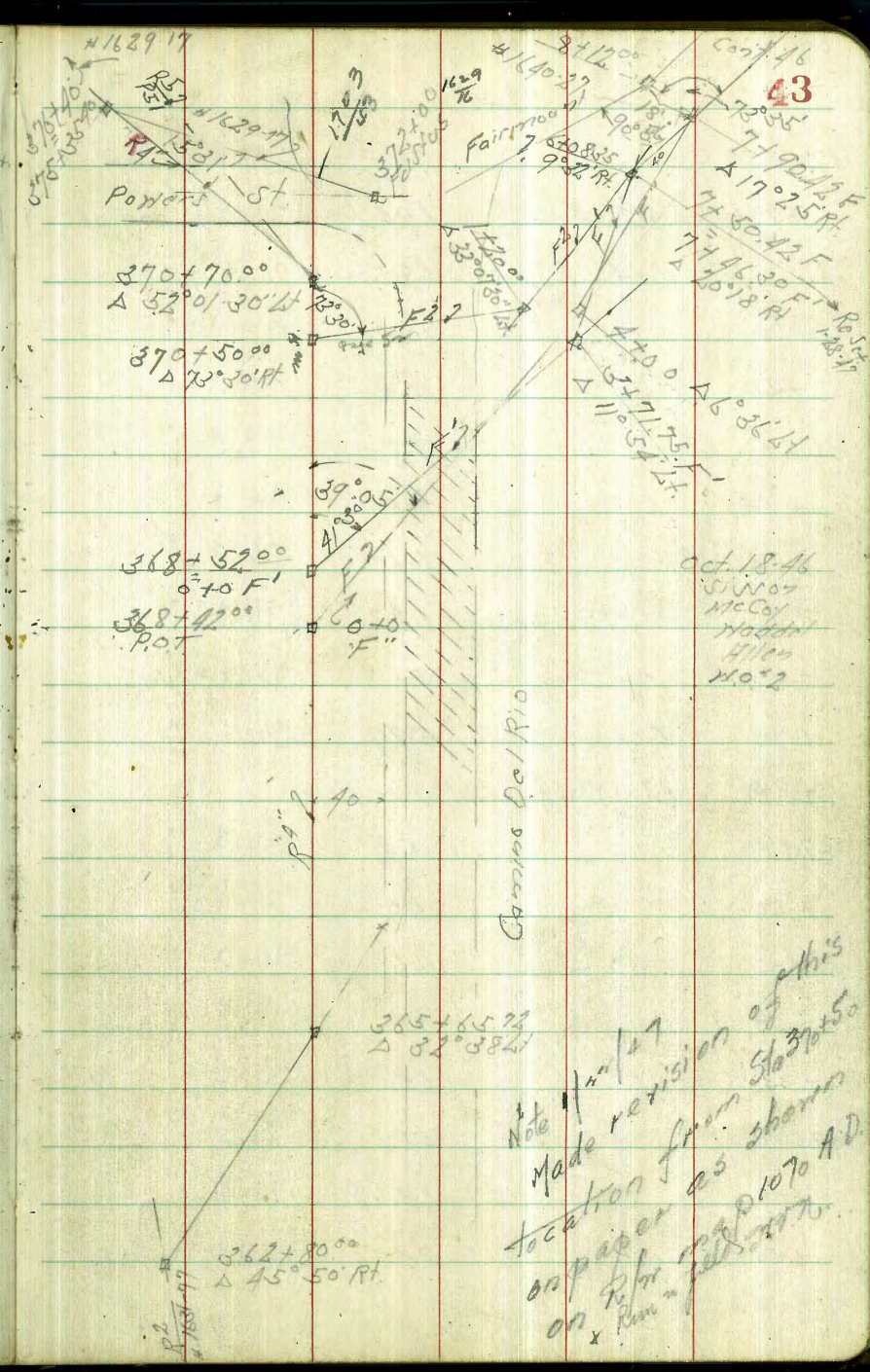
Proposed Sewer Mission Valley Trunk #1
Camino Del Rio & Hotel Road
R Line

BM #53	1.84	(7728)		75.44	Spike in Pole 15 Rt 34+79.06
341+32.00	℄		2.47	74.81	on Hub
+58			2.6	74.7	✓
342+0			8.7	68.6	✓
+12	= Wly Property		10.25	67.03	✓
+34	Approx ℄	"	9.15	68.13	✓
+67	= Ely	"	9.07	68.21	✓
+83			7.8	69.5	✓
342+0			12.3	65.0	✓
+13			14.5	62.8	✓
+14	= NWly Bottom Mash		17.4	59.9	✓
+26	= ℄ Mash		17.1	60.2	✓
+46	= SEly Bot Mash		17.0	60.3	✓
+47			14.3	63.0	✓
+57			14.1	63.2	✓
+67			7.4	69.9	✓
+76.97			6.78	70.50	on Stub
+86.13					



Proposed Center Mission Valley Trunk
Camino Del Rio West of Fairmount
R# Line

B.M. #57	5.11	78.39	73.28	☐ Rod South Hdw Culvert W. of Fairmount
365+65.7 Δ 32°38'Lt			74.52	on Hub
366+0		5.0	73.4	
+25	92 Rto I/4 - N'ly Tel Pole			
+50		5.0	73.4	
367+0		6.2	72.2	
+42		7.6	70.8	
+50		11	74.0	
+61		8.2	70.2	
+69	S'Wly Bottom Wash	17.2	61.2	
+75	Bottom Wash	18.4	60.0	
+82	" "	18.5	59.9	
+90	" "	18.4	60.0	
368+03		15.8	62.6	
+20		8.6	74.8	
+33		8.0	70.4	
+42	P.O.T.	8.21	70.18	on Rock
369+0		8.1	70.3	
+50		6.7	71.7	
370+0		7.2	71.2	



R4 Line

		(78.39)		
370+50		7.0	71.4	✓
+70.00	Δ 52°01'30" Lt	6.93	71.46	✓ 02 Stub
PI	11.14	(82.60) ✓	6.93	(71.46) ✓
371+0		10.5	72.1	✓
+50		10.4	72.2	✓
372+0		9.2	73.4	✓
+15		8.5	74.1	✓
+35		6.4	76.2	✓
+45	= Hwy Passing	6.33	76.37	✓
+67	07 "	5.68	76.92	✓
+93	= Ely "	5.97	76.63	✓
+95	12.6 Rt of Hwy Power Pole			
373+0		5.8	76.8	✓
+50		6.0	76.6	✓
374+0		6.6	76.0	✓
+50		7.1	75.5	✓
+94		6.5	76.1	✓
375+0		5.1	77.5	✓
+09		1.3	81.3	✓
375+35.40 = 376+40		3.48	79.12	✓ 02 Hub

Proposed Sewer in Mission Valley at FAIRMOUNT AVE

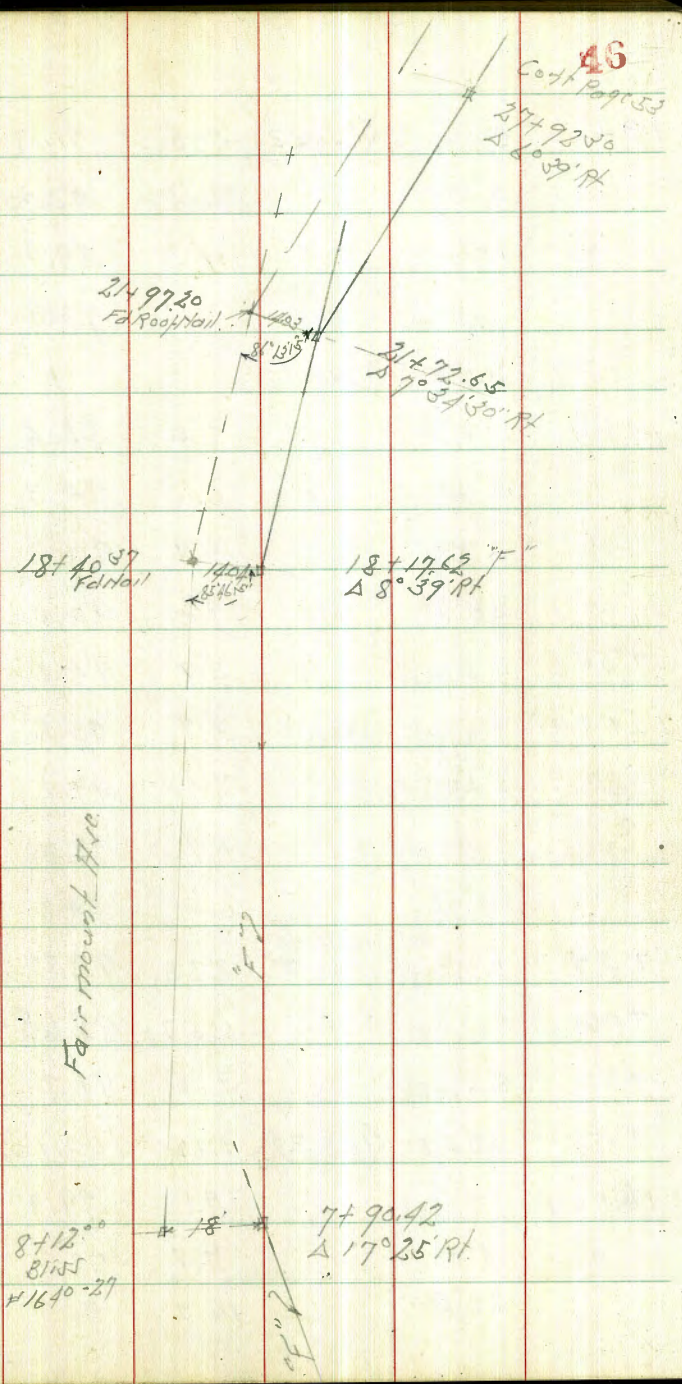
Fairmount "F" Line Sketch Page 43

Oct 21-46 S.S.S.O.7 McCoy Master Allen

BM 57	3.24	(76.52)		73.28	☐ W Fad Socty Head Wall Calc W of Fairmount			(76.52)					
0+0 F=368+42 Rt			6.35	70.17	✓ w 10 pt #6	TP	10.78	(86.17)	1.13	(75.39)			
+10			8.2	68.3	✓	5+0			9.6	76.6	✓		
"	6' Rt of ℄		8.8	67.7	✓	+50			8.5	77.7	✓		
"	10 " " "		16.3	60.2	✓ =Bottom 76.53	6+0	Return 1703 5W		8.1	78.1	✓		
+33			6.7	69.8	✓	+50			8.0	78.2	✓		
+40			9.3	67.2	✓	"	14 Rt of ℄		10.9	75.3	✓		
+50	Return 1703 5W		8.8	67.7	✓	"	35 Rt " "		14.1	72.1	✓		
+60			3.6	72.9	✓	7+0			8.0	78.2	✓		
+72	=Hy AC Paving		3.44	73.08	✓	+15			6.2	80.1	✓		
1+0	=Approx ℄ Camino Oct 15 '46		2.92	73.60	✓	+20			8.4	77.8	✓		
+23	=Sly AC Paving		3.34	73.18	✓	+45			7.9	78.3	✓		
+56			3.2	73.3	✓	+70			4.5	81.7	✓		
+73			5.6	70.9	✓	7+9042 Δ			2.37	83.80	✓ on Stub Δ		
2+0			5.9	70.6	✓	8+12	Bliss		1.53	84.64	✓ " "		
+50			5.5	71.0	✓						10/29/46 McCoy Allen		
3+0			4.8	71.7	✓	7+9042	8.60	(92.40)		(83.80)	on Stub Δ		
+50			4.0	72.5	✓	8+00	℄		8.4	84.0	✓		
4+0	Δ L 36' Lt		3.82	74.20	✓ on Stub	"	4' Rt		8.4	84.0	✓		
+50			0.9	75.6	✓	"	11' R.		13.8	78.6	✓		
						+39	4' Rt Power Pole						

"F"

8+50	℄	(92.40)	7.6	84.8	✓
9+00	℄		6.8	85.6	✓
"	3' Rt		7.0	85.4	✓
"	13 Rt		11.5	80.9	✓
+50	℄		6.0	86.4	✓
10+00	℄		4.7	87.7	✓
"	3' Rt.		5.2	87.2	✓
"	11' Rt		10.6	81.8	✓
+50	℄		4.0	88.4	✓
11+00	℄		3.1	89.3	✓
"	3' Rt.		3.2	89.2	✓
"	15' Rt.		5.3	87.1	✓
"	21' Rt		12.4	80.0	✓
+17	2.6' Rt	Power Pole			
+50	℄		2.3	90.1	✓
TP	9.02	(101.22)	0.20	(92.20)	✓
12+00	℄		10.5	90.7	✓
"	2' Rt.		10.7	90.5	✓
"	5' Rt.		11.7	89.5	✓
+50			9.9	91.3	✓



		✓			
13+00	℄	⟨101.22⟩	9.5	91.7	✓
"	5' Rt		11.0	90.2	✓
"	15' Rt		11.3	89.9	✓
+50			7.5	93.7	✓
+97	2.5' Rt	Power Pole			
14+00			7.6	93.6	✓
"	3' Lt		6.5	94.7	✓
"	3' Rt		8.9	92.3	✓
"	20' Rt		9.2	92.0	✓
+50	℄		5.9	95.3	✓
15+00	℄		5.4	95.8	✓
"	5' Lt.		4.1	97.1	✓
"	5' Rt		7.4	93.8	✓
"	20' Rt		6.4	94.8	✓
+04	5' Rt. 30' Cor. I. Pipe Outlet ℄		8.33	92.89	✓
+06	℄ on Top 30' C.I.P.		5.57	95.65	✓
+50	℄		3.5	97.7	✓
TP	8.27	⟨108.39⟩ ✓	1.12	⟨100.10⟩	✓
16+00			9.1	99.3	✓
"	5' Rt		9.7	98.7	✓
"	20' Rt		10.2	98.2	✓

		✓			
16+50		⟨108.39⟩	8.0	100.4	✓
+78	2.5' Rt	Power Pole			
17+00	℄		6.6	101.8	✓
"	3' Rt		6.3	102.1	✓
"	8' Rt.		9.1	99.3	✓
"	20' Rt		11.6	96.8	✓
+50	℄		6.3	102.1	✓
18+00	℄		5.6	102.8	✓
"	4' Rt.		5.9	102.5	✓
"	6' Rt		7.7	100.7	✓
"	20' Rt.		7.4	101.0	✓
18+17.62			5.09	⟨103.30⟩ ✓	✓ on 2 x 2 Hub ℄ Rt.
TP	8.04	⟨112.09⟩ ✓	4.34	⟨104.05⟩ ✓	✓ our nail 1404 Lt. in Pav.
+50			8.4	103.7	✓
19+0			7.5	104.6	✓
"	4' Rt to ℄	Toe Slope	9.1	103.0	✓
"	15' Rt	"	9.5	102.6	✓
+50			6.5	105.6	✓
+56			8.8	103.3	✓
+58	Rt to ℄	El. Power Pole			
		Cont. Pg. 53			

"F" Line Fairmount A.C.

Sketch Page 45 Revised from Page 45

Oct. 29. 46
Simon
McCoy
Waddell
Allen

43

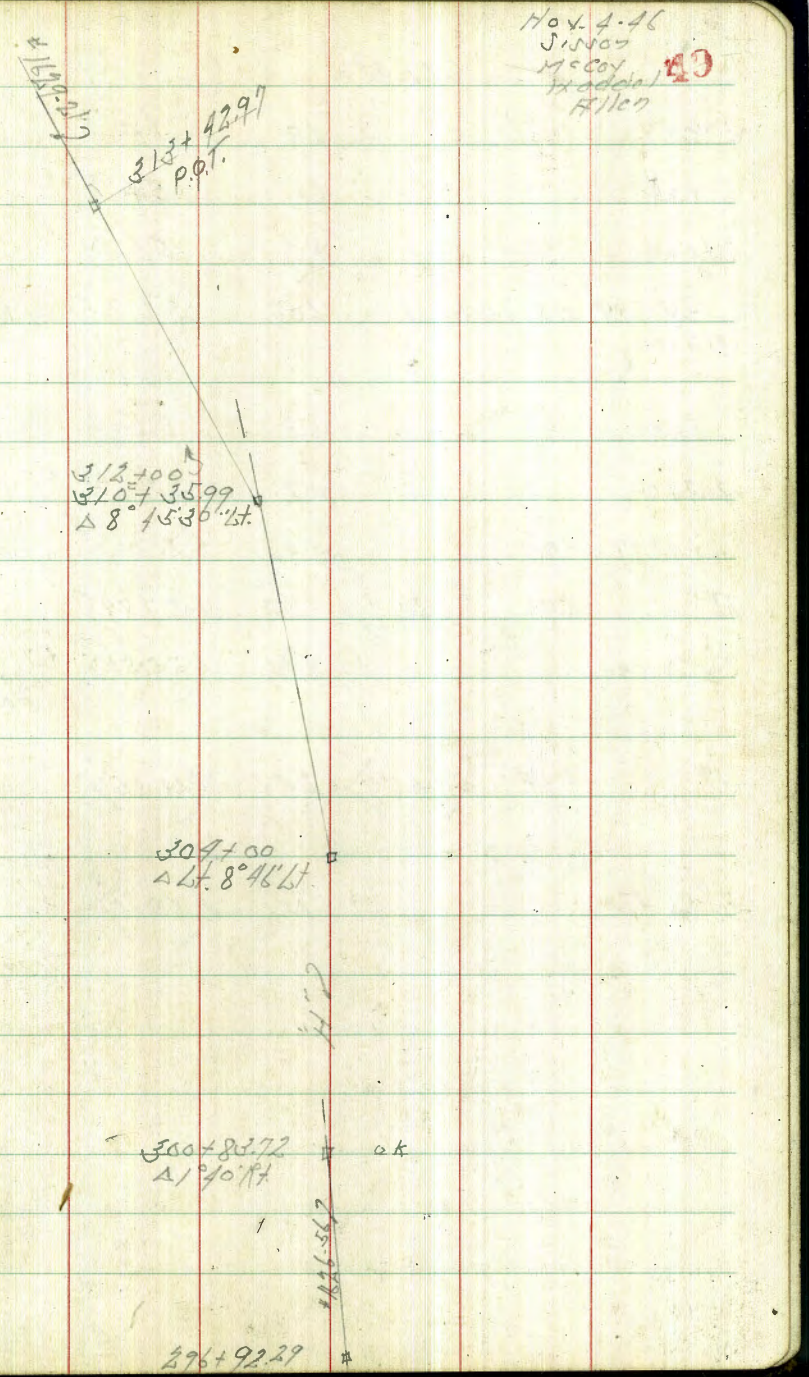
BM "57 3.25	(76.53)		(73.38)	E.M. Road So. H.W. Culvert W of Fairmount			(76.53)		
				W 10/30/46					
0+0	= 368+52.0° Rt	6.91	69.62	0.5 Stub	3+0	6' Rt of ℄	1.6	74.9	
+20		6.6	69.9		"	16' Rt "	8.6	67.9	= Bottom Ditch
"	9' Rt of ℄	6.9	69.6		+36		4.0	72.5	
"	4' Rt " "	13.9	62.6		+71.75	Δ 11°54' Lt.	0.80	75.7	0.5 Stub
+30		6.7	69.8		"	℄ Lt of ℄	2.9	73.6	
+38		8.8	67.7		"	7' Rt " Top Bank	3.3	73.2	
+47		8.6	67.9			12' "	7.6	68.9	= Bottom Ditch
+60		3.8	72.7		4+0		1.2	75.3	
+70	= M/A.C. Paving	3.42	73.11		+10		1.9	74.6	
+94	= Approx ℄ "	2.91	73.62		+50		0.7	75.8	
1+17	= S/y A.C. "	3.32	73.21		TP	9.98 (85.86)	0.65	(75.88)	
+45		2.9	73.6		5+0		9.1	76.8	
+60		5.4	71.1		+50		8.4	77.5	
2+0		5.8	70.7		6+0		8.0	77.9	
"	8 Rt of ℄	2.8	73.7		+50		7.3	78.6	
"	18' " "	7.2	69.3		+90		5.3	80.6	
"	26 " "	11.3	65.2	Bottom Ditch	+93		7.6	78.3	
+50		4.1	72.4		7+28		7.3	78.6	
3+0		4.3	72.2		+39		5.2	82.7	
					+46.30	Δ 20°18' Rt	2.89	82.97	0.5 Stub
					7+55.42 F				
					For Check		1.22	84.64	0.5 Stub 8+12.8 Lt 5

Proposed Sewer Mission Valley Trunk
"H Line"

B.M.	4.62	(55.98) ✓		(51.36) ✓	03 Stub 296+92.29 182-54
300+82.72	Δ 1°40' Rt.		3.41	(52.57)	03 Stub
301+0			3.4	52.6 ✓	
+05	3 Wire Fence				
+50			2.4	53.6 ✓	
302+0			0.9	55.1 ✓	
TP	11.75	(65.95) ✓	1.78	(54.20) ✓	
+50			11.8	54.1 ✓	
303+0			8.2	57.7 ✓	
+50			6.4	59.5 ✓	
304+0	Δ 8°46' Lt.		5.10	60.85 ✓ 03 Hub	
+50			6.4	59.5 ✓	
305+0			10.9	55.0 ✓	
+50			11.6	54.3 ✓	
306+0			11.9	54.0 ✓	
+50			6.7	59.2 ✓	
307+0			11.7	54.2 ✓	
TP	7.64	(61.42) ✓	12.17	(53.78) ✓	
+50			7.8	53.6 ✓	
308+0			7.7	53.7 ✓	
+50			7.7	53.7 ✓	

Nov. 4-46
Sisco
McCoy
Waddell
Allen

43



		(61.92) ✓			
309+00			6.9	54.5 ✓	
+50			6.6	54.8 ✓	
310+00			5.2	56.2 ✓	
+3599	Δ 8°45'30" Lt		4.07	(57.35)	on Stub
312+00					
+50			5.8	55.6 ✓	
313+00			5.2	56.2 ✓	
+4297	P.O.T.		5.12	(56.00) ✓	on Hub
TP	5.90	(62.79) ✓	3.53	(57.89) ✓	
For Check			8.25	(55.54) ✓	on Hub 81717687 1629-23 555
TP	9.42	(70.77) ✓	2.44	(61.35) ✓	
BM #48			1.61	(69.16) ✓	Spk Tel Pole 45' Rt 312+10 Ou 69.11 #1629-8

Proposed Sewer Mission Valley Trunk
P&L Line At Fairmount

	Tunnel Invert Elev.				
BM	11.86	(83.32) ✓		71.46	0+57.06 370+70 Page 44
371+0			11.4	71.9	
+50			11.0	72.3	
+87			9.8	73.5	
372+0			7.8	75.5	
+14	Hy of Paving		7.40	75.9	
+34	" " "		6.55	76.77	
+36	Ely " "		6.62	76.70	
373+0			5.8	77.5	
+50			5.3	78.0	
374+0			5.9	77.4	
+50			5.2	78.1	
+71			4.1	81.2	
TP	8.12	(91.24) ✓	0.20	(83.12) ✓	
+72			1.7	89.5	
375+0			3.4	87.8	
+50			6.1	85.1	
376+0			8.1	83.1	
+50.03			9.85	81.39	0+57.06
Forehead			12.06	(79.18) ✓	0+57.06 375+35.40 79.18 Page 44

Nov 4-46
S. Stein
McCoy
Waddell
Allen

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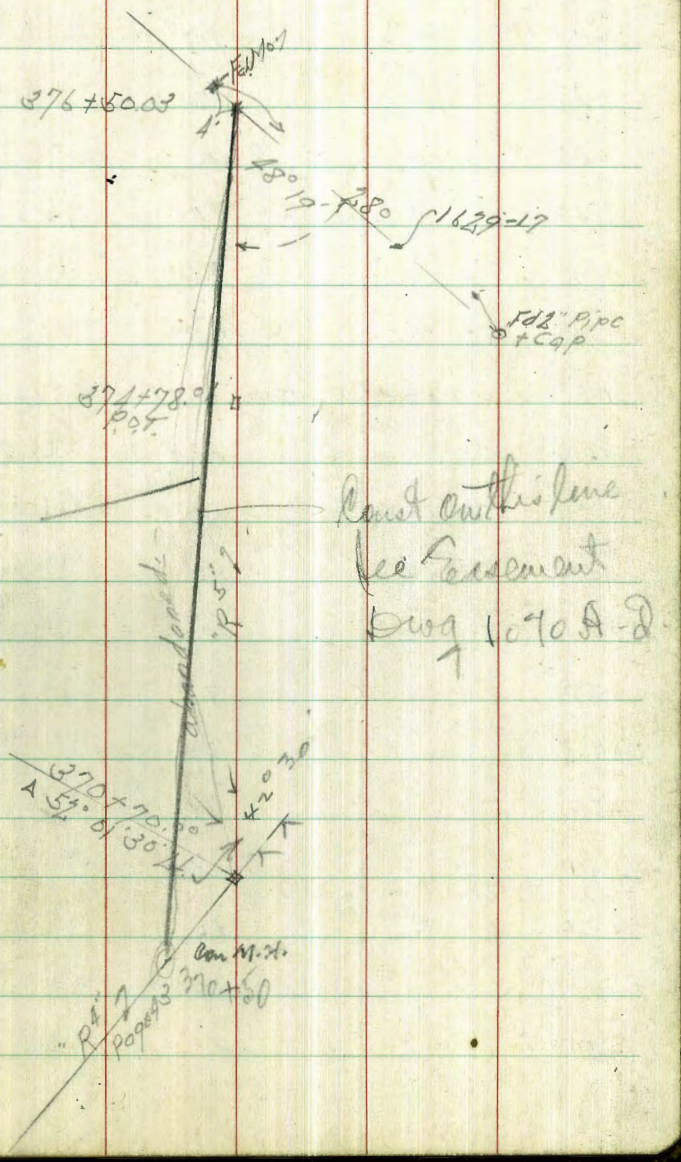


Proposed Sewer Mission Valley Trunk
Camino Del Rio West of Fairmount
Sketch Page 43

Sep. 28-47
Sheet 52

BM #57	10.70	8398	(7358)		□ N End Sc Hw Culvert W of Fairmount
0+0 = 370+50 P.T.			12.55	71.43	00 Hub
+15			11.9	72.1	
+32			13.0	69.0	
+35			10.1	73.9	
+47 = N'ly AC Paving			9.76	74.22	
+65	0 " "		9.14	74.84	
+84 = S'ly " "			9.97	74.01	
+93	= Top 36" Water Pipe Conc Top		14.32	(69.6)	
1+10			10.5	73.5	
+20	= Δ 33°07'30" Lt		12.49	71.49	00 Stub
+46	46'+ to P.T. = P Power Pole		Pole		
+50	# 79875		11.4	72.6	
2+10			10.0	74.0	
+50			9.8	74.2	
3+10			8.7	75.3	
+50			7.9	76.1	
4+01			6.9	77.1	
+18	37.5'+ to P.T. = P Power Pole				
+50	# 79983		6.0	78.0	
5+10			5.7	78.3	
+30			4.1	79.9	

	8398		
5+95		1.7	8N.3
6+08.35 = 7+50.42 "F"		1.22	9N.96
To Page 45			

Camino Del Rio
S'ly Camino Del Rio

EC

8" Water Pipe

14.9+58.64
150+11.90 Fd Stub
Δ 16°03'30"

Existing Hydrant
+81 on 8" Valve

148+38.5

BC

8" Water Pipe

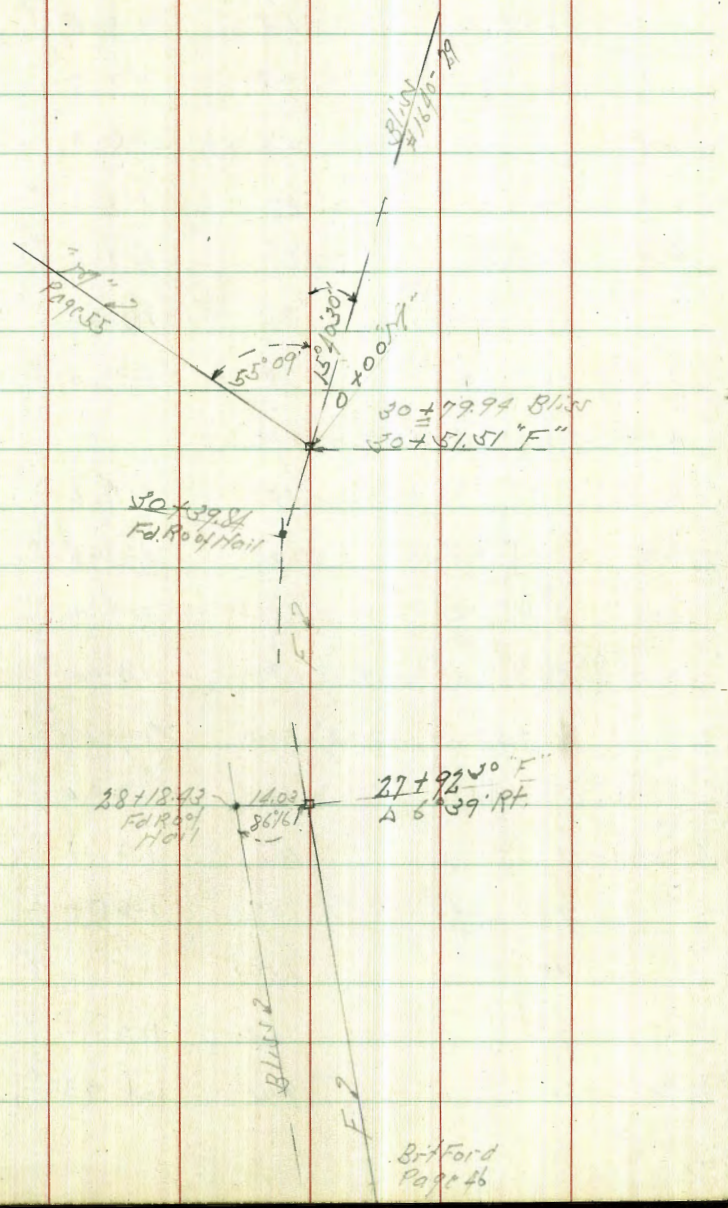
144+00 Stub Out

Proposed Sewer Fairmount Ave.

(112.09) Bt Ford Page 47

20+0	= Toe Slope	7.9	104.2	✓
"	15' Lt of ℄	7.9	104.2	✓
"	4' "	5.7	106.4	✓
+50		5.6	106.5	✓
21+0		4.6	107.5	✓
"	3' Rt of ℄	6.0	106.1	✓
"	15' " "	5.6	106.5	✓
+50		3.1	109.0	✓
+72.65	Δ 7°34'30" Rt	2.40	109.7	✓ on Hub
22+0		4.5	110.6	✓
"	7' Rt of ℄	1.9	110.2	✓
"	12' " "	4.0	108.1	✓
TP	9.66 (120.85)	0.90	(111.19)	✓
+43	12' Rt of ℄ = Fly Power Pole			
+50		9.2	111.6	✓
23+0		8.4	112.4	✓
"	10' Rt. of ℄	8.9	112.0	✓
"	18' Rt. "	11.1	109.7	✓
+50		7.6	113.2	✓
+78	4' Rt of ℄ = Outlet 18" Corg. Iron Culvert 6' Conc Headwall	10.74	110.11	✓ Flow Line

Feb 26-47
S. Sisco
H. McCoy
Waddell
Allen



"F" Line

		(120.85)			
24+0			5.9	115.0	
"	3' Rt of ℄		6.4	114.4	
"	" " "		7.8	113.0	
+50			4.4	116.4	
25+0			3.7	117.1	
"	3' Rt of ℄		3.7	117.1	
"	8' " "		7.4	113.4	
"	15' " "		7.9	113.0	
+30	12 Rt of ℄ = Ely Power Pole				
+50			3.2	117.6	
26+0			1.3	119.5	
"	3 Rt of ℄		1.5	119.4	
"	12 " "		6.8	114.0	
TP	12.59	(132.44)	1.00	(119.85)	
+50			12.4	120.0	
27+0			11.3	121.1	
"	7' Rt of ℄		10.7	121.7	
"	15' " "		15.3	117.1	
+50			10.4	122.0	
+93.20	Δ		9.51	122.93	on stub

(132.49)

54

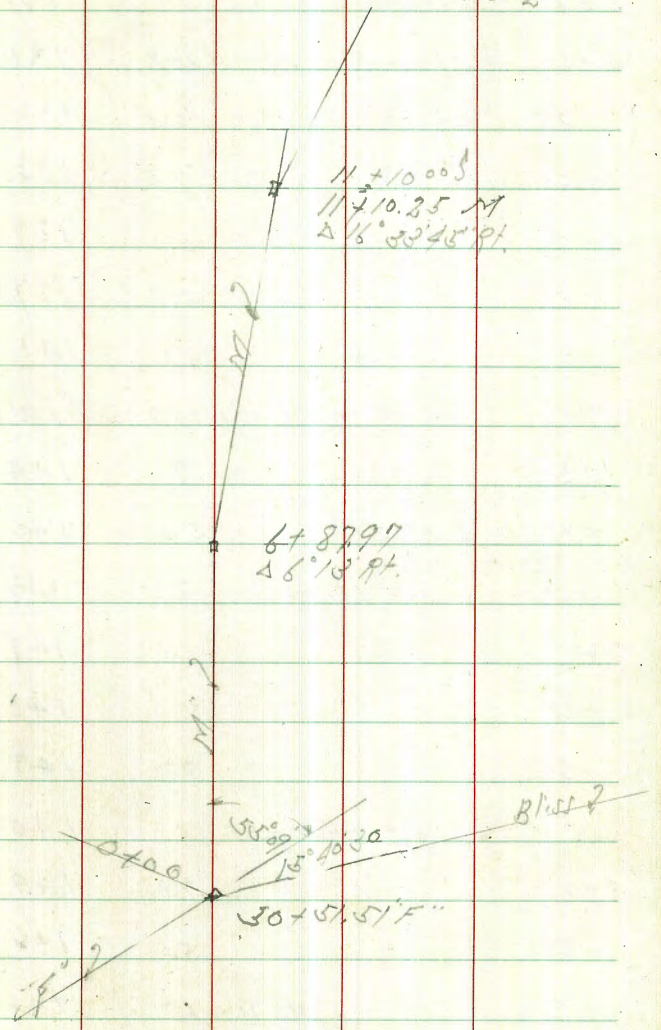
28+0		9.2	123.2	
"	4' Rt of ℄	9.5	122.9	
"	15' " "	14.1	118.3	
+29	6.5 Rt of ℄ = Ely Power Pole			
+50		7.4	125.0	
29+0		5.2	126.7	
"	2' Rt of ℄	6.0	126.4	
"	11' " "	10.6	121.8	
+50		3.8	128.6	
30+0		2.3	130.1	
"	8 Rt of ℄	1.7	130.7	
"	20' " "	10.3	122.1	
+51.51	Δ	2.58	(129.86)	on stub
BM "1		3.37	129.07	Chisel D on NW Corner Head Wall of Culvert 123.99 "1640-38

Proposed Sewer E/Cerrito & College Park
Outfall Fairmount Ave. East
"M" Line

BM #1	506	⟨134.05⟩		⟨128.99⟩	Chisel II NW Conc. H/W Culvert Fairmount & Montezuma
0+0	= 30.51 & I"		4.27	129.78	✓
+02.4	= NL Pavg		4.10	129.95	✓
+19.5			3.17	130.88	✓
+40.2	= Ely Paving		3.02	131.03	✓
+50			1.6	132.4	✓
+57			0.9	133.1	✓
+68			6.1	128.0	✓
+88			6.6	127.4	✓
+94			3.8	131.2	✓
1+0			3.2	130.8	✓
+07			6.5	127.5	✓
+24			6.8	127.2	✓
+32			5.1	129.0	✓
+50			5.2	128.8	✓
2+0			4.4	129.6	✓
+50			1.9	132.1	✓
TP	9.90	⟨143.10⟩	0.85	⟨133.20⟩	
3+0			8.9	134.2	✓
+50			8.0	135.1	✓

Feb. 28-47
Sisson
McCoy
Waddell
Allen
WO #2

55

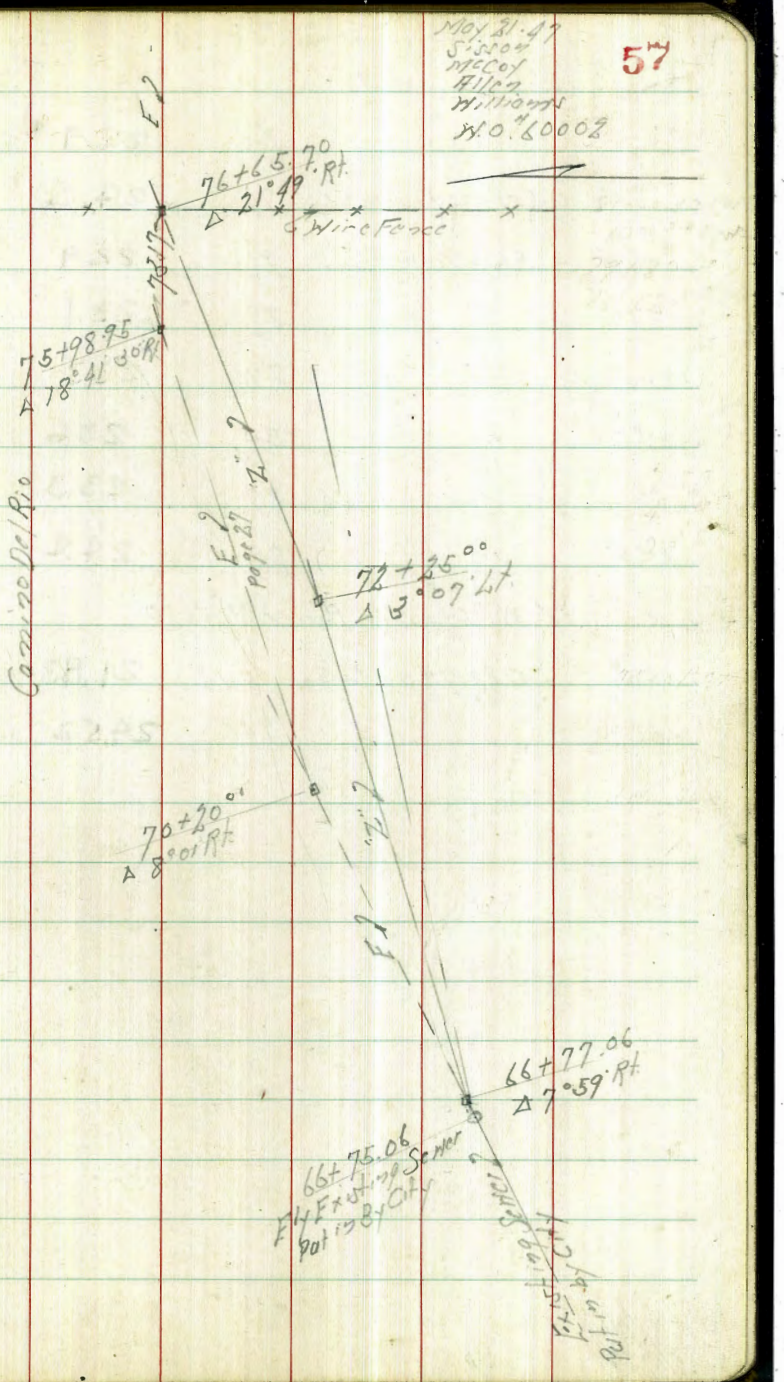


		(143.10)		
3+81		8.0	135.1	✓
4+0	= Bottom Barrow Pit	11.2	131.9	✓
+38		10.5	132.6	✓
+50		7.6	135.5	✓
5+0		5.9	137.2	✓
+50		5.4	137.7	✓
6+0		1.2	141.9	✓
TP	10.15	(151.97)	(141.82)	✓
+50		7.1	144.9	✓
+87.97	Δ 6°13'Rt	5.30	146.67	✓ on Stab
"	7' Lt of ℄	8.7	143.3	✓
7+0		6.3	145.7	✓
+09		9.0	143 0	✓
+50		8.2	143.8	✓
"	3' Lt of ℄ = Bottom Bor Pit	13.0	140 0	✓
8+0		7.3	144.7	✓
+50		5.3	146.7	✓
+62	= Bottom open Sewer	6.0	146.0	✓
9+0		4.2	147.8	✓
+50		2.5	149.5	✓

		(151.97)			
10+0			1.8	150.2	✓
TP	9.54	(157.85)	1.66	(150.31)	✓
+18.			7.2	150.6	✓
+33	= Bottom Wash		8.5	149.3	✓
+50			7.8	150.0	✓
+61			6.6	151.2	✓
+80			6.2	151.6	✓
+93	= Bottom Wash		7.6	150 2	✓
11+02			5.3	152.5	✓
	+10.25 Δ 16°33'45"Rt = +10.00 Bk St		5.21	(152.64)	✓ on Hub 152.66 #1640-65

Proposed Sewer Mission Valley Trunk
East of 61st St. Ext. South Camino Del Rio
"Z" Line

BM	60°	31.96		25.96	Δ to disc in top 15' Δ 76+07 Elev 1670.67
66+75.06	= Sty Existing Sewer		14.60	17.36	Top Pipe
+77.06	Δ 7°59' Rt		9.90	22.06	on Hub
67+0			9.8	22.2	
+50			9.8	22.2	
68+0			9.7	22.3	
+50			9.6	22.4	
69+0			9.1	22.9	
+50			9.4	22.6	
70+0			9.3	22.7	
+50			9.3	22.7	
71+0			9.3	22.7	
+50			9.1	22.9	
72+0			9.3	22.7	
+25.00	Δ 8°07' Lt		9.17	22.79	on Hub
+47	= Sty Prop. Fill		9.1	229	Ground
"	Approx. Finish Grade		7.1	24.9	
73+0			9.2	228	
+50			9.1	22.9	
+74	15 Lt of ℄ = Sty Anchor Pole				
+91	21' Rt of ℄ Sty Power Pole #273250				

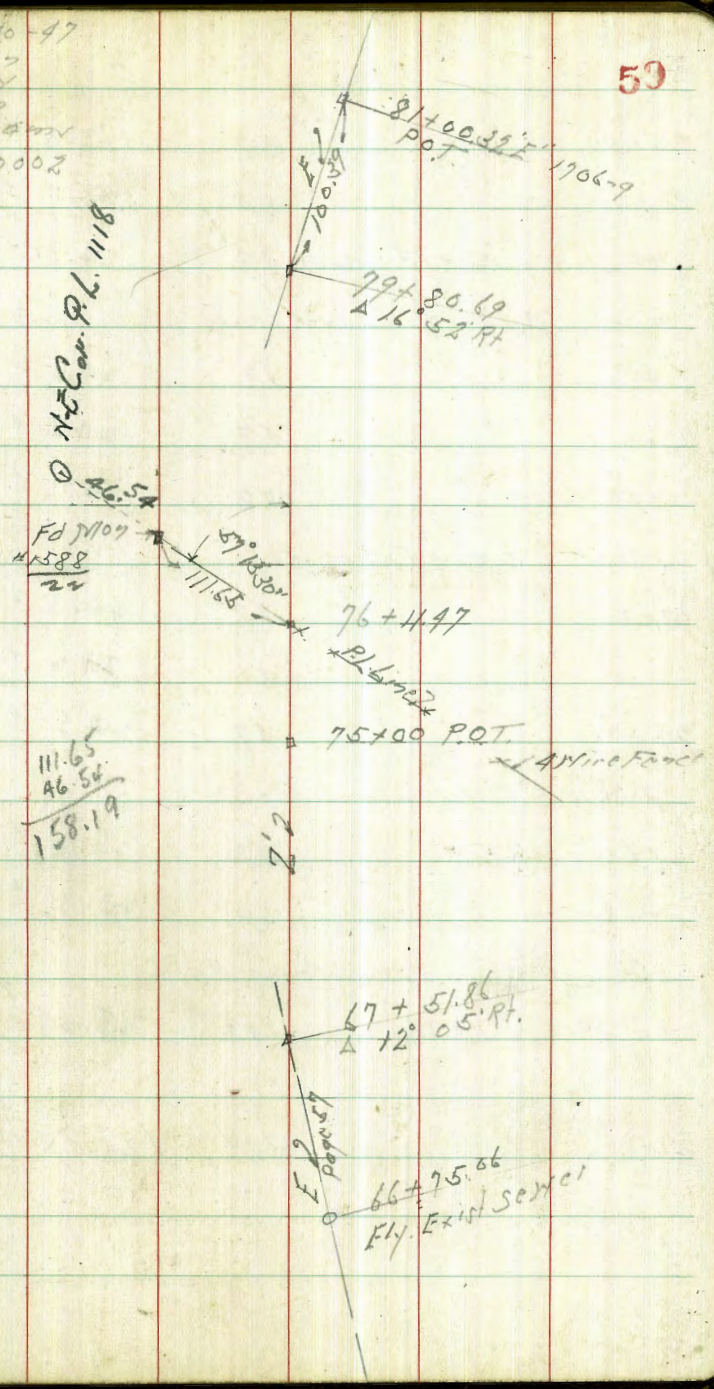


	3.96			
74+0		9.1	22.9	Ground
"	Approx Finish Grade	2.8	24.2	
+14	= Ely Prop. Fill	9.1	22.9	
+50		8.9	23.1	
75+0		8.7	23.3	
+50		8.4	23.6	
76+0		8.7	23.3	
+50		7.6	24.4	
"	6 Rt of ℄ : Ely Power Pole #4687			
+61.2	2.5 Rt of ℄ : Ely Gas	10.18	21.83	Top Pipe
+65.70		7.44	24.52	on pipe

Line Change Mission Valley Trunk Sewer
East of 66th St. Ext. South of Commonwealth.
12" Line

BM	7.56	29.62		22.06	on Hub 66+77.06 Page 87
67+0			6.9	22.7	
+51.86	Δ 12°05		7.23	21.89	on Stub
"	108 Lt of ℄ SL/AC Paving				
68+0			6.8	22.8	
+50			6.6	23.0	
69+0	238 Lt of ℄ SL/AC		6.8	22.8	
+50			7.1	22.5	
70+0			6.9	22.7	
+50			7.0	22.6	
71+0	104 Lt of ℄ SL		6.9	22.7	
+50			6.8	22.8	
72+0			6.7	22.9	
+50			6.8	22.8	
73+0	256 Lt of ℄ SL/AC		6.5	23.1	
+50			6.7	22.9	
TP	5.61	(29.23)	6.00	(23.62)	
74+0	489 Lt of ℄ SL/AC Bv		6.0	23.2	
+50			6.0	23.2	
75+0			5.84	(23.39)	on Stub

Sanco 30-47
S-3503
McCoy
Filer
Williamson
W.O. 60002



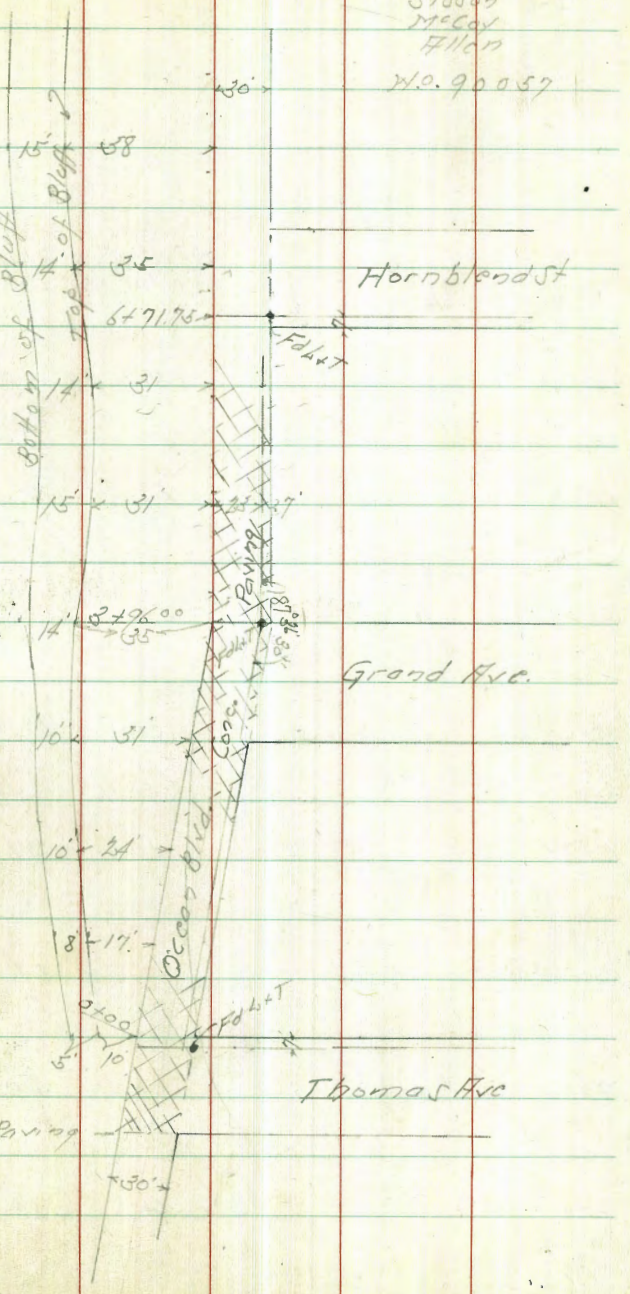
		(29.23)		
75+50		5.7	23.5	✓
76+0		5.5	23.7	✓
+11.5	= 4' Wire Fence N&S	4.4	24.8	✓
+40	9'4 to 1/2 : 4 Cable Dead Man to North			
+50		4.9	24.3	✓
77+0		4.7	24.5	✓
+50		5.0	24.2	✓
+81	= 5' Wire Fence N&S			
78+0		4.9	24.3	✓
+50		5.0	24.2	✓
79+0		4.7	24.5	✓
+36	= 4' Wire Fence N&S			
+50		4.2	25.0	✓
+58	5' Rt = Sump	5.9	23.3	✓
+66	= Move 5' Wire Fence E&W			
+80.69	16°52' Rt	3.98	25.25	✓ assumed
BM		3.29	(25.94) ✓	Lt Disc 15' Lt 76+0 ± 25.96

Location of Bluff West of Ocean Blvd.
T. Thomas Ave to Feldspar St.
Pacific Beach

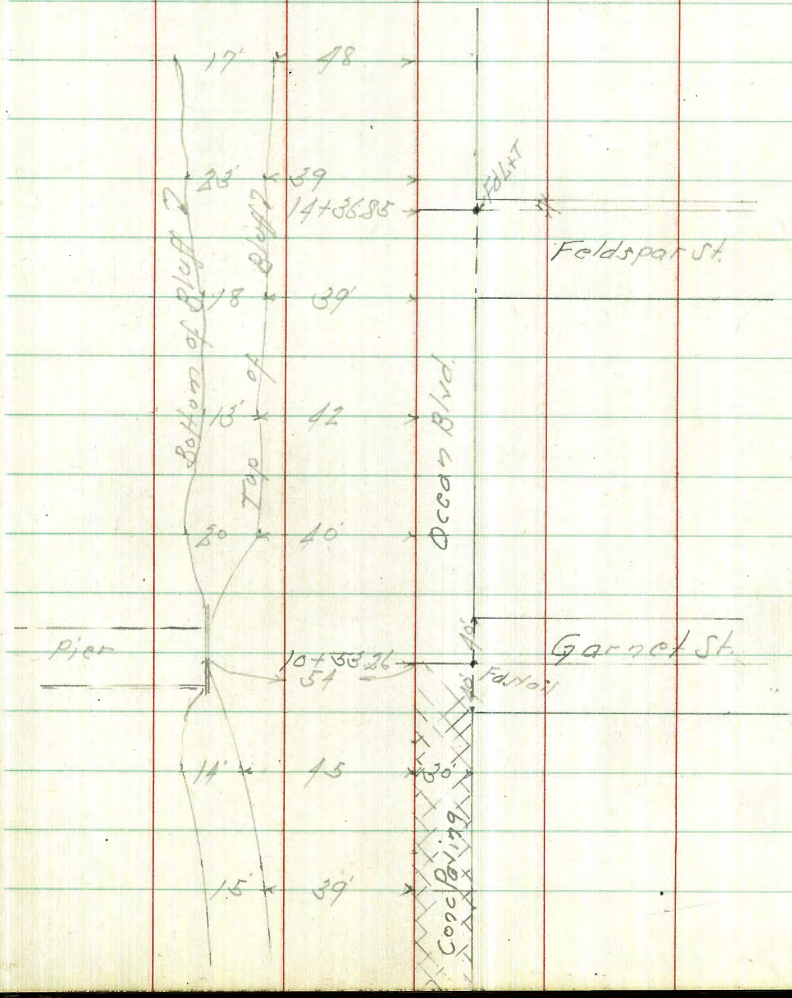
	Bottom of Bluff West of Ocean Blvd	Top of Bluff West of Ocean Blvd
8+00	53	38
7+00	49	35
6+00	45	31
5+00	46	31
3+96.00	49	35
3+00	41	31
2+00	34	24
1+00	25	17
0+00	15	10

Indexed
C.S.K.

July 29 47
Sisson
McCoy
Allen
W.O. 90057

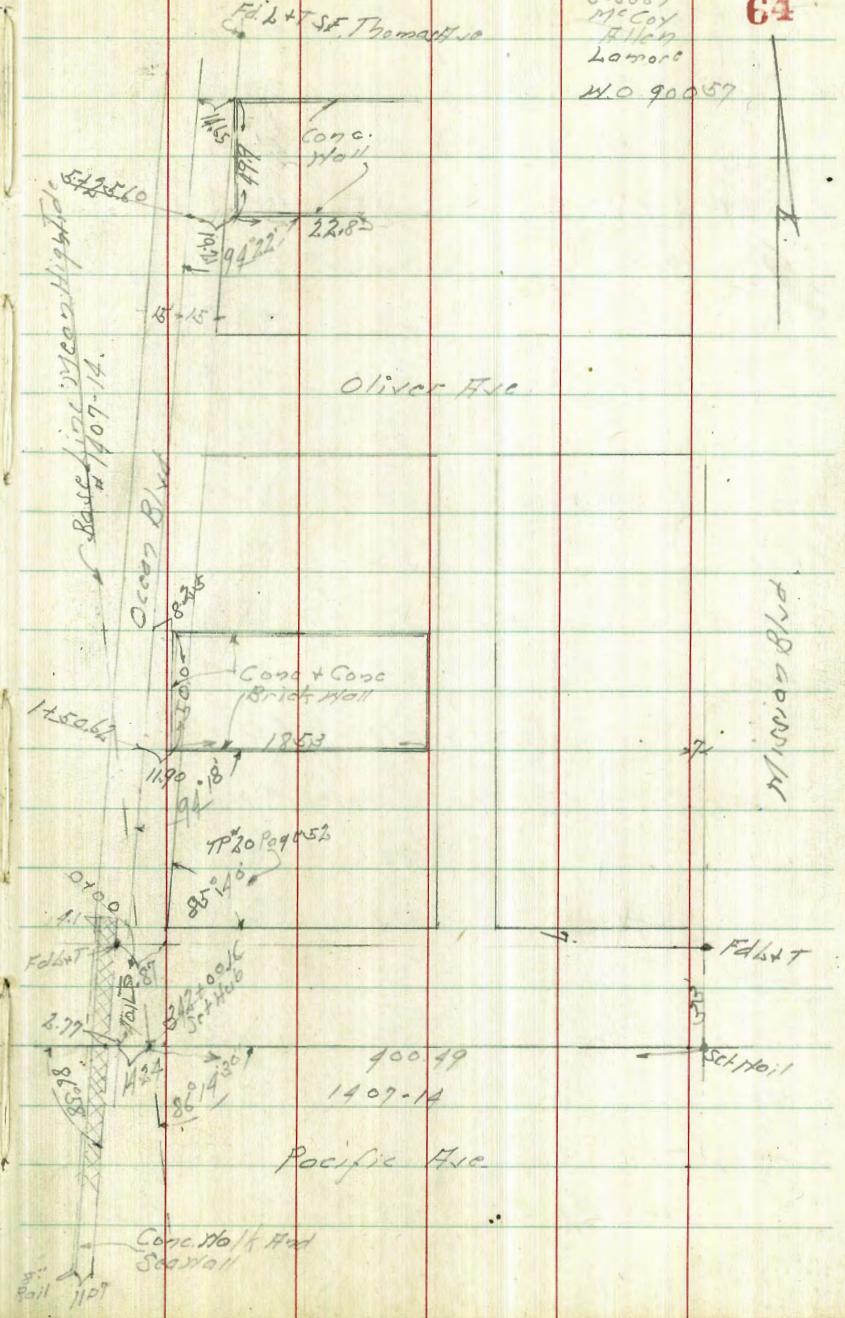


		Bottom of Bluff West of W.L.	Top of Bluff Ocean Blvd
14+36.85		65	48 - W'ly Ramp; 33 - E'ly Ramp
14+0		62	39
13+0		57	39
12+0		55	42
11+23		60	40
10+53.26		59 - Bulk Head & Pier	
9+91	= S'ly Bldg	59	45
9+0		54	39



Survey Ocean Blvd North of Pacific Ave.
Tie Base Line Mean High Tide #150
Mission Beach Seawall

Aug. 5-17
Sisson
McCoy
Allen
Lamore
W.O. 90057

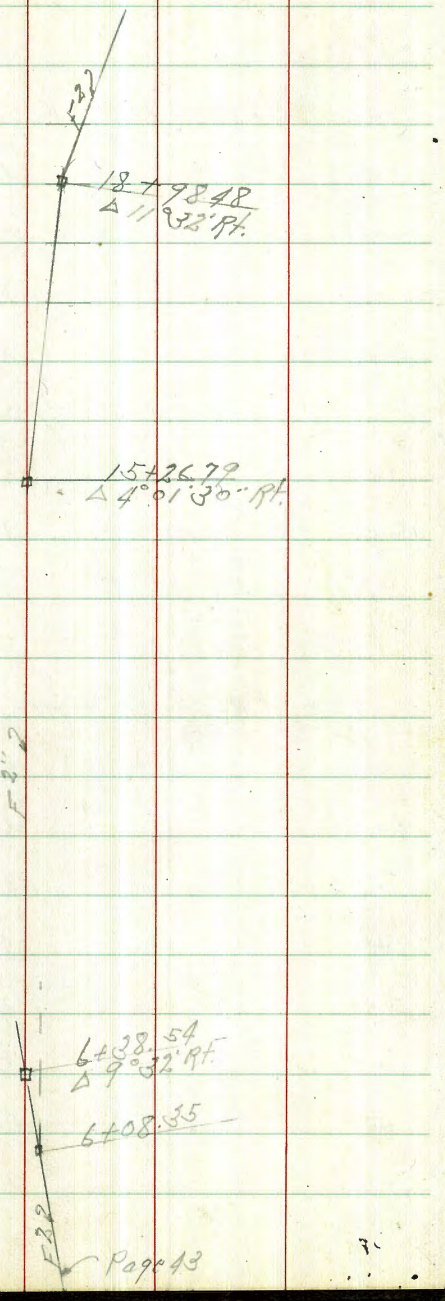


Proposed Sewer Fairmount Ave Ext
Montezuma Canyon F2 Line Cont

BM #57	8.84	(82.14)		73.28	Ch 30 ∠ W End So. Hdw Culvert W of Fairmount 9/5/47 MW
TP	9.81	(90.71)	1.22	(80.90)	
6+38.54	∠ 9°32' Rt		6.95	(83.76)	on Hub
+97	8.5 Rt of ℄ - Ely Power Pole #			79.84	
7+0			5.8	84.9	
"	15 Rt of ℄ - Toe Slope		11.8	78.9	
+50			4.8	85.9	
8+0			5.9	86.8	
+50			5.0	87.7	
9+0			2.1	88.6	
+50			1.3	89.5	
TP	9.61	(99.66)	0.66	(90.05)	
+76	7.5' Rt of ℄ - Ely Power Pole # None				
10+0			9.4	90.3	
"	15 Rt of ℄		12.2	87.5	
+50			8.6	91.1	
11+0			7.7	90.0	
+50			7.0	92.7	
12+0			5.8	93.9	
"	15' Rt of ℄		8.8	90.9	

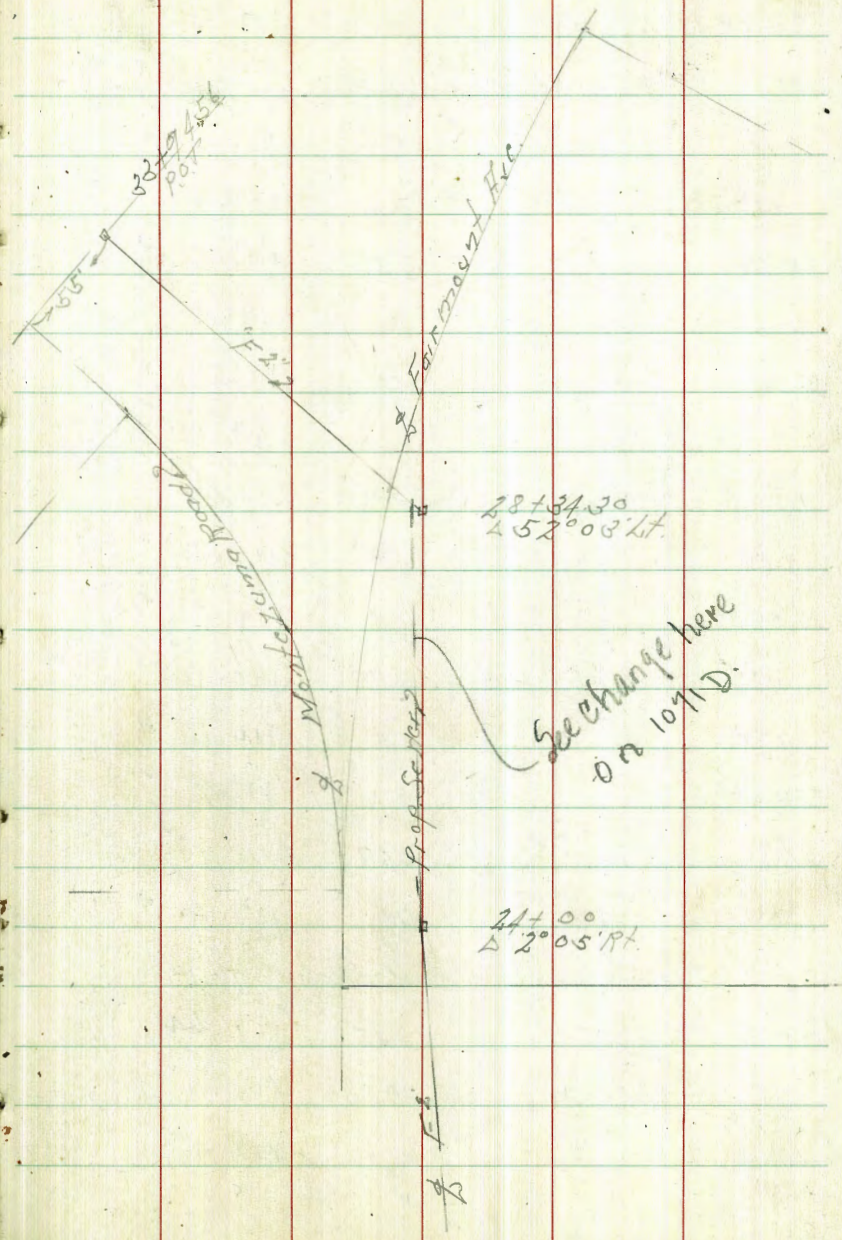
Aug 27-47
Holcomb
Simon
McCoy
Allen

W. O. 60002



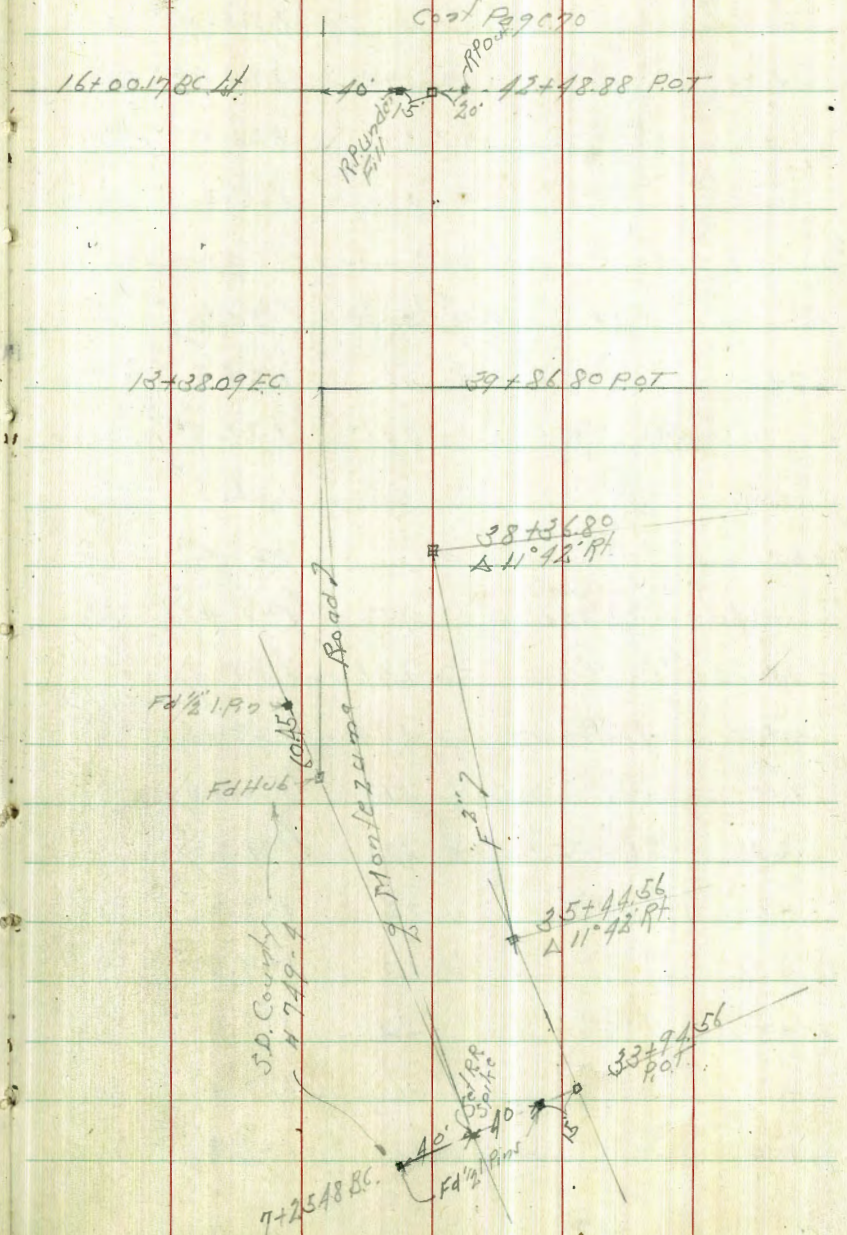
F 2"

		[99.66]		
12+50		5.1	94.6	
+56	7.2 Rt o/ ℄ = Ely Power Pole		#29986	
13+0		4.1	95.6	
+50		2.8	96.9	
+67	11.2 Rt o/ ℄ = Outlet	6.72	[92.94]	Ø Corrugated on Flow Line
14+0		1.9	97.8	
PI	8.39	[107.78]	0.27	[99.89]
+50		8.6	99.2	
15+0		7.5	100.3	
+26.79	Δ 4°01'30" Rt	6.84	[100.94]	Ø Hub
"	20 Rt o/ ℄	10.8	97.0	
+37	16 Rt o/ ℄ = Ely Power Pole # 79987			
+50		6.2	101.6	
16+0		6.0	101.8	
+50		6.3	101.5	
17+0		4.5	103.3	
+50		3.2	104.6	
18+0		2.3	105.5	
+17	68 Rt o/ ℄ = Ely Power Pole # 79988			
+50		1.3	106.5	



F 2"

		(107.78)		
18+98.48	Δ 11°32' Rt	0.58	(107.20)	on Hub
TP	980 (117.00)	0.58	(107.20)	on Hub 18+98.48
19+0		9.8	107.2	
+50		9.4	107.6	
20+0		8.5	108.5	
+50		7.1	109.9	
21+0		5.8	111.2	
"	25' Rt of ℄	18.0	99.0	Bottom Main Channel
+04	95 Rt of ℄: Ely Power Pole	# 79999		
+50		4.9	112.1	
22+0		4.4	112.6	
+37	3' Rt of ℄: Outlet	6.90	(110.10)	18" Corrugated Metal Flow Line
+50		2.4	114.6	
23+0		0.7	116.3	
TP	873 (125.06)	0.67	(116.33)	
+50		7.7	117.4	
+88	125 Rt of ℄: Ely Power Pole	# 79990		
24+0	Δ 2°05' Rt	7.42	(117.64)	on Hub
"	70 Rt of ℄	19.1	106.0	Bottom Main Channel
+50		5.7	119.4	



"F2"

	(135.06)			
25+00		5.1	120.0	
+50		3.9	121.2	
26+00		3.7	121.4	
+50		2.9	122.2	
+88	46 Rt of ℄ Ely Power Pole # 279464			
TP	11.44 (136.00)	0.50	(124.56)	
27+00		11.6	124.4	
"	5 Rt of ℄	24.5	111.5	Bottom Main Channel
+50		9.5	126.5	
28+00		8.6	127.4	
+34.30	= NWly AC Paving Δ 52°03' Lt	7.57	(128.43)	on Hub
BM #1		6.96	(129.04)	Chiseled N W Conc HW Cut Reference Point 128.99
+50	on AC Paving	6.34	(129.66)	
29+00	" " "	5.12	(130.88)	
+38	= SEly AC Paving	4.80	(131.20)	
+50	= Top Berm	2.8	133.2	
+71		6.3	129.7	
30+00		5.4	130.6	
+25		3.6	132.4	
+50		8.2	127.8	

	(136.00)			
31+00		9.0	127.0	
+50	℄ = NWly Open Sewer	8.5	127.5	
32+00	℄ " " "	7.5	128.5	
+32	℄ " " "	7.3	128.7	
+50		4.3	131.7	
TP	12.47 (146.91)	1.56	(134.44)	
+75		1.1	135.8	
33+00		10.3	136.6	
+50		7.5	139.4	
+75		6.3	140.6	
+85		3.9	143.0	
+94.56	POT	5.86	(141.05)	on Hub
34+00		6.3	140.6	
"	24 Rt of ℄	8.6	138.3	
"	27 Rt " "	13.5	133.4	Bottom Borrow Pit
+15		6.2	140.7	
+30		4.2	142.7	
+50		3.8	143.1	
+54		6.3	140.6	
+85		6.4	140.5	

03

"F 2"

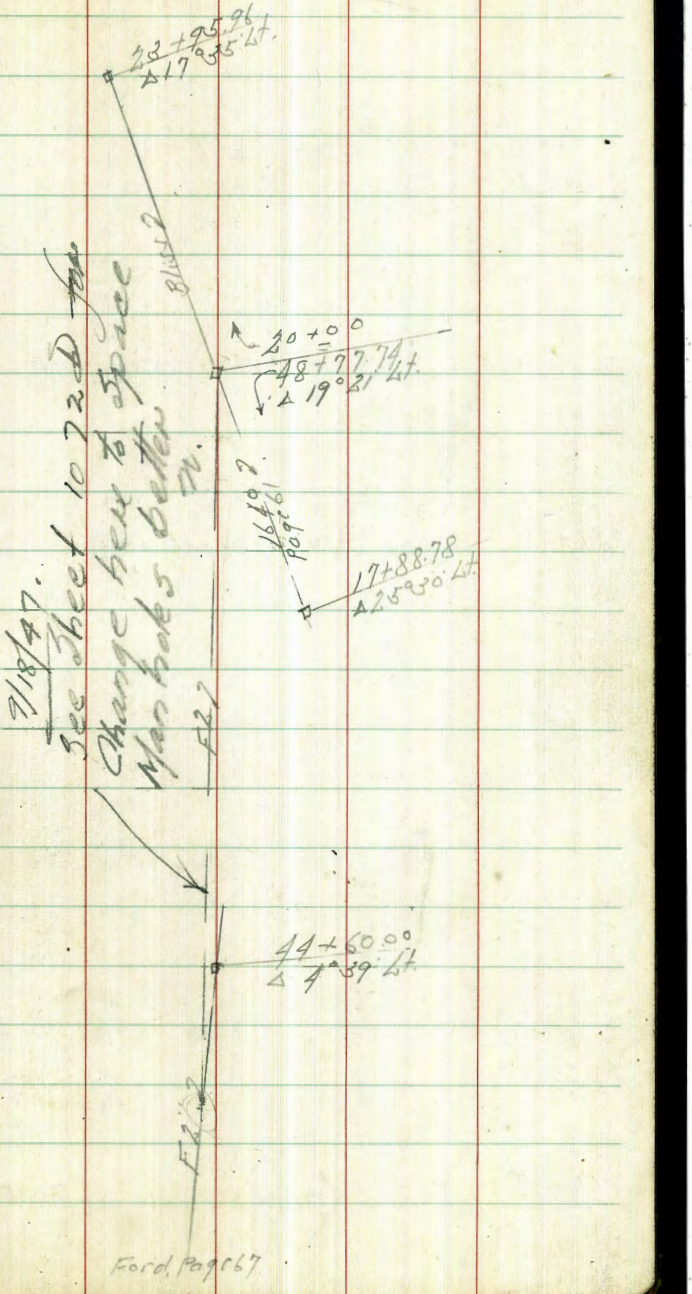
		146.91			
34+90			21	144.8	
35+0			1.6	145.3	
TP	8.80	⟨154.30⟩	1.41	⟨145.50⟩	
+25			8.2	146.1	
+31			5.2	149.1	
+44.56	Δ 11°43' Rt		5.37	⟨148.93⟩	on Hub
"	28 Rt of ℄		15.4	138.9	Bottom Corrop Rt
+50			4.9	149.4	
36+0			4.2	150.1	
+16			9.2	145.1	
+50			7.6	146.7	
37+0			5.4	148.9	
+50			5.2	149.1	
38+0			5.1	149.2	
+36.80	Δ 11°42' Rt		5.58	⟨148.71⟩	on Hub
"	30 Rt of ℄ =		5.2	149.1	
TP	12.71	⟨141.43⟩	5.58	⟨148.72⟩	on B Hub 38+36.80
+50			12.5	148.9	
39+0			11.0	150.4	
+50			9.0	152.4	
+88			6.5	154.9	

Sept. 8-47
S. Wilson
McCoy
Allen
Lamore

		⟨161.43⟩			
40+0			7.4	154.0	
+50			7.4	154.0	
+63			6.1	155.3	
41+0			5.3	156.1	
"	35 Rt		6.5	155.1	
+50			4.4	157.0	
42+0			2.3	159.1	
+50			1.3	160.1	
TP	12.78	⟨173.60⟩	0.61	⟨160.82⟩	
43+0			12.6	161.0	
+50			10.4	163.2	
44+0			9.5	164.1	
+50			7.1	166.5	
+60.00	Δ 4°39' Lt		6.56	⟨167.04⟩	on Hub
45+0			3.3	170.3	
TP	3.12	⟨176.09⟩	0.63	⟨172.97⟩	
+50			2.1	173.0	
+75			2.2	173.9	
46+0			2.8	172.3	
+50			6.1	170.0	

"F 2"

		(176.09)			
46+75			4.5	171.6	
+85			5.0	171.1	
+90			5.5	169.6	
47+0			6.5	169.6	
+50			4.1	172.0	
+70			3.3	172.8	
48+0			2.5	173.6	
+50			1.5	174.6	
TP	5.14	(179.62)	1.91	(174.18)	
+77.74	Δ 19°21' Lt		4.34	175.28	on Hub
20+00 ?					
TP	3.84	(175.86)	7.10	(172.52)	
BM			5.47	(170.39)	on E Hub 17+88.78 170.39 1640-66



Levels Proposed Sewer Mission Valley East R² Line of Ward Road. Sketch Page 42

Sept 4-47
S'SSOT
McCoy
Miller
Lamore

Lt: N — Δ — Rt: S

343+36

Lt: N		Δ		Rt: S		
60.4	61.4	60.4	56.6	56.9	58.8	68.81
15.8 / 2.5	14.8 / 1.5	15.6 / 5	19.4	19.1 / 11	17.19 / 18.8 = Hi Cal. Bottom	7.20 / 18.8 = Top Wall

343+25.4 = Δ Culvert Prod taken on Line of Culvert

			56.4	56.8	58.94	62.50
			19.8	19.3 / 15	17.07 / 23.7 = Hi Cal. on Bottom	13.51 / 142.7 = Sill Cal. on Bottom

343+25 = opp Wing Wall on Rt

56.6	54.9	56.4	64.3	70.9		
19.4 / 3.0	21.1 / 23 = Flat Bot.	19.8 = Bot. Horiz.	11.7 / 2.3 = Top Hi Wall	5.1 / 21		

343+11

54.6	54.5	54.9	63.0	70.4	70.0	
21.4 / 2.5 = Hi Wall Bottom	16.5 / 10	16.1 / 2	18.0	5.6 / 15	6.0 / 2.5	

343+0

59.3	60.0	62.4	64.8	70.4	70.0	
16.7 / 2.5	16.0 / 11	13.6 / 9	11.2	5.8 / 10	6.0 / 2.5	

342+83

66.0	69.4	69.5	69.3			
10.0 / 15	6.6 / 4	6.5	6.7 / 4.5			

			76.01			

BM = 5.51 (76.01) (70.50) on Stake 343+76.97 343+86.13 Page 43

	Lt.		Rt.	Rt.
343+76.97 Δ 45°51'30" Lt. Take 90° off Back				
	70.6	70.5	71.6	70.5
	5.4 / 25	5.5	4.4 / 14	5.5 / 25
343+67	66.3	67.4	69.8	69.7 / 72.9
	9.7 / 22	8.6 / 11	6.2	6.3 / 4.0 / 15 / 22
343+60	63.7	64.3	64.1	66.3 / 67.2 / 68.1 / 71.6
	12.8 / 22	13.7 / 17	11.9 / 10	9.7 / 8.8 / 7.9 / 4.4 / 9 / 15 / 25
343+50 - Opp Wing Wall on Rt	61.6	62.1	60.5	63.1 / 64.6 / 71.9
	14.4 / 25	13.9 / 16	15.5 / 10	12.9 / 11.6 / 4.1 / 13 / 25
				Rt. NE Cor. Wing Wall
343+46	61.8	62.0	63.1	59.4 / 58.5 / 67.0 / 71.5
	14.2 / 25	14.0 / 15	12.9	16.6 / 2 / 12.5 / 4 / 8.7 / 4.5 / 23
				Rt. NE Wall Top / Rt. Top Wall
343+43	61.0	61.0 / 62.7	63.1	63.9 / 57.0 / 57.7 / 58.95
	15.0 / 25	15.0 / 18 / 12.9 / 13	12.9 / 3	12.1 / 19.0 / 4 / 18.9 / 11 / 17.06 / 19
				Rt. NE Cor. Bottom
	76.01		76.01	

Levels Proposed Sewer Line Change Mission Valley Trunk Sta. 278+40 to 300+

B.M. #45	2.52	(56.90)	(54.38)	8P Co-axial Fill Broadway 90° ± Rt. 282+55 1626.53
185+12.86				
279+83.20		8.40	48.50	on stub
280+0		8.7	48.2	
+50		8.7	48.2	
281	= 2 Wire Cross Fence			
281+0		7.9	49.0	
+50		7.6	49.3	
282+0		7.4	49.5	
+50		6.8	50.6	
283+0		5.8	51.1	
+50		5.0	51.9	
+55	= 2 Wire Cross Fence			
+70		4.6	52.3	
284+0		5.6	51.3	
+50.04	Δ 19°53'30" Rt	6.50	(50.40)	on stub
+71		6.3	50.6	
+73		4.9	52.0	
285+0		4.9	52.0	
+50		4.4	52.5	
+72		4.1	52.8	
+78	= 3 Wire Cross Fence	6.8		

Oct. 10-47
Survey
McCoy
Allen
Job. 60002

282+58.55
Δ 41°07' Lt.

MH #52
41.97

Lot 31

6.20
Rec.

Fd. Pipe

13.25

Fd. Pipe
Wood Stake + Tack

Lot 32
Extension

289+00.92
Post

285+28

Conc.
Bldg. Under
Construction

284+50.04
Δ 19°53'30" Rt

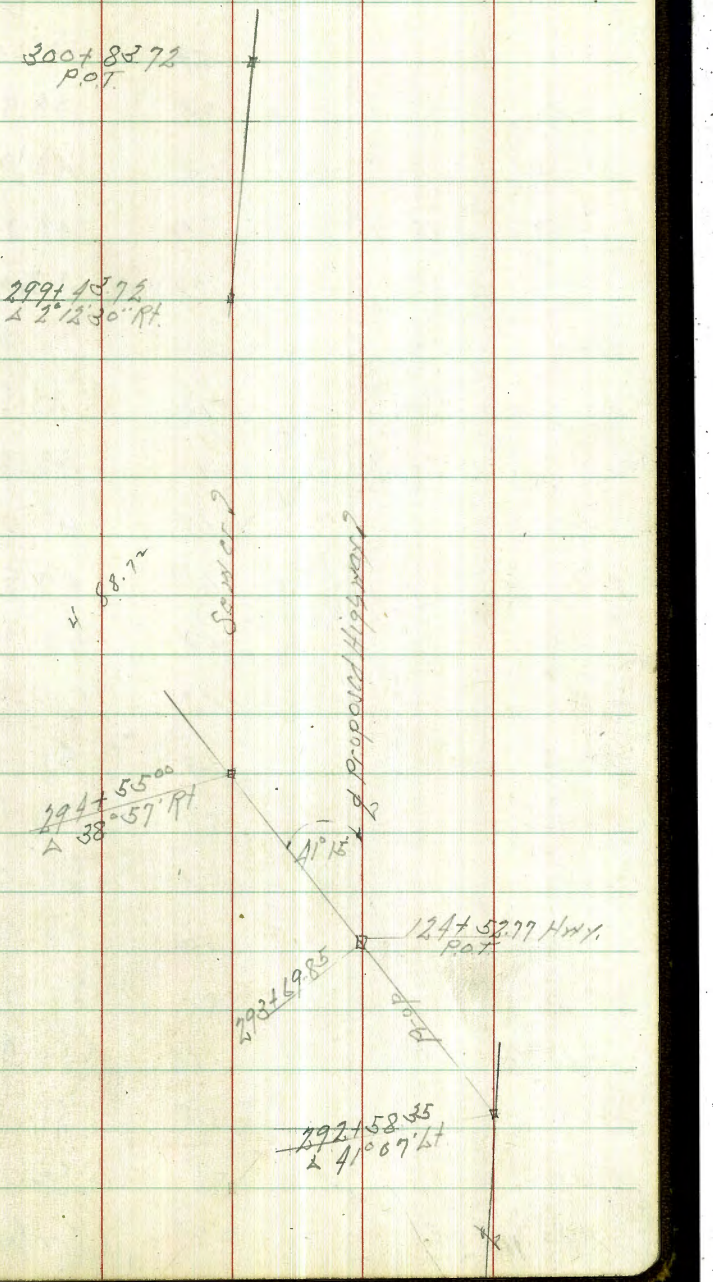
284+10

284+14.90
Fd. Pipe

Fd. Pipe

L 279+83.20 Δ 28°44'30" Lt.
= 185+42.86

		(56.90)		
285+93	= 3 Wire Cross Fence	5.9	51.0	
+95		5.1	51.8	
286+0		5.6	51.3	
+50		6.8	50.1	
287+0		7.3	49.6	
+50		7.2	49.7	
288+0		6.9	50.0	
TP	6.24	(56.27)	6.87	(50.03)
+50			6.0	50.3
289+0			3.7	52.6
+06	= Wire Cross Fence			
+50			3.6	52.7
290+0			3.2	53.1
+50			3.1	53.2
291+0			4.0	52.3
+50			4.9	51.4
County 8 MI #13			4.95	(51.32) Iron Pin 291+93 7' Rt. 57.41
292+0			5.5	50.8
+15			5.5	50.8
+58.35	Δ 41°07' Lt		3.42	52.85 o.s. Stub

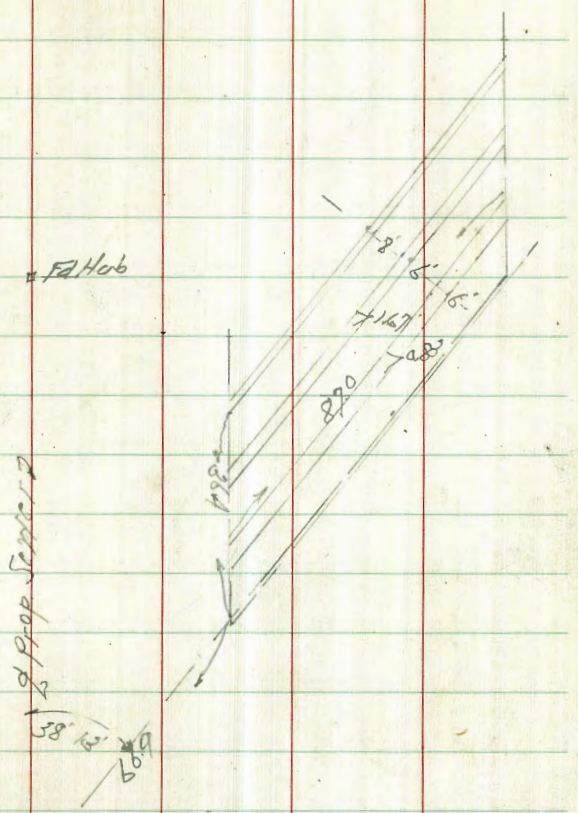


Location Conc. Culvert
Camino Del Rio West of Fairmount

	(56.27)			
293+0		5.9	50.4	
+50		7.4	48.9	
294+0		7.9	48.4	
+43.72	Δ 38°57' Rt	8.15	48.12	on Stub
"	12' Lt of ℄	12.9	43.4	
TP	7.50 (55.62)	8.15	(48.12)	on 2 Stubs 294+43.72
295+0		7.1	48.5	
"	12' Lt of ℄	11.8	43.8	
+50		6.6	49.0	
296+0		6.1	49.5	
+50		5.4	50.2	
BM		4.26	(51.36)	on old Stub 296+92.29 51.86 1626.54
297+0		4.5	51.1	
+50		5.0	50.6	
298+0		5.4	50.2	
+50		5.9	49.7	
299+0		5.4	50.2	
+43.72	Δ 2°12'30" Rt	4.68	(50.94)	on Stub
300+0		3.8	51.8	
+50		3.6	52.0	
+88.72	P.O.T.	3.08	52.54	on Stub

Hor. 12.47
Simon
Meter
Hill

368+52 ℄ Hub



357+72

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1½

For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	26.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be 41.9+(20—16)÷2 or 2 ft. added to 41.9 =43.9. For slopes of 1 on 1 see inside of front cover.