

W 751

FIELD BOOK

No. 3

1200
18700
MICROFILMED

377.54 BM

Please Return to
City of San Diego Water Dept
Room 903 Civic Center

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- No. 384 MINING TRANSIT BOOK. Left Hand Page as in this Book, Right Hand Page 8x8 to the inch, Center Line Red.
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THE FREDERICK POST CO.

ENGINEERING and DRAFTING SUPPLIES

IRVING PARK STATION

CHICAGO, ILL.

OLD WORK (1931)

1-16

TROJAN AVE PL. MAY 20-48
 REALIGNMENT VALEWAY 17-22
 TROJAN 54TH - 52ND 24-28 GRS
 REALIGNMENT TO ALTADENA 29-30
 Offset cuts - Trojan 30-42
 Offset cuts - Hodges Pl. 43-47
 City lot - Montezuma & Catocotn inc. sections 48-49

all
 maps
 10/27/41

Profile over relocation of
 Hodges pipeline 50

offset cuts of Trojan
 pipeline incl. realignment 50-58
 location of trees at Montezuma Pump House 59
 PROFILE & PIPE CATOCOTN DR 60-61

Grades. Montezuma Pump House inc. floor plan 62-63

Profile - Gr. Trojan Ph. at Sust. East - during Subdiv. Excav. 64

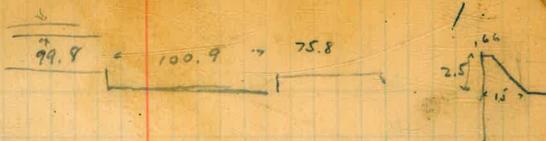
Water Distr. Ph. Wanderlin Ave 60-63 ref 68.73

Stand Pipe Foundation - Hodges Bridge 74

Hodges Ph. - Aqueduct to Bridge - Profile 75-80

Hodges 395 contour For Garbage pit 66. *align*

upper

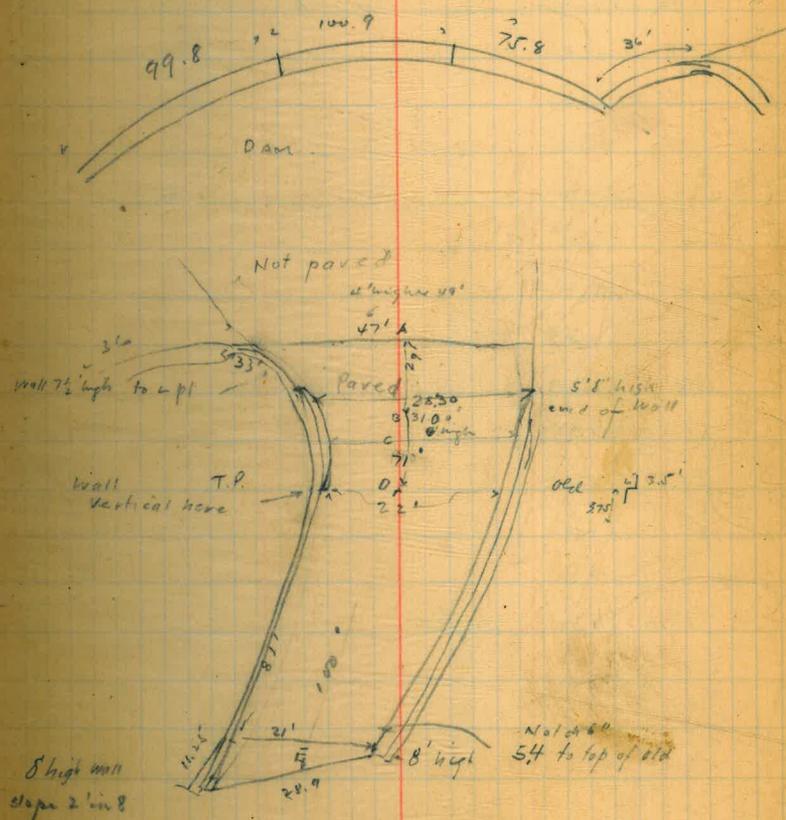


		Elev		
0	A	4.25	549.75	
29'	B	4.52	549.48	4.50
50'	21'	C		5.20 548.78
100'	50'	D	546.88	7.1 3.2
200'	100'	E	542.08	8'0"

NAME PLATE

Built by J. D. Sprockels Started 1898
 A B " Completed 1907
 E. S. Babcock Height 84'
 G. M. Bose Chf. Engr

Upper OTAY



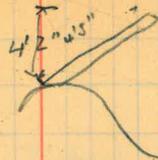
Measure
point of
Length

- 1 13.65
- 2 13.65
- 3 13.65
- 4 13.70
- 5 13.80
- 6 12.20
- 7 12.25
- 8 12.25
- 9 12.25
- 10 12.25
- 12 12.33
- 13 12.20
- ~~14 12.20~~
- 14 12.30
- 15 12.20
- 16 12.30
- 17 12.30

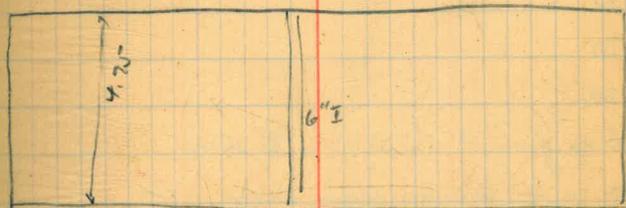
16 gals



Lower OTAY



13.65'

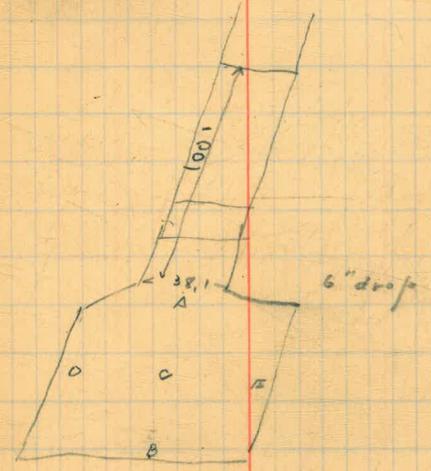


- ①
- ②
- ③
- ④
- ⑤
- ⑥
- ⑦
- ⑧

Drop from A to B = 4' drop
 C = 4" lower than sides DE

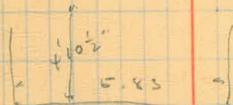
Lower OTAY

37.7
 41.0

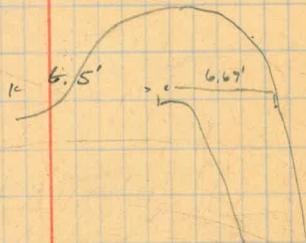


S. Diegoito

Middle



Thruout

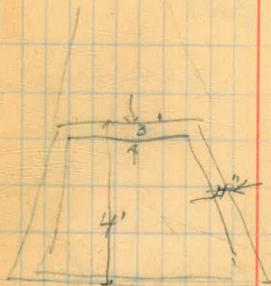


Pictum #6

Turbulence due to 2x4's at each
side of conduit about 300' below
outlet

S.D. Conduit

Supports



Trusses N'oe.

12" wide

bars close to surface

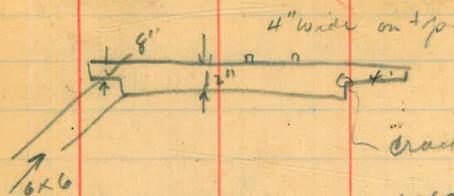
3-8

body restricted

Starting or outlet

W 16" from top gives turbulent
Eddy losses at every entrance to
well in flume
leakage at joints etc

at #3 inside in flume 14" from top
16 1/2 after existing



cracks here from fit
local joint

cross bars

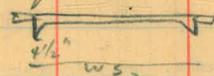


severely cracked &
deteriorating

above Point 16 after reslice 30
freeboard 10 1/4"

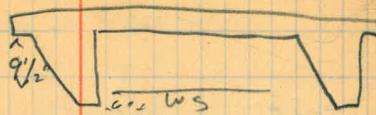
at 128+05 freeboard under bracket

4 1/2"



10" to Top of Conduit

at 128+85 WS at bottom of bracket
8" to top of conduit



Point Blk #29 178+58 169+05
WS 13 1/2 below top

60' below Blk #29. Section WS taken
showing corrosion 2" below top
of Conduit

at Point #30 Corrosion down 4" 179+00

200' down WS 21" from top
X pin 4 3/4" from top

Water 3'6" deep. Pile here

at Blk #31

192+03

3'5" depth of W

2'1" WS to top

X pin 2' down

Hodges Reservoir Dam

Notes.

1 leak in tunnel at construction joint and under spillway. Small leakage.

Most of junctions of Arch against Buttress under spillway leaking.

Worst leak at Butt #2 as shown.

Only minor leaks in arches not under spillway.

Spillway

15' over spillway. Platforms serve well except closest to streambed where water shoots over platforms built in 1928.

Wood stave outlet pipe subjected to severe treatment of falling water.

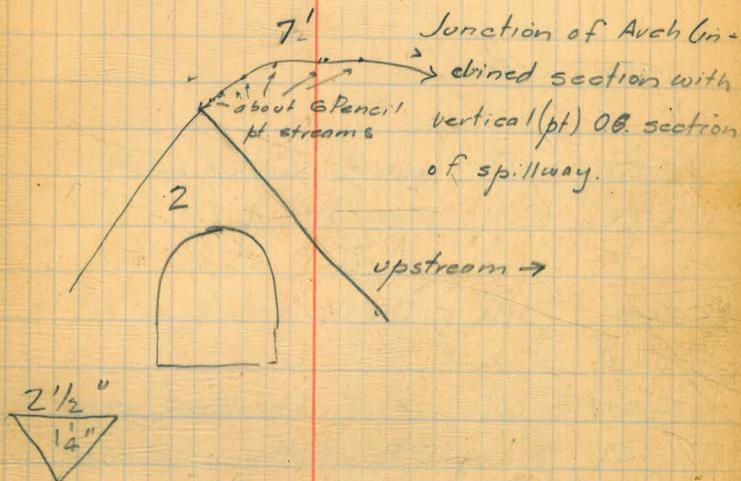
No vibration under spillway.

Divide wall in spillway serving purpose

Feb. 10, 1932

P.B. 8
J.C.

Hodges Reservoir Dam Leak above Buttress No 2.



$$Q = 2.64 \cdot (.1)^{5/2} + 7.5 \cdot 60 \text{ gal/min.}$$

$$= 2.64 \cdot (.01) \cdot (.316) + 7.5 \cdot 60 = 37.5 \text{ gal/min.}$$

say 60 gal/minute. for both sides.

Note. Leak issues at construction joint for a distance about 7 ft. each side of buttress. Most of water from south arch.

Sept. 18, 1931. P.F.

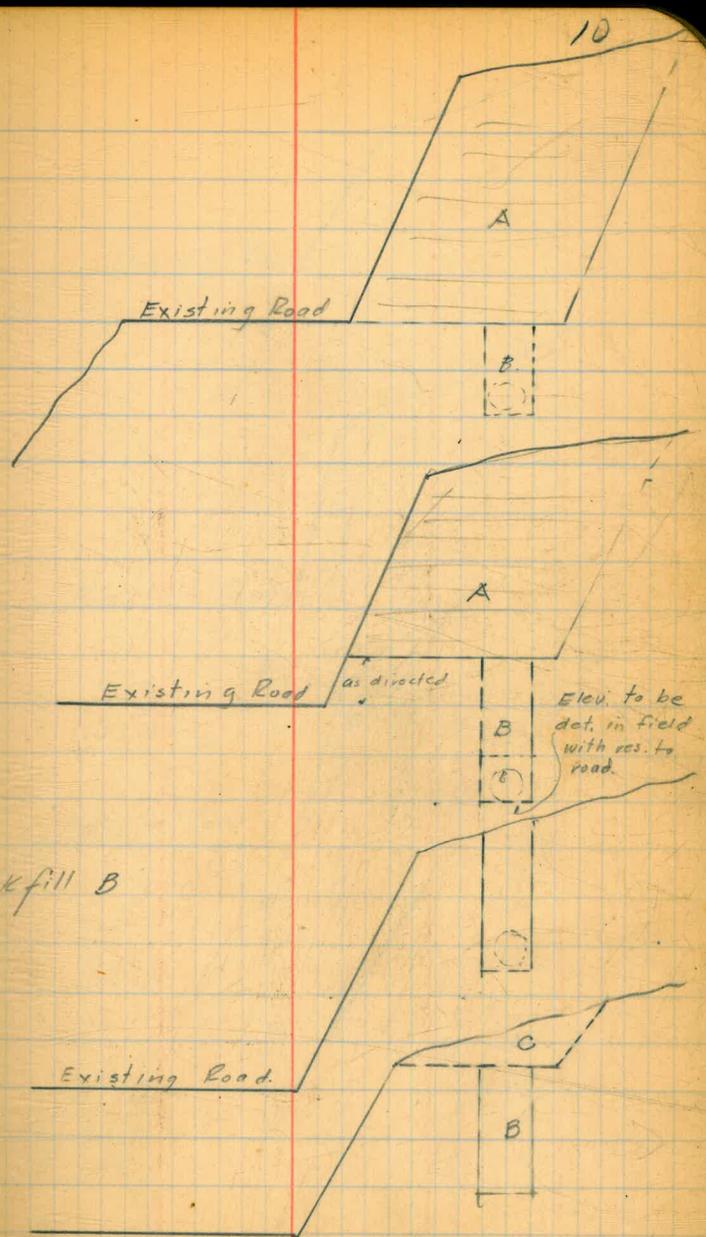
9

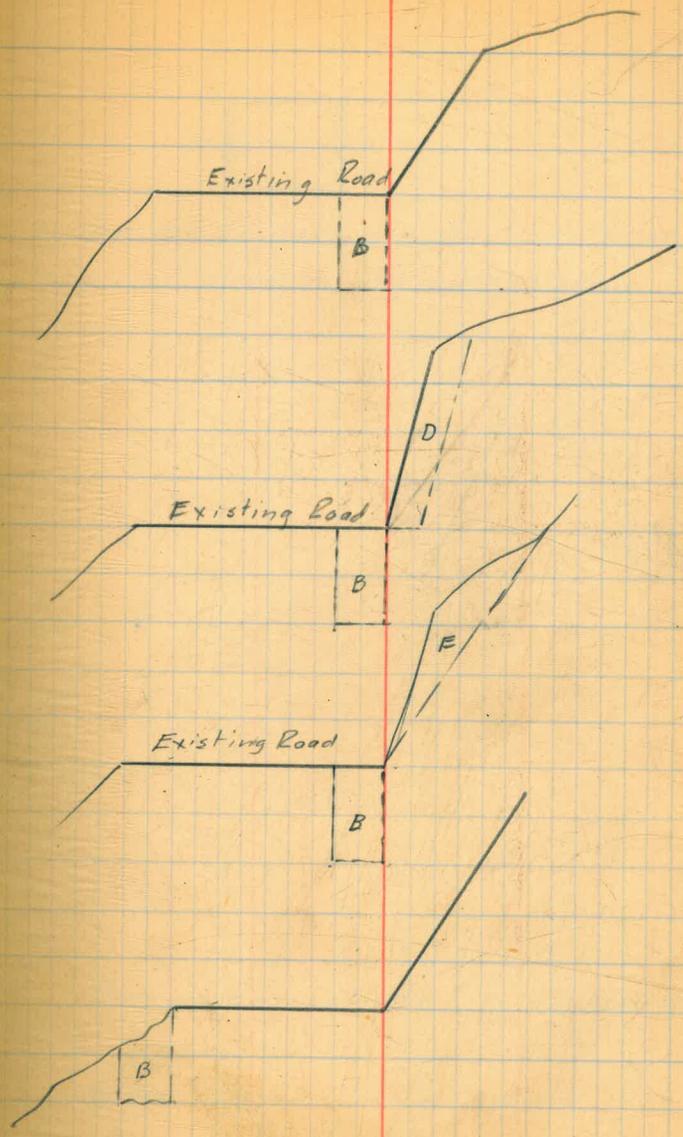
EL CAPITAN LAKE- SIDE PIPELINE

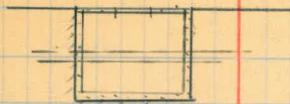
Sheet 10 of Digs

- | | | | |
|--------------------|---|---|------------------------|
| 26+00 | ① | High point Ground Elev. 596 | Hydraulic Grade = same |
| 41+33 | ② | Trestle | |
| 69+50 | ③ | " | |
| 85+93 }
92+00 } | ③ | Leaves R of W a little and
Trestle | comes back about 92+00 |
| 112+00 | ④ | Cape Horn - Leaves R of W. | |
| 133+50 | ⑤ | Start Relocation across Grain f. eld. El Monte Park
P.L. Crosses Highway | |
| 173+45 | ⑥ | P.L. Back onto Co. R of W | |
| 225+00 | ⑧ | Road & P.L. off R of W | |
| 240-245 | ⑨ | " " " " | |
| 258+00 | ⑨ | P.L. Crosses to South side | |
| 270-305 | ⑩ | Could go further south? | |

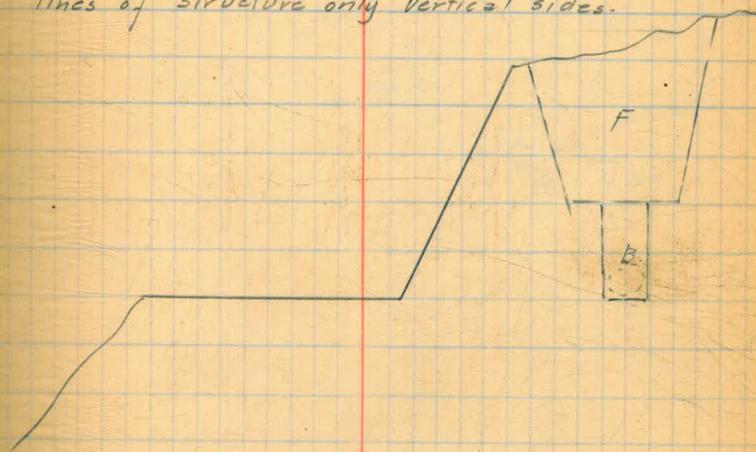
- 315+00 (11) P.L. crosses to North side
- 375+00 (13) " " back to South side
- 417+00 (14) Leaves Road
- 429+50 (15) Connects with existing Line







for chambers and Anchors to neat
lines of structure only vertical sides.



Bell holes included? or use regular
section

Where wasted, when off Ref W?

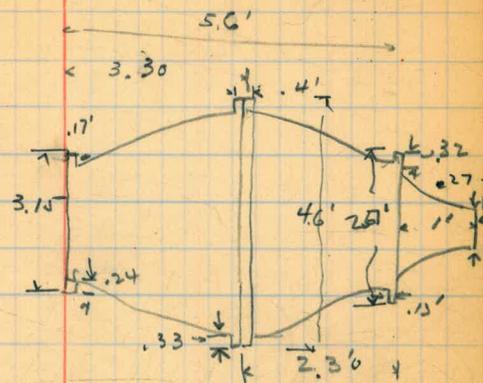
Payment for Backfill included in unit bid
price for trench and structure excavation

No backfill for General Excavation

Brushing out etc?

24" Needle Valves

27816 30x24



Torey Pines 2/15/33 14
 Readings above upper check valve

0	130	shut down	
1 st pump on	147		
	122		
	131		
1 st pump on	130		
0	150		
	131		
	130		
	131		
0 2 nd pump on	142		
	130		
	131		
2 nd pump off	131		
0	115		
	140		
	126		
	131		
1 st pump on	131	131	118
correct gauge	108	108	145
	150	158	
	118	115	
		150	
		115	
		150	

131
 108
 155
 115
 150
 115
 150
 118.
 1
 144
 122
 144
 140
 125
 138
 125
 138
 1
 127

Torey Pines Pumping Sta
 Pressure at upper Check Valve
 on Discharge side.

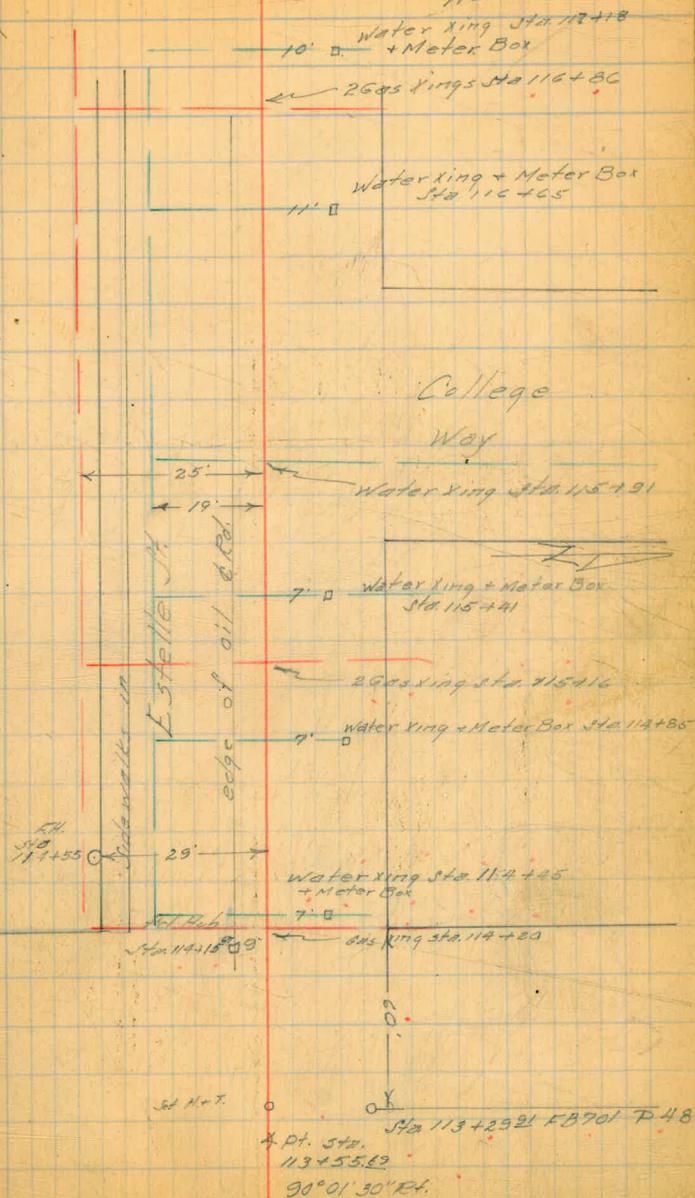
3/15/33 72
 15
 P. Beermann
 R.C. Wueste

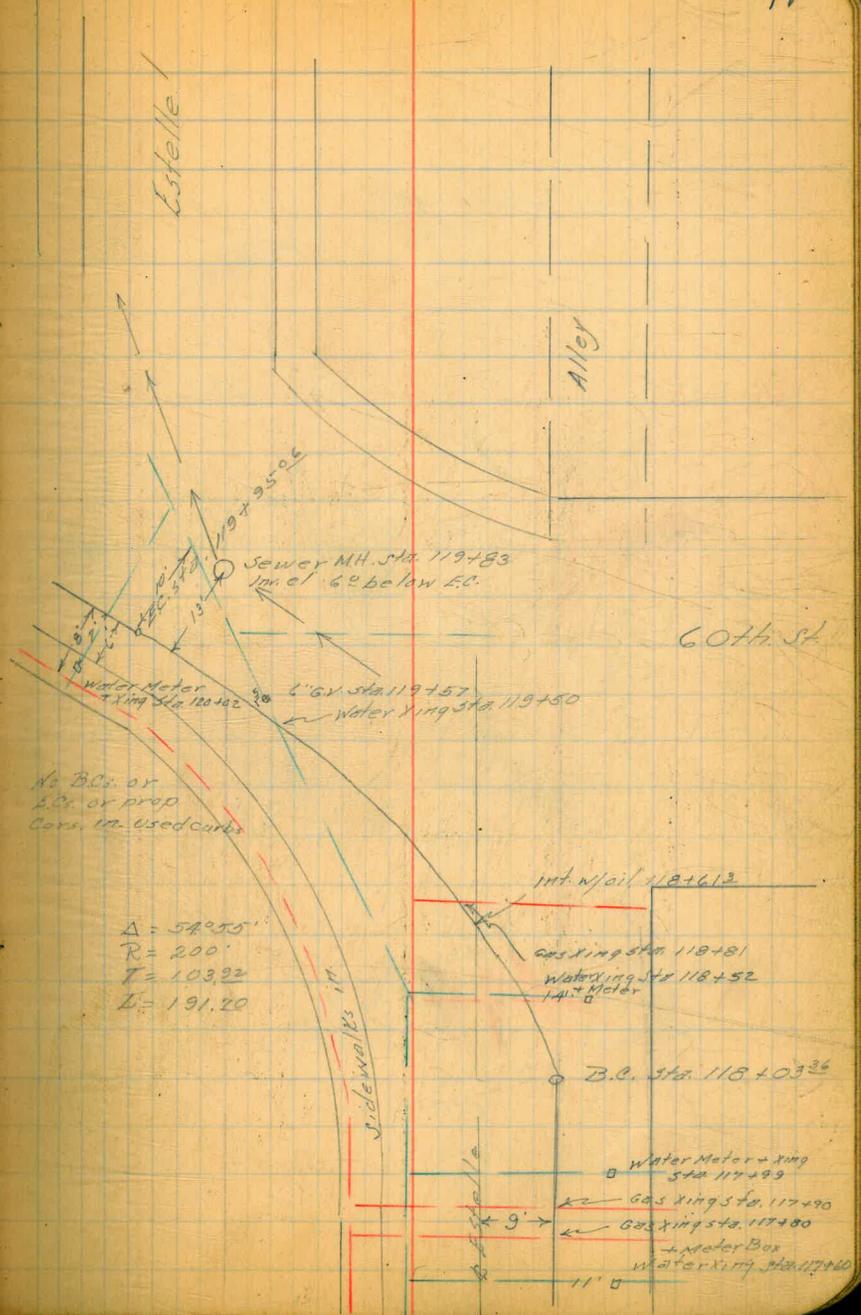
	#/s"	Eloped Time Sec
Pumps off static.	<u>130</u>	
Pump #3 turned on	150	0
	131	1.5
	<u>130</u>	3
Pump #1 turned on	148	0
	130	1
	<u>131</u>	3.5
Pump #1 off	115	0
	140	1
	126	3
	<u>131</u>	5.5
Pump #3 off	108	0
	155	1.5
	115	3
	150	4
	115	5.5
	150	6
	118	7
not possible to get remainder.	}	

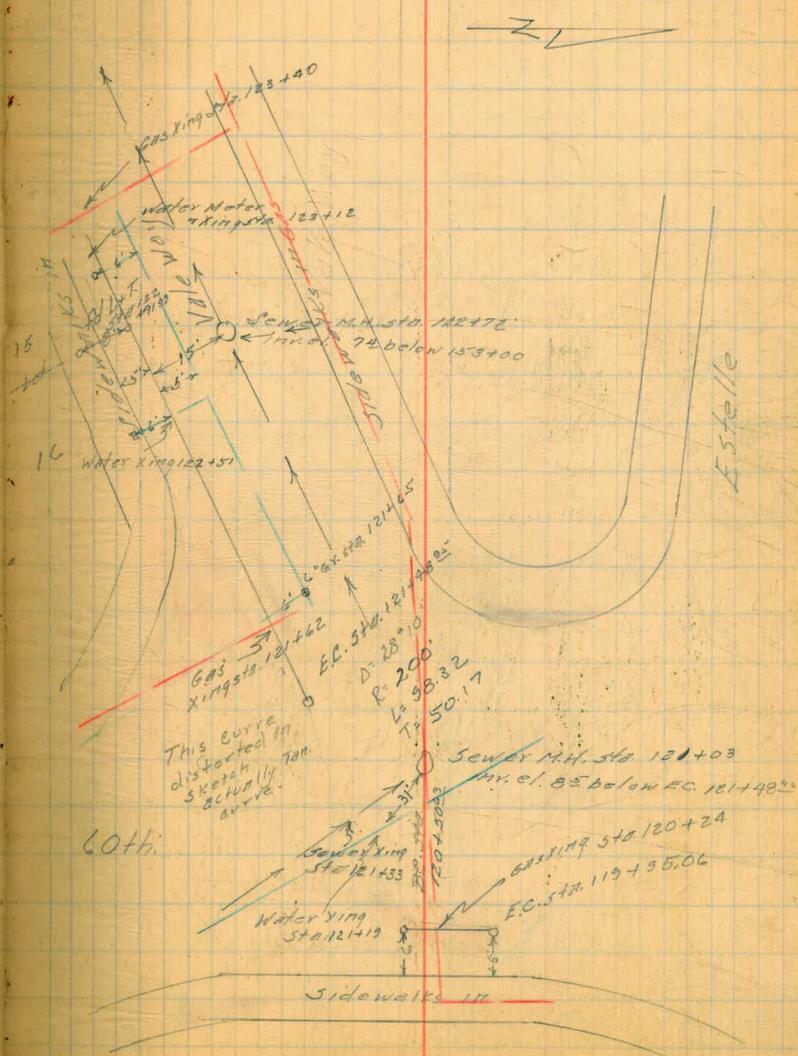
May 20
1948

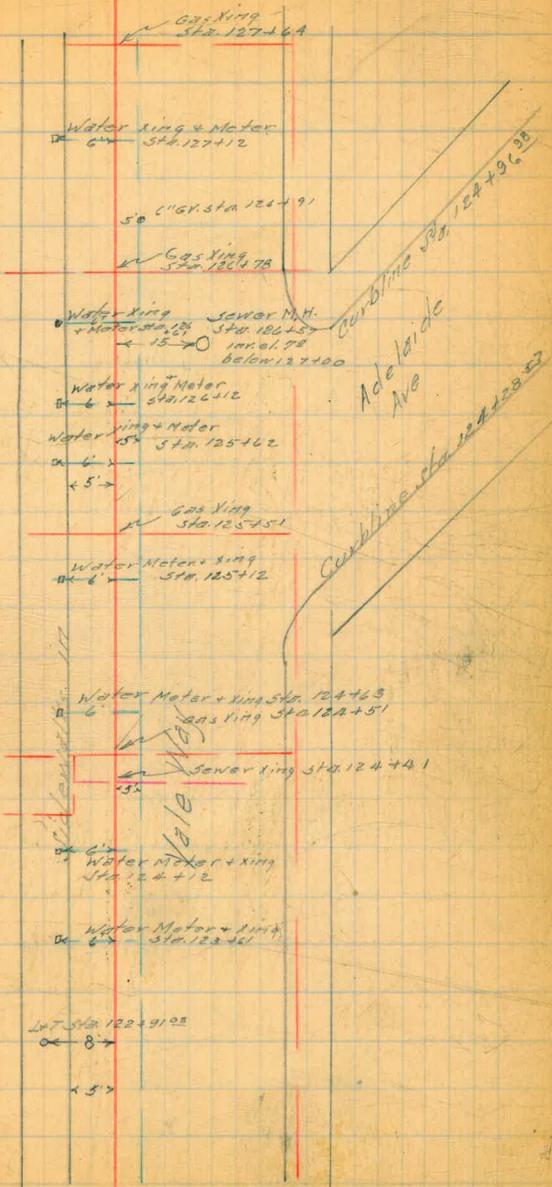
Ramer
King
Baker
West

17









Meade
Ave

Sewer M.H. Sta. 131+34
+ 17' - 0" inv. el. 8' below apt. 130+982

3 pt. Sta. 130+982
+ 3'
Water King + Meter
Sta. 131+27
Water King + Meter
Sta. 130+77
6"

1
bot
2
Water King + Meter
Sta. 129+5120
6"

+ 5'
Water King + Meter
Sta. 130+12
6"

Gas King Sta. 129+915

+ 5'
Water King + Meter
Sta. 129+61
6"

Sewer M.H.
Sta. 129+48
inv. el. 7' 8"
below 130+00
Gas King
Sta. 129+48

+ 5'
Water King + Meter
Sta. 129+11
6"

Water King + Meter
Sta. 128+61
6"

Gas King Sta. 128+35

Water King + Meter
Sta. 128+12
6"



Sewer M.H.
20' Rt. of Sta. 137+85
Inv. of 81.84 below 140+00

Sewer M.H.
20' Rt. of Sta. 143+56
Inv. of 63 below Sta. 143+27.9

Sewer King Sta. 143+84

temp. end
2 Pt. Sta. 136+62.00

Sewer M.H. Sta. 136+33.38

58th St.

2 Pt. Sta. 135+06.34
10°30' Lt.

Sewer M.H. Sta. 134+10
Inv. of 45 below 134+00

edge oil Sta. 132+19.2

2 Pt. Sta. 131+98.24
4°30' Lt.

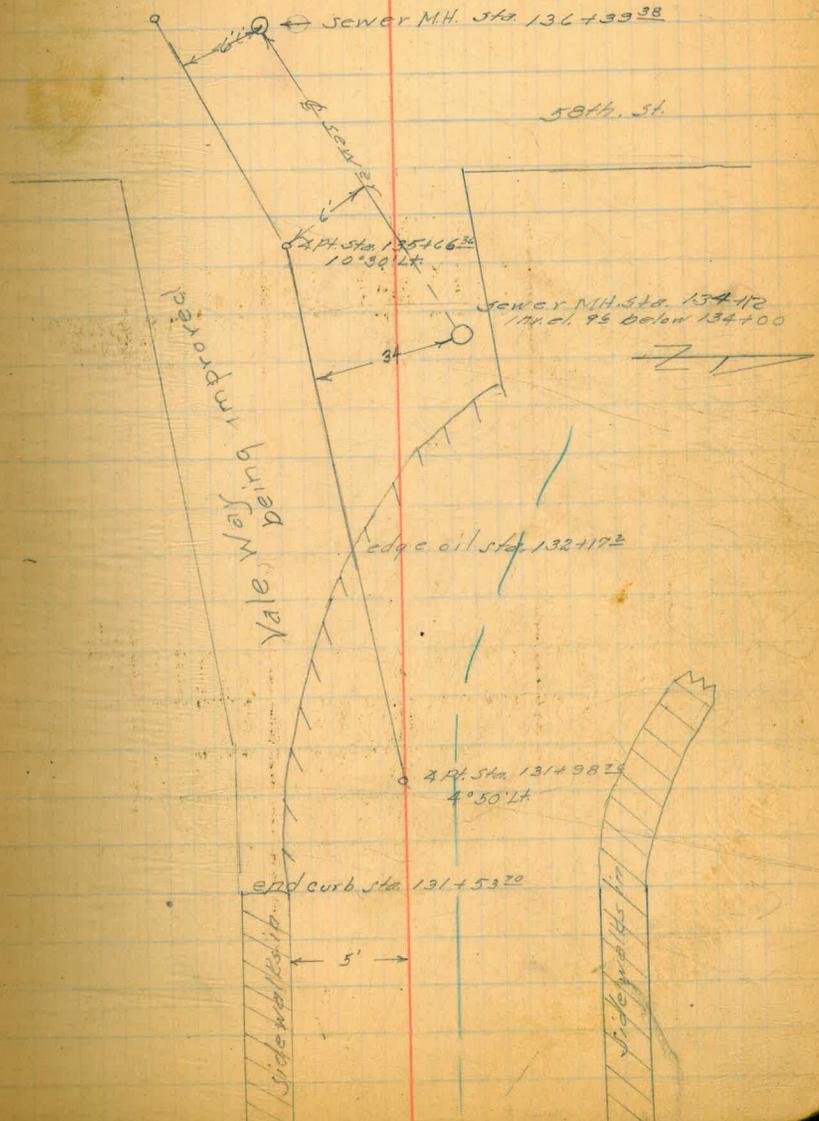
end curb Sta. 131+53.20

sidewalk strip

sidewalk strip

Proposed building being improved

5'



2" I.P. Sta. 162+20.2 x pt.
15' →

4" 6" x
P.P. Sta. 161+71

Trojan



May 13, 1946 Rainey

King

Baker

West

26.

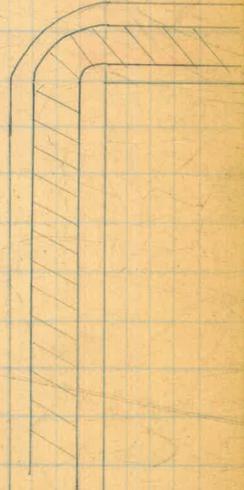
#496902H
RR Sta. 165413



53rd St.

#440681H
RR Sta. 164467
on line

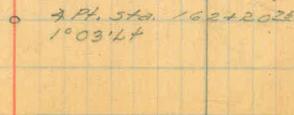
Sta. 164460
2 1/2" Guard rail
Sta. 164436



#P5933
RR Sta. 163421
C.P.

to J. O. P.

RR Sta. 162402E
1° 03' 44"



27.

Dawson

DM

03-8-0 PPSta. 168+41
#44079 H

St.

03

PPSta. 166+74
#440680 H

Sta. 166+07
8' pepper tree

02

Trojan



58nd St.

Hubert

OK 10' →

Sta. 171+32.85

$$\begin{array}{r} 181+02.9 \\ 171+32.85 \\ \hline 9 \quad 69.66 \end{array}$$

Sta. 170+18

← 11' → RR Sta. 170+00

Trojan

2 x 2 Hub

$2^{\circ} 51'$ Sta. 184+08
 $8'$ $170^{\circ} 45'$ Sta. 184+08.00
 $0^{\circ} 03'$ Rt.

3' 183+90

May 24, 1902 Rainey
 King
 Baker
 West

9' 183+00

end of water 182+70 ±

15' 0" DM. Sta. 182+53

15' 0" RR Sta. 182+30

15' 0" RR Sta. 181+34

← 10' 0" 181+28.50

22° 30' Lt.

$7^{\circ} 44'$ Sta. 23° 16' Rt.
 181+02.50

set line pt.

30

Hub + T r. off prop line

Altadena

Hub + existing line
Sta 187+42.83 = 187+44.45 AH

3 Ft. Sta 187+42.82
9000'

← 14' →
Hub + T r. off prop

Trojan Ave

14' P.S. 075
T.P.S. 186+05
Ø 35

← 15' → 186+00

← 14' → 185+00

Trojan Ave for Const.

Aug. 25-26
1948Rainey
King
West
Adams

31

BM. L+T @ 5444 + Trojan

351.67

10.50 362.17

157+22 ⁹ AH.	11.1	351.1	340.3	10.8
157+22 ² BC.	11.2	351.0	340.3	10.7
157+00	5.4	353.8	340.5	19.3
156+50	1.5	360.7	341.8	18.9
156+00	3.9	358.3	343.0	15.3
155+91 ³⁵ E.C.	4.3	357.9	343.3	14.6
155+59 ⁵⁰	5.1	357.1	344.3	12.8
155+43 ²	5.3	356.9	344.8	12.1
153+11 ³³	4.9	357.3	345.9	11.4
154+96 ¹⁴	4.5	357.7	346.3	11.4
154+64 ³⁶	4.3	357.9	347.5	10.4
154+48 ⁵⁸	3.7	358.5	348.0	10.5
154+00	3.7	358.5	348.0	10.5
153+50	4.5	357.7	348.0	9.7
153+00	5.3	356.9	348.0	8.9
152+50	6.4	355.7	348.0	7.7
152+24 ⁷²	6.2	356.0	348.0	8.0
152+08	5.6	356.7	348.2	8.5
151+92 ⁵²	4.3	357.9	348.7	9.2
151+76 ⁵³	3.2	359.0	349.4	9.6
151+50 T.P.	0.58	361.89	351.0	10.6
T.P. ⁷¹ 12.47		374.06		

374.06

151+00		7.3	366.8	354.0	12.8
150+64 ⁸⁶		5.6	368.5	356.1	12.4
150+32 ⁶²		5.9	368.2	357.4	10.8
150+00		6.0	368.1	358.0	10.1
149+52 ^{43 E.C.}		5.6	368.5	358.9	9.6
149+36 ⁵¹		5.1	369.0	359.3	9.7
149+20 ²⁸		4.8	369.3	359.8	9.7
149+04 ⁹⁵		4.6	369.5	360.0	9.5
148+89 ⁶³		4.31	369.75	360.4	9.4
CK 40 6		4.2	369.9		

cuts

B.M. L.V. 25 ⁴⁴	11.32			351.67	
	11.32	362.99			
T.P. #1	1.20	373.91	0.28	362.71	
148+89 ³³			3.7	370.2	360.4
E.C. 148+91 ⁵²			3.3	370.6	360.8
148+73 ²⁶			3.1	370.8	360.8
148+57 ³⁶			2.7	371.2	361.4
148+41 ⁵⁴			2.3	371.6	361.6
B.C. 147+94 ⁰²			1.9	372.0	362.6
147+50			1.0	372.9	363.8
T.P. #2	8.86	382.37	0.40	373.51	3
147+00			7.4	375.0	365.0
146+50			5.3	377.1	366.2

cuts

B.M. 548 Trajan

351.67

0.80 352.47

158+00	0.5	352.0	340.2	11.8
+50	1.5	351.0	340.0	11.0
159	3.3	349.2	338.2	11.0
+50	5.2	347.3	336.4	10.9
160	7.0	345.5	334.6	10.9
+50	8.9	343.6	332.8	10.8
161	10.6	341.9	331.0	10.9
+50	12.3	340.2	330.1	10.1

T.P 3.74 343.39 12.82 339.65

162	4.6	338.8	329.3	9.5
162+18 ⁸	5.0	338.4	329.0	9.4
162+34 ¹³	5.1	338.3	328.7	9.6
162+66 ¹³	6.3	338.1	328.2	8.9
162+98 ⁸	9.1	334.3	327.7	6.6
163+139 ⁹	12.8	330.6	327.4	3.2
172+999 ⁹	12.8	331.1	327.0	4.1
KK to 173+50	13.9	330.		

351.67

6.24 357.91

157450	6.7	351.2	340.9	10.9
15742624	6.8	351.1	340.4	10.7
15741948	7.0	350.9	340.4	10.5
157400	2.3	355.6	340.5	15.1
156450	3.1	354.8	341.7	13.1

382.37

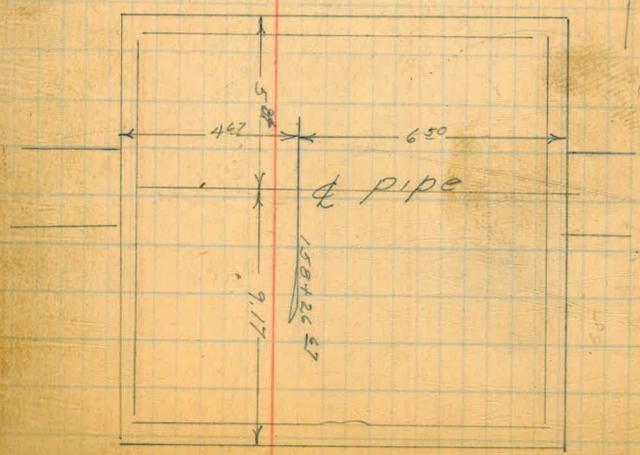
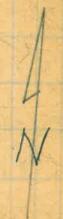
146+18 ¹⁴	4.3	378.1	367.0	11.1
146+00	3.9	378.8	367.2	11.3
145+50	3.1	379.3	367.4	11.9
145+22 ¹⁴	3.9	378.5	367.4	11.0
145+00	5.1	377.3	367.2	10.1
144+74 ¹⁵	4.3	378.1	366.20	11.9
144+50	5.4	377.0	365.0	12.0
144+00	8.4	374.0	362.8	11.2
143+46 ²⁵	8.1	374.3	360.4	13.9 at of M.H.
143+22 ²⁵	9.8	372.6	360.4	12.2 Void
ch point	8.06	374.38		

Top of M.H. at chisel X's -

B.M. 4.47 356.14 351.67

Top of pipe 10.34 345.80

S.S.W.	4.49	351.65	338.31	13.34
W.S.W.	4.74	351.40	338.31	13.09
W.N.W.	4.58	351.56	338.31	13.25
N.N.W.	3.74	352.40	338.31	14.09
N.N.E.	3.84	352.30	338.31	13.99
E.N.E.	3.80	352.34	338.31	14.03
S.S.E.	4.32	351.82	338.31	13.51
E.S.E.	4.30	351.84	338.31	13.53



T.B.M.	9.06	383.37		374.31	
143+22 ²⁵			10.4	373.0	360.4
142+90 ³²			9.8	373.6	362.5
142+75 ³⁸			8.2	375.2	363.4
142+27 ⁴⁴			5.5	377.9	365.5
142			3.3	380.1	366.0
+50			2.3	381.1	367.0
141			1.8	381.6	368.0
+50			0.4	383.0	369.0

T.P.	12.27	395.00	0.64	382.73	
140			10.7	384.3	370.0
+50			12.9	382.1	371.2
139			12.4	382.6	372.4
+50			11.7	383.3	373.6
138			10.8	384.2	374.8
+50			9.5	385.5	376.0
137			8.2	386.8	377.2
136+67 ⁵²			7.2	387.8	378.1

T.B.M. 6.80 388.20

378.5
377.2
1.3

388.20

12.53 400.73

136+57 ²⁸	8.8	391.9	377.5	14.4
136+35 ²¹	8.1	392.6	377.9	14.7
135+94 ¹⁰	8.0	392.7	380.0	12.7
135+77 ^{33 AH}	8.0	392.7	381.0	11.7
135+61 ²⁶	7.0	393.7	381.9	11.8
135+50	7.2	393.5	382.5	11.0
135+00	6.0	394.7	383.3	11.4
134+55	4.2	396.5	383.9	12.6
134+00	4.3	396.4	384.0	12.4
133+50	3.5	397.2	384.0	13.2
133+00	3.7	397.0	384.7	12.3
132+50	3.8	396.9	385.4	11.5
132+25	3.6	397.1	385.8	11.3
132+00	3.3	397.4	386.2	11.2
131+75 ^{22 APT.}	2.6	398.1	386.7	11.4
T.P.	2.45	398.28		
131+50	9.0	398.4	387.2	11.2
131+00	8.0	399.4	388.1	11.3
130+50	7.0	400.4	389.0	11.4
130+00	6.0	401.4	389.8	11.6
129+50	5.1	402.3	390.6	11.7
129+00	4.1	403.3	391.4	11.9

Dropped to give clearance under 8" sewer

397.2

401.6
11.2
390.4

9.07 402.35

400.4

407.35

128+50			3.1	404.3	392.2	12.1
T.B.M.			3.12	404.23		on curb 128+50
128+25	11.50	415.73		404.7	392.6	12.1
128			10.5	405.2	393.3	11.9
+50			9.6	406.1	394.7	11.4
127			8.6	407.1	395.6	11.5
+50			7.6	408.1	396.4	11.7
126			6.6	409.1	397.3	11.8
+50			5.6	410.1	398.1	12.0
125			4.6	411.1	399.0	12.1
+50			3.5	412.2	400.2	12.0
124			2.6	413.1	401.4	11.7
+50			1.7	414.0	402.5	11.5
123			0.7	415.0	403.7	11.3
T.P.	8.20	423.25	0.68	415.05		
122+50			7.1	416.2	404.9	11.3
122+30			6.1	417.2	405.4	11.8
122			5.9	418.4	405.4	12.0
121+48 ⁶⁵			4.2	419.1	405.4	13.7
+32 ⁷⁵			4.2	419.1	405.4	13.7
+16 ⁹⁴			4.1	419.2	405.4	13.8
121+01.4 ²			4.2	419.1	405.4	13.2
120+85 ³²			4.4	418.9	406.5	12.4

	423.25				
120+69 ⁵²		4.0	419.3	407.1	12.2
120+53 ⁷²		4.1	419.2	407.8	11.4
120+37 ⁸⁷		4.2	419.1	408.12	11.0
119+89 ⁸⁶		4.0	419.3	408.6	10.7
T.P.	5.36	424.86	3.75	419.50	
119+74 ⁰¹		5.3	419.6	408.7	10.9
119+58 ²⁰		5.0	419.9	408.9	11.0
119+42 ³⁹		4.8	420.1	409.0	11.1
119+26 ⁵⁸		4.6	420.3	409.2	11.1
119+10 ⁷⁷		4.8	420.1	409.4	10.7
118+94 ⁹⁶		4.6	420.3	409.6	10.7
118+79 ¹⁵		4.2	420.7	409.7	11.0
118+63 ⁸⁴		3.9	421.0	409.9	11.1
118+47 ⁶³		3.5	421.4	410.0	11.4
118+31 ⁷²		3.3	421.6	410.3	11.3
118+16 ⁹¹		3.1	421.8	410.6	11.2
118+00 ¹¹		2.8	422.1	410.9	11.2
T.P.		6.00	418.86	418.23	Top M. H. 13 R + 119+85
	11.77	430.60			
117+50		7.6	423.0	412.0	11.0
117+00		6.4	424.2	413.0	11.2

cuts

Oct. 7, 1948

Ramsay 40
Lang
Baker
Watts
Rogers

430.60

116+50		4.2	426.4	414.0	12.4
116+08 ²⁰		1.7	408.9	414.86	14.0
115792 ²²		0.8	429.8	415.57	14.2
TR		0.65	429.8		

11.13 441.08

115+50		8.7	432.4	418.7	13.7
115+00		6.1	435.0	422.4	12.6
114+80 ²³		5.1	435.0	423.8	11.2
114+64 ²⁵		4.1	437.0	424.7	12.3
114+48 ²⁷		3.0	438.1	425.6	12.5
114+32 ²⁸		1.2	339.9	426.2	13.7

Cl. to F.H. SW. Cor. Estelle 0.56 440.52

16.51 451.03

113+55 ²⁹		5.5	455	428.0	17.5
113+55 ³⁰		5.5	455	428.0	17.5
113+40 ³¹		6.9	44.1	428.0	16.1
113+00		9.5	41.5	428.0	13.6
112+50		13.0	38.0	428.0	10.0
112+00		15.2	35.8	428.0	7.8
111+50		11.2	39.8	428.0	11.8
111+00		8.4	42.6	428.0	14.6
110+50		6.3	44.7	428.0	16.7
110		5.0	46.0	428.0	18.0

11.68 458.91

T.P.		3.80	447.23	428.0	
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21.97
8.928
12.97

42 801.21

	458.91					
109+568		12.1	468	428.0	18.8	
109+40		11.7	472	428.0	19.2	
109		8.7	50.2	428.0	22.2	
108+50		5.5	53.4	431.5	21.9	
108+00		3.1	55.8	435.0	20.8	
107+50		1.5	57.9	438.5	18.9	
T.P.	8.86	4.17%	0.31	458.60		
107+00		8.6	58.9	442.0	16.9	
106+50		7.2	60.3	445.5	14.8	
106+00		6.5	61.6	448.0	13.6	13.0
105+3276		5.2	61.3	451.3	10.0	
105+50		5.8	61.7	452.5	11.2	
105+00		5.1	62.4	452.5	9.9	
104+80		5.0	62.5	452.8	9.7	
104+68		4.8	62.7	453.0	9.7	
104+57.50		4.7	62.8	453.0	9.8	
104+50		4.6	62.9	453.0	9.9	
104+00		4.0	63.5	453.0	10.5	
103+50		3.6	63.9	453.2	10.7	
103+29.50		3.5	64.0	453.3	10.7	
103+25		3.6	63.9	453.4	10.5	
103+00		3.7	63.8	453.5	10.3	
102+75		3.4	64.1	453.6	10.5	

cdts

41

102+50	3.1	64.4	4538	10.6
102+25	2.9	64.6	4539	10.7
102+00	2.9	64.0	4541	10.5
B.C. 101+74 ^{4E}	2.6	64.9	4542	10.7

2.64	46482	B.C. DN 9/10/14
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cuts

42

Profile & Cuts - Over 8' offsets
30" P.L. Hodges - Along Co. Rd.

10-15-48

Rainey
King
Baker
Harris
Rogers

43

	6.33	427.26		420.93		
15+26 ⁸⁹			6.2	21.1	316.2	4.9
15+30 ⁸⁹			6.2	21.1	316.2	4.9
+7.4 ⁸⁹			6.0	21.3	316.2	5.1
+8.6 ⁸⁹			5.9	21.4	316.2	5.2
+7.8 ⁸⁹			5.9	21.4	316.2	5.2
16+22 ⁸⁹			5.8	21.5	316.3	5.2
16+46 ⁸⁹			5.7	21.6	316.4	5.2
16+58 ⁸⁹			5.6	21.7	316.5	5.2
16+82 ⁸⁹			5.4	21.9	316.6	5.3
17+06 ⁸⁹			5.1	22.2	316.9	5.3
17+18 ⁸⁹			4.9	22.4	317.1	5.3
17+30 ⁸⁹			4.7	22.6	317.3	5.3
17+54 ⁸⁹			4.4	22.9	317.7	5.2
17+78 ⁸⁹			4.2	23.1	318.1	5.0
17+90 ⁸⁹			4.0	23.3	318.4	4.9
T.P	8.69	429.62	6.33		420.93	
18+02 ⁸⁹			6.2	23.4	318.5	4.9
18+50			5.6	24.0	319.3	4.7
19+00			5.2	24.4	319.5	4.9
+50			5.2	24.4	319.4	5.0
20+00			5.3	24.3	319.3	5.0
+50			5.4	24.2	319.3	4.9
21+00			5.4	24.2	319.3	4.9

	429.62				
21450	5.4	242	319.3	4.9	
22700	5.8	23.8	319.3	4.5	
22434 ⁸² B.C.	5.2	24.4	319.3	5.1	
	1.10	399.44	398.34		
E.N.E. Cor.	4.47	394.97	393.23	1.74	Valve chamber at intersection of line from aqueduct and line down hill
E.S.E. Cor.	4.23	395.21	393.23	1.98	
S.S.E. Cor	3.94	395.50	393.23	2.27	
N.N.E. Cor	4.72	394.72	393.23	1.49	
N.N.W. Cor.	5.00	394.44	393.23	1.21	
S.S.W. Cor.	3.76	395.68	393.23	2.45	
W.S.W. Cor	4.20	395.24	393.23	2.01	
W.N.W. Cor	4.88	394.56	393.23	1.33	
0+00 pipeline	3.7	395.7	395.37	0.4	

22 + 3482 BC.			324.4		
22 + 425	329.15				
22 + 4620		4.4	324.8	319.3	5.5
22 + 5899		4.1	325.1	319.3	5.8
22 + 7108		3.8	325.4	319.3	6.1
22 + 8342		3.8	325.4	319.3	6.1
22 + 9526		3.4	325.8	319.3	6.5
23 + 0735		3.3	325.9	319.3	6.6
23 + 1944		3.1	326.1	319.3	6.8
23 + 3291		2.9	326.3	319.2	7.1
23 + 50		2.8	326.4	319.1	7.3
24 + 100		3.1	326.1	318.7	7.4
24 + 50		3.8	325.4	318.3	7.1
25 + 00		5.3	323.9	317.9	6.0
25 + 124		5.7	323.5	317.8	5.7
25 + 2505		6.1	323.1	317.7	5.4
25 + 50		6.7	322.5	317.6	4.9
26 + 00		7.2	322.0	317.5	4.5
26 + 50		6.8	322.4	317.4	5.0
26 + 9310		5.8	323.4	317.4	6.0
27 + 0522		5.5	323.7	317.4	6.3
729	729 330.99		323.70		
27 + 50		6.4	324.6	317.4	7.2
28 + 00		5.3	325.7	317.4	8.3

330.99

28 + 1271	4.9	326.1	317.4	8.7
28 + 2542	4.7	326.3	317.4	8.9
28 + 50	4.5	326.5	317.4	9.1
29 + 00	4.4	326.6	317.4	9.2
29 + 50	5.0	326.0	317.4	8.6
30 + 00	6.1	324.9	317.4	7.5
30 + 50	6.7	324.3	317.4	6.9
30 + 8942	2.5	323.5	317.4	6.1
31 + 0167	7.6	323.4	317.4	6.0
31 + 50	8.0	323.0	315.0	8.0
31 + 7398	8.4	322.6	313.8	8.8
32 + 00	8.6	322.4	314.9	7.5
32 + 48 BK = 32 + 47334h.	8.6	322.4	317.1	5.3
33 + 00	9.2	321.8	317.1	4.7

T.P. 4.35 326.79 9.25 321.74

33 + 50	4.8	21.7	317.1	4.6
34 + 00	4.9	21.8	317.1	4.5
34 + 50	4.9	21.6	317.3	4.3
34 + 8545	4.7	21.8	317.4	4.4 (4.6)
34 + 9767	4.6	21.9	317.5	4.4
35 + 0991	4.6	22.0	317.5	4.5
35 + 50	5.9	20.6	317.6	3.0
36 + 00	6.9	19.8	317.8	6.8

326.49

36450	6.0	20.5	317.9	2.6
37400	5.3	21.2	318.1	3.1
37450	5.3	21.2	318.2	3.0
38400	5.1	21.4	318.4	4.0 3.0
38400 ²⁹	6.0	20.5	318.5	4.0 3.0 End Pipe 2.0

Profile E - Hodges Pipeline
ON OFFICE LOCATION

4.81	326.71	321.90
35454	4.6	322.1
35461	6.1	320.6
36400	6.7	320.0
36450	5.7	321.0
37400	4.9	321.8
37450	5.1	321.6
38400	5.1	321.6
38		

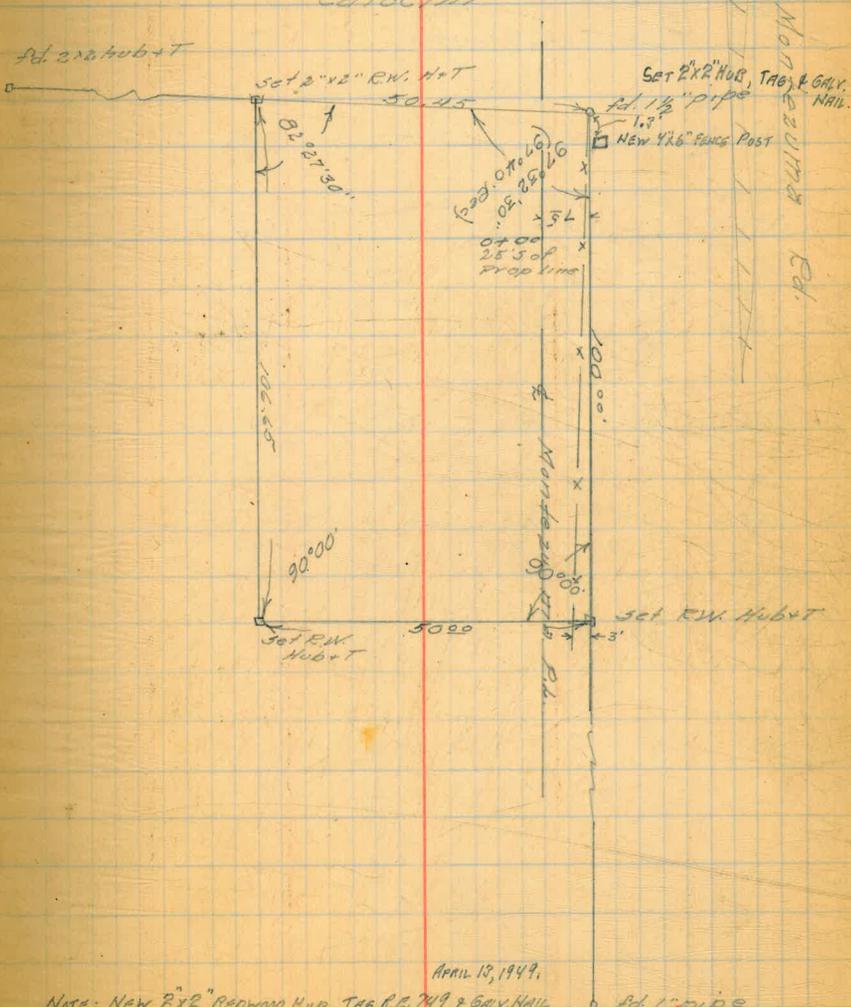
Oct. 26, 1948

Rainey
King
Baker
Adams
Rogers

48

Trojan Pl.

Caloclin



April 12, 1949

NOTE: GRADE STAKES SET .02' BELOW SILL OF DOOR
IN FRONT OF BLDG FOR 10' ON ALL SIDES OF
STR., THEN TAPER DOWN .2' TO FENCE LINE
IN FRONT AND REAR OF BLDG.

FENCE LINE STAKED 1' INSIDE OF PROP. LINE.

RAINEY
LEONARD
PAYNE
CARYER

April 12, 1949.

NOTE: NEW 2"x2" REDWOOD HUB, TAG R.E. 749, & GALV. NAIL
SET IN POSITION FORMERLY OCCUPIED BY 1 1/2" PIPE.
PIPE EVIDENTLY LOST DURING GRADING OF ST.
TAGS, R.E. 749, PLACED ON OTHER 3 HUBS ALSO.
O. LEONARD.

4.52 459.1 452.8

0+00 on Mont. pipeline
25' South of Catactin

0+10

0+20

0+30

0+40

0+50

Lts.

\$

Rts.

Lts.	\$	Rts.	Rts.	Rts.	Rts.
fence	52.4	52.5	52.4	52.5	
4.7	4.7	4.6	4.7	4.6	
7.5		10	20	25	
fence	52.3	52.3	52.2	452.6	52.5
4.7	4.8	4.8	4.9	4.5	4.6
7.0		10	16	21	25
	52.3	52.3	52.4	52.5	
4.5	4.8	4.8	4.7	4.6	
6.5		10	20	25	
	52.5	52.5	52.3	52.6	
4.5	4.6	4.6	4.8	4.5	
6.3		10	20	25	
	4.4	4.5	4.5	4.6	
4.2	4.4	10	20	25	
6.0					
	4.6	4.5	4.6	4.6	
4.5	4.6	10	20	25	
6.0					

TBM Sta. 31+06.7	2.22	726.22	323.46		
3042942	1.0	3252	317.4	7.8	
♀	2.1	324.1	317.4		
3044157	1.7	3245	317.4	7.1	
♀	2.3	323.9			
30450	2.1	324.1	317.4	6.7	
♀	2.5	323.7			
3140067	3.6	3225	317.4	5.2	
♀	4.4	3218			
31450	4.2	3220	315.0	7.0	
♀	5.1	3211			
3146157	5.3	320.9	314.4	6.5	
♀	5.4	320.8			
3147398	7.8	3184	313.8	4.6	
♀	6.0	320.2			
3149798	6.9	319.3	315.3	4.0	
♀	5.1	3211			
32450	6.4	3198	317.1	2.7	
♀	3.8	322.4			
33400	5.1	321.1	317.1	4.8	
♀	4.0	322.2			
33450	4.8	321.4	317.1	4.3	
♀	4.5	321.7			
33478.00	4.8	321.4	317.1	4.3	
♀	4.9	321.3			

T.P. on Sta. 30+33 ⁴³	F.B. 735	343.70		
	6.69	350.39		
30+22 ⁵⁸	6.8	343.6	335.13	8.5
30+06 ⁷³	6.5	343.9	335.1	8.8
29+90 ⁵² BK. = 90 ²⁵ Ah	6.3	344.1	335.2	8.9
29+50	5.4	345.0	335.2	9.8
29+00	4.8	345.6	335.3	10.3
28+50	3.7	346.7	335.3	11.4
28+00	3.1	347.3	335.4	11.9
27+50	3.1	347.3	335.4	11.9
27+00	4.6	345.8	335.5	10.3
26+75	6.5	343.9	335.5	8.4
26+50	5.3	345.1	336.0	8.0
26+00	4.62	345.77	337.0	8.8
	6.22	351.99		
25+74 ³⁵	5.0	347.0	337.2	7.8
25+58 ²¹	4.4	347.6	337.5	10.1
25+12 ²²	4.7	347.3	337.9	9.4
25+26 ²⁴	5.1	346.9	338.4	8.5
25+00	5.1	346.9	339.5	7.4
24+62 ²⁵	4.1	347.9	341.0	6.9
24+46 ²⁶	2.6	349.4	341.5	7.9
24+30 ²⁶	1.9	350.1	341.6	8.0
24+00	1.5	350.5	342.0	8.3
23+62		350.9	342.8	8.1
23+50	0.5	351.5	343.2	8.3
T.P. set.	0.55	351.44		

345.8
7.2
9.1
353.1
5.1
311 7.1

el. 453.37 at curb

Top of structure at 51+95

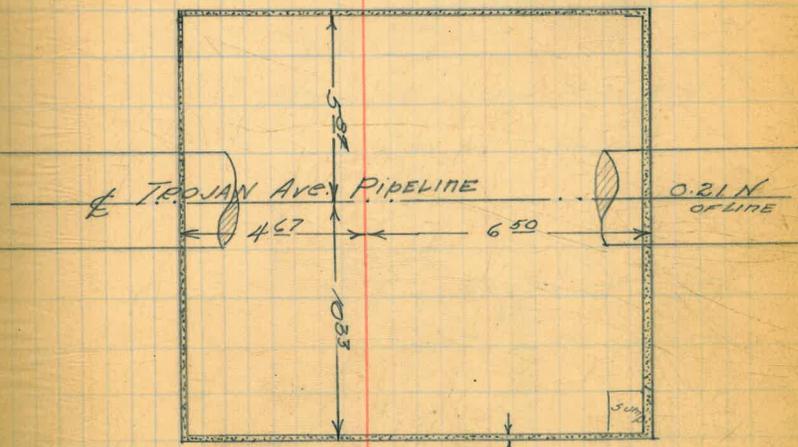
N.E. cor. up. 4.47 el. 448.30
 S.E. cor. up. 4.56 el. 448.21
 N.W. cor. up. 4.77 el. 448.30
 S.W. cor. up. 4.86 el. 448.11

Chamber at 60+88.15

	2.11	454.21	452.10	Top Floor	Top Deck
N.E. Cor	up. 11.28	16.18	438.83	450.31	
N.W. Cor	up. 11.21	15.87	438.34	450.55	
S.E. Cor	up. 11.70	16.60	437.61	450.16	
S.W. Cor	up. 11.68	16.34	437.87	450.40	

Note: These deck elev. lowered 1 ft.

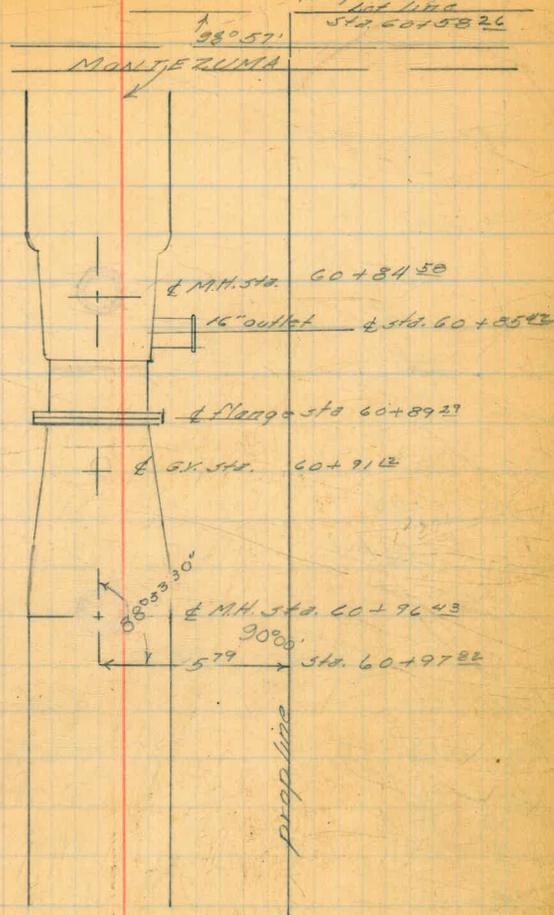
VALVE CHAMBER STA 60+88.15
Corr. 60+87.99



Note: All corners offset 5'- cuts given to subgrade

88.15
 9.67
 78.48

Nov. 30, 1948 Rainey
Baker 53
Rogers



Trojan Ave. for
Construction

54

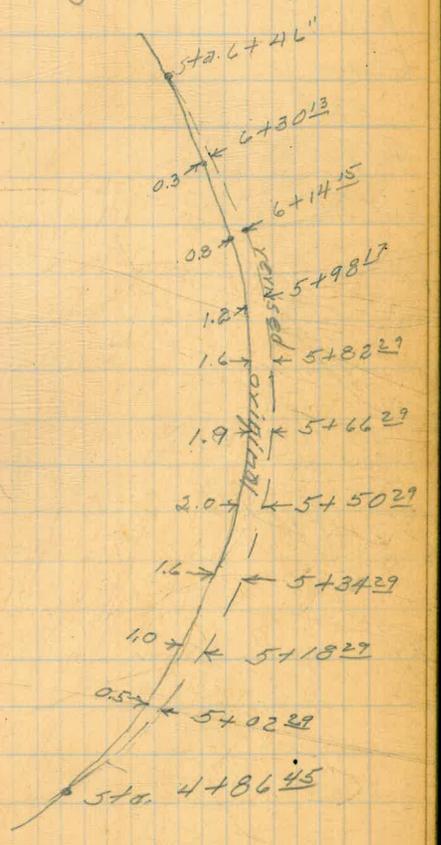
			357.44			
	10.52	361.96				
23+00			7.4	354.6	344.9	9.7
22+57				354.7	346.4	8.3
22+50			6.8	355.2	346.6	8.6
22+00			4.1	357.9	347.8	10.1
21+50			3.2	358.8	347.9	10.9
21+26 ²³			5.8	359.2	348.0	11.2
21+10 ¹²			2.5	359.5	348.2	11.3
20+94 ¹²			2.2	359.8	348.6	11.2
20+78 ²¹			1.9	360.1	349.7	10.9
20+62 ²³			1.6	360.4	350.0	10.4
20+46 ⁰⁴			1.2	360.8	350.8	10.0
T.P.			0.17	361.79		
	12.98	374.77				
20+00			11.8	363.0	353.3	9.7 363.0
19+50			10.2	364.6	355.9	8.7
19+00			7.7	367.1	358.1	9.0
18+87 ⁵				367.5	358.8	8.7
18+50			4.8	370.0	361.3	8.7
18+00			0.6	374.2	364.8	9.4
T.P.			0.52	374.21		
	12.81	387.02				
17+87 ⁵				375.2	365.6	7.6
17+50			10.1	376.9	367.2	7.7
17+00			7.3	379.7	369.4	10.3
16+75				380.4	370.6	9.8
16+50			3.8	383.2	372.8	10.4
16+30 ⁴⁴			2.5	384.5	374.5	10.0
16+14 ⁵⁰			1.5	385.5	375.9	9.6

		387.02				
15+98 ⁵⁵			0.2	386.8	377.1	9.7
T.P.			0.22	386.80		
	12.99	399.79				
15+82 ⁵⁵			12.2	387.6	378.2	9.4
15+50			11.3	388.5	380.2	8.3
15+00			8.1	391.7	383.1	8.6
14+50			4.2	395.6	386.0	9.6
T.P. set			4.16	395.63		
	11.56	407.19				
14+00			5.3	401.9	390.8	11.1
13+50			0.8	406.4	395.6	10.8
T.P.	12.84	419.25	0.80	406.39		
13+11 ²⁸			10.8	408.5	399.3	9.2
12+95 ⁴³			9.2	410.1	401.5	8.6
12+79 ⁶⁹			5.9	413.4	404.4	9.0
12+64 ⁰⁹			2.7	416.6	408.0	8.6
T.P.	12.34	431.16	0.45	418.80		
12+48 ⁴⁹			11.4	419.8	411.6	8.2
12+33			8.5	422.7	414.1	8.6
12+17 ²⁸			6.6	424.6	416.3	8.3
12+00			4.4	426.8	418.8	8.0
T.P.	12.65	443.55	0.24	430.90		
11+53.88			7.9	435.7	425.3	10.4
11+38 ⁰²			6.5	437.1	427.4	9.7
11+22 ¹⁴			4.8	438.8	429.3	9.5

		443.55				
11+06 ²⁴			2.8	440.8	431.1	9.7
10+90 ³³			1.5	442.1	432.7	9.4
T.P.	12.02	455.21	6.34	443.19		
10+74 ³⁸			11.5	443.7	434.1	9.6
10+53 ³²			10.3	444.9	435.6	9.3
10+42 ⁴⁴			8.9	446.5	437.4	9.1
10+26 ⁴⁹			7.1	448.1	439.4	8.7
10+10 ⁵⁷			4.3	450.9	441.7	9.2
T.P.	12.70	463.62	4.29	450.92	64 ¹⁰⁴¹² 53	
9+94 ²¹			10.3	453.3	443.8	9.5
9+78 ⁸³			9.5	454.1	445.7	8.4
9+62 ⁹²			7.2	456.4	447.6	8.8
9+31 ¹⁹			1.9	461.7	452.5	9.2
T.P.	12.04	475.46	0.20	463.42		
9+15 ⁴⁰			11.6	463.9	455.3	8.6
8+99 ⁶¹			9.5	466.0	458.0	8.0
8+83 ⁵²			6.3	469.2	460.8	8.4
8+68 ⁰³			3.6	471.9	463.5	8.4
8+52 ²⁴			0.6	474.9	466.3	8.6
T.P.	12.37	487.26	0.57	474.89		
8+36 ⁴⁵			9.1	478.2	469.0	9.2
8+20 ⁵⁴			6.6	480.7	471.8	8.9
8+04 ⁹¹			3.9	483.4	474.6	8.8
7+89 ²¹			1.5	485.8	476.9	8.9
T.P.	12.77	499.84	0.19	487.07		

		499.84				
7+73 ⁸²			11.0	488.8	478.9	9.9
7+57 ⁴³			8.8	491.0	481.0	10.0
7+41 ⁸⁴			7.1	492.7	483.0	9.7
7+25 ⁶⁵			5.4	494.4	485.0	9.4
7+09 ²⁴			3.4	496.4	486.9	9.5
T.P.	12.20	588.63	3.41	496.43	914.9	740.9
6+93 ⁸⁴			10.7	497.9	488.7	9.2
6+78 ⁸⁷			9.2	499.4	489.9	9.5
6+62 ⁰⁹			7.3	501.3	491.3	10.0
6+46 ¹¹			6.1	502.5	492.7	9.8
6+30 ¹³			5.1	503.5	494.2	9.3
6+14 ¹⁵			4.4	504.2	494.6	9.6
5+98 ¹⁷			3.8	504.8	495.8	9.0
5+82 ²⁹			3.2	505.4	496.5	8.9
5+66 ²⁹			2.7	505.9	497.2	8.7
5+50 ²⁹			1.9	506.7	497.9	8.8
5+34 ²⁹			1.0	507.6	498.6	9.0
T.P.	8.95	516.61	0.97	507.66		
5+18 ²⁹			7.5	509.1	499.4	9.7
5+02 ²⁹			6.6	510.0	500.1	9.9
4+86 ⁴³			5.9	510.7	500.2	10.5
4+70 ⁴³			5.5	511.1	500.2	10.9
4+54 ⁴¹			5.5	511.1	500.2	10.9
4+38 ³⁹			5.0	511.6	500.2	11.4
4+22 ³⁹			4.9	511.7	500.2	11.5

Revised alignment
Trojan Ave. Pipeline



4706 ³⁵	516.6)	4.6	572.0	520.2	11.8
3790 ³⁵		4.9	571.7	500.3	11.4
3774 ³²		5.3	571.3	520.3	11.0
3758 ²⁹		5.8	570.8	500.3	10.5
3743 ¹⁵		6.3	570.3	500.3	10.0
3700		7.6	570.0	500.3	9.7
2750		6.1	570.5	501.0	9.5
17990 ³⁵		3.6	573.0	502.4	10.2
1786		3.5	573.1	502.4	10.7
		9.15	507.46	507.46	

DEC 30 1968
 BETTY
 BAKER
 ROGERS

60.

TROJAN PIPELINE

PIPE PROFILE (CATACON DRIVE)

Sta	390	456.00	452.10	(2) Hudd
55+85	2.09	456.09	452.00	60+07.88
	1.45	456.85	452.60	60+31.89
				55+85.67
55+85			452.4	
56+00			453.6	
+50			453.1	
57+00			452.6	
+03			452.5	
+23			451.9	
+37			449.3	
+61			448.9	
+76			448.3	
58+00			447.8	
+50			446.5	
59+00			446.7	
+32			446.7	
+42			447.1	
+43			447.8	
+50			447.7	
+56			449.0	
+72			449.7	
+84			448.5	
60+00			448.3	
+30			448.6	
+50			450.3	
61+50			451.4	

UNFINISHED EXCAV. FOR BOX

4.7 451.4

PIPE PROFILE (CATOCTIN DRIVE) (CONT'D)

61+70 ⁶	456.05	4.5	451.6	
62+00		4.5	451.6	
OR TP		3.90	452.15	-052.10

grades

Montezuma Pump House
Top Floor.King-Shipman-West
2-22-49

62

60+31.89	5.36	457.36	452.00	hub-trojan line @ 52
				Cut
N.N.W. #1		4.01	453.35	452.3
N.N.E. #2		4.23	453.13	452.3
E.N.E. #3		5.00	452.36	452.3
E.S.E. #4		4.52	452.84	452.3
S.S.E. #5		4.66	452.70	452.3
S.S.W. #6		4.68	452.68	452.3
W.S.W. #7		4.89	452.47	452.3
W.N.W. #8		4.85	452.51	452.3
Top Pipe W. Tee		9.95		
T.P. #6	4.81	457.49	452.68	
4' O.C.F. Pipe		4.97	452.52	448.3
4' O.C.F. West Pipe		4.81	452.68	448.3
4' O.C.F. East Pipe		4.83	452.66	448.3

4.22

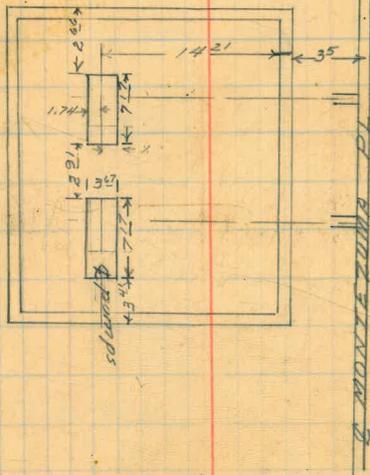
4.38

4.36

King
Shipman
West

Mar. 1, 1949

Location Pump bases 63
Monteuma Pump House



23.52
3.71
14.81
2.52
2.91

Profile Trans. S.P.A.
(CONT)

King
Baker
West

12-5-50

65

362.66

Grade
Bottom Pipe

151400

1.0

361.7

354.0

T.P.

7.82

370.43

0.05

362.61

150400

68

363.6

358.0

149487

57

364.7

358.3

149465

1.8

362.6

358.6

368.5

old ground - End subdiv. - Approx. old gr.

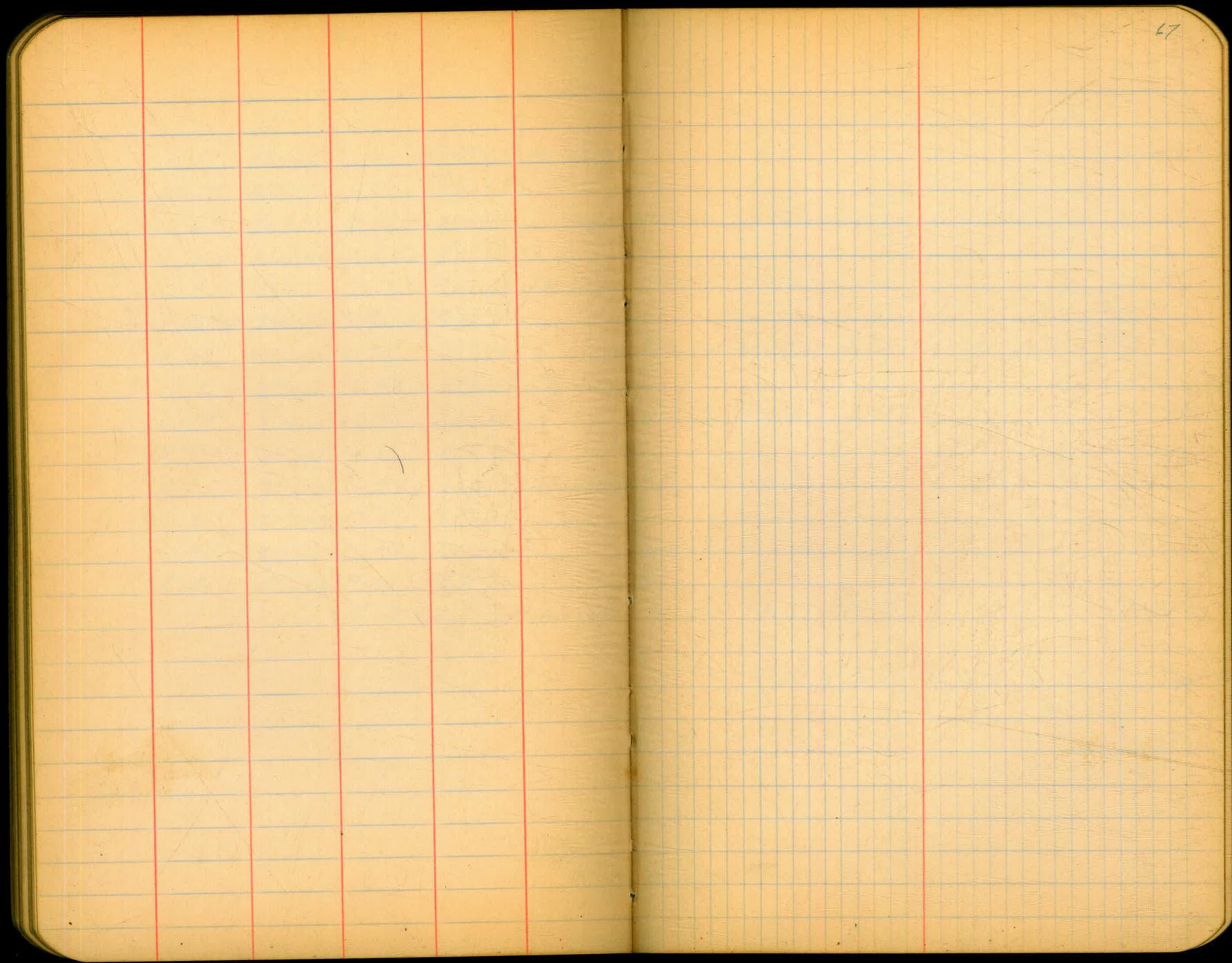
set 395 contour for Garbage pit
1500' SW. of South end of Hodges
bridge above new boat landing

t	H _i	-			
7.75	335.29		327.54	U.S.G.S.	BM South end of Bridge
12.39	345.08	2.60	332.69		
12.69	357.09	0.68	344.40	TP on Rock	
12.34	367.40	2.03	365.06		
12.97	380.22	0.15	367.25	TP on	Binney
11.21	391.11	0.32	379.90		391 ± Bottom of water tank
11.29	402.05	0.35	390.76		
1.01	390.58	12.48	389.57	TP on	(Binney)
0.49	378.36	12.72	377.86		
1.44	367.41	12.38	365.97		
0.75	355.64	12.52	354.89	TP on	Binney
0.81	343.44	13.01	342.63		
2.44	335.46	10.42	333.02		
5.31	332.66	8.11	327.35		
		5.10	327.56	= 327.54	BM

West
Kepp

5-22-52

66



Levels on Wunderlin Ave from 60 St.
to 63rd Water Grade

	B.S.	I.S.	F.S.		
B.M.				271.34	
B.M. ELEV.	1.28	275.62			
0+00		1.88	273.74	270.30	3.4 int. w/ existing line 60th St.
0+05		1.9	273.7	269.8	3.9
0+10		2.2	273.4	269.4	4.0 int. w/ proposed line 60th St.
0+50		6.3	269.3	265.8	3.5
0+60		7.3	268.3	264.9	3.4
0+80		9.2	266.4	262.9	3.5
1+00		10.9	264.7	261.1	3.6
T.P. # 1	8.14	271.21	12.55	263.07	
1+40		9.2	262.0	258.5	3.5
1+60		10.2	261.0	257.5	3.5
1+80		10.9	260.3	256.8	3.5

	271.21				
2+00		11.3	259.9	256.4	3.5
2+40		11.5	259.7	256.3	3.4
2+60		11.2	260.0	256.5	3.5
2+80		10.7	260.5	256.9	3.6
3+00		10.0	261.2	257.5	3.7
3+20		9.0	262.2	258.1	3.5
3+60		6.1	265.1	261.7	3.4
4+00		2.1	269.1	265.8	3.3
T.P.#2	10.61	281.18	0.64	270.57	
4+50		6.1	275.1	271.8	3.3
T.P.#3	11.46	291.74	0.90	280.28	2
5+10		9.5	282.2	278.9	3.3

291.74

5730 7.5 284.2 281.0 3.2

5750 6.0 285.7 282.4 3.3

6700 3.3 288.4 285.0 3.4

6750 0.6 291.1 287.2 3.9

T.P.# 4 12.61 303.72 0.63 291.11

7700 10.0 293.7 289.8 3.9

7730 8.5 295.2 291.8 3.4

7750 7.9 295.8 292.4 3.4

8700 6.4 297.3 293.8 3.5

8750 5.0 298.7 295.2 3.5

9700 3.6 300.1 296.6 3.5

9720 3.3 300.4 297.0 3.4

	303.72				
9+40		3.3	300.4	297.0	3.4
9+60		3.8	299.9	296.5	3.4
9+80		4.5	299.2	295.7	3.5
10+00		5.6	298.1	294.5	3.6
10+50		10.1	293.6	290.1	3.5
T.P.#5		10.73	292.99		
	2.83		295.82		
11+00		6.9	288.9	285.5	3.4
11+50		11.2	284.6	281.1	3.5
11+70		12.7	283.1	279.7	3.4
T.P.#6		12.82	283.00		
	6.58		289.58		
11+90		7.5	282.1	278.6	3.5

289.58

12+10	8.3	281.3	277.8	3.5
12+30	8.5	281.1	277.3	3.8
12+50	9.1	280.5	277.0	3.5
13+00	9.6	280.0	276.8	3.2
13+50	10.0	279.6	276.5	3.1
14+00	10.1	279.5	276.3	3.2
14+40	10.3	279.3	276.1	3.2
14+60	10.1	279.5	276.2	3.3
14+80	9.3	280.3	276.9	3.4
15+00	8.4	281.2	278.0	3.2
15+40	5.0	284.6	271.5	3.1
15+60	2.5	287.1	284.1	3.0

289.58

T.P.^{#7}

0.23 289.35

12.21 301.56

16+00

9.1 292.5 289.5 3.0

16+30⁹²

4.8 296.8 293.8 3.0

16+70⁹²

0.3 301.3 295.5 5.8

T.P.^{#8}

0.21 301.35

4.89 306.24

1.83 304.41 ^{corr} 304.47

Hodges

330.5

332.89

1.35 334.24

North	6.78	327.46	323.75	3.71
45° NE	6.8 ⁵⁹	327.65	323.75	3.90
East	6.8 ⁵⁸	327.66	323.75	3.91
45° SE	6.2 ⁸	328.06	323.75	4.31
South	6.07	328.17	323.75	4.42
45° SW	6.30	327.94	323.75	4.19
West	6.54	327.70	323.75	3.95
45° NW	6.76	327.48	323.75	3.73

2.76 335.65 332.89

0-07 ²⁵	5.0	330.7	325.7	5.0
0-25 ²⁵	5.3	330.4	325.7	4.7
0-43 ²⁵	7.4	328.3	325.7	2.6

Stand pipe foundation

Subgrade

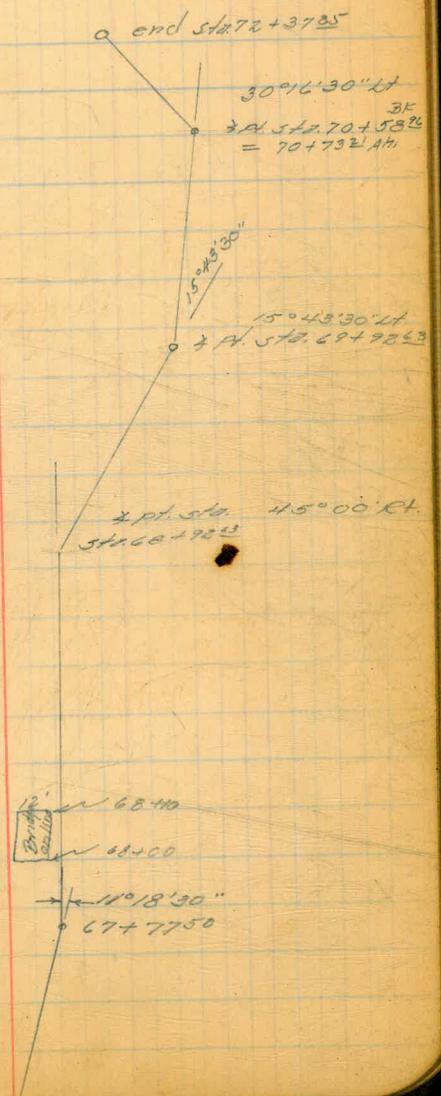
Oct. 15, 1948

 Rainey
 King
 Baker
 Adams
 Rogers

74

lower end profile
Hodges

		324.17	
	5.42	329.59	
67+77 ⁵²		7.3	322.3 ✓
68+00		6.8	322.8 ✓
68+04		8.4	321.2 ✓
68+10		6.0	323.6 ✓
68+50		7.2	322.4 ✓
68+92 ⁴³		6.6	323.0 ✓
68+92 ⁴³ 12' Lt		4.6	325.0 ✓
68+92 ⁴³ 12' Rt		8.5	321.1 ✓
69+11		9.1	320.5 ✓
69+50 edge oil		11.1	318.5 ✓
69+75		11.5	318.1 ✓
69+78		12.0	317.6 ✓
TP		11.83	317.76 ✓
	0.44	318.20	
69+92	2	2.6	315.6 ✓
69+92	12' Lt	0.6	317.6 ✓
69+92	12' Rt	4.0	314.2 ✓
70+25		4.3	313.9 ✓
70+45		6.2	312.0 ✓
70+58 ²⁶ BK = 70+73 ²¹ Ah		7.5	310.7 ✓
"	12' Lt	4.7	313.5 ✓
"	12' Rt	9.0	309.2 ✓



316.20

71400

2.0 311.2 ✓

71450

2.2 311.0 ✓

72400

8.9 309.3 ✓

72437⁸⁵11.2 307.0 ✓
4.2 311.0

12.99

24" pipeline

B.M.

12.34

317.56

305.20

72475

15.2 302.4 307.3

I

15.0 302.6

A 72437⁸⁵ H

9.8 307.8 307.3

72437⁸⁵ BK

8.7 308.9 307.3

Φ

11.2 306.4

72400

5.4 312.2 307.3

Φ

8.5 309.1

71450

3.0 314.6 307.8

R

6.6 311.0

71400

3.7 313.9 308.3

C

6.5 311.1

A 70458⁹⁶ BK

3.9 313.7 308.5

70473⁹⁶ H

Φ

6.8 310.8

70425

1.8 315.8 309.5 6.3

Φ

3.6 314.0

T.P.

9.70

326.51

0.75

316.81

F 4.9

cut

C 0.5

C 1.6

4.9

6.8

5.6

5.2

6.3

3145
3146

4.0
330.7
343.8
317.4
317.4

cut

3+49.30		347.8	344.1	3.7
3+80.29		342.6	338.6	4.0
4+42.24		331.0	327.0	4.0
4+44.95		331.0	326.7	4.3

326.51

69+29.43	8.8	317.7	310.9	6.8
♀	11.0	315.5		
69+50	6.4	320.1	312.6	7.5
♀	8.1	318.4		
69+00	2.8	323.7	314.7	9.0
♀	4.2	322.3		
68+92.63 #h	2.1	324.4	315.0	9.4
68+92.67 #h	1.7	324.8	315.0	9.8
♀	3.5	323.0		
68+50	2.4	324.1	318.0	6.1
♀	4.2	322.3		
68+06	2.3	324.2	318.0	6.2
♀	3.8	322.7		
67+77.50	2.4	324.1	318.0	6.1
♀	4.2			
T.B.M	2.36	324.15		

Box & Hd Will - Hodges

Pipe
line

5' offsets

78

6.15 33032 32417

Box

W.S.W	6.72	329.6	314.5	9.1
W.N.W	7.82	322.5	314.5	8.0
S.S.W	6.05	324.3	314.5	9.8
N.N.W	8.76	321.5	314.5	7.0
S.S.E	6.30	324.0	314.5	9.5
N.N.E	8.88	321.4	314.5	6.9
E.N.E	8.06	322.2	314.5	7.7
E.S.E	7.04	323.3	314.5	8.8

Hd Will

S.W.	5.35	325.0	314.0	11.0
S.E.	5.34	325.0	314.0	11.0
N.W	9.65	320.7	314.0	6.7
N.E	9.66	320.6	314.0	6.6

*Kalmia St. water grades
from Montclair to Vancouver*

Rainey

79

cuts

	993	277.73	267.80		
0+20			267.0	267.8	27 propline Montclair
0+50			271.8	269.2	26.1
1+00			273.0	271.6	4.9
1+50			274.0	272.8	4.7
2+00			273.7	272.6	4.6
2+50			272.7	271.1	5.1
3+00			270.7	268.6	5.6
3+50			268.4	266.7	5.2
3+80			267.1	266.1	45 40' East East line Vancouver

4.0 4563 452.3

33 + 08 5.3 451.0

32 + 99 4.3 451.0

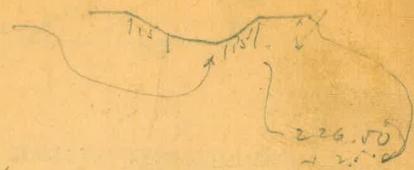
32 + 98 4.3 452.0

178 Tees

66) 9
 2264
 43.55

353.8

Barrel



Down 12' from top of dam

18' obstructed

16' of gate

144
 81

107.9
 55

82.25 across El Cajon

B.S. F.S.

274.32

2787
 496

1891

5.05

4.55
 .50

11.32

530

4.87

.43

395.00
 11.03

383.97

65' Lt. 15+00

398.25

274.34 Lt.

304.47 Hyd.

4142

12

2284

4142

49904

318.0

7043
 5167
 1876

Please Return to
 City of San Diego Water Dept.
 Room 903 Civic Center