

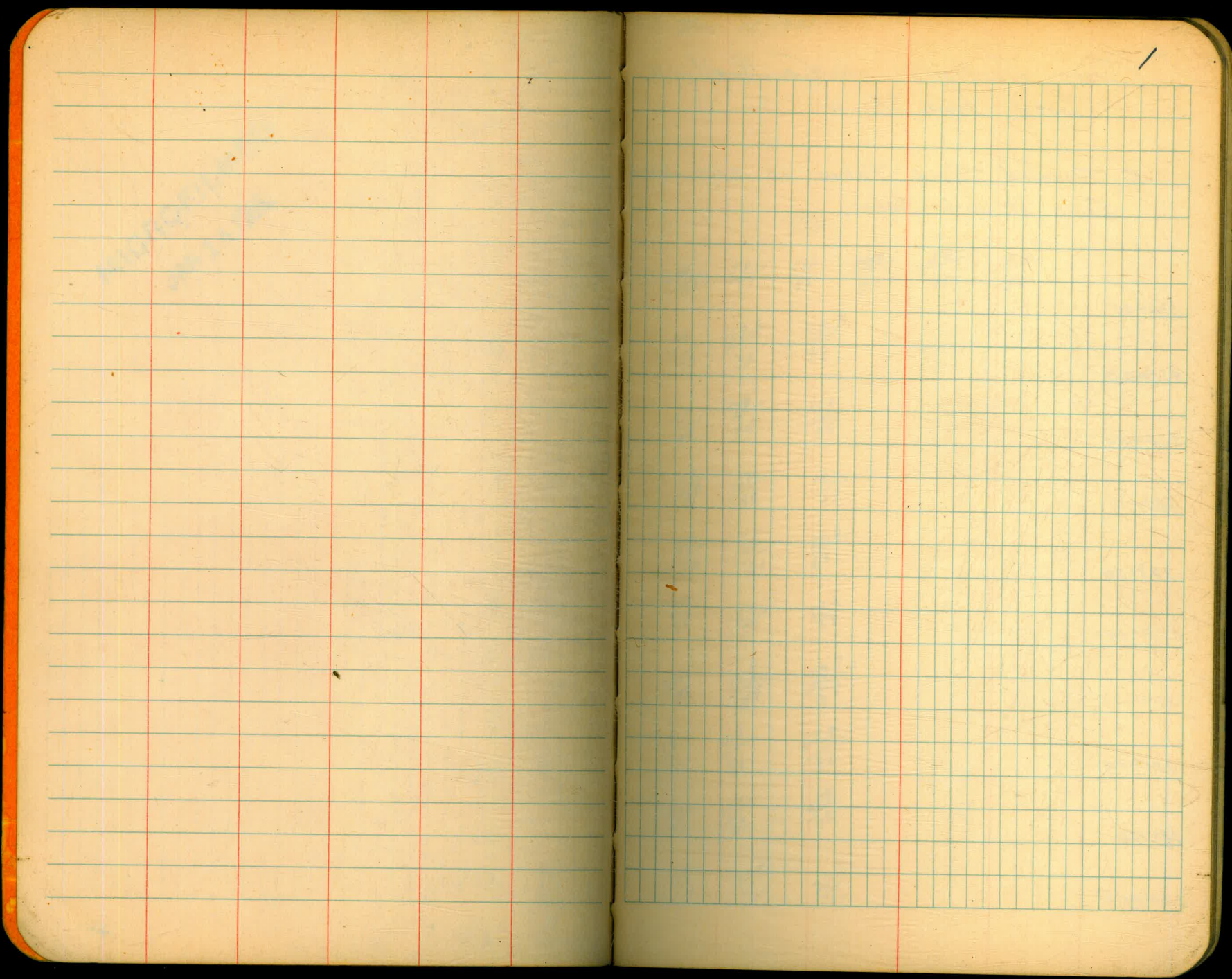
BOOK A

W629-A

DIETZGEN

FIELD BOOK

No. 403 P -



Cross Sections on Co. Road
Cont'd from Book

Travelled Road Taken as zero datum.
Same at each Station.

Dec. 12, 1941

Barker, Messersmith - Melhorn.

2

332+00

RT

$$\begin{array}{r} 40 \\ 00 \end{array} \quad \begin{array}{r} 5.6 \\ 13 \end{array} \quad \begin{array}{r} 18.6 \\ 21 \end{array} \quad \begin{array}{r} 39.4 \\ 31 \end{array} \quad \begin{array}{r} 50 \\ 40 \end{array} \quad \begin{array}{r} 53 \\ 50 \end{array}$$

331+00

$$\begin{array}{r} 80 \\ 23 \end{array} \quad \begin{array}{r} 17.2 \\ 32 \end{array} \quad \begin{array}{r} 24.7 \\ 42 \end{array}$$

330+00

$$\begin{array}{r} 17 \\ 32 \end{array} \quad \begin{array}{r} 7.2 \\ 35 \end{array} \quad \begin{array}{r} 16.3 \\ 45 \end{array}$$

329+00

$$\begin{array}{r} 3.0 \\ 50 \end{array} \quad \begin{array}{r} 11.7 \\ 55 \end{array} \quad \begin{array}{r} 19.5 \\ 65 \end{array}$$

328+00

$$\begin{array}{r} 40 \\ 56 \end{array} \quad \begin{array}{r} 5.6 \\ 61 \end{array} \quad \begin{array}{r} 20.6 \\ 68 \end{array}$$

327+00

$$\begin{array}{r} 50 \\ 78 \end{array} \quad \begin{array}{r} 5.4 \\ 85 \end{array} \quad \begin{array}{r} 19.6 \\ 94 \end{array}$$

326+00

$$\begin{array}{r} 50 \\ 93 \end{array} \quad \begin{array}{r} 12.5 \\ 97 \end{array} \quad \begin{array}{r} 23.7 \\ 97 \end{array}$$

325+00

$$\begin{array}{r} 19 \\ 46 \end{array} \quad \begin{array}{r} 14.9 \\ 46 \end{array} \quad \begin{array}{r} 25.9 \\ 56 \end{array}$$

324+00

$$\begin{array}{r} 40 \\ 30 \end{array} \quad \begin{array}{r} 17.0 \\ 33 \end{array} \quad \begin{array}{r} 25.0 \\ 42 \end{array}$$

323+41 37

$$\begin{array}{r} 60 \\ 17 \end{array} \quad \begin{array}{r} 13.6 \\ 21 \end{array} \quad \begin{array}{r} 22.5 \\ 31 \end{array}$$

Left.

344 + 00	$\frac{-15}{18 \text{ H}}$	$\frac{60}{8 \text{ H}}$	$\frac{80}{00}$
----------	----------------------------	--------------------------	-----------------

343 + 00

342 + 00

341 + 00

340 + 00

339 + 00 " "

338 + 00 None req'd.

337 + 00 None req'd.

336 + 00 None req'd.

335 + 00 None req'd.

334 + 00

333 + 00

Right

$\frac{92}{10 \text{ RT}}$		
----------------------------	--	--

$\frac{-20}{00}$	$\frac{60}{100}$	$\frac{50}{20}$
------------------	------------------	-----------------

$\frac{-10}{35}$	$\frac{50}{40}$	$\frac{30}{50}$
------------------	-----------------	-----------------

$\frac{+03}{20}$	$\frac{60}{280}$	$\frac{70}{38}$
------------------	------------------	-----------------

$\frac{00}{0}$	$\frac{60}{50}$	$\frac{70}{150}$
----------------	-----------------	------------------

$\frac{-05}{25}$	$\frac{50}{28}$	$\frac{24}{34}$	$\frac{27}{41}$
------------------	-----------------	-----------------	-----------------

$\frac{-50}{00}$	$\frac{46}{13}$	$\frac{136}{24}$	$\frac{29}{37}$	$\frac{33}{47}$
------------------	-----------------	------------------	-----------------	-----------------

356 + 00

355 + 00

354 + 00

353 + 00

352 + 00

351 + 00

350 + 00

349 + 00

348 + 00

OK

347 + 00

OK

346 + 00

345 + 00

Right

$\frac{03}{24}$	$\frac{115}{47}$	$\frac{15}{57}$
$\frac{05}{83}$	$\frac{105}{58}$	$\frac{14}{70}$

$\frac{13}{48}$	$\frac{72}{69}$	$\frac{80}{80}$
-----------------	-----------------	-----------------

$\frac{12}{61}$	$\frac{30}{82}$	$\frac{42}{92}$
-----------------	-----------------	-----------------

$\frac{08}{20}$	$\frac{65}{46}$	$\frac{82}{66}$
-----------------	-----------------	-----------------

$\frac{05}{42}$	$\frac{68}{23}$	$\frac{108}{41}$	$\frac{115}{51}$
-----------------	-----------------	------------------	------------------

$\frac{10}{52}$	$\frac{64}{21}$	$\frac{96}{87}$
-----------------	-----------------	-----------------

$\frac{02}{15}$	$\frac{52}{282}$	$\frac{70}{25}$	$\left(\frac{9}{35} \right)$
-----------------	------------------	-----------------	-------------------------------

$\frac{02}{11}$	$\frac{40}{23}$	$\frac{55}{33}$
-----------------	-----------------	-----------------

$\frac{05}{02}$	$\frac{30}{11}$	$\frac{42}{21}$
-----------------	-----------------	-----------------

Note: The new line will of necessity come in from the east of Sta 366+00 on the North side of the present steel line. It can and should stay on the North side down to R.S. Sta. 310+00 and possibly to Sta 274+70

366+00

365+00

364+00

363+00

362+00

361+00

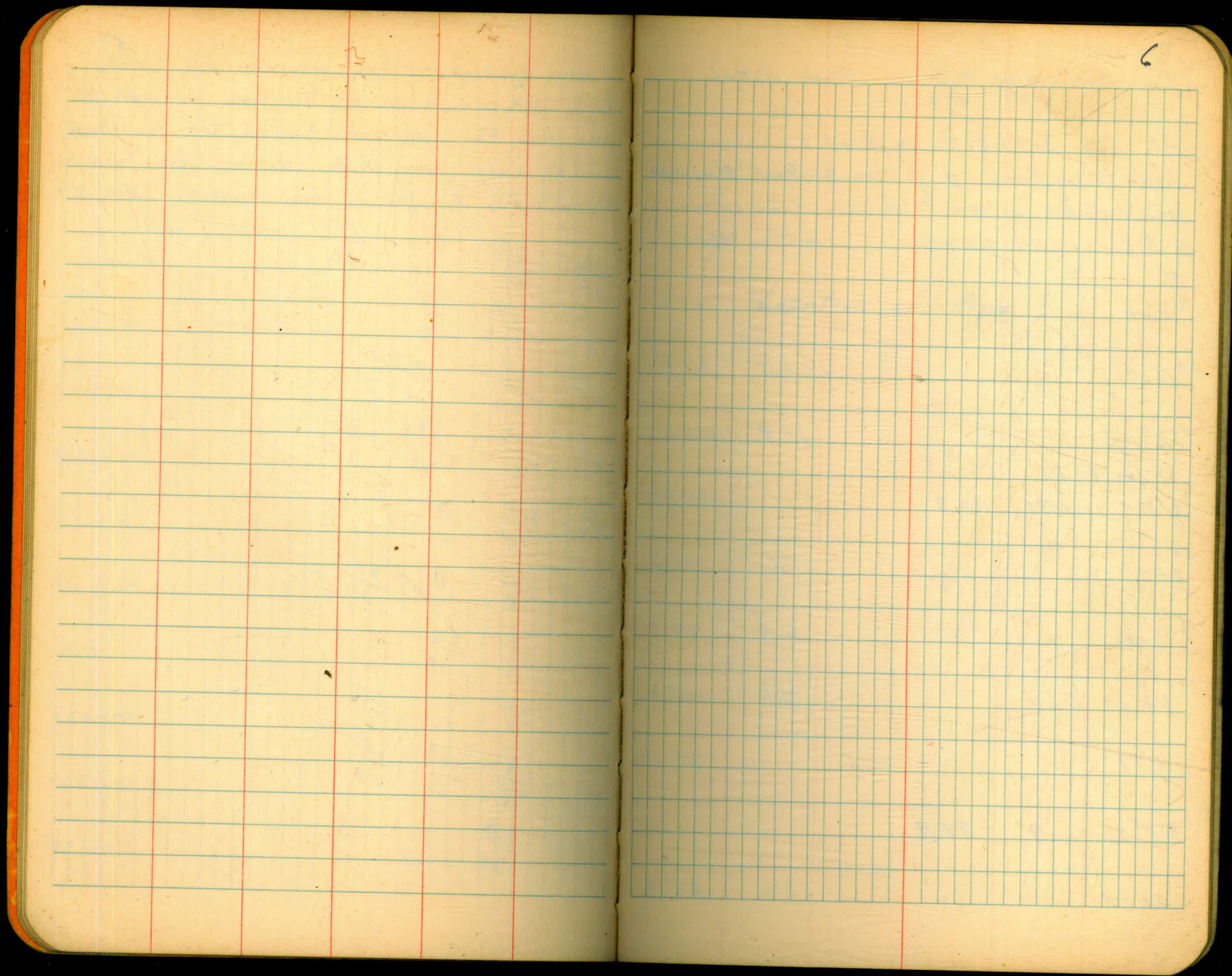
360+00

359+00

358+00

357+00

$\frac{-13}{15}$	$\frac{20}{27}$	$\frac{88}{37}$	$\frac{12^2}{50}$	15.5
$\frac{-05}{8^0}$	$\frac{88}{19^0}$	$\frac{13^0}{32^0}$		12.3
$\frac{-05}{11}$	$\frac{65}{23}$	$\frac{11^0}{33}$		14.2
$\frac{0^0}{8^0}$	$\frac{104}{5}$	$\frac{126}{23}$	$\frac{15}{35}$	
$\frac{-04}{8}$	$\frac{103}{16^0}$	$\frac{17}{29^0}$ ✓		
$\frac{-10}{5^0}$	$\frac{12^0}{15}$	$\frac{17}{25}$	$\frac{20}{30}$	
$\frac{-08}{6^0}$	$\frac{18}{18}$	$\frac{23}{38}$		
$\frac{-13}{12^0}$	$\frac{11^2}{14}$	$\frac{20}{27}$	$\frac{25}{37}$	
$\frac{0^0}{13^0}$	$\frac{105}{18}$	$\frac{204}{21}$	$\frac{25}{40}$	
$\frac{-05}{15}$	$\frac{103}{28}$	$\frac{21}{38}$	$\frac{24}{48}$	



Cross Sections of Road and River Bottom

At Sta. 3/4+21²⁵ on Road.

ALL Dis. from $\frac{1}{2}$ of County Road Elev 100.00

Sta.	B.S.	H.I.	F.S.	Red	Elev.
$\frac{1}{2}$ Road	12.44	112.44			100.00
RT					
0+15				12.5	99.9
RT					
0+31				0.5	111.9
LT					
0+14				11.9	100.5
⊙ on $\frac{1}{2}$ Rd.					
A #1	0.71	100.7			100.00
LT					
0+27				5.1	95.6
LT					
0+62				6.6	94.1
LT					
0+69				12.0	88.7
T.P. #1		12.65			88.0
A #2	0.9	-88.9			
LT					
0+94				3.6	85.3

W Messersmith

7

W Melhorn
Dec 16, 1911

Solid Rock on North Side of River.
Boulders 2' to 10' in Dim. on South Side
of River.

Location of Pipe?

S ₇₂	B.S.	Hi.	F.S.	Red.	Elev.
		-88.9			
Lt 1+14				3.2	85.7
Lt 1+35				5.0	83.9
T.P.#2			12.32		76.6
π#3	7.25	83.9			
Lt 1+75	edge water			10.2	73.7
Lt 2+00	≠ River			10.5	73.4
Water Level				10.2	73.7
Lt 2+10	edge water			10.1	73.8
Lt 2+31				6.4	77.5
Lt 2+50				1.1	82.8
T.P.#3			0.51		83.4
π#4	11.81	95.2			

83.4
17.4
100.8

Sta.	B.S.	Hi.	F.S.	Rod	Elev.
		95.2			
L ⁺ 2+51				5.5	89.7
T.P.#4			0.4		94.8
A #5	12.5	107.3			
L ⁺ 2+74				6.4	100.9
Co. Rd.			7.3		100.0

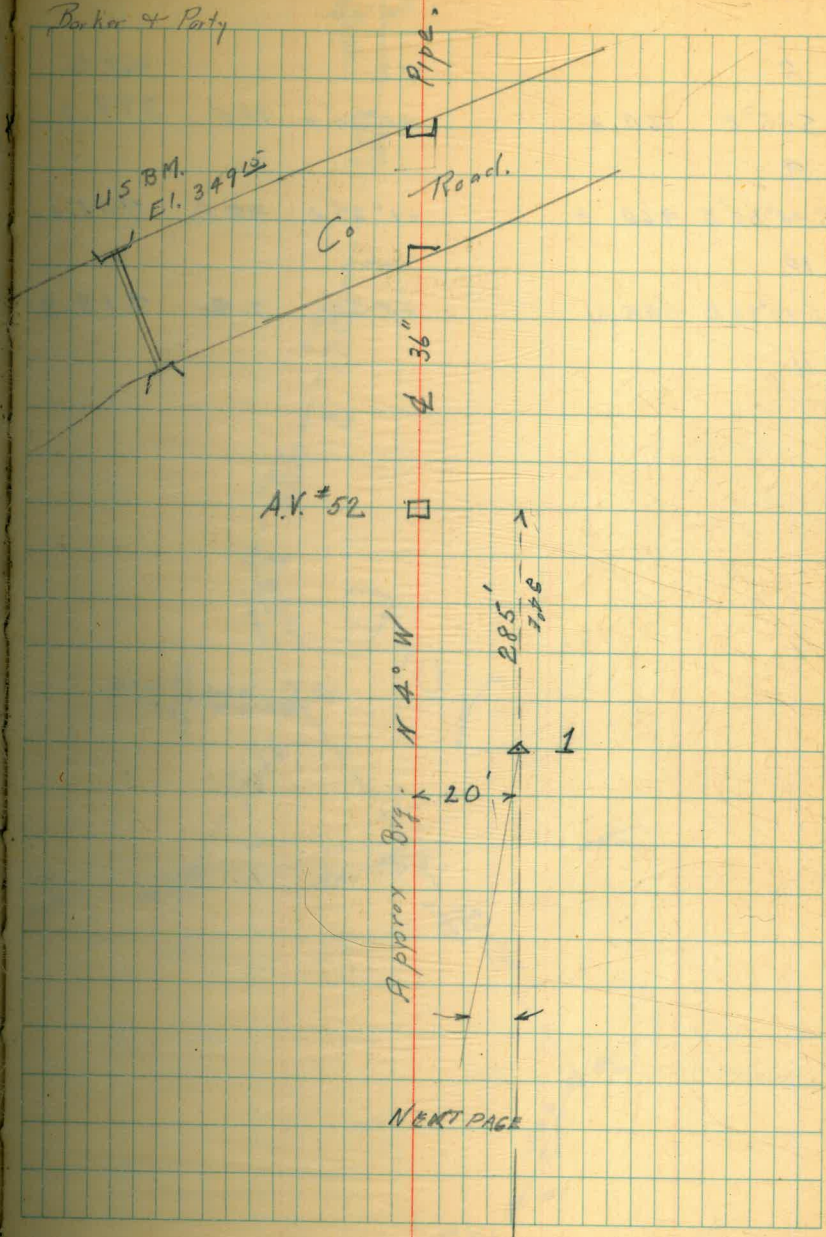
U.S.G.S DATUM No. CORRECTION MADE

Stadia Survey - Co. Road to Filter Plant

Point	Dist	Hor	Diff.	Elev
BS at US BM			349.15 US BM	
1-B.M	652°	-3°45'	42.5	391.7
1			391.7	391.7
S 28°W	830' Back 825' For.	+9°20' B -9°22' A	62.2	329.5
2				
S 33°W	338' B 336' A	+14°48' B -14°40' A	82.5	247.0
3				
S 37°W	650' B 650' A	-0°25' B +0°25' A	9.7	251.7
4				
S 12°W	190' B 190' A	-2°33' B +2°34' A	8.5	260.2
5				
S 41°W	420° A	-11°13' A		
BOTTOM CANYON SIDE SALT				
5				
S 10°W	1100' B 1090' A	-4°15' B +4°13' A	80.5	340.7
6				
S 9°W	300' B 300' A	-3°02' B +3°01' A	15.7	356.4
7				
S 31°N	455' B 450' A	-1°10' B +1°09' A	11.2	367.6
8				
S 55°W	100'	LEVEL		
BOX A.V. #54				

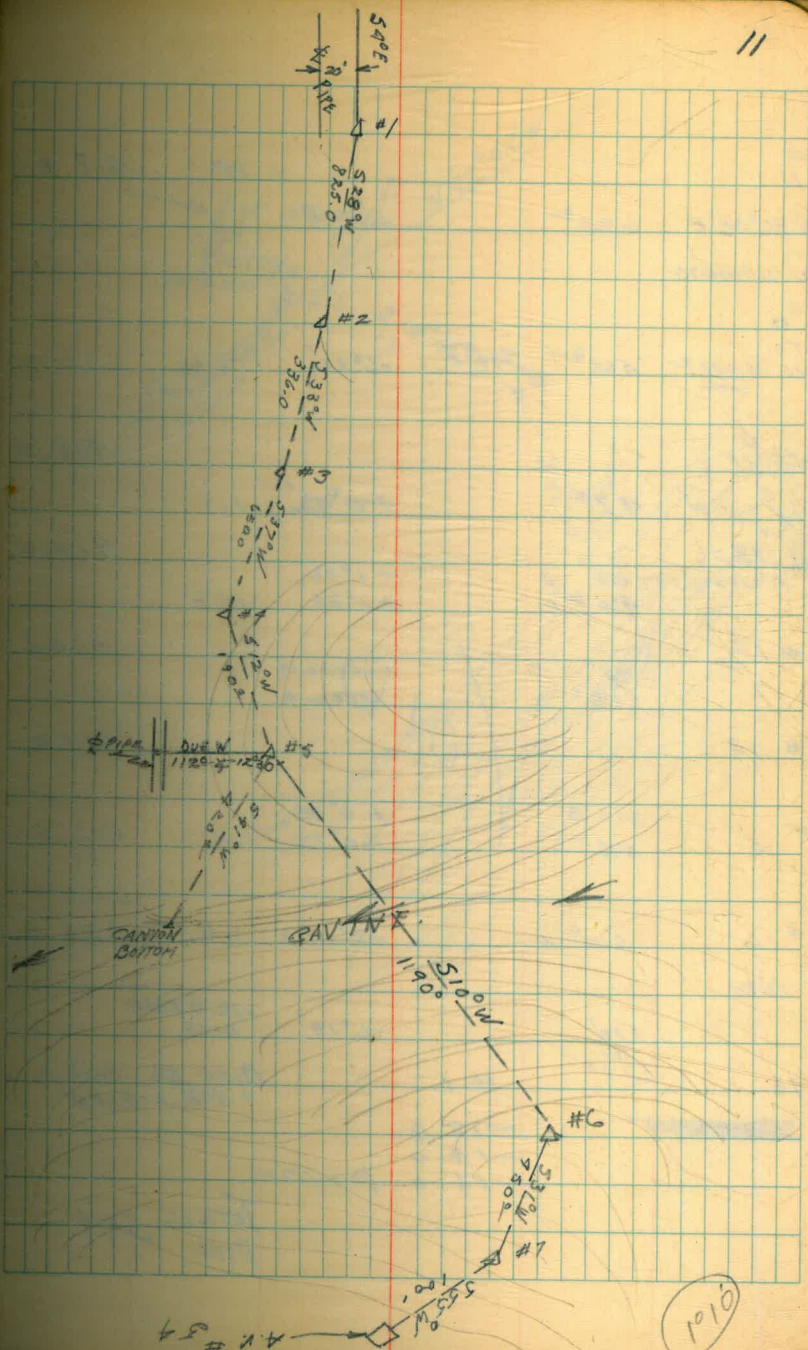
Dec. 20th 41
Dunker & Party

10



8			367.6
S35°E	460 A	+1°00' A	11.5 379.1
9			
S45°30'E	960 A	+1°55' A	32.0 411.1
10			
S51°30'E	495 A	+0°50'	7.2 418.3
11			

VOID



11 418.3
 S 36° 30' E 620' +5° 55'
 STA 101140.70
 # 4
 TO
 STA 101140.2 565' S 44° E +6° 21'

11 418.3
 S 14° 30' W 92' +0° 42' 1.1

12 = 419.4
 A' LINE 106147.420 B
 420' A -1° 32'
 +1° 30' 11.0

13 430.4
 555' B
 555' A LEVEL B
 LEVEL A

14 430.4
 10'

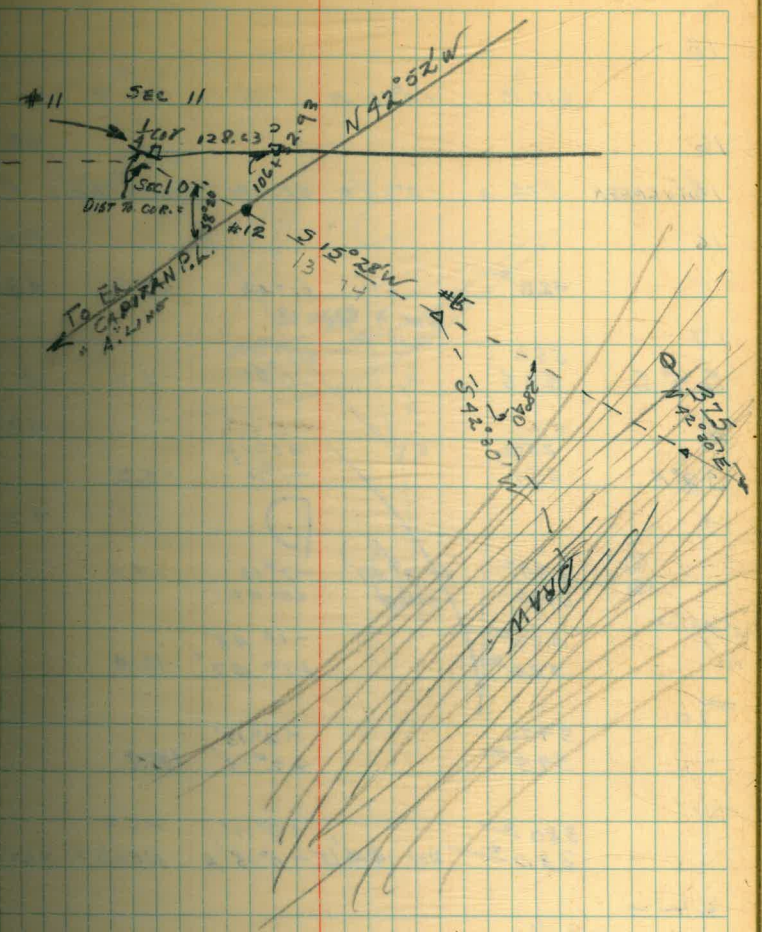
15 426.4
 393 B
 395' A +0° 35'
 -0° 35' -4.0

16 424.6
 610' A -0° 10' A 1.8

15 to
 170'
 76
 240' H.I. -12.0 FROM DIFF.

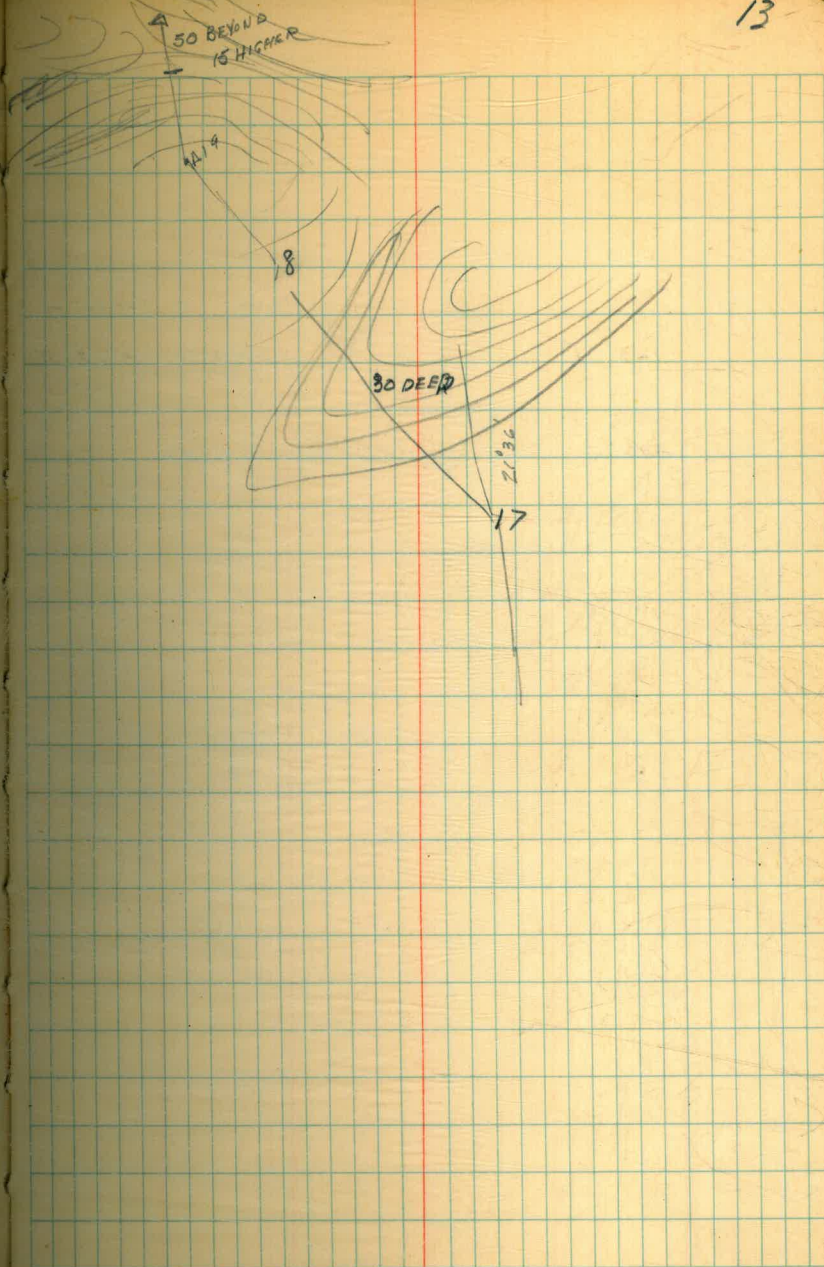
1A DIFF = 368.6
 +400 = ELEV
 -12.0
 -14.0
 -14.0 BOTTOM.

TOTAL = 58.4
 DIFF



15	610 ⁰ B	+0°10' A			
16					424.6
16	16 TO CREEK 375 A	-2°34' A	28°40' RT.	-16.8 NEEDLE N 42°30' E	407.8
16					424.6
	128 ⁰		+1°49'	13.6	128.2
17	532	HOR. 21° 36' LT.	+0°50'		-77
58° E	535		-0°51'	-7.7	4
18	250		+10°12'		430.5
58° E	254		-1°11'	-5.2	
19					425.3
①	239°	L 38° 37' LINE	-7°10'	29.0	
②	371°		LEVEL		
CANYON	520°		-10°48'		
#1	526°		+1°47'	16.4	
#20	392		-2°13'		
21	395		+2°14'	15.4	
21	380 ⁰		+0°17'	-2.0	
	380 ⁰	HOR. 19°45' LT.	-0°18' A	NEED = S 21° E	

22 =
67 + 33^{50'} 2"
LINE
FOCAL POINT.



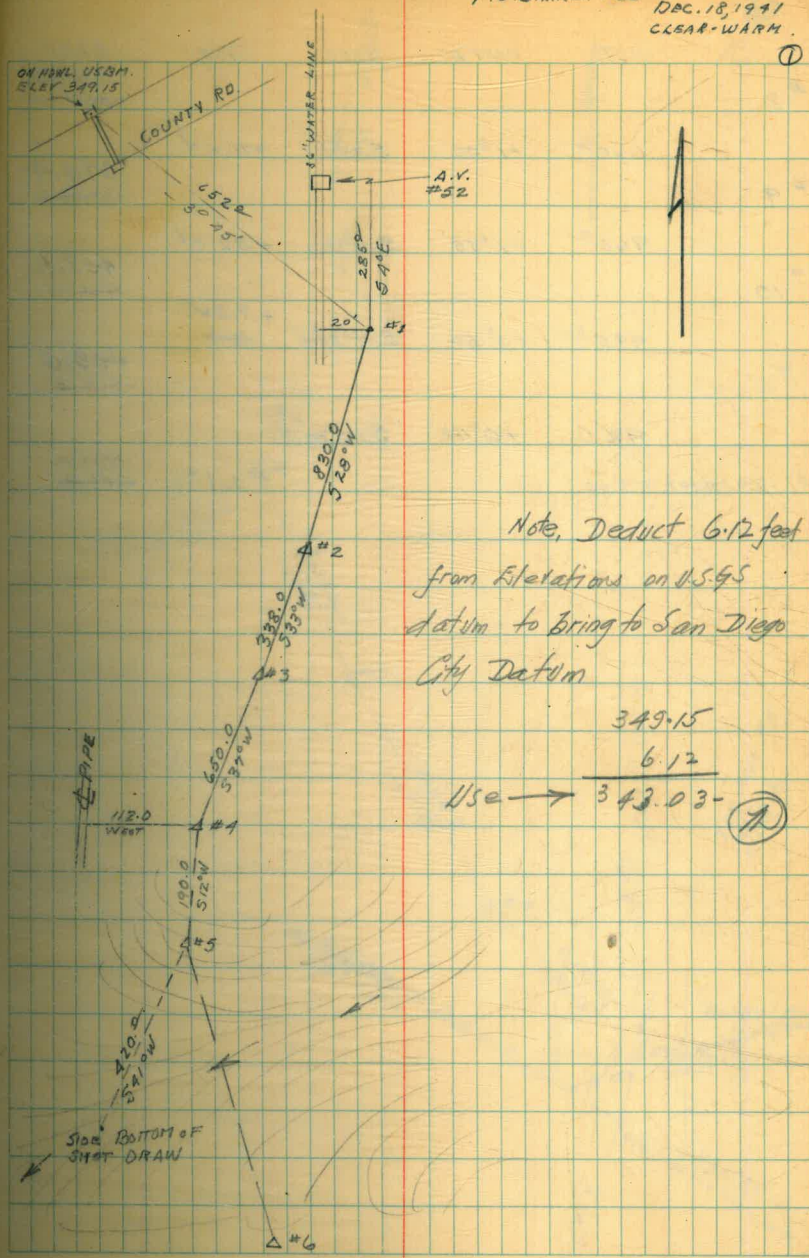
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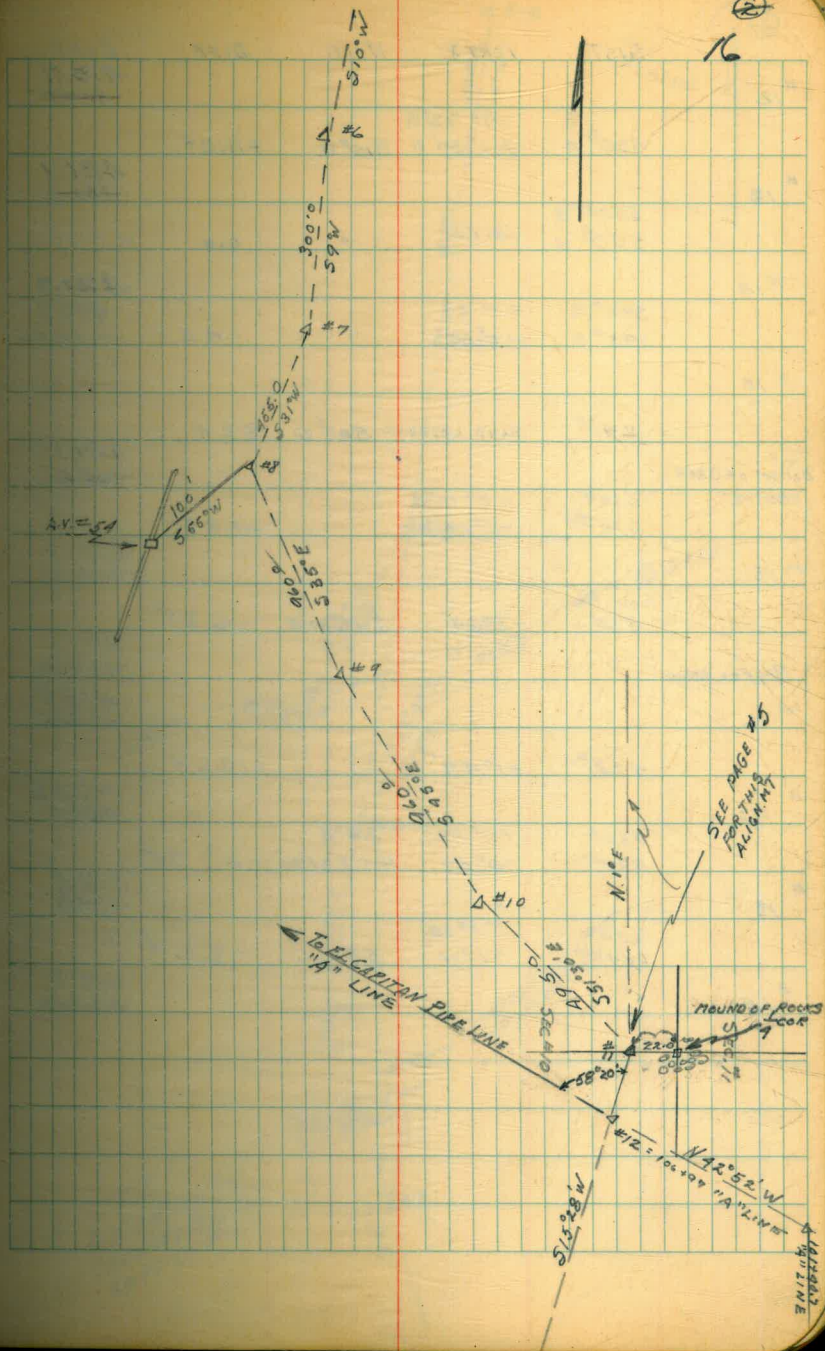
STADIA SURVEY Co. Rd TO FILTER PLANT

USING U.S.G.S. DATUM No. CORRECTION

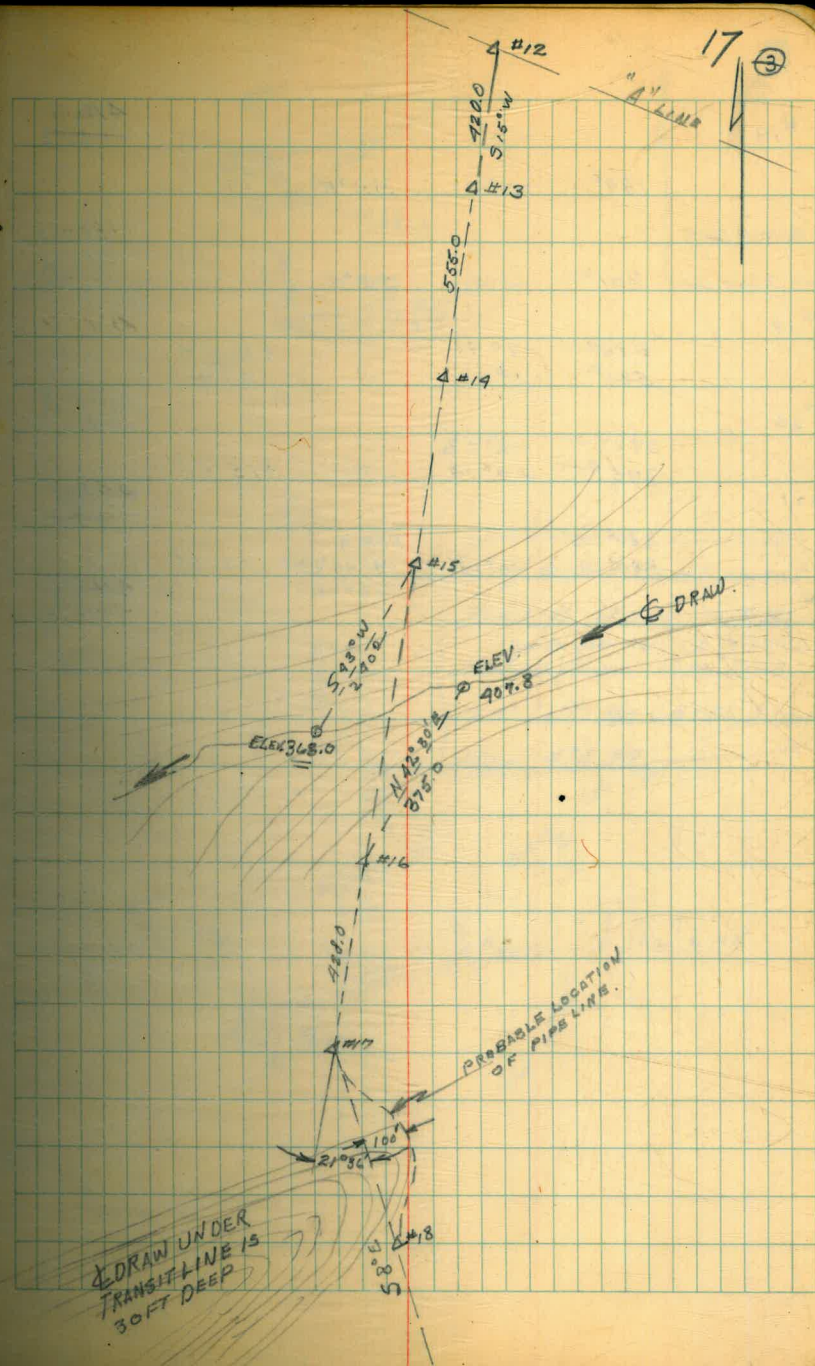
	DIST	VERT	NEEDLE	DIFF	ELEV.
B.M. ON HWYL.					343.03 349.15
#1	652 ^A	+3°45'		+42.5 ✓	385.5' 391.4
	830° ^B	+4°20'		-62.7	
#2	825° ^A	-4°22'	S 28°W	62.2	322.8' 329.5
	338° ^B	+14°23'			
#3	336° ^A	-14°40'	S 33°W	82.5 ✓	240.3 247.0
	650° ^B	-0°25'B			
#4	650° ^A	+0°25'A	S 37°W	+4.7 ✓	245.0 251.7
	190° ^B	-2°33'B			
#5	190° ^A	+2°34'A	S 12°W	+8.5 ✓	253.5 262.0
	420°	-11°13'	S 41°W	-80.5 ✓	173.0 179.7
BOTTOM DRAW SIDE SHOT					
#5 to E PIPE	112.0	-12°30'	DUE WEST	-23.7 ✓	229.8 236.5
	1100° ^B	-4°15'B			
#6	1090° ^A	+4°13'A	S 10°W	+80.5 ✓	334.0 346.4
	300° ^B	-3°02'B			
#7	300° ^A	+3°01'A	S 9°W	+15.7 ✓	349.7 356.4
	465° ^B	-1°06'B			
#8	450° ^A	+1°09'A	S 31°W	+92 ✓	358.9 367.6
	100° ^A	LEVEL	S 55°W		
A.V. #54					



	DIST.	VERT	NEED	DIFF	ELEV
# 8					358.9 367.4
# 9	660°	+1°00'	S35°E	+11.5✓	370.4 377.1
# 10	960°	+1°55'	S46°E	+32.0✓	402.4 411.1
# 11	495°	+0°50'	S51°30'E	+7.2✓ 7.7	409.6 418.3
	92.0	+0°42'	S14°30'W		410.7 419.4
# 12 = 106197 "A" LINE				+1.1°	419.4



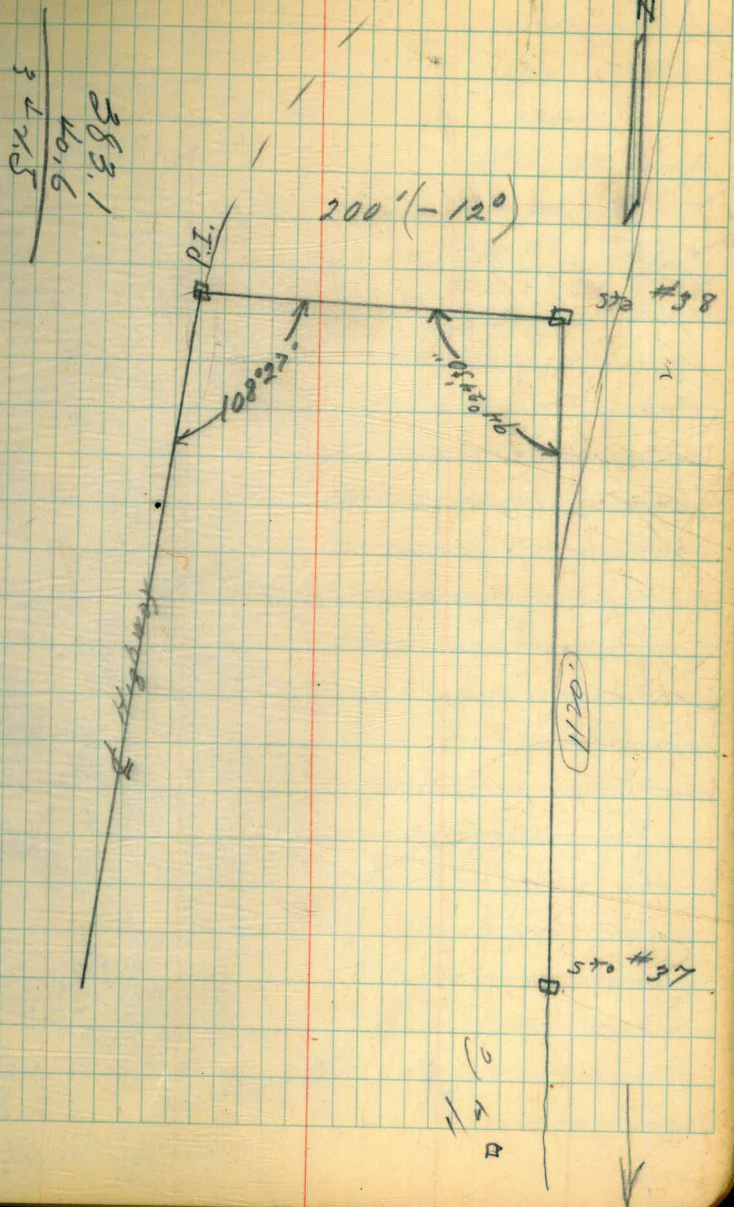
	DIST	VERTY	NEED	DIFF.	ELEV.
#12					410.7 419.4
	420° ^B A	-1° 32' B +1° 30' A	515° W	+11.0	
#13					421.7 430.4
	550° ^B A	LEVEL	"	0.0	
#14					421.7 417.7 426.4
	393° B 395° A	+0° 35' -0° 35'	"	-1.0	
#15					
To	240°	HAND. LEVELLED	543° W	-58.4	359.3 368.0
Bottom of DRAW					
FROM #15	610° 610°	+0° 10' B -0° 10' A		-1.8	
#16					415.9 424.6
	375	-2° 34'	N42° 30' E	-16.8	
BACK to DRAW					399.1 407.8
#16					415.9 424.6
	428°	+1° 49'		+13.6	
#17					429.5 424.5
	532° 535°	+0° 50' -0° 50'	58° E Hor. X 21° 36' Lt.	-7.7	
#18					421.8 430.5
	252° 254°	+1° 12' -1° 11'	58° E	-5.2	
#19					416.5 425.2



STADIA SURVEY No. FROM $\frac{1}{4}$ COR. SEC. #10 1/2 11

	DIST	VERT \angle	NEEDLE	DIFF	ELEV
22' N. $\frac{1}{4}$ COR. # 11					409.6 415.2
# 30	105° B	-0° 52' B	N 0° 30' E	+1.6 ✓	411.2
# 31	305° B 303° A	+0° 59' B -0° 59' A	N 0° 30' E	-5.2 ✓	406.0
# 32	635° B 638° A	+0° 40' B -0° 40' A	"	-7.4 ✓	398.6
# 33	765° B 765° A	+3° 50' B -3° 55' A	"	-51.5 -56.2	347.1
# 34	820° B 820.2 A	+0° 45' B -0° 50' A	"	-11.7 -11.0	335.4
FROM # 34 back to	58°	LEVEL	S 55° W HOR. \angle 54° 23'	0	335.4
6" CONC MON. SEC. COR. to	765° B 770° A	-0° 42' B +0° 40' A	DUE NORTH	+9.4 ✓	344.5
# 35	1460 B 1440 A	-1° 00' B +1° 00' A	"	+25.3	369.8
# 36	1870 B 187° A	-4° 06' B +4° 06' A	"	+13.3 ✓	383.1
# 37					

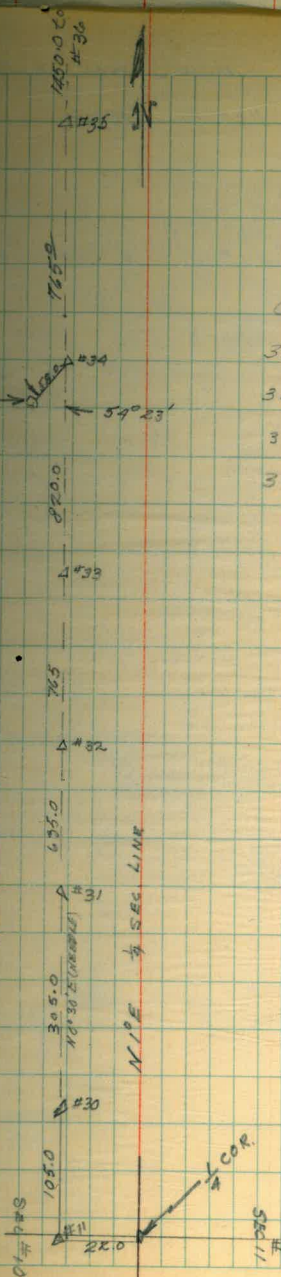
Messersmith
 & Melhorn
 P.S. Barker Jr.
 Dec. 24, 1941



STADIA SURVEY No FROM $\frac{1}{4}$ COR. SEC #10 1/2 11

	DIST	VERT $\frac{1}{2}$	NEEDLE	DIFF	ELEV
# 11	105° B	-8° 52' B	N 0° 30' E	+1.6 ✓	409.6 411.2
# 30	305° B 303° A	+0° 59' B -0° 59' A	N 0° 30' E	-5.2 ✓	406.0
# 31	550 1430 635° B 638° A	+0° 40' -0° 40' A	"	-7.4 ✓	398.6
# 32	765° B 765° A	+3° 50' B -3° 55' A	"	-51.5 -50.2	347.1
# 33	820° B 820.2 A	+0° 48' -0° 50' A	"	-11.7 -11.0	335.4
FROM # 34 back to	58°	LEVEL	S 55° W HOR. $\frac{1}{2}$ 5423	0	335.4
6" CONC MON. SEC. COR.	765° B 770° A	-0° 42' B +0° 40' A	DUE NORTH	+9.4 ✓	344.5
# 35	1460 B 1440 A	-1° 00' B +1° 00' A	"	+25.3	369.8
# 36	1870 B 187° A	-4° 06' +4° 06' A	"	+13.3 ✓	383.1
# 37					

(5)



check 30 to 34

33 to 34 = 820 ✓

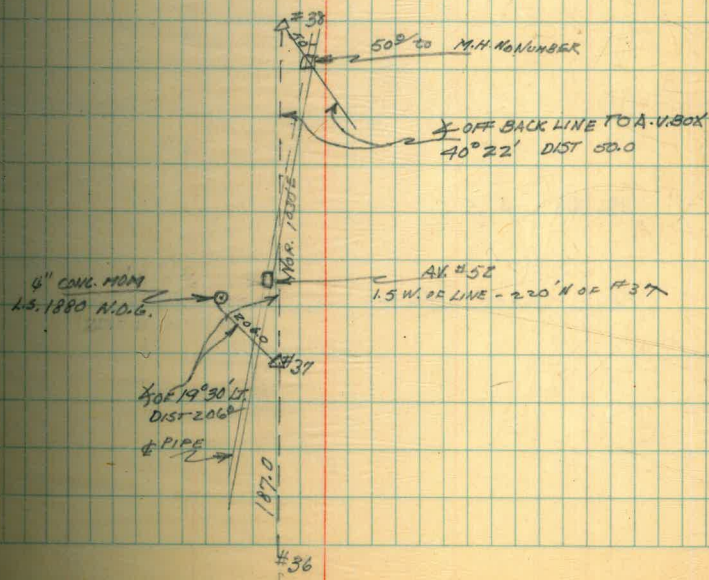
32 to 33 = 762 ✓

31 to 32 = 640 ✓

30 to 31 =

STADIA SURVEY No FROM $\frac{1}{4}$ COR SECTION

STA	DIST	VERTX	needle	DIFF	ELEV
# 37	1120 ^B	-1°00'B			383.1
	1120 ^A	+1°00'A	N1°30'E	+19.6	
# 38					402.7



Item #6

D_1

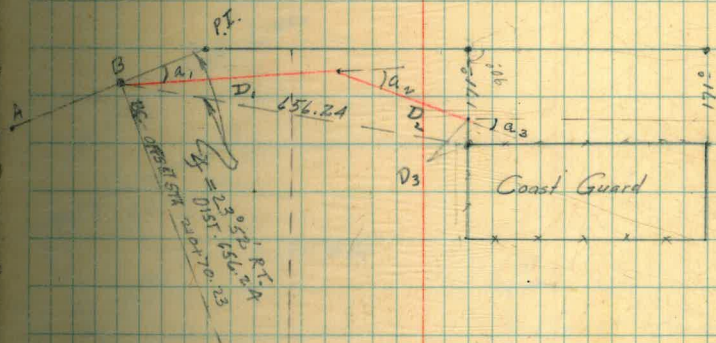
D_2

D_3

a_1

a_2

a_3



Double 7 5

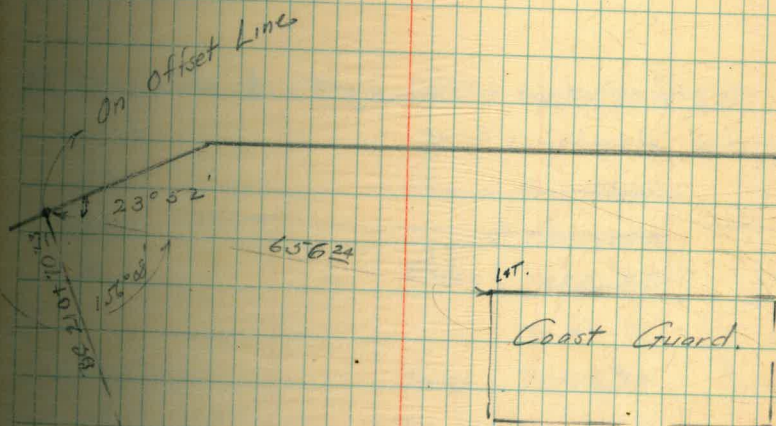
Mean dists twice

Dist north 171
 Dist north D_3
 Dist north a_1
 Dist north a_2
 Dist north a_3
 Dist north D_1
 Dist north D_2
 Dist north D_3

86 27 Item #6

25 52

62 3 5



WEST to EAST					
Sta	B.S.	I	F.S.	Elev	Time
	4.78	6.91			B.M. 0.74
					B.M. 1.13
Water level			13.19		- 6.28
			13.30		- 6.39

AUG-8-1942

party

Whites
 Jacks
 Reid
 Banks

300 paces #66 - Rock 1.5-6 F.M.
 - the E end of curb opposite Stack side
 at 1:40 pm
 - at 2:52 pm

88.0
 4.25
 13.30

Angles taken from p.I. E of Harbor T		
Sounding	Angle	Time
#1	31.56	1.48
#2	39.48	1.50
#1	33-30	1.54
#2	39-46	1.56
#3	43-53	1.57
#4	50-49	1.58
#5	54-52	2.00
#6	61-17 ✓	2.01
#7	70-32 ✓	2.03
#8	72.31 ✓	2.04
#9	76.56 ✓	2.05
#10	79-00 ✓	2.06
#11	82.46 ✓	2.07
#12	86-03 ✓	2.09
#13	88.16	2.10

as described from Book F.W.G.#2 page # 55

Reid - Lineman
 Jacks - observer
 Whites - Recorder
 Boat
 Jacks - Recorder
 Banks - Sounding

	Azimuth	Time
#14	89°-10' ✓	2.11
#15	83°-24' ✓	2.13
#16	79°-17' ✓	2.15
#17	77°-01' ✓	2.16
#18	76°-53' ✓	2.18
#19	69°-43' ✓	2.20
#20	65°-12' ✓	2.22
#21	57°-56' ✓	2.23
#22	51°-02' ✓	2.25
#23	46-45 ✓	2.27
#24	46-42 ✓	2.28
#25	38°-15' ✓	2.29
#26	38°-42'	2.30

on return East to West

Δ - 30 - 34 - 55"
 R 5100 = # of Hwy
 R 5190 = # of pipe
 R 5196 offset
 B.C. Sta now = 184 + 84
 E.C. now = 188 + 09
 E.C. on tangent = 2576.07

start of sta 174+00
 Change to 176+00



8-14-1942

Sta	BS	IT	FS	Rod	
	3.91	6.29			2.38
					+2.38
123+69 ²⁰				9.51	-3.22
122+50	checks only			3.15	3.14
122+20	check only			2.24	4.05
	2.24	6.29			4.05
			3.91		2.38
			7.70		-1.41

 50
 19.2
 19

unit #6
 check on pipe Elev. as said
 = top of 16" pipe on West side of channel

note pipe of 12" diam that crosses
 present 16" pipe could not be
 found

 7.70
 6.29
 -1.41

Instrument Hit at 1.37 P.M. Aug-11-1942 Was Hit by foul Ball
140-76 177-100-100 - 2 St. Ball 1942

1400
580

820

14100
250
1120

130
5
9

1000
5280

105
305
635
765
1010
850
160

200
250
4000
2000
40036
21 3600
1000

179 60
125 37
54 23

210+70 23
23052' LT.
656.24 to LEAD + tk.

12.65

0.71

17.94

.88

12.82

12.32

25.14

7.25

17.89

12.52

5.22

7.30

17.38

17.81

5.57