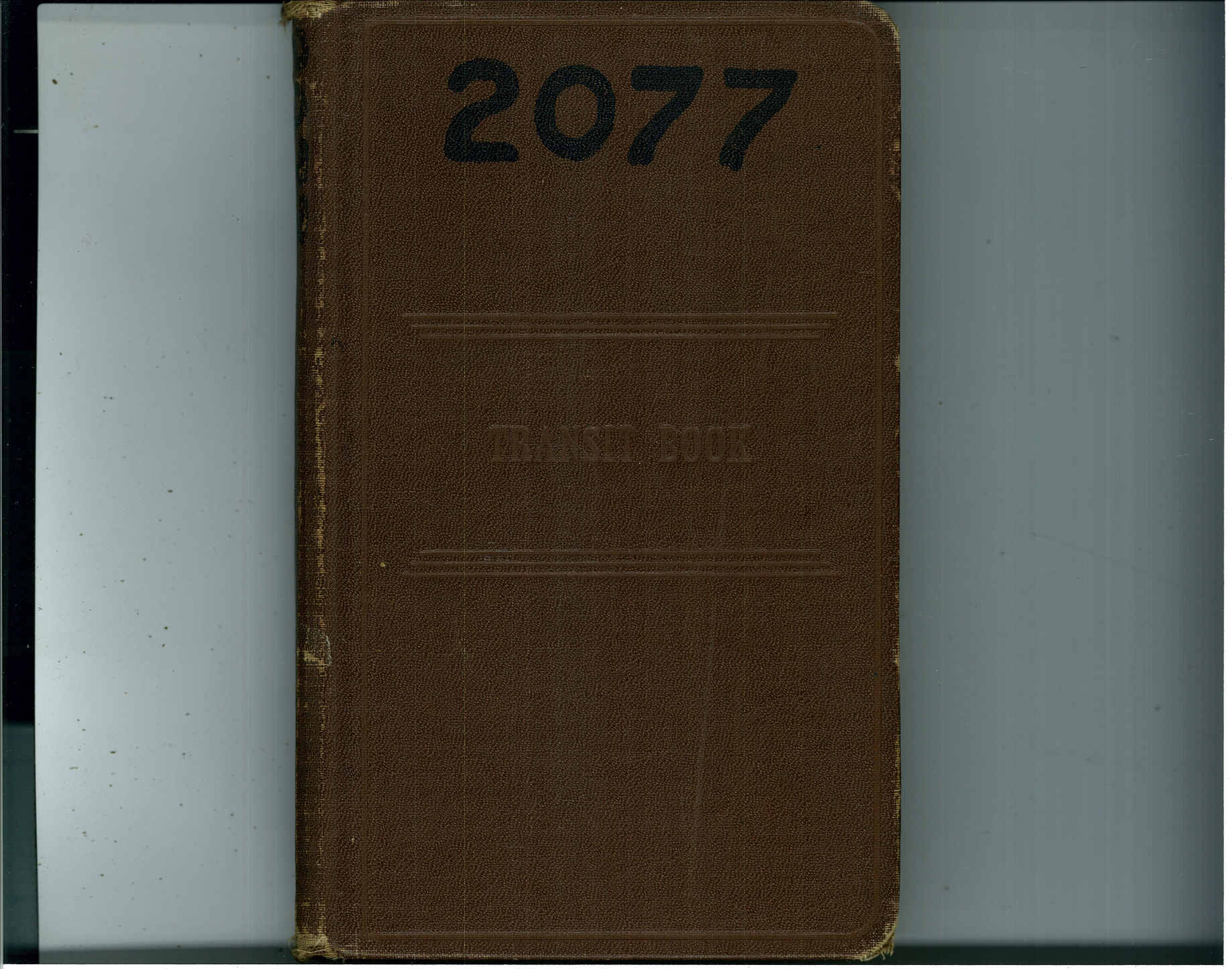
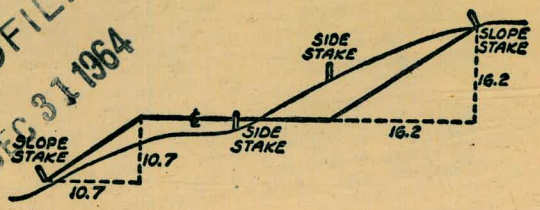

2077
TRANSFER BOOK



Distances from Side Stakes for Cross-Sectioning

Slope 1 to 1. Roadway of Any Width

	0	.1	.2	.3	.4	.5	.6	.7	.8	9	
0	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0
1	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	1
2	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	2
3	3.00	3.10	3.20	3.30	3.40	3.50	3.60	3.70	3.80	3.90	3
4	4.00	4.10	4.20	4.30	4.40	4.50	4.60	4.70	4.80	4.90	4
5	5.00	5.10	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90	5
6	6.00	6.10	6.20	6.30	6.40	6.50	6.60	6.70	6.80	6.90	6
7	7.00	7.10	7.20	7.30	7.40	7.50	7.60	7.70	7.80	7.90	7
8	8.00	8.10	8.20	8.30	8.40	8.50	8.60	8.70	8.80	8.90	8
9	9.00	9.10	9.20	9.30	9.40	9.50	9.60	9.70	9.80	9.90	9
10	10.00	10.10	10.20	10.30	10.40	10.50	10.60	10.70	10.80	10.90	10
11	11.00	11.10	11.20	11.30	11.40	11.50	11.60	11.70	11.80	11.90	11
12	12.00	12.10	12.20	12.30	12.40	12.50	12.60	12.70	12.80	12.90	12
13	13.00	13.10	13.20	13.30	13.40	13.50	13.60	13.70	13.80	13.90	13
14	14.00	14.10	14.20	14.30	14.40	14.50	14.60	14.70	14.80	14.90	14
15	15.00	15.10	15.20	15.30	15.40	15.50	15.60	15.70	15.80	15.90	15
16	16.00	16.10	16.20	16.30	16.40	16.50	16.60	16.70	16.80	16.90	16
17	17.00	17.10	17.20	17.30	17.40	17.50	17.60	17.70	17.80	17.90	17
18	18.00	18.10	18.20	18.30	18.40	18.50	18.60	18.70	18.80	18.90	18
19	19.00	19.10	19.20	19.30	19.40	19.50	19.60	19.70	19.80	19.90	19
20	20.00	20.10	20.20	20.30	20.40	20.50	20.60	20.70	20.80	20.90	20
21	21.00	21.10	21.20	21.30	21.40	21.50	21.60	21.70	21.80	21.90	21
22	22.00	22.10	22.20	22.30	22.40	22.50	22.60	22.70	22.80	22.90	22
23	23.00	23.10	23.20	23.30	23.40	23.50	23.60	23.70	23.80	23.90	23
24	24.00	24.10	24.20	24.30	24.40	24.50	24.60	24.70	24.80	24.90	24
25	25.00	25.10	25.20	25.30	25.40	25.50	25.60	25.70	25.80	25.90	25
26	26.00	26.10	26.20	26.30	26.40	26.50	26.60	26.70	26.80	26.90	26
27	27.00	27.10	27.20	27.30	27.40	27.50	27.60	27.70	27.80	27.90	27
28	28.00	28.10	28.20	28.30	28.40	28.50	28.60	28.70	28.80	28.90	28
29	29.00	29.10	29.20	29.30	29.40	29.50	29.60	29.70	29.80	29.90	29
30	30.00	30.10	30.20	30.30	30.40	30.50	30.60	30.70	30.80	30.90	30
31	31.00	31.10	31.20	31.30	31.40	31.50	31.60	31.70	31.80	31.90	31
32	32.00	32.10	32.20	32.30	32.40	32.50	32.60	32.70	32.80	32.90	32
33	33.00	33.10	33.20	33.30	33.40	33.50	33.60	33.70	33.80	33.90	33
34	34.00	34.10	34.20	34.30	34.40	34.50	34.60	34.70	34.80	34.90	34
35	35.00	35.10	35.20	35.30	35.40	35.50	35.60	35.70	35.80	35.90	35
36	36.00	36.10	36.20	36.30	36.40	36.50	36.60	36.70	36.80	36.90	36
37	37.00	37.10	37.20	37.30	37.40	37.50	37.60	37.70	37.80	37.90	37
38	38.00	38.10	38.20	38.30	38.40	38.50	38.60	38.70	38.80	38.90	38
39	39.00	39.10	39.20	39.30	39.40	39.50	39.60	39.70	39.80	39.90	39
40	40.00	40.10	40.20	40.30	40.40	40.50	40.60	40.70	40.80	40.90	40
41	41.00	41.10	41.20	41.30	41.40	41.50	41.60	41.70	41.80	41.90	41
42	42.00	42.10	42.20	42.30	42.40	42.50	42.60	42.70	42.80	42.90	42
43	43.00	43.10	43.20	43.30	43.40	43.50	43.60	43.70	43.80	43.90	43
44	44.00	44.10	44.20	44.30	44.40	44.50	44.60	44.70	44.80	44.90	44
45	45.00	45.10	45.20	45.30	45.40	45.50	45.60	45.70	45.80	45.90	45
46	46.00	46.10	46.20	46.30	46.40	46.50	46.60	46.70	46.80	46.90	46
47	47.00	47.10	47.20	47.30	47.40	47.50	47.60	47.70	47.80	47.90	47
48	48.00	48.10	48.20	48.30	48.40	48.50	48.60	48.70	48.80	48.90	48
49	49.00	49.10	49.20	49.30	49.40	49.50	49.60	49.70	49.80	49.90	49
50	50.00	50.10	50.20	50.30	50.40	50.50	50.60	50.70	50.80	50.90	50

Distance of slope stake from side or shoulder stake for any width roadway, slope 1 to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope stake. If ground is not level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut or fill and find distance in table. Set up rod at this point, and line of sight should cut target. If it does not make the slight adjustment necessary.

DIRECTIONS FOR USE OF TABLES

TABLE No. XIV

Distance of slope stake from side or shoulder stake for any width roadway, slope 1½ to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope stake. If ground is not level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut or fill and find distance in table. Set up rod at this point, and line of sight should cut target. If it does not make the slight adjustment necessary.

TABLE No. VIII

To find Tangent and External for curve of any other degree, divide by degree of curve and add correction found in column of corrections. Degree of curve with a given I may be found by dividing tangent, (or external), opposite I by given tangent, (or external).

The distance from a point on the tangent to the curve is very nearly the square of the tangent length divided by twice the radius.

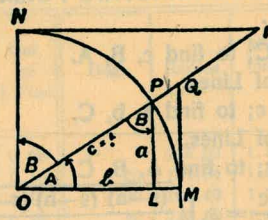


TABLE II

TRIGONOMETRIC FORMULÆ.

$\angle A = \angle MOP \qquad \angle B = \angle PON = \angle OPL$

$R = OB = c = 1$

$$\sin A = \frac{a}{c} = \frac{a}{1} = a = \text{sos } B = LP$$

$$\text{sos } A = \frac{b}{c} = \frac{b}{1} = b = \sin B = OL$$

$$\tan A = \frac{a}{b} = \frac{MQ}{OM} = \frac{MQ}{1} = MQ = \cot B = MQ$$

$$\cot A = \frac{NT}{ON} = \frac{NT}{1} = NT = \tan B = NT$$

$$\sec A = \frac{OQ}{OM} = \frac{OQ}{1} = OQ = \csc B = OQ$$

$$\csc A = \frac{OT}{ON} = \frac{OT}{1} = OT = \sec B = OT$$

$$\text{vers } A = \frac{LM}{OP} = LM = \text{covers } B$$

$$\text{covers } A = \frac{OP - LP}{OP} = OP - LP = \text{vers } B$$

$$\text{exsec } A = PQ = \text{coexsec } B$$

$$\text{coexsec } A = PT = \text{exsec } B$$

$$\sin \tfrac{1}{2} A = \sqrt{\frac{1 - \text{Cos } A}{2}} \qquad \cos \tfrac{1}{2} A = \sqrt{\frac{1 + \text{Cos } A}{2}}$$

$$\sin 2A = 2 \sin A \cos A \qquad \cos 2A = \cos^2 A - \sin^2 A$$

$$\text{Law of Lines} \quad \frac{\sin A}{a} = \frac{\sin B}{B} = \frac{\sin C^1}{C}$$

$$\text{Law of Cosines} \quad c^2 = a^2 + b^2 - 2ab \cos C$$

$$\text{Law of Tangents} \quad \frac{a+b}{a-b} = \frac{\tan \tfrac{1}{2}(A+B)}{\tan \tfrac{1}{2}(A-B)}$$

TABLE XIII—CORRECTIONS FOR TANGENTS AND EXTERNALS

These corrections are to be added to the approximate values, found by dividing the tangent, or external, for a 1° curve (Table VIII) by the degree of curve, in order to obtain the true tangents, or externals. Intermediate values may be obtained by interpolation.

FOR TANGENTS ADD

Central Angle	Degree of Curve													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	03	.06	09	13	16	19	.22	.25	.28	.31	34	38	42	.46
15°	04	10	14	19	24	.29	.34	.39	45	.51	.53	58	.63	.68
20°	06	.13	19	.26	.32	.39	.45	.51	.58	.65	.72	79	.84	.90
25°	.08	16	24	.33	40	49	.58	67	.75	.83	90	.99	1.06	1.14
30°	10	19	.29	39	49	.59	.69	79	.89	.99	1.09	1.20	1.29	1.39
35°	11	22	.34	47	.58	.69	.70	.81	.92	1.04	1.29	1.42	1.54	1.66
40°	13	.26	.40	.53	.67	.80	.93	1.06	1.20	1.34	1.49	1.64	1.79	1.94
45°	15	.30	44	60	76	91	1.06	1.21	1.37	1.52	1.70	1.87	2.04	2.21
50°	17	.34	.51	.68	.85	1.02	1.19	1.36	1.54	1.72	1.91	2.10	2.29	2.48
55°	19	38	.57	76	.95	1.14	1.32	1.52	1.72	1.92	2.14	2.35	2.56	2.77
60°	21	42	.63	.84	1.05	1.27	1.49	1.71	1.94	2.17	2.38	2.60	2.83	3.07
65°	23	46	.69	.93	1.16	1 40	1.64	1.88	2.13	2.38	2.63	2.88	3.13	3.39
70°	25	.51	76	1.02	1.28	1.54	1.80	2.06	2.33	2.60	2.88	3.16	3.44	3.72
75°	.27	.56	83	1.12	1.40	1.69	1.98	2.27	2.57	2.87	3.16	3.47	3.78	4.09
80°	30	.61	91	1.22	1.53	1.84	2.15	2.46	2 78	3.10	3.44	3.78	4.12	4.46
85°	33	66	1.00	1.33	1.68	2.02	2.36	2 70	3.05	3.40	3.77	4.14	4.55	4 89
90°	36	.72	1.09	1.45	1.83	2.20	2.57	2.94	3.32	3.70	4.10	4.50	4.91	5.32
95°	39	79	1.19	1.55	2.00	2.40	2.80	3.20	3.61	4.02	4.40	4.98	5.38	5.83
100°	43	.86	1.30	1.74	2.18	2.62	3.06	3.50	3.95	4.40	4.88	5.37	5.85	6.34
110°	51	1.03	1.56	2.08	2.61	3.14	3.67	4.21	4 76	5.31	5 86	6.43	7 01	7 60
120°	62	1.25	1 93	2.52	3.16	3.81	4 45	5.11	5.77	6 44	7 12	7.80	8.50	9 22

FOR EXTERNALS ADD

Central Angle	Degree of Curve													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	.001	.003	.004	.006	.007	.008	.009	.011	.012	.014	.015	.017	.018	.020
15°	.003	.007	.010	.014	.018	.023	.027	.029	.032	.035	.039	.043	.047	.051
20°	.006	.011	.017	.022	.028	.034	.038	.045	.051	.057	.063	.070	.076	.083
25°	.009	.018	.027	036	.046	.056	.065	.074	.083	.093	.106	120	127	135
30°	.013	.025	.038	.051	.065	.078	.090	.103	.116	.129	.149	.170	.179	.188
35°	.018	.035	.054	.072	.086	.109	.131	.153	.175	.197	.213	.230	.247	.264
40°	.023	.046	.070	.093	.117	.141	.172	.203	.234	.265	.277	.290	.315	.341
45°	.030	.060	.093	.119	.153	.184	.216	.254	.289	.325	.351	.378	.411	.445
50°	.037	.075	.116	.151	.189	.227	.266	.305	.345	.384	.425	.467	.508	.550
55°	.046	.093	.142	.188	.236	.283	.332	.381	.420	.479	.530	.582	.641	.700
60°	.056	.112	.168	.225	.283	.340	.398	.457	.516	.575	.636	.697	.774	.851
65°	.067	.135	.204	.273	.343	.412	.483	.554	.625	.697	.711	.845	.922	1.01
70°	.080	.159	.240	.321	.403	.485	.568	.652	.735	.819	.906	.994	1.08	1.17
75°	.095	.182	.286	.383	.480	.578	.678	.777	.877	.977	1.07	1.18	1.29	1.39
80°	.110	.220	.332	.445	.558	.671	.787	.903	1.02	1.13	1.25	1.38	1.50	1.62
85°	.128	.259	.391	.524	.657	.790	.926	1.06	1.20	1.34	1.47	1.62	1.76	1.91
90°	.149	.299	.450	.603	.756	.910	1.07	1.22	1.38	1.54	1.70	1.87	2.03	2.20
95°	.174	.350	.522	.706	.985	1.06	1.25	1.43	1.62	1.80	1.99	2.18	2.38	2.58
100°	.200	.401	.604	.809	1.01	1.22	1.43	1.64	1.85	2.06	2.28	2.50	2.73	2.96
110°	.268	.536	.806	1.08	1.35	1.63	1.91	2.20	2.48	2.76	3.05	3.35	3.66	3.96
120°	.360	.721	1.08	1.45	1.82	2.19	2.57	2.95	3.33	3.72	4.11	4.50	4.91	5.32

INDEX

1

Page -

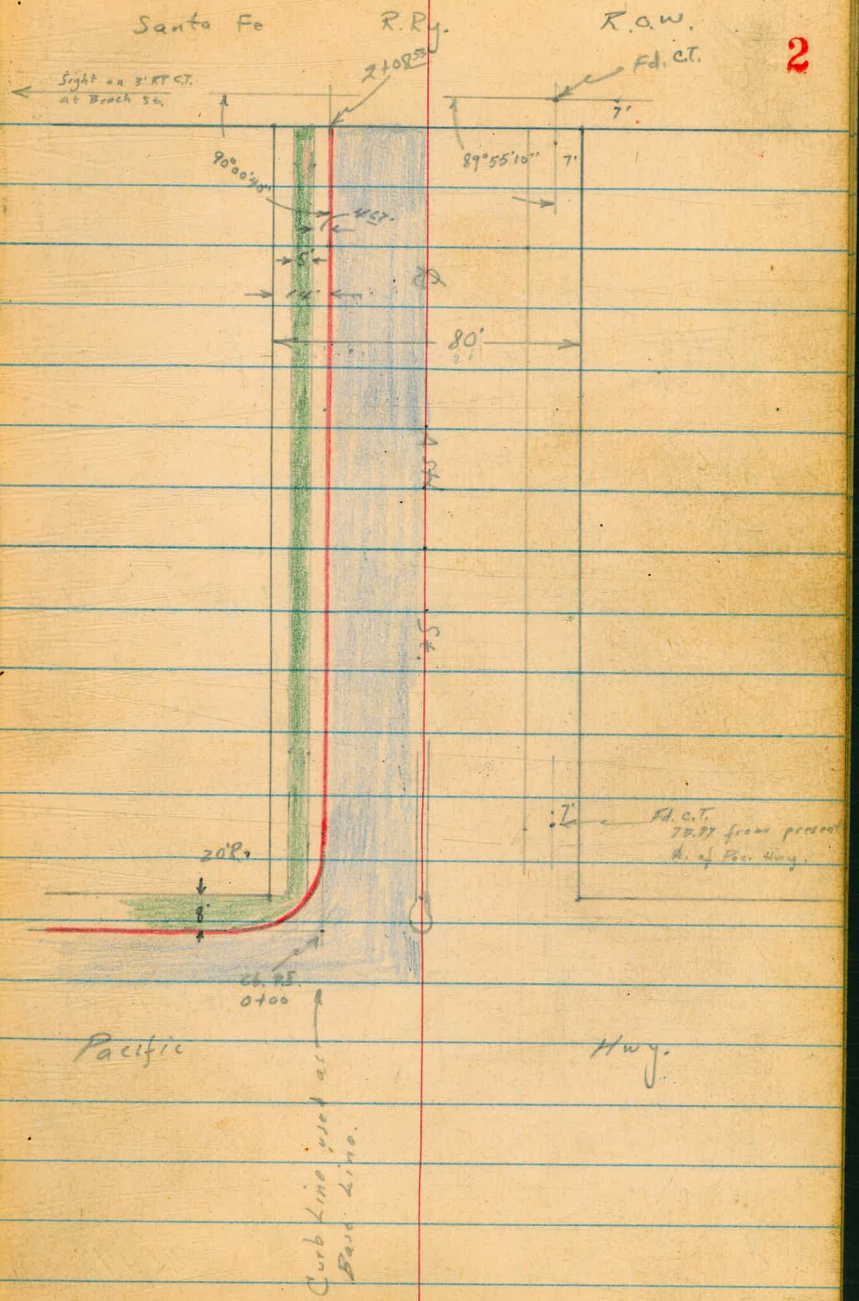
Survey North Half Ash Street
Pac. Hwy. to Santa Fe R.P. R.O.W.
T.P. Sheet

Roberts
Garber
Moore
Clark
3-2-50
W.O. 20364.

INDEXED
W.K
MAR 28 1950

Reduced 3.7.50
H Remington

2



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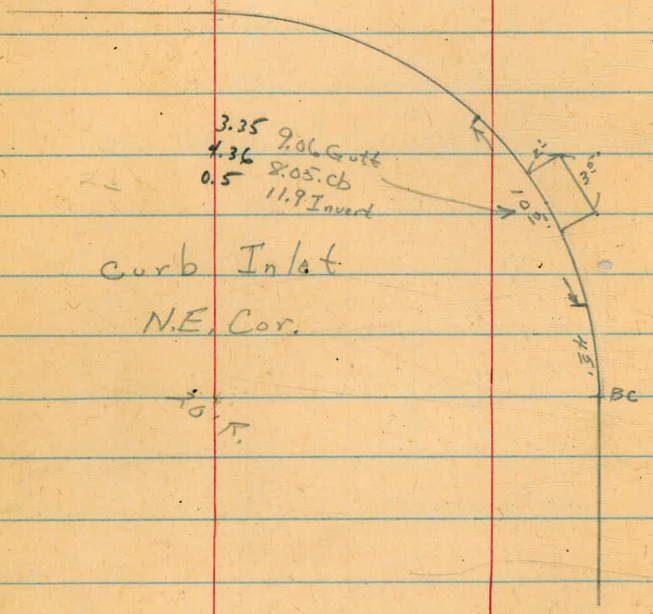
Base Line

					Lt.	Rt
					4.44 4.41 3.83	
0+10					7.97 8.00 8.58	
					9.67 7.9 2.4	
					Edge walk Brk Gutter & Cb.	
0+08.8					29.4' Lt to Canopy Pillar 14.5 sq. 20.8' wide.	
					14.4' Lt to Gas Station Island for Pumps	15.4' Lt to Station Light 27.4' Lt to Solid Conc. Island
0+08.6					6.5' Lt to Street & Stop Sign	
					4.31 3.65 3.79 3.79	
0+07.5					Begin opening in curb for Drive 7.2' Lt to Center Traffic Signal	8.10 8.76 8.62 8.62
						4.2 4.3 0.4
						cb Gutt End Conc. Gutter
					26' Rt to Center Traffic Light	
0+02.4					17.35' Lt. to Center Traffic Signal	
0+02					34' Lt to Center Street Light	
					3.93 4.37 3.61 3.62 3.69 3.76 3.77 4.34	
0+00					E. Curb Line Pac. Hwy.	8.48 8.04 8.80 8.79 8.72 8.65 8.64 8.07
						70 20 20 7' 13 26 26
						Gutt cb Gutt conc. Gutt Gutt cb
T.P.	5.73	12.41	8.44	8.68	E. Cb. Int. Blake & Baffin	12.41
T.P.	2.41	17.12	10.55	14.71		
BM	2.29	25.26		22.97	SWBP Ash & Indiana	

Contd From Page 3

Ash



Curb Inlet

N.E. Cor.

12.41

Cont'd From Page 4

		Lt		Basic Line	Rt		
0+56⁵	28⁵' Lt End. Bldg.						
0+53	17' Lt to Center T. Pole #505717H (# JP880)						
0+48	Normal Curb			4.81 5.32 7.60 7.09 Gutt. cb			
0+46	End. Drive opening			4.73 7.68			
0+44⁶	28⁶' Lt. to Cor. Bldg						
0+40		5.16 7.25 25 Drive	5.37 7.04 9⁶⁷ Edge walk	4.59 7.82	5.15 7.26 13	5.25 7.16 24⁴ Gutt	5.73 6.68 24⁷⁵ cb
0+29²	29²' Lt. to Conc. Island 3 pumps						
0+23		4.93 7.48 25 Drive AC.	4.68 7.53 9⁶⁷ Edge walk	4.10 8.31	7.25 13	4.77 7.64 24⁰ Gutt	5.25 7.16 24³⁵ cb
0+20	EC of Curb			4.00 8.41			

12.41 ↑

12.41 ↑

Cont'd From Page 5

	Lt	Rt
0+79		6.10 6.65 6.31 5.76 Gutt cb
0+89	End Drive Openning	6.84 6.88 6.06 5.57 5.53 6.35 14 9&7 walk walk
0+88	Begin solid walk to property. 15± Lt Station Light.	
0+87.5	14' Lt Begin Board Fence	
0+80		6.05 6.54 5.77 6.25 6.31 6.36 5.87 6.64 6.16 6.10 25 9&7 13 26 Walk
0+64.5		6.11 5.27 6.30 7.14 9&7 Walk
0+62.5		5.20 5.60 7.21 6.61 Gutt cb
0+60.3	End Center Island	5.57 5.97 5.10 5.74 5.62 5.77 6.24 6.84 6.44 7.31 6.67 6.79 6.64 6.19 25 9&7 Gutt cb 13 24? ≥5± walk Gutt cb
	12.41	12.41

Cont'd From Page 6

Lt | Base Line | Rt

		Lt	Rt
1+42.4	13.5' Lt Begin Bldg.	9.0 / 5.4 / 25	8.66 / 3.75 / 13.5 — 8.46 / 3.85 / 9.67 walk — 7.93 / 4.68 — 8.13 / 4.28 / 13 — 8.2V / 4.19 / 26
1+23	Drive Openning		7.12 / 5.29
1+22	14.3' Lt End Conc. Ret. Wall		
1+21		9.4 / 3.0 / 25 — 9.72V / 2.69 / 14.3 Top Wall — 8.4 / 4.0 / 14.3 Grd — 7.82V / 4.57 / 9.67 Walk — 7.74 / 4.67 / 4.67 Walk — 7.07 / 5.34 / Gutt — 7.68 / 4.73 / cb	7.41 / 5.00 / 13 — 7.50 / 4.91 / 26
1+10	15' Lt to Center T. Pole ± 93779H		
1+08	End Solid walk cb to property 14.3' Lt End Fence Begin 8" Conc. Ret. Wall	9.62V / 2.79 / 14.3 Top Wall — 7.48 / 4.83 / 14 walk — 7.48 / 4.93 / 9.67 walk — 7.35 / 5.01 / 4.67 walk — 6.62V / 5.79 / Gutt — 7.22V / 5.19 / cb	
1+07.4	16.6' Lt to Large Sign board		
1+00		6.72V / 5.69 / 25 — 7.26 / 5.15 / 14 walk — 7.24 / 5.17 / 9.67 walk — 6.37 / 6.04 / Gutt — 6.96 / 5.45 / cb	6.87 / 5.54 / 13 — 6.97 / 5.44 / 26

12.41

12.41

Cont'd From Page 7

T.P.	6.21	16.82	1.80	10.61
1480				
1469.5		13± to Bldg. End. Conc. Walk on Steps		
1465		10° Lt to End conc. Steps		
1457±		2'x3' Meter box next to cb.		
1456.1		10° Lt Begin Conc. Porch & Steps		
1452.5		2° Lt. No Parking Sign		
1449.6		Normal cb.		
1447		End Drive Openning		
		12.41		

Lt

9.7	9.61	9.64	8.93	9.56	9.27	9.43
2.7	2.80	2.77	3.48	2.85	3.14	2.99
13±	9.57 walk	9.61 walk	Gutt	cb	13	2C

12.36 8.95
0.05 3.46
10° 10°
Top Landing Bottom Landing

7.93 8.64
4.48 3.77
Gutt cb

7.90
4.51

12.41

Rt

Contd From Page 8

Lt. Rt.

Check		2.62	22.78 =	22.97 Start. BM
T.P.	11.40	25.60	2.62	14.20

2+10 13' Lt to Drain Inlet

9.15
7.67
13Z
Invert

was 2" Conc. Pipe Filled with conc. to within 0.8' of top.

2+08 33 Santa Fe R.Rj. R.O.W.

10.69	10.67	10.62	10.59	10.35	10.31	
6.13	6.15	6.20	6.23	6.47	6.51	
13.82	9.67 walk	4.67 walk	C.B. & Gutt	13	22	
End C.B.						

2+04.7 16' Lt. to Center T. Pole # D5408J

10.4	10.27	10.26	9.26	10.21	9.95	10.02
6.4	6.55	6.56	7.56	6.61	6.87	6.80
13.7	9.67 walk	4.67 walk	Gutt	C.B.	13	22

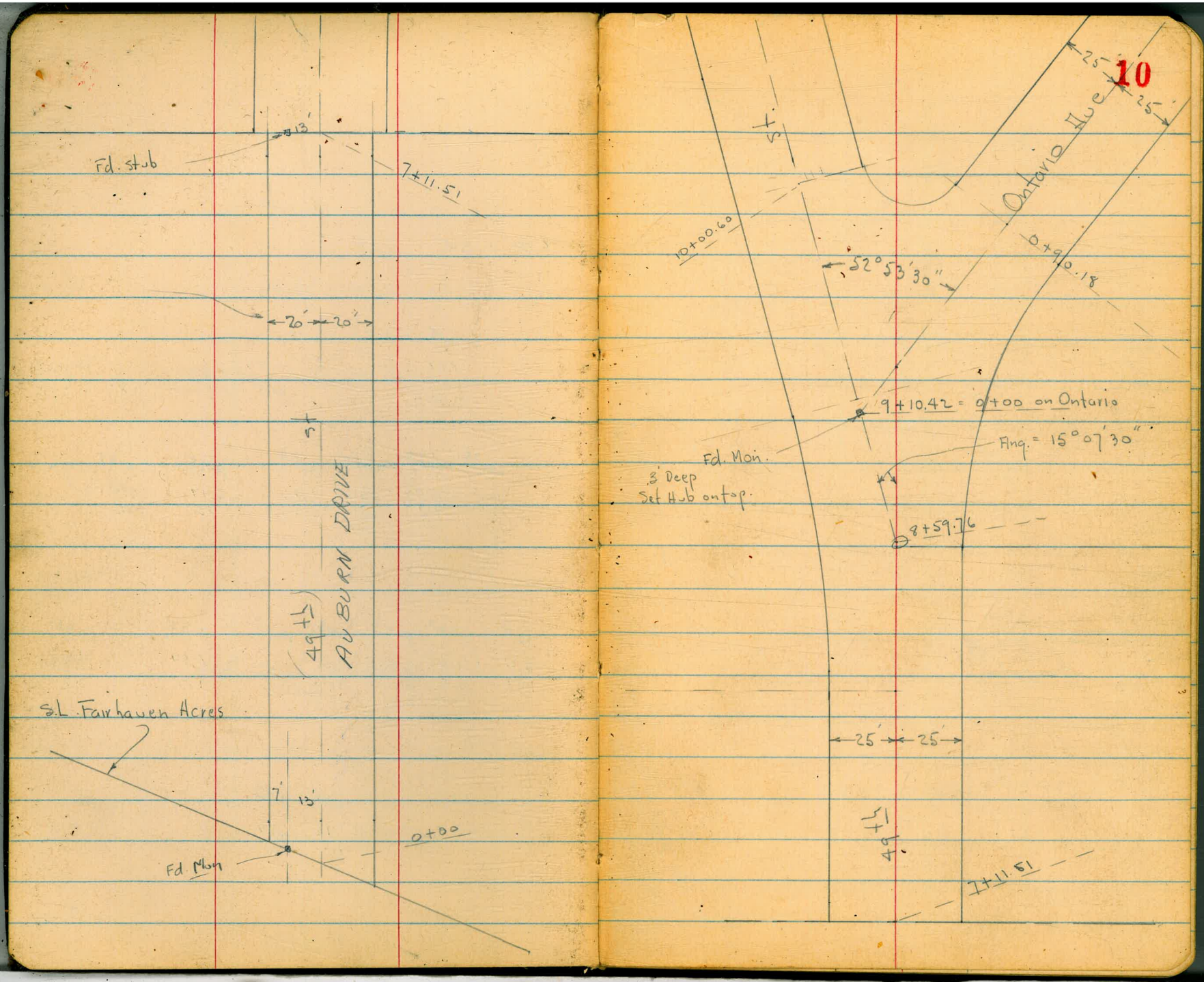
1+99 End Curb Outlet

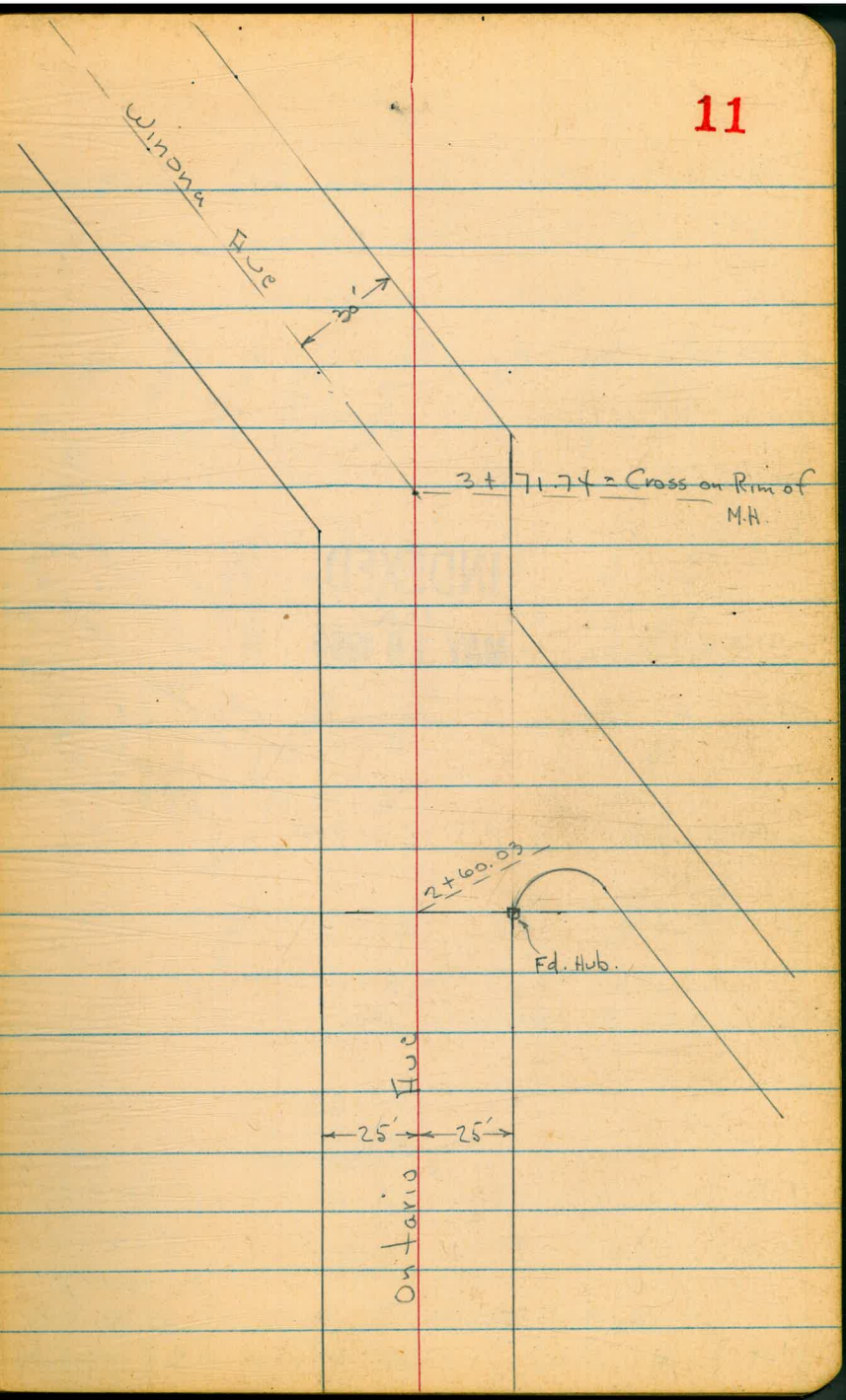
1+96.5 13.7' End Bldg. Begin Conc. Platform

9.10 9.93
7.72 6.89
Gutt C.B.

1+91.5 Begin Curb ~~Inlet~~ or Outlet?

1682 16.82


Fd. stub
13'
7+11.51
26'
20'
AUBURN DRIVE
(49+1)
S.L. Fairhaven Acres
7'
13'
0+00
Fd. Mon
10+00.60
52°53'30"
0+90.18
Ontario Ave
25'
25'
9+10.42 = 0+00 on Ontario
Fd. Mon.
3' Deep
Set Hub ontop.
Ang. = 15°07'30"
8+59.76
25'
25'
7+11.51


Winona Ave
30'
3+71.74 = Cross on Rim of M.H.
2+60.03
Fd. Hub.
Ontario Ave
25'
25'

X-Sect 49th± (Auburn Dr) from S.L. of Fairhaven Acres to 200' N. of Pave. - See sketch

& Ontario - 49th± to Winona Ave.

Begin X-Sections of Ontario Party?

Date?

1+00

Reduced May 16, 1950 John Firebaugh

INDEXED
M.R.
MAY 16 1950

0+50

Elevations come off of c.t. on P.C. - S.Cb Wightman & 49th El. 311.63

0+21.62 P.I Curve

0+00 & Ontario Mon

T.P. +10.73	261.08 ~~261.20~~ -5.44	~~250.35~~ ~~250.47~~
T.P. +6.68	255.79 ~~255.91~~ -0.66	249.11 ~~249.23~~
+10.19	249.77 ~~249.89~~	Disregard 2 239.58 ~~239.70~~

Note: See check To other B.M. on P. 21 - Before

Lt ℄ Rt.

252.1	249.5	256.2	252.1	252.2	251.3	253.2	256.7
9.0	11.6	4.9	9.0	8.9	9.8	7.9	4.4
65 Top & Wash	45	25	18 Toe		25	50	80

251.1	251.5	251.5	251.1	251.3	252.9
10.0	9.6	9.6	10.0	9.8	8.2
35	25	"	25	50	65 Toe of Slope

251.5	251.8	250.4	251.0	251.4
9.6	9.3	10.7	10.1	9.7
25	16	9		25

251.2	251.7	251.6	249.2	250.3
9.4	9.4	9.5	11.4	10.8
25		10	17	25

261.08
~~261.20~~

Nail in pole - 7+35 - Lt.

B.M. nails in pole 2+38 15' Lt

Reducing) Book 1561 - P. 46

				Lt.	Rt.
				℄ 266.80	
T.P.	10:04	266.80 ~~266.92~~	4.32	256.76 ~~256.88~~	
3+00				254.0 / 7.1 / 60 ℄wash	250.5 / 10.6 / 50 ℄wash
				254.0 / 7.1 / 46 ℄wash	255.1 / 6.0 / 25
				256.1 / 5.0	259.0 / 2.1 / 25
				~~262.0~~ 261.2 / +0.9 / 50	
2+60.03 = P.C. Prop. on Rt.					
				253.1 / 8.0 / 5.5 ℄wash	249.6 / 11.5 / 46 ℄wash
				253.1 / 8.0 / 40	253.1 / 8.0 / 25
				253.3 / 7.8	256.0 / 5.1 / 25
					258.5 / 2.6 / 50
2+30				252.9 / 8.2 / 50 ℄wash	~~249.2~~ 249.6 / 11.7 / 41 ℄wash
				252.9 / 8.2 / 36	253.2 / 7.9 / 25
				252.1 / 8.4	254.3 / 6.8 / 25
					257.8 / 3.3 / 50
2+00				253.2 / 7.8 / 47 ℄wash	248.9 / 12.2 / 37 ℄wash
				252.6 / 8.5 / 28	252.9 / 8.2 / 25
				252.1 / 9.0	252.9 / 8.2 / 25
					256.8 / 4.3 / 50
1+80				253.5 / 7.6 / 40 ℄wash	248.9 / 12.2 / 32 ℄wash
				251.9 / 9.2 / 25	253.3 / 7.8 / 20
				252.1 / 9.0 / 11	252.2 / 8.9
					253.1 / 8.0 / 25
1+50				252.5 / 8.6 / 45 ℄wash	249.0 / 12.1 / 32 ℄wash
				252.0 / 9.1 / 25	255.0 / 6.1 / 20
				252.2 / 8.9 / 13	251.9 / 9.2
				~~261.20~~ 261.08	252.6 / 8.5 / 25
					255.4 / 5.7 / 50
					258.8 / 2.3 / 70

3+71.74 = end.

3+40

255.2	252.0	256.2	260.1	262.1	265.9	269.4
11.6	14.8	10.6	6.1	4.7	0.9	+2.6
88	73	63	25		25	50
	& wash					

255.2	251.9	255.9	259.4	259.5	264.4	266.8
10.9	14.9	10.9	7.4	7.3	2.4	0.0
66	58	50	25		25	50
	& wash					

~~266.92~~ 266.80

Beg. x-Sect. of 49th - from S.L. Fairhaven to 200' N. of Pave. - Sketch - P. 10

T.P. 6.87. 246.45 ~~246.57~~ 3.86 239.58 ~~239.70~~

2+00

1+50

1+00

0+50

Show both sides of graded Road.

0+00 - ℄ ± S.L. Fairhaven Acres. - Sect along S.L.

B.M. · 3.86 ~~243.56~~ 243.44 ~~243.56~~ 239.58 ~~239.70~~ = Nails in Pole.

Lt.	℄	Rt.
	246.45	
2382 4.5 30	2383 5.1 20	2359 7.5 13
2357 7.7 7 ℄wash	2367 6.7	2397 3.7 5
2396 3.8 20 Rd.	2382 5.2 30	
2387 4.7 30	2365 6.9 20	2352 8.2 5 ℄wash
2356 7.8	2386 4.8 7	2385 4.8 20 Rd.
2386 4.8 25		
2379 5.5 30	2368 6.6 20	2350 8.4 ℄wash
2355 7.9 11	2380 5.4 15	2381 5.3 30 Rd.
2390 4.4 30	2385 4.9 20	2353 8.1
2344 9.0 11 ℄-wash	2353 8.1 20	2371 6.3 25
2369 6.5 40 Road		
2389 4.5 30	2380 5.4 20	2369 6.5
2359 7.5 20	2348 8.6 30	
	243.44 ~~243.56~~	

49th

4+50

4+41 - 15.4' Lt. = ℄ 3.5' Conc. walk — 243.50

4+15 - 41' Lt. = ℄ House — 2.95' / 41 / floor.

4+00

3+50

3+12 - 3.3' Lt. = ℄ Sewer M.H. — 240.89 — 5.56 on Rim

3+00 - = end Rubble wall — 240.4 — 6.1 / 35

Wash goes to W.

2+90 = ℄ 8' Wood Bridge (single span)

2+50

2+16 - 28.2' Rt. = ℄ House

2+16 - 2' Rt. = Beg. Rubble wall

Lt			℄			Rt
242.1	242.3	243.6	243.5	243.4	243.4	244.2
4.4	4.2	2.9	3.0	3.1	3.1	2.3
30	30			14	20	30

242.39 — 242.27 — 242.26 Rd

2419 — 3.88 — 4.18 — 4.19

4.6 — 50 — 20 — 15' = walk

41 ground. — walk

241.5	241.5	241.8	242.1	241.9	241.6	241.9
5.0	5.0	4.7	4.4	4.6	4.9	4.6
30	20	8	Rd.	15	20	30

241.4	240.3	240.6	240.6	240.4
5.1	6.3	5.9	5.9	6.1
30	20	Rd.	20	30

237.3	237.3	237.3	237.1	240.54	240.9	241.1	240.3	239.9
9.2	9.2	9.2	9.4	5.91	5.6	5.4	6.2	6.6
26	20	15	9	Top wall	3	18	20	30
		℄ wash			Rd.			

240.8	241.20	240.59	240.63
5.7	5.25	5.86	5.82
50	19		2 end
Dirt Dr.	w. end.		

240.1	240.0	237.1	236.1	237.5	237.7	239.99	240.4	239.3	239.1	240.15
6.4	6.5	9.4	10.4	9.0	8.8	6.46	6.1	7.2	7.1	6.30
30	20	12	7		1	1	20	30	28.2	28.2
			℄ wash			Top wall	Rd.		ground.	floor.

246.45 ~~246.57~~

237.3 — 9.3 — 2 — ground

239.66 — 6.79 — 2 — Top

49+47

7+31 - 16' Lt. = Beg. 6" Rock + Conc. wall

7+00

6+94 - 47.7' Lt. = ℄ House

6+50

6+14 = ℄ Sewer M.H. 6.68 on Rim

6+00

5+82 - 20.7' Lt. = ℄ 2' Conc. walk

5+50

5+30 - 20' Lt. = ℄ 3' Conc. walk

T.P. 8.89 ~~254.78~~ ~~254.90~~ 0.56 ~~245.89~~ ~~246.01~~

5+00

248.57
6.21
floor

248.10

254.78

245.89

	Lt.	℄	Rt.
249.36			
5+52			
16			
Top wall			
	247.6	248.3	249.2
	7.2	6.8	5.6
	30	20	10
		Rd.	
247.1			
7.7			
47.7			
ground			
	247.1	247.8	248.5
	7.7	7.0	6.3
	30	20	11
		Rd.	
	246.1	246.9	247.6
	8.7	7.9	7.2
	30	20	11
		Rd.	
245.66	245.85		
9.12	8.93		
38	20.7		
at Porch	walk		
	245.2	245.9	246.2
	9.6	8.9	8.6
	30	20	12
244.02		244.47	
10.76		10.31	
50		20	
walk			
		Rd.	

249.4	249.8	249.6	249.5				
5.4	5.0	5.2	5.3				
	11	20	30				
248.8	249.1	249.3	250.9				
6.0	5.7	5.5	3.9				
	10	20	30				
247.8	248.0	248.6	249.4				
7.0	6.8	6.2	5.4				
	9	20	30				
246.5	246.6	246.5	247.3				
8.3	8.2	8.3	7.5				
	11	20	30				
244.47							
10.31							
20							

~~254.78~~
~~254.90~~

243.3	243.5	244.8	245.2	245.3	245.2	245.6
3.2	3.0	1.7	1.5	1.2	1.3	0.9
30	20	11	Rd	11	20	30
			246.45			
			~~246.57~~			

49th

9+45 — 249.5 / 8.4 / 11.5

9+10.42 = 0+00 to E. (Ontario) - Sect. at 90°

8+59.76 = Ang. 15° 07' 30" Lt. - Sect. 90° to back Tang.

8+30

T.P. 7.61 — 257.94 ~~258.06~~ — 4.45 — 250.33 ~~250.45~~ — Nail in Pole 250.47 - P 12 — 257.94 ~~258.06~~

8+00

7+70 - 18' Lt. = end wall

7+50 — 248.0 / 6.8 / 30

7+41 - 15.1' Lt. = ℄ 3.5' Conc. walk & step Thru wall

℄

Lt.								Rt.
246.1	251.6	250.7	252.1	251.3	251.3	251.4	251.5	251.6
11.8	6.3	7.2	5.8	6.6	6.6	6.5	6.4	6.3
100	82	35	25	14	Rd. —	9	25	50
℄ wash								

245.8	248.2	249.2	250.2	251.4	251.6	251.6	251.7	250.9
12.1	9.2	8.7	7.7	6.5	6.3	6.3	6.2	7.0
129	120	50	25	18	— Rd. —	6	25	50
℄ wash								

248.7	249.1	250.7	250.8	250.6	250.1	251.9	
9.2	8.8	7.2	7.1	7.3	7.8	6.0	
40	30	23	— Rd.	5	25	35	

249.5	249.6	250.5	250.6	250.7	251.5	252.2	
8.4	8.3	7.4	7.3	7.2	6.4	5.7	
35	25	19	Rd	— 3	25	35	

248.6	249.5	250.3	250.6	250.7	251.4	252.5	
6.2	5.3	4.5	4.2	4.1	3.4	2.3	
30	20	15	— Rd.	— 6	20	30	

249.41
5.37
18 = Top

248.4	248.8	249.69	249.8	249.2	250.2	249.7	249.6	251.0	
6.4	6.0	5.09	5.0	4.9	4.6	5.1	5.2	3.8	
20	17	6.8 wall		— Rd. —	9	13	20	30	

247.90 — 248.65 — 249.46 12 — 254.78 ~~254.90~~

6.88 — 6.13 — 5.32

40.9 at Porch — 16.2 walk — 15.1 Top step.

49+42

10+16.7 - 14.7' Lt. = Beg. cb.

10+13.5 - 15.4 Rt = Beg. cb. on Rt.

10+14 - 25' Lt. = ℄ 30" Euc Tree

10+06 - Lt. = end Ely. of Bridge

+ ℄ wash

10+00.60 - P.C. on Rt. - Beg. Cold Lay Pave

10+00 - Brk in Deck

9+90

9+79 - Brk. in Deck of Bridge

9+76 - 16.5' Lt. = ℄ P pole # P 3640

9+74 - 18' Lt. = Beg. Ely. of 3' Wood Footbridge

	Lt.	℄	Rt.
	251.42	250.69	
	6.52	7.25	
	14.7	14.7	
	Top.	Cut	

255.5	251.8	254.4	253.9	252.80	249.40	249.11	249.09	249.73	250.31	
2.4	6.1	3.5	4.0	5.14	8.54	8.83	8.85	8.21	7.63	
100	38	30	25	18	14	Rd	8	15.4	15.4	
				Top Bridge		C.L.			Top.	

	251.6	252.9	250.0	248.8	248.4	248.6	248.5	249.8	249.6
	6.3	5.0	7.9	9.1	9.5	9.3	9.4	8.4	8.3
	40	27	23	15	Rd.	9	25	50	50
								℄ wash	

	253.58	250.9	250.8	248.0	248.2	248.5	248.5	248.8	249.4	254.7	255.9
	4.36	7.0	7.1	9.9	9.7	9.4	9.4	9.1	8.5	3.2	2.0
	Top	75	42	35	25	14	Rd.	9	17	25	50
					℄ wash					Top - fill from wash	

254.5	253.46	249.9	246.9	248.4	252.0	253.1	252.83	249.1	249.4	249.9	251.2	251.9
3.4	4.48	8.0	11.0	9.5	5.9	4.8	5.11	8.8	8.5	8.0	6.7	6.0
100	Top of Deck	70	63	50	35	25	18	14	Rd.	9	25	50
			℄ wash				Bridge Top.					

25794

~~258.06~~

49th

	Lt			℄		Rt.	

Sta.	Lt			℄			Rt.
11+92	263.0 / 5.3 / 25	262.41 / 5.92 / Top	261.62 / 6.71 / 14.9 / gut.	262.27 / 6.06	260.73 / 7.60 / 15.2 / gut.	261.28 / 7.05 / Top	261.4 / 6.9 / 25
11+78	261.2 / 7.1 / 25	260.62 / 7.71 / Top	259.89 / 8.44 / 14.8 / gut.	260.70 / 7.63	259.28 / 9.05 / 15.2 / gut.	259.78 / 8.55 / Top	259.4 / 8.9 / 25
11+40	258.7 / 9.6 / 25	258.27 / 10.06 / Top	257.66 / 10.67 / 14.7 / gut.	257.95 / 10.38	256.81 / 11.52 / 15.2 / gut.	257.33 / 11.00 / Top	257.0 / 11.3 / 25
11+05	257.1 / 11.2 / 25	256.34 / 11.99 / Top	255.76 / 12.57 / 14.7 / gut.	255.95 / 12.38	254.84 / 13.49 / 15.4 / gut.	255.38 / 12.95 / Top	255.2 / 13.1 / 25
T.P.				268.33 ~~268.45~~			
10+65	254.9 / 3.0 / 25	254.15 / 3.79 / 14.6 / Top	253.44 / 4.50 / 14.6 / gut.	253.69 / 4.25	252.61 / 5.33 / 15.4 / gut	253.11 / 4.83 / 15.4 / Top	253.4 / 4.5 / 25
10+30	252.9 / 5.0 / 25	252.15 / 5.79 / 14.6 / Top	251.53 / 6.41 / 14.6 / gut.	251.52 / 6.42 / 257.94 ~~258.06~~	250.79 / 7.15 / 15.4 / gut	251.24 / 6.70 / 15.4 / Top	251.5 / 6.4 / 25

11+92				
11+78				
11+40				
11+05				
T.P.	12.33	268.33 ~~268.45~~	1.94	256.00 ~~256.12~~
10+65				
10+30 - wire fence behind cb.				

4974

Lt ℄ Rt.

check B.M.			0.74	311.63 ~~311.75~~
	12.96	312.37 ~~312.49~~	0.14	299.41 ~~299.53~~
	13.18	299.55 ~~299.67~~	0.03	286.37 ~~286.49~~
	13.24	286.40 ~~286.52~~	0.34	273.16 ~~273.28~~
T.P.	13.37	273.50 ~~273.62~~	8.20	260.13 ~~260.25~~

12+30

311.63 = c.t. on PC. - S.cb. Wightman & Auburn Dr.

267.92	267.28	267.20	266.41	266.97
0.41	1.05	1.13	1.92	1.36
Top	14.9 gut	268.33 ~~268.45~~	15.1 gut.	Top

LaMesa Colony Sewers
Reservoir Dr. to 67th st.

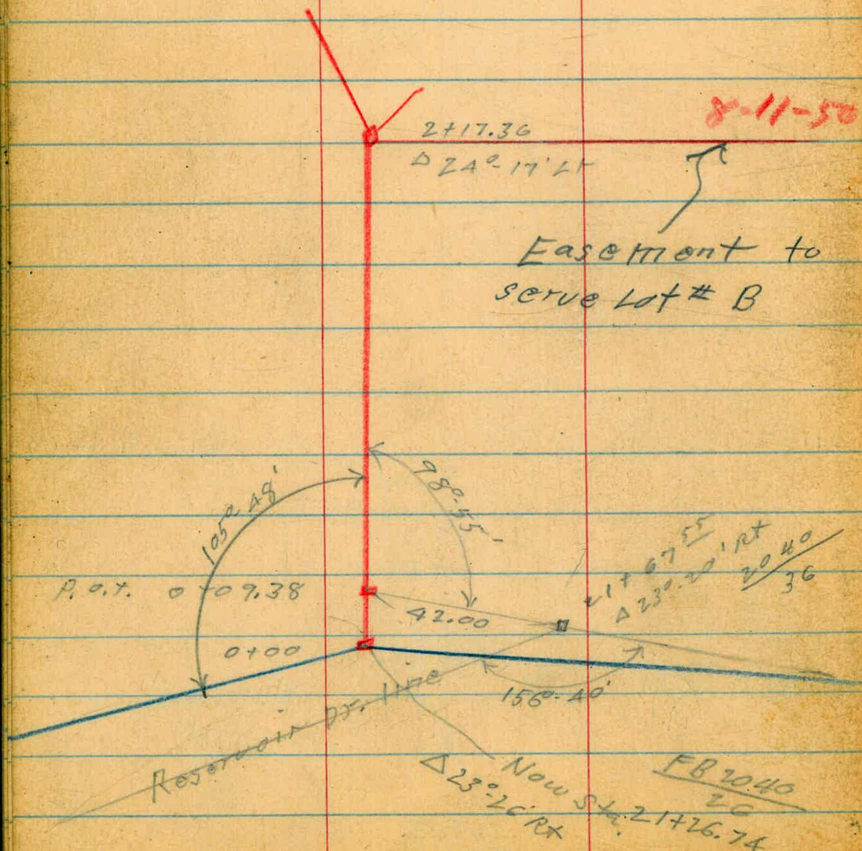
Sommermeyer
Begg
Acuña

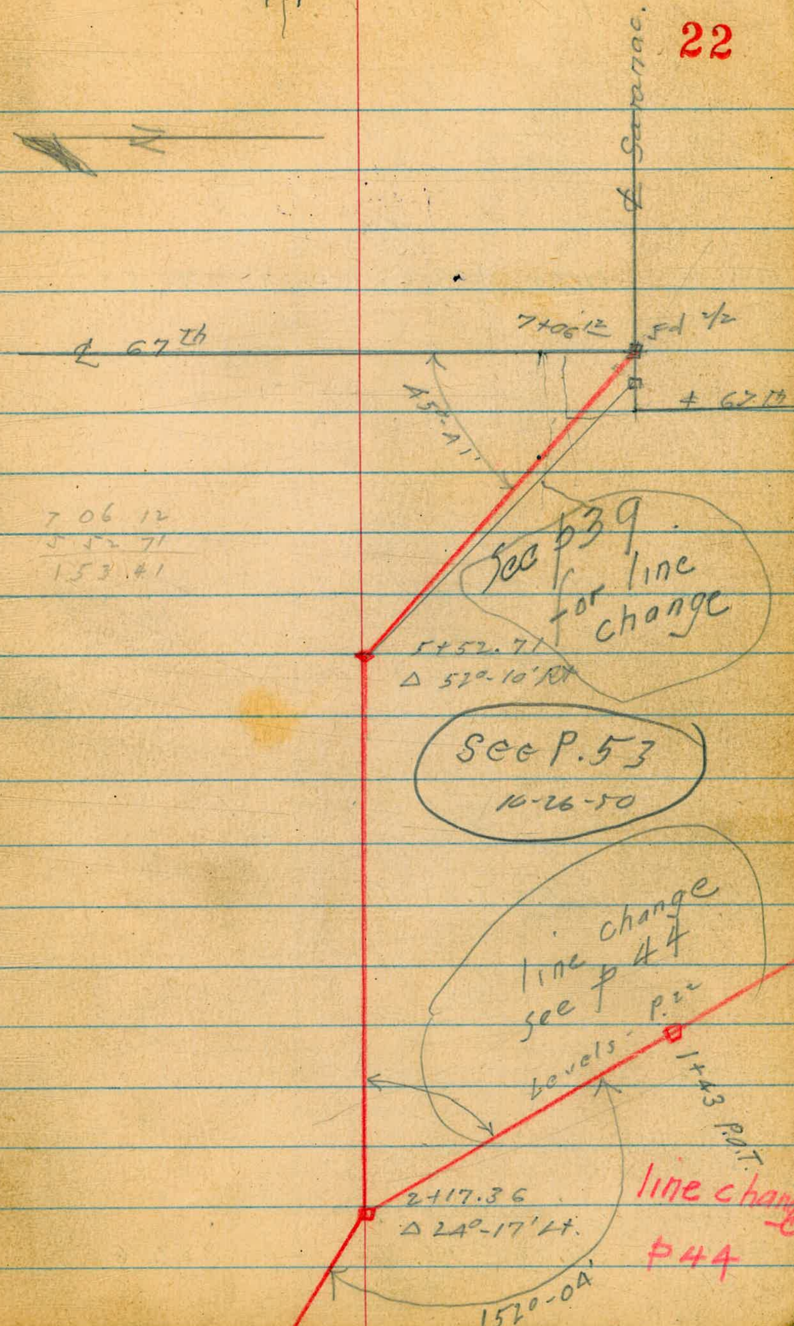
7-7-50

▫ = Fd hub
▫ = set hub

F.B. 2040-36
1762-38
1376
1665-25
T.P. 29

Blue line = Final location
Reservoir Drive line





Reservoir Dr. to 67th

7-7-50

1+00				
T.P.	11.34	403.92	0.34	392.58
+50				
+25				
	W. = wash			
0+17				
0+09 38 = P.O.T. + Tie				
0+00=				
B.M. = 21+67 55 20 40 .39	9.06	392.92	—	383.86

383.2 / 15.7 / 12 / w — 390.9 / 13.0 — 393.0 / 10.9 / 10

403.92

384.5 / 8.4 / 12 / w — 386.3 / 6.6 — 387.5 / 5.4 / 10

382.9 / 10.0 / w

381.6 / 11.3 / w

382.0 / 10.9 / 10 — 383.0 / 9.9 — 383.3 / 9.6 / 10

383.22 / 9.70 / Hub

392.92

2+90

2+50

2+30

T.P. 11.90 414.19 1.63 402.29

El. ℄ = 398.33

2+17.36 Δ 24° - 17' Lt. (Sec. on split of Δ)

2+00

1+50

1+28

408.6
5.6 / 10

406.0
8.2

402.6
11.6 / 17 W

405.4
8.8 / 10

400.7
13.5

400.2
14.0 / 13 W

401.2
13.0 / 10

398.7
15.5 / W

400.2
14.0 / 10

414.19

see p45

397.3
6.6 / 7 W

398.33
5.59 / H+b.

399.7
4.2 / 10

396.2
7.7 / 5 W

397.1
6.8

399.4
4.5 / 10

394.0
9.9 / 10

393.2
10.7 W

395.1
8.2 / 10

389.9
14.0 / 6 W

396.6
7.3

403.92

4+80	cross wire fence			
T.P.	12.64	436.42	1.45	423.78
4+28				
4+00	cross wire fence			
3+80				
T.P.	12.53	425.23	1.49	412.70
3+56				
3+15				

#

426.4 — 10.0 / 10

426.2 — 10.2 W

426.6 — 9.8 / 10

436.42

423.23 — 2.0 / 10

424.9 — 3.3

422.9 — 2.3 / 10

415.2 — 10.0 / 6 W

418.7 — 6.5

420.03 — 5.2 / 10

412.8 — 12.4 / 10 W

415.4 — 9.8

419.1 — 5.5 / 10

425.23

410.2 — 4.0 / 10 W

413.5 — 0.7

415.8 — 11.6 / 10

409.2 — 5.0 / 10

406.0 — 8.2 W

408.5 — 5.7 / 10

414.19

6+75 - 97' Rt. = N.E. Cor. House

6+63 [illegible] House

T.P. 6.39 450.50 0.95 444.11

6+50 6' Rt. = Ctr. 18" diam. eucalyptus

6+49 Cross wire fence.

6+35 - 75'± Rt. = N.E. Cor House

6+20

T.P. 11.98 445.06 3.34 433.08

5+80

5+52.71 Δ 52°-10' Rt. (sec. on split of Δ)

5+00

75'

447.5 3.0/97 Gnd

441.7 2.8/97 Floor

445.3 5.2/10

445.1 5.4

443.8 6.7/10

3.7/75 Gnd

3.2/75 Floor

450.50

439.1 6.0/10

436.1 6.4/5 W

438.9 6.2

441.1 4.0/10

446.3 +1.2/75 Gnd.

446.8 +1.7/75 Floor

437.1 8.0/10 W

431.3 7.8

438.8 6.3/10

445.06

433.9 2.5/12 W

434.3 2.1

435.8 0.6/10

433.8 2.6/10

433.07 3.35 W.

432.5 3.9/10

429.1 7.3/10

428.4 8.0/2

427.8 8.6 W

428.4 8.0/2

429.5 6.9/10

436.42

4.65 445.85

7+06[12] =

Note.

This box can be gone under without trouble because out will have to be at least 10' deep. Useing this line will save 1 M.H.

6+93[13] = ctr. 2'x2' gas. line box.

6+79 start oil pave on 67[th]

4.65 Hub. 445.85

used as BM to extend line Southerly on 67 St
see p39 & 40

4.34 446.16

4.7 445.8

450.50

La Mesa Colony Sewer

Lots 36+37

7-10-50

Sommermeyer

Bunch

Shepard

FB 1762
38

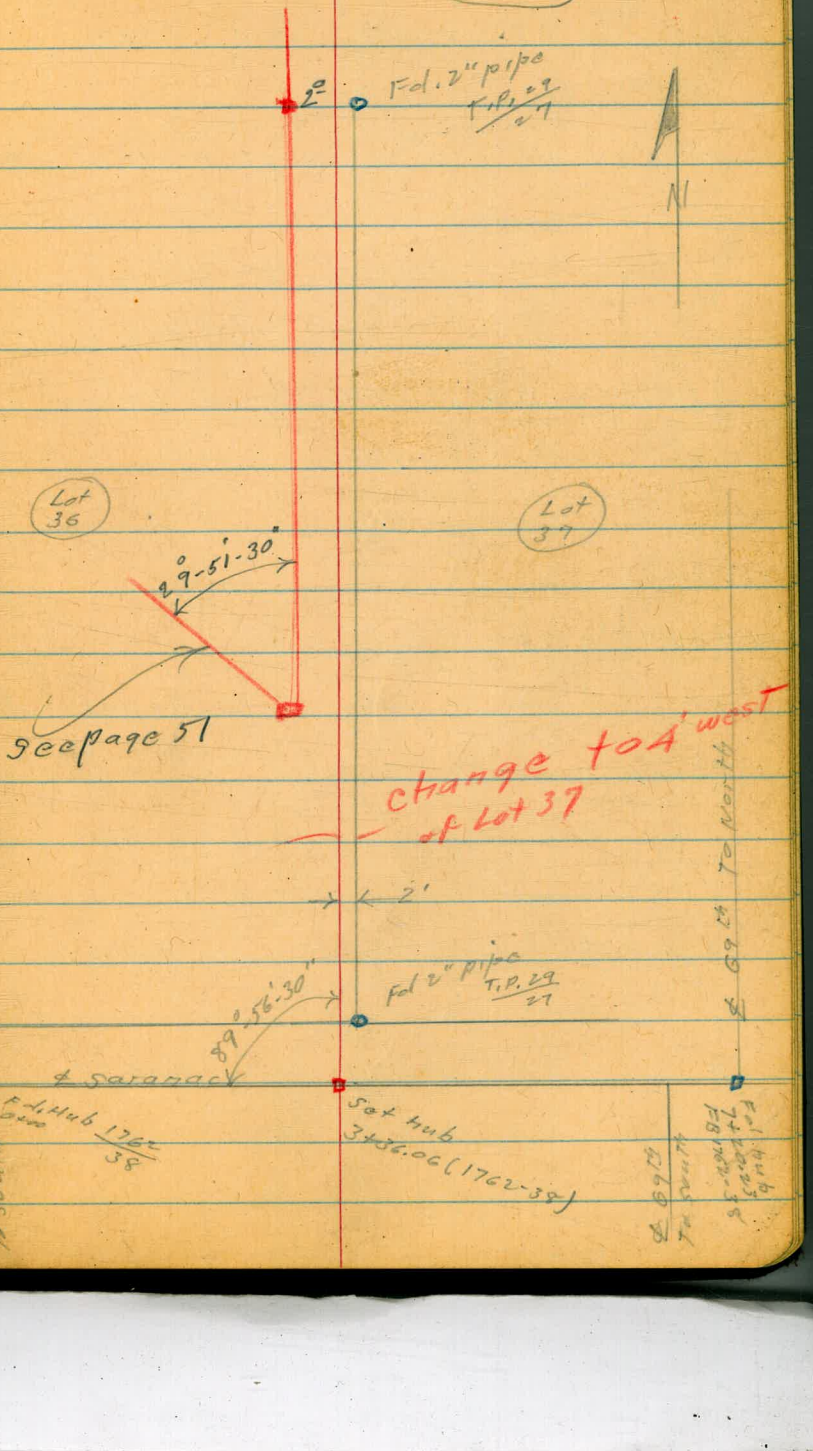
T.P. 29
27

INDEXED
AUG 21 1950

set hub at 2+18.5 t 9-19-50
4' west of west line lot 37

sketch
Cont. - P. 49 9/19/50

28



Lots 36 + 37
La Mesa Colony

	4.76	446.17	11.43	441.41			
1+50					H	10.5 / 442.3	11.2 / 40 / w — 441.6
1+45: End picket fence + start barb. Wire fence 2' Rt. of ℄							
1+00						8.8 / 444.0	
H = Ground is higher							
W = low spot in N.Wly.-S.Ely. wash							
0+69 - 2' Rt. = start picket fence						7.7 / 445.1	8.7 / 3.0 / at house / w — 444.1 ; 9.0 / 85 / at house — 443.8
0+50						7.0 / 445.8	
0+41 - 18" pepper on ℄							
2' Rt. of 0+30 2' pipe			5.44	447.40	B.M.#1	446.7	
0+30						6.1	
0+00 = ℄ Saranac.				447.67	H	5.17 Hub / 447.67	
T.P.	5.89	452.84	0.96	446.95		452.84	
T.P.	0.86	447.91	6.60	447.05			
	7.80	453.65	—	445.85			

B.M. = ℄ Saranac + 67 ft.
1/2 = 0+00 $\frac{1762}{45}$

Lots 36 + 37

T.P.	8.10	451.96	2.31	443.86

N.wly. by S.Ely.

5+00 Here wash runs into a canyon.

4+00

also: start woven wire fence

3+78 - 2' RT.: end barb wire fence.

3+50

3+00

2+50

2+30

2+00

424.2 436.8 443.2

22.0 / 150 W — 9.4 / 115 — 3.0 H

432.5 437.5 442.6

13.7 / 103 W — 8.7 / 76 — 3.6 H

442

4.2 H

441.0

8.4 / 45 W — 5.2 H

440.0

6.9 / 15 W — 6.2 H

440.0

H — 6.2 H

440.8 440.6

H — 5.4 — 5.6 / 10 W

446.17

Lots 36+37

10+00

10+28

T.P. 6.22 456.03 2.15 449.81

9+62± 2' Rt. = 2" pipe (N'ly. line Lot 36)

Set B.M. Top of pipe 2.15 449.81 B.M. #1

9+00

8+00

7+00

+50

also: start barb wire fence.

6+07 -2' Rt. = end woven wire fence

6+00

449.1

6.9

456.03

436.3 440.6 448.9 449.8

13.7/200 8.0/100 3.1 2.15/2 top of pipe H

436.3 444.2 448.4

15.7/200 7.8/100 3.6 H

447.6

4.4 H

438.2 441.8 446.2

13.8/150 10.2/100 5.8 H

445.4

6.6

444.6

7.4 H

451.96

Lots 36+37

orig B.M. P.29			6.98	445.85	
T.P.	9.58	452.83	9.36	443.25	
Check 0+00			4.92	447.69 (447.67)	= 0+00 Page 29
T.P.	3.64	452.61	11.26	448.97	
T.P.	0.74	460.23	1.79	459.49	0+00 – 1762/48 = ℄ 69th + Saranac ℄
T.P	0.36	461.28	1.88	460.92 (461 ±)	N.W. Cor. conc. Porch – House S.E. Cor. Mandalay + 69th
T.P.	8.82	462.80	2.05	453.98	
13+00					444.6 / 11.4 / 446.1
12+50					442.9 / 445.6 / 7.9 / 449.7
12+00					13.1/200 / 10.4/100 / 6.3 / 450.3
11+00					5.7 H
					456.03

Lots B & 32 La Mesa Colony

sketch Page 22 7-11-50

T.P.	8.96	427.07	0.94	418.11

side by side for culvert.

1+29 7' Lt. = ℄ of 2-10" Iron pipes

1+20 — start fill on ℄

T.P.	10.44	419.05	0.77	408.61

0+80

0+50

0+33 ± cross E.+W. wire fence.

0+25

H = Grd higher than ℄
W = bottom of wash

0+00

11.05	409.38	—	398.33

B.M. = 2+17.36 (2×2)
Page 24

412.87 413.00

6.22 / 76 — F.E. Cast pipe

6.05 / 64 — F.E. west pipe

409.7 413.9

9.4 / 17 W — 5.2 — H

419.05

404.6 407.6 409.4

4.8 / 25 W — 4.8 / 12 — 0.0 — H

401.5 406.9

7.9 / 22 W — 2.5 — H

399.4 401.2

10.0 / 17 W — 8.2 — H

397.1 398.33

12.3 / 7 W — 11.05

409.38

3.44 (445.185 P.2)
3.46 445.81

11.27 449.25 0.66 437.98

T.P. 11.75 438.64 0.18 426.89

property.
due south to serve additional
This line can be angled aprox

1+80

H 7.9 7.5 (419.2 / 419.6) / 7 W

pipes laid side by side
1+72 5' Rt. = ℄ of 2 Conc. Culvert

H 9.9 12.38 (417.2 / 414.7) / 44 I.E. East pipe
12.48 (414.6) / 56 I.E. west pipe

1+57 = leave private road

4.0 (423.1) / 5
4.2 (422.9)
4.3 (422.8) / 5

1+43° = ℄ P.O.T. 4.54 422.53

1+41 = start E. & W. Private road

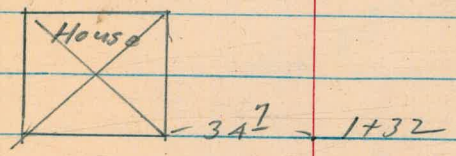
4.4 (422.7) / 5
4.5 (422.6)
4.4 (422.7) / 5

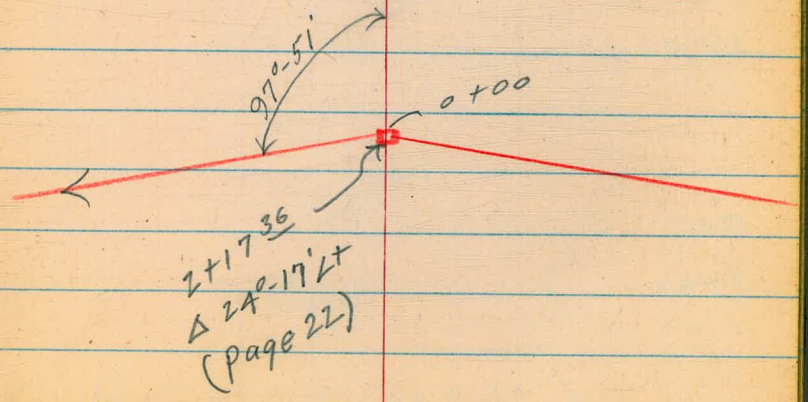
427.07

Easement to serve
Portion of Lot "B" La Mesa Colony

Sommermeyer
Bogg
Allen

8-11-50





Por. Lot "B"
Levels

T.P.	12.87	428.04	0.13	415.17	428.04	
0+55					0.0	415^{3}
0+30					8.4	406^{9}
$0+22^{5}$ cross fence line						403^{4}
0+20					11.9	
T.P.	11.91	415.30	0.04	403.39	415.30	
0+06					4.6	398^{8}
0+00					5.1	398^{3}
~~0+00~~					403.43	
	5.10	403.43	—	398.33		

B.M. = ½ Δ $2+17^{36}$ (P22 & 24)

See p 45 - line change

Portion Lot. 8.

check 1+43 - P.O.T.

Page 34 5.47 422.57 (422.53)

1+32 34' Lt. = N.W. cor. house

0+92

0+88

427.1

426.2

0.9
343
Floor
level

1.8
34
Ond

426.2

1.8

425.0

3.0

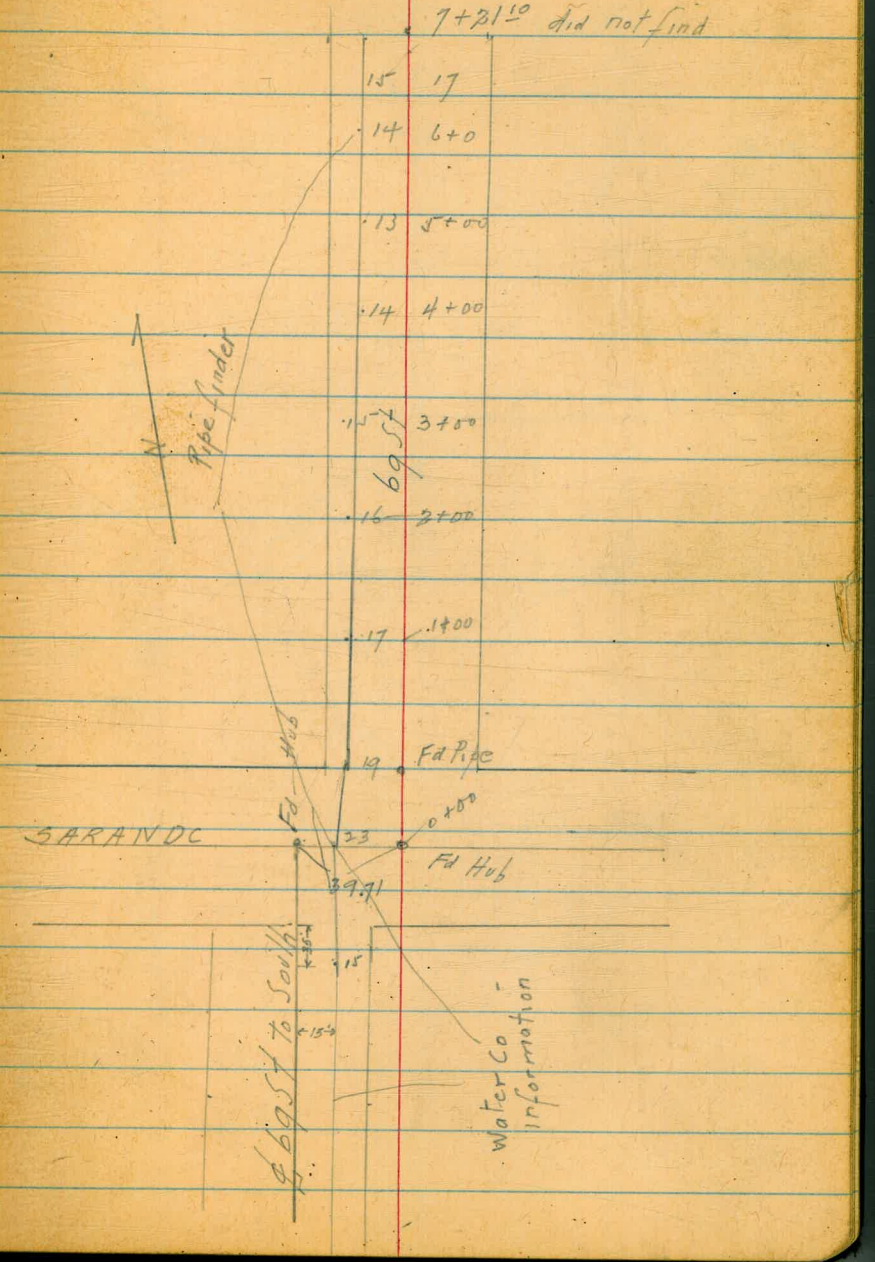
423.2

4.8

428.04

Location of 24" Water Line
by Finder
8/15/50

Begg
Allan
Sisson
Pope



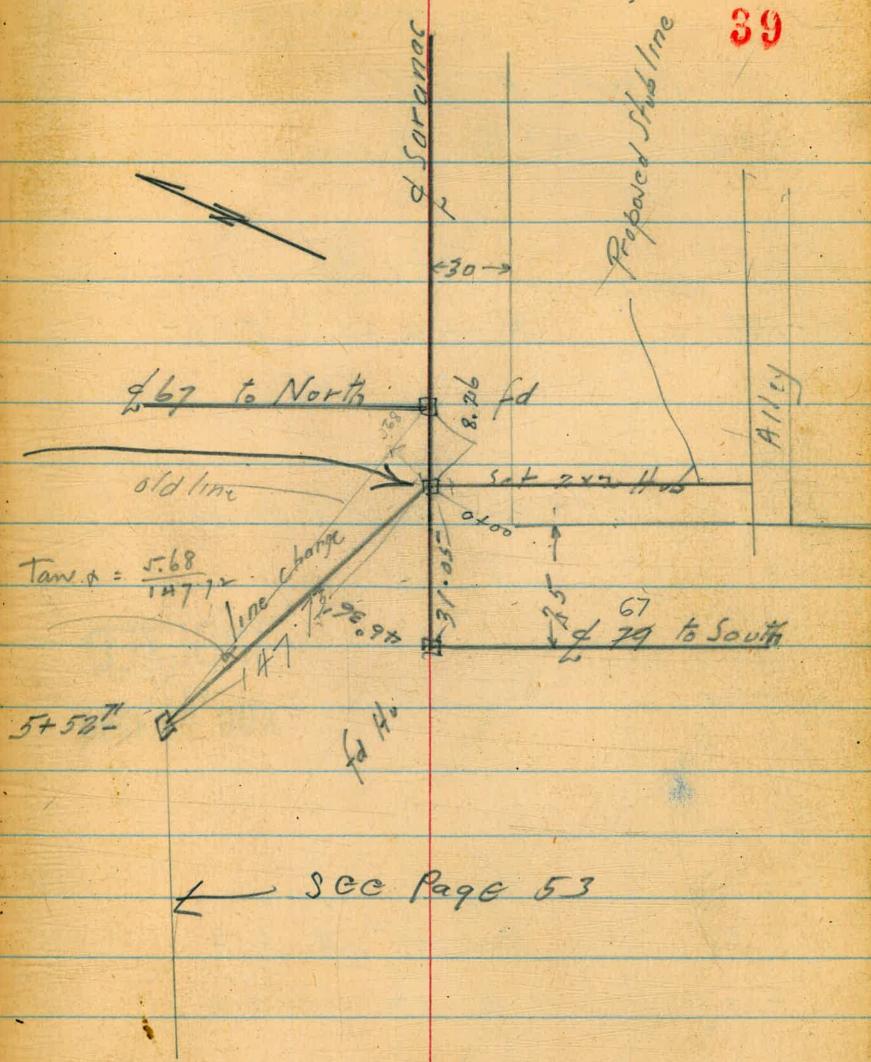
La Mesa Colony
Sewer

Begg
Johnson
Allan
Hatch

Line change
See p 22
8/17/50

See P 53

153 41
5 68
147 73



See Page 53

67 St. from Saranac to South to Alley line +or-

In private property.

0 + 84	14° Rt Acacia	
0 + 61	14 Rt Acacia	447'
0 + 51	BC conc walk 2.5 Lt	4.9
0 + 46	130 Lt N.W cor House	
0 + 40	35 R bush · 14 Rt Acacia	
0 + 30	Prop Line	446.5 5.5
0 + 22	Pepper on Lt	
0 + 20	Hydrant 4' Left	
0 + 17	1' R 12" corr pipe	
0 + 00		

6.10 45 H.I. 1.95 445.85 B.M. on hub p.27

	67 St	South from Saranac	
1+24	19 Lt	NW cor	
			449.0
			3.0
			floor elev
1+20.5	5	edge of drive	447.48
			4.47
			447.48
1+12.5	N	edge of 8' con. driveway	6' Rt end of drive 4.47
1+05	8.5 L	Pine Tree	
1+05	14.0 R	Acacia	
1+05	℄ Bush	Tel pole 7.0 R	
			447.08
+95	crosses	2.5 conc Walk	Conc 4.87
0+91	13 Lt	S W cor House	

67 St South from Saranac

1+64	SW cor House 13.5 Lt	
1+52	acacia 14 Rt	
1+79	acacia 14 Rt	

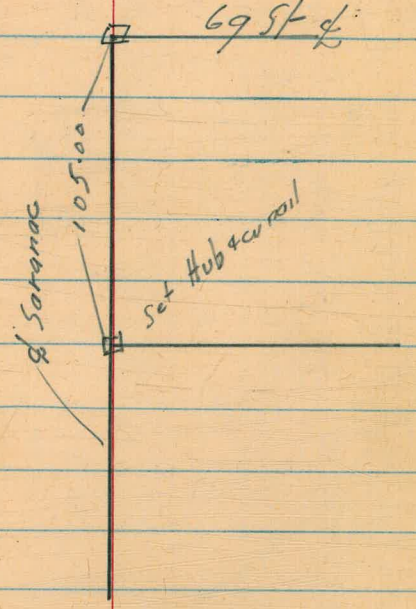
A479

A1

Saranac St Stub to
School House

counter manded
8/18/50

℄ 6g St



Survey for line change of Sewer

Saranac & C

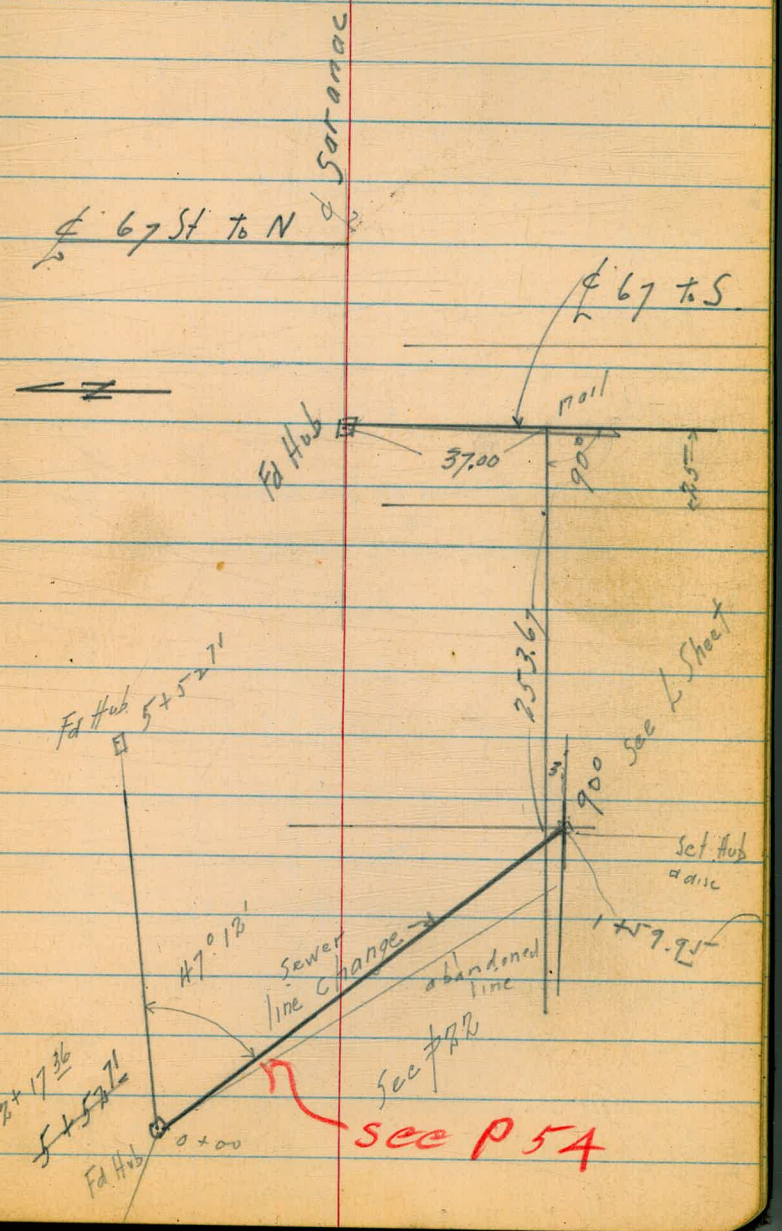
8/18/50 WO 31644

Begg

Johnson

Allan

Hatch



Levels — Sewer line Levels

Begg — 8/18/50 WO — 316 44

Johnson

Allen
Hatch

0 + 70

0 + 50

0 + 37

0 + 36 — 3 strand wire fence

0 + 35 — loose boulder wall

12.49 410.82 HI

2 + 17.5 = 00 — 398.33 Hub

for line change — See p 44 & L sheet

407.8
3.00
405.0
5.8
402.2
7.9
7.8
401.8
9.0

page 24 — 398.33 P 24

1+59 9.5				424.0	
				+0.1	
	1.40	422.54	on old Hub P37 if abandoned survey	419.2	
1+50				4.7	
				412.6	412.96 412.85
1+30				11.3	10.98 11.09 Invt 4.5 RF Twin 12" Pipe
				410.0	
1+26				13.9	
				411.9	
1+18				12.0	
T.P.	13.52	423.94	0.40 418.42	423.94	
				409.2	
1+00				0.9	
				410.82	

Gas line location

68th

North of Saranac.

□ = Fd ½ Hub

——— = Gas line

Sommermeyer
Johnson
Allen
9-6-50

FB 1762

2+30

INDEXED
SEP 7 1950

1+30

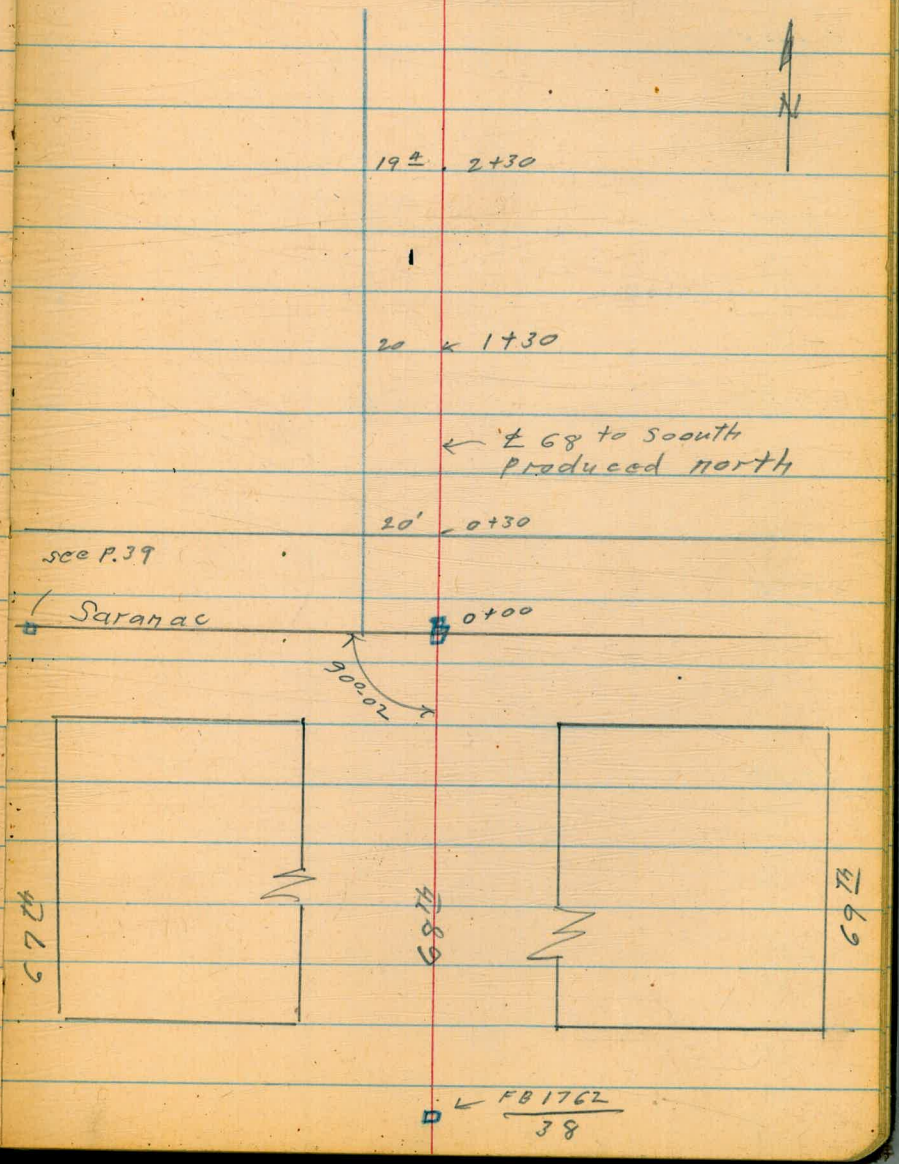
0+30 Nly. line Saranac.

0+00 = ℄ Saranac

Have no data from which to locate 68th north of Saranac in reference to 68th south of Saranac. See map of area.

℄ 68
Produced from
South

47



Gas line location - 68th St.
North of Saranac.

6+05

5+70

5+37

5+30

4+30

3+30

℄ 68th
Produced from
South of Saranac.

14e

17±

17±

18e

18±

19e

La Mesa Colony

North of Lots. 36 + 37

9-19-50

Sommermeyer
Johnson π
Allen

□ = set hub + disk
□ = Fd. " " "
○ = Fd pipe

See page 28

P.O.T. #1 = 12+35 El. = 448.6

273'

9+62 - Notes from here on by Stadia

9+62 - (P.28)

BM #1 P-31
El.: 449.81

2"
2½"

wly line
Lot 37

Orig. line
Page 28

89°-56'-30"

0+30 P.28
℄ Saranac

Alvarado sewer
Under Const.

18+09 = Aprox. Intersection Future
Alvarado sewer

16+26 = ℄ E.+W. wash

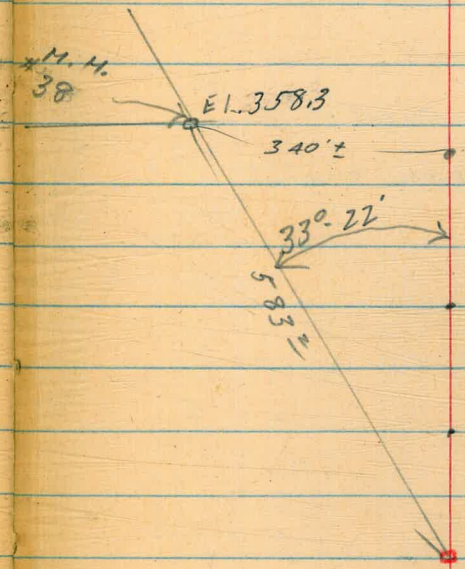
15+72 Grd. shot. (no Hub)

14+31 P.O.T. #3

13+67 P.O.T. #2

12+93 Ground (no Hub.)

12+35 P.O.T. #1

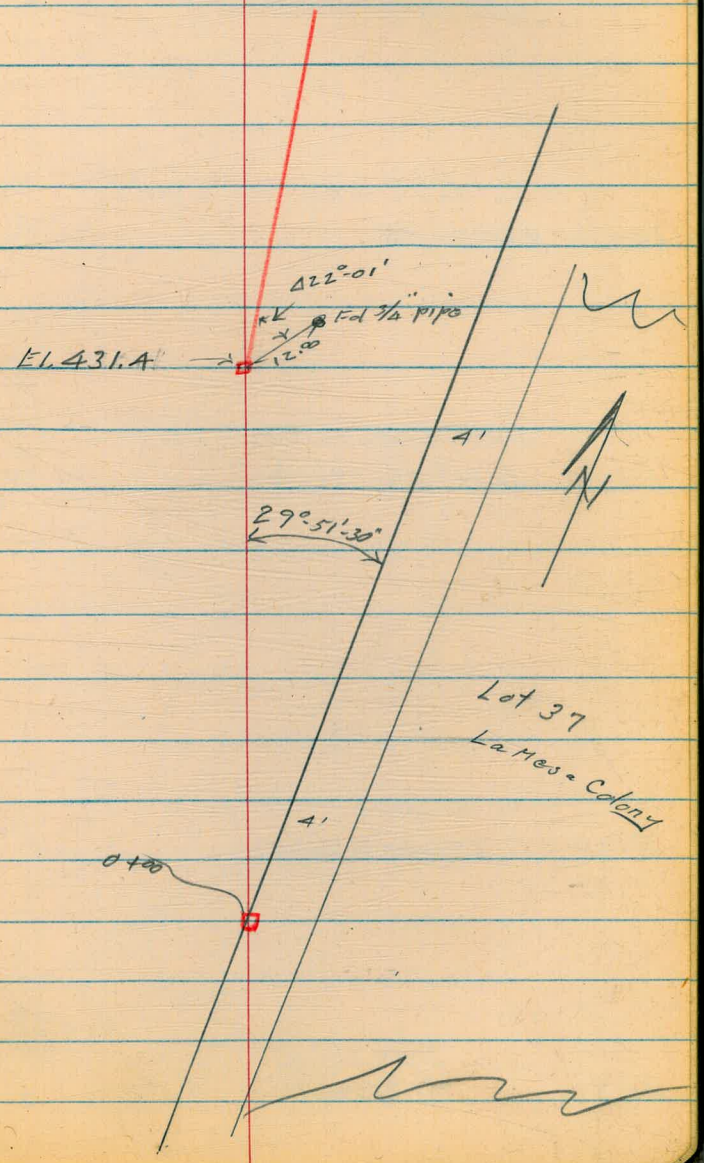


Thru Lot 36 La Mesa Col.
To Alvarado canyon line

■ = Set Hub + disk
□ = Fd. " " "

(6' Lt. = ℄ wash El. = 429.0)

2+43 - Δ = 7°-19'-30" Rt. Δ #1



=0+00
2+18.5 ± Page 28 = 0+00 Hub El. = 440.2
on Hub at 0+00 5.5 440.2
4.9 445.7 " 440.8
El. 2+00 P.28 = 440.8 +

20+44 = 162+66 M.H.#37 Alvarado Canyon line.

10' Rt. = ℄ wash · El. 370±

14+32 Δ 0°-11' Rt. △ #5

3' Rt. = ℄ Wash - El.: 381±

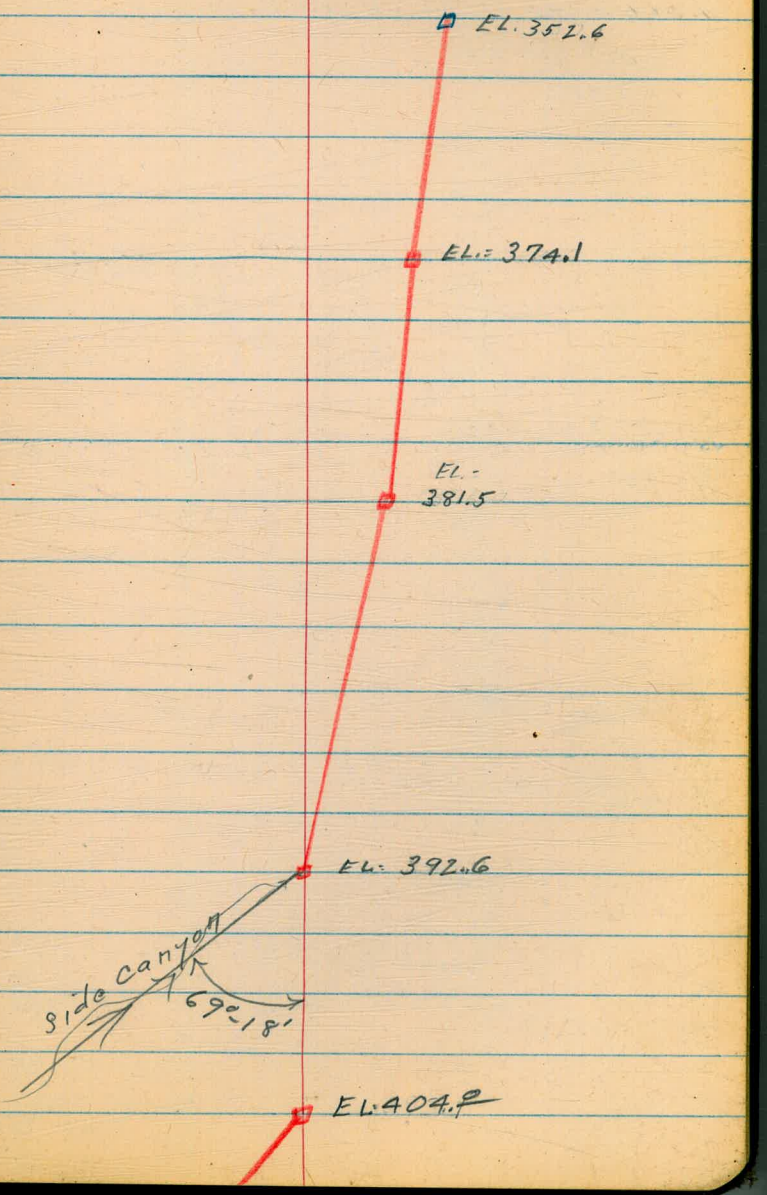
11+43 - Δ 11°-21'-30" Lt. △ #4

In wash

8+57 Δ 38°-28'-30" Rt. △ #3

Δ 27°-08' Lt.

6+80. In wash △ #2

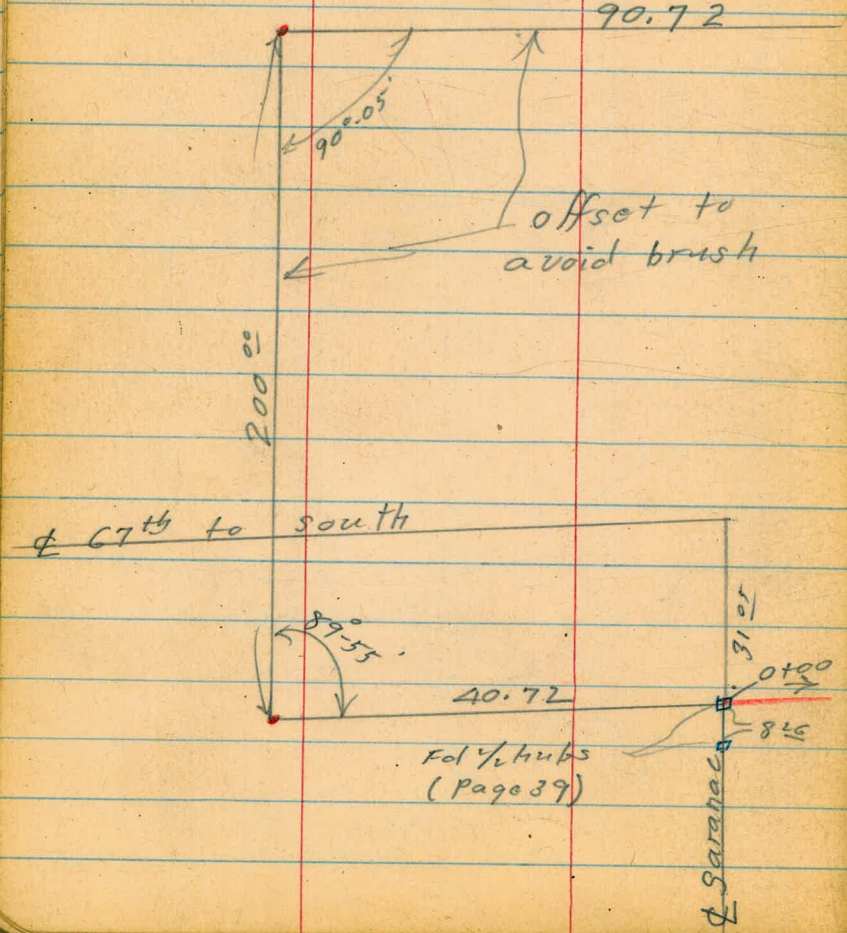


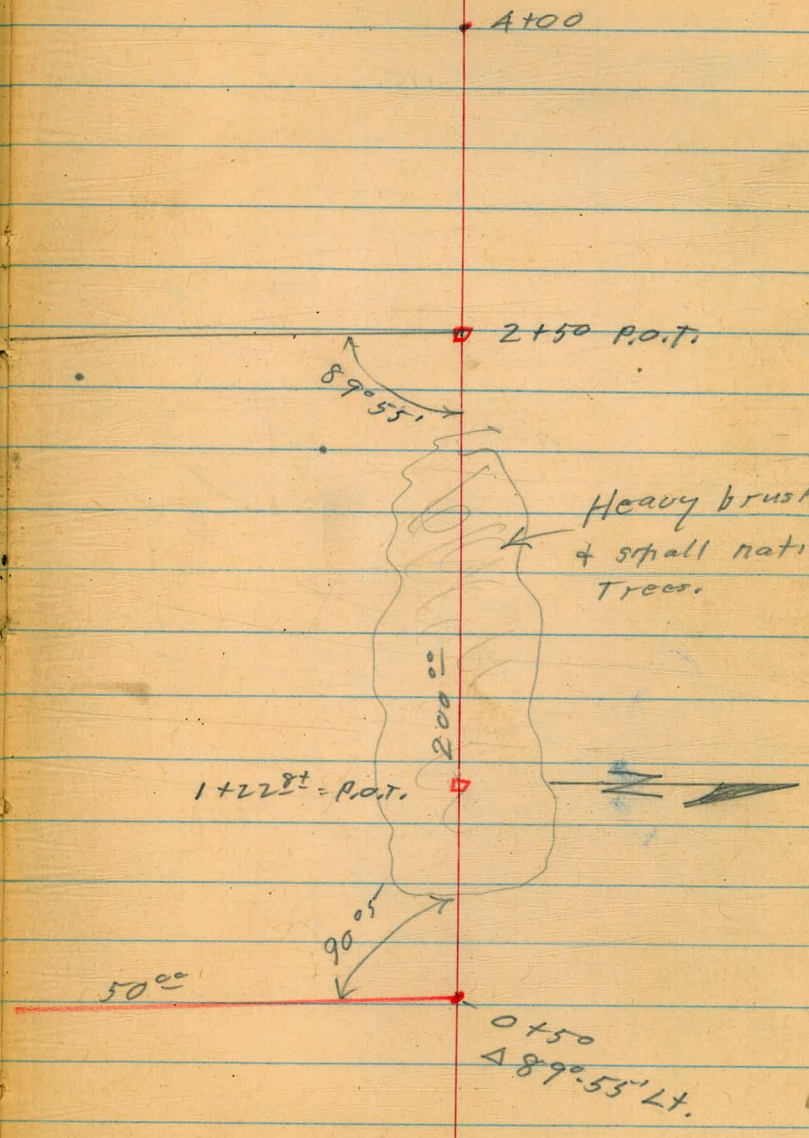
From 67th & Saranac
Wly. to Reservoir Dr. Sewer line

Sommermeyer
Allen
Lockhead

9-27-50

□ = set ½" dish
● = Nail.
□

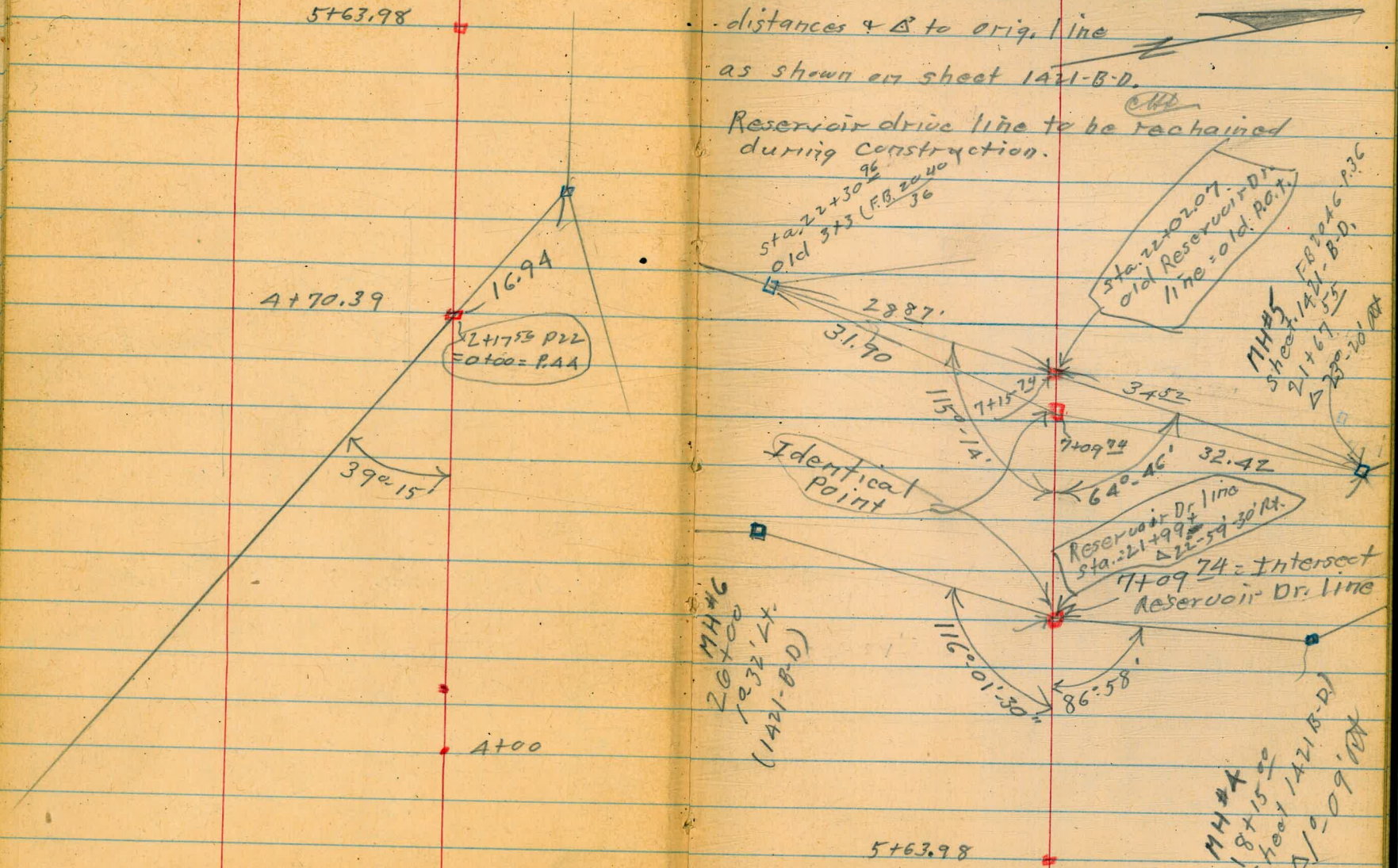




Note.

This sketch off scale so to better show distances & Δ to orig. line as shown on sheet 1421-B-D.

Reservoir drive line to be reclaimed during construction.



℄

0+90

0+72

10² Lt.: start wire fence
0+62 = cross wire fence

0+52 = end oil pave

0+50 = Δ

0+00 = (0+00 P-39)

4.74 450.59

445.85
7+06¼ (P-27)

438.3
12.3

440.6
10.0
10

439.6
11.0

439.9
10.7
10

444.9
5.8

445.7
4.9

445.8
4.8
Nail

446.12
4.47

450.59

0.81 431.95 12.41 431.14

3+05 = Cross Wire fence

2+90 $11\frac{2}{}$ Lt. = line of fence

2+50 $\frac{00}{}$ = P. O. T.

2+36 $\frac{5}{}$ = Cross Wire fence

2+36 - 11' Lt. = End board shed (shed is 12' X 33').

11' Lt. = start board shed on posts.

2+24 $10\frac{5}{}$ Lt. = line of fence

Tie 2.99 443.55 10.03 440.56

1+80

1+50

1+22 $8\frac{5}{}$ P.O.T. 10' Lt. = line of fence.

&

431.0 / 12.6 / 10 — 429.7 / 13.9 — 427.3 / 16.3 / 10

434.48

9.07

446

442.9 / 0.7 / 11 / Floor of shed — 440.3 / 3.7 / 10 — 438.6 / 5.0 — 436.4 / 7.4 / 10

443.55

444.3 / 6.3 / 10 — 442.9 / 7.7 — 440.8 / 9.8 / 10

444.5 / 6.1 / 10 — 443.3 / 7.3 — 441.3 / 9.3 / 10

443.6 / 7.0 / 10 — 442.9 / 7.7 — 440.9 / 9.7 / 10

450.59

715.74
563.98
151.76

709.74
563.98
145.76

℄

57

5+63.98 ½ P.O.T.

11' Lt.= Line of fence
5+21 11' Lt.= end of rock wall

5+10

12' Lt.= line of fence + rock wall
4+70.39 ½ P.O.T. =

11' Lt.= line of fence..
4+30 11' Lt.= start 2' High loose rock wall

T.P.	1.60	408.08	13.10	406.48

3+90 12' Lt.= line of fence

T.P.	0.38	419.58	12.75	419.20

3+35

407.4,	404.09	400.5,
0.7/10	3.99 Hub.	7.6/10
404.4,	401.4,	398.7,
3.7/10	6.7	9.4/10
403.0,	400.15	398.9,
5.1/10	7.93 Hub	9.2/10
401.9,	401.2,	401.9,
6.2/10	6.9	6.2/10

408.08

412.1,	409.8,	407.1,
7.5/10	9.8	12.5/10

419.58

424.3,	423.3,	421.7,
7.7/10	8.7	10.3/10

431.95

6+97

6+88 Bottom of N+S. Wash

6+76 = cross wire fence.

6+65

T.P. 0.49 396.15 12.42 395.66

6+45: cross wire fence

6+35

5+91 - 10.54 = Δ in fence

384.1 384.3 384.1

12.1/10 11.9 12.1/10

382.1

14.1

385.2 384.6 383.9

11.0/10 11.6 12.3/10

393.1 391.6 390.1

3.1/10 4.6 6.1/10

396.15

399.7 398.3 396.7

8.4/10 9.8 11.4/10

406.3 405.9 401.8

1.8/10 4.2 7.1/10

408.08

(Orig 38 - Page 23 - EL. 383.2) 13.05 383.10 ✓

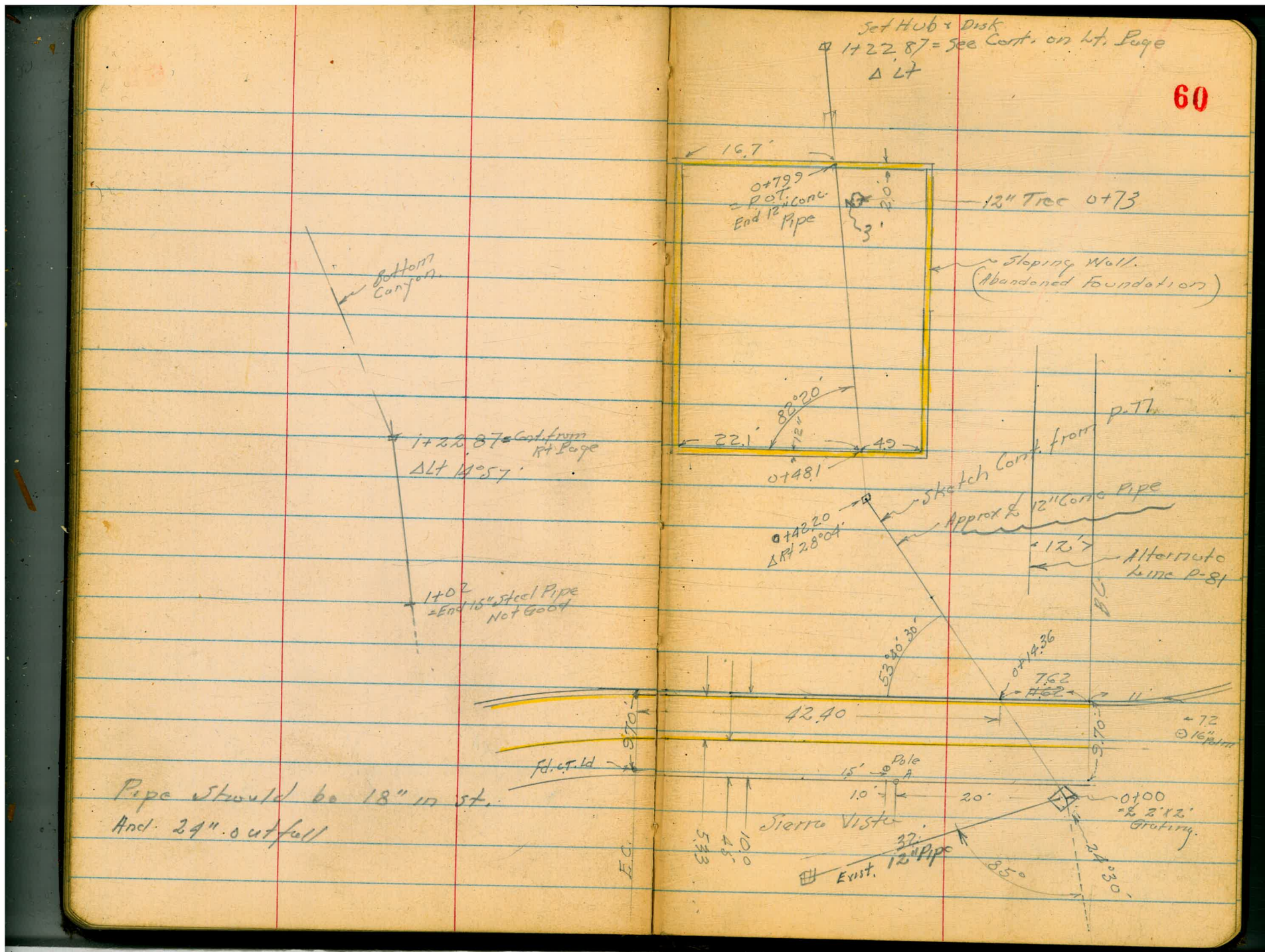
15' Rt. = line of wire fence
7+15.24 = Intersect Reservoir Dr. line

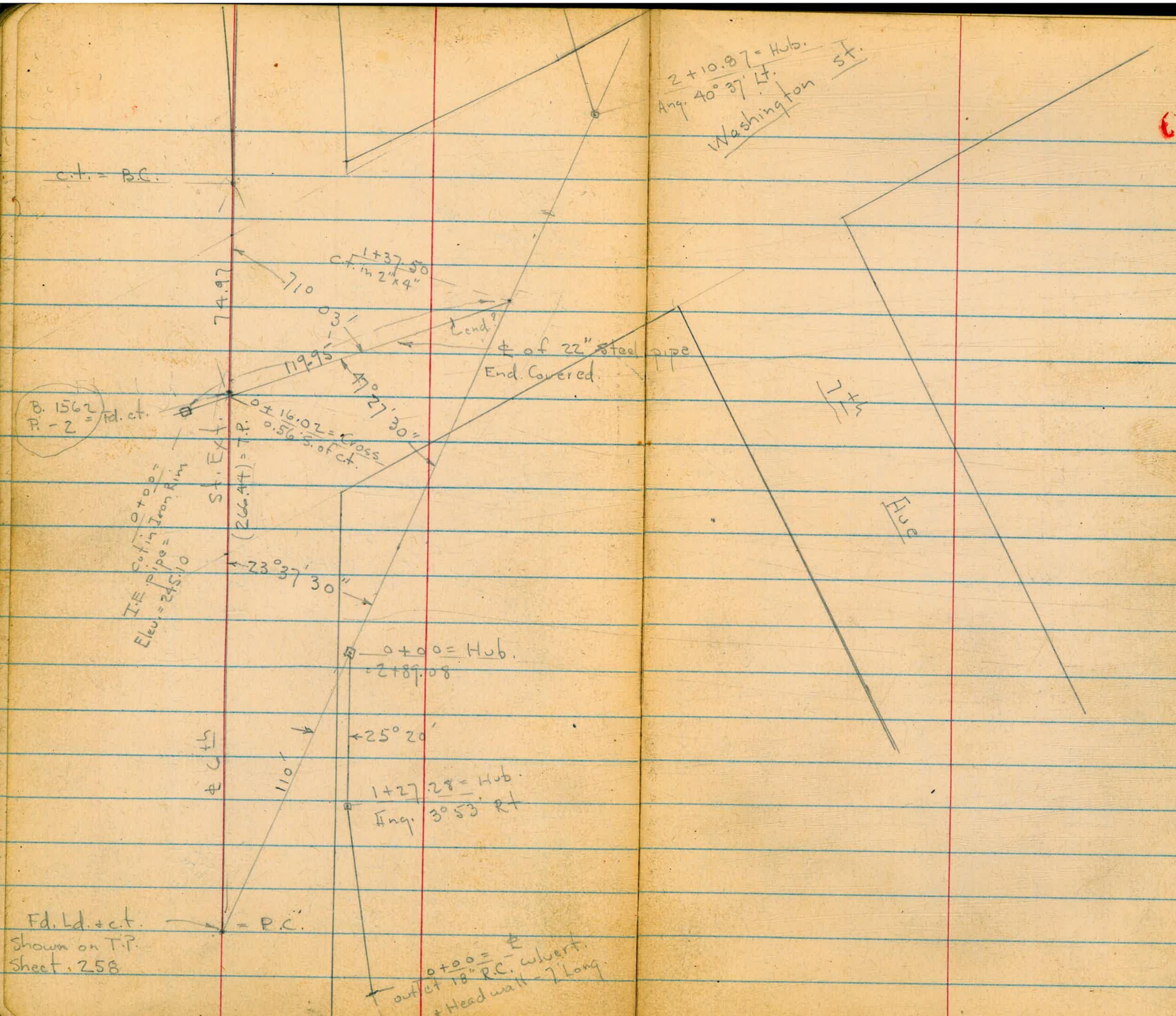
384.7
11.5
10

384.17
11.98
Hub

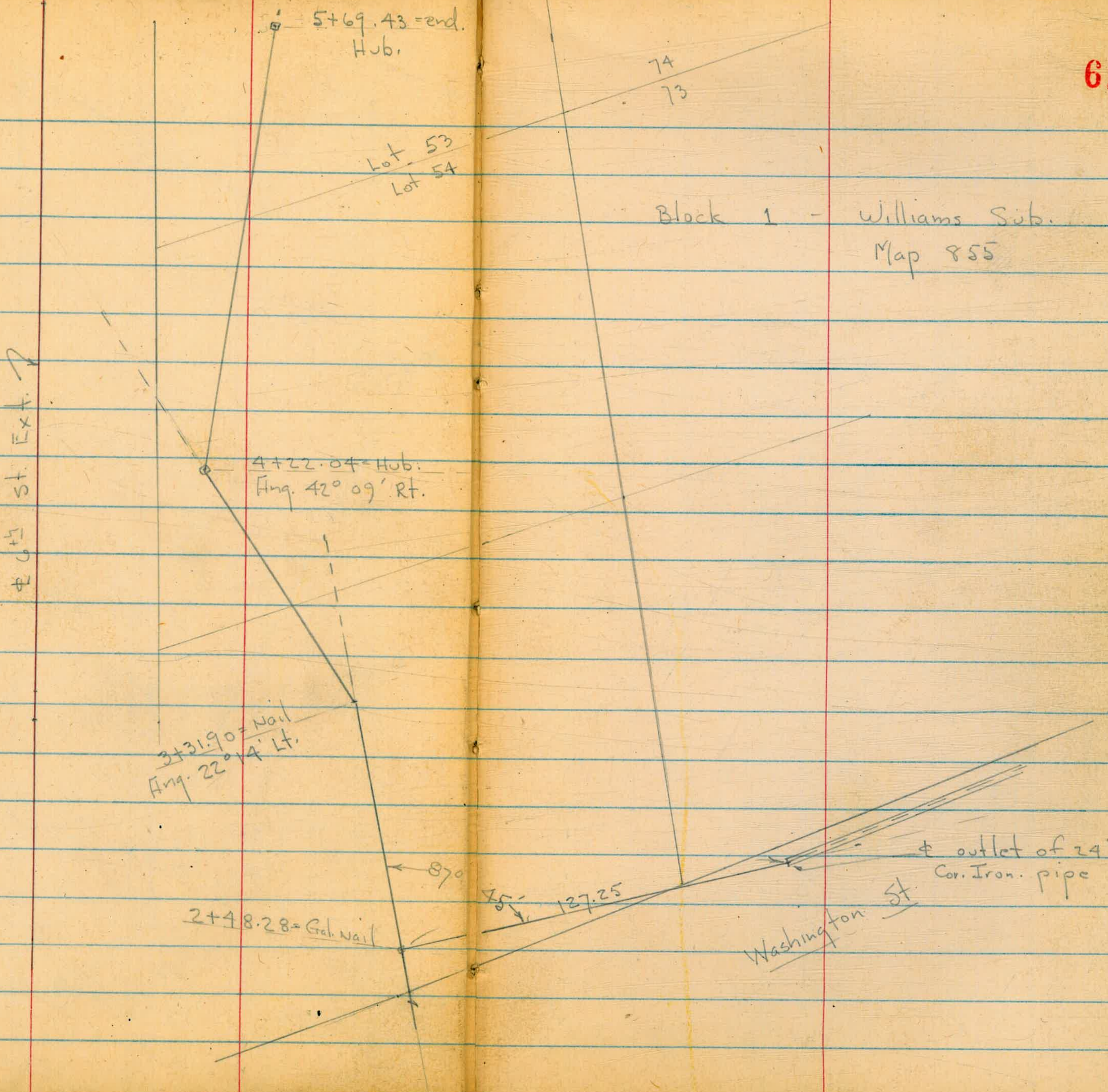
383.8
12.4
10

396.15


Set Hub & Disk
1+22.87 = See Cont. on Lt. Page
Δ Lt
16.7'
0+79.9
= R.O.T. Conc. End 12" Conc. Pipe
12" Tree 0+73
3'
Sloping Wall. (Abandoned Foundation)
Bottom Canyon.
1+22.87 = Cont. from Rt Page
Δ Lt 14°57'
82°20'
22.1'
4.9
0+48.1
p.T.
Sketch Cont. from
Approx. 12" Conc. Pipe
0+42.20
Δ Rt 28°04'
12'
Alternate Line P-81
1+02 = End 15" Steel Pipe Not Good
53°30'30"
0+14.36
7.62
42.40
9.70'
Fd. C.T. Ld
15'
Pole A
1.0'
20'
0+00 = 2 2'x2' Grating.
Sierra Vista
5.33
4.0
1.0
32'
12" Pipe
Exist.
85°
24°30'
E.C.
Pipe should be 18" in st.
And 24". o cut/fill



c.t. = B.C.
1+37.50
c.t. in 2"x4"
7'10
74.97
03'
End?
℄ of 22" Steel pipe
End Covered.
119.95
47° 27' 30"
B. 1562
P. - 2
= Fd. c.t.
0+16.02 = Cross
0.56 S. of c.t.
St. Ext.
(266.44) = T.P.
0+00 =
c.t. in Iron Rim
I.E. pipe =
Elev. = 245.10
23° 37' 30"
0+00 = Hub.
= 2+89.08
25° 20'
℄ C.t.
110'
1+27.28 = Hub.
Ang. 3° 53' Rt
Fd. Ld. + c.t.
Shown on T.P.
Sheet. 258
= P.C.
0+00 = ℄
outlet 18" R.C. culvert
+ Head wall - 7' Long
2+10.87 = Hub.
Ang. 40° 37' Lt.
Washington St.
7th St.
Ave


5+69.43 = end.
Hub.
Lot 53
Lot 54
74
73
Block 1 - Williams Sub.
Map 855
℄ 4th St. Ext. ?
4+22.04 = Hub.
Ang. 42° 09' Rt.
3+31.90 = Nail
Ang. 22° 14' Lt.
87°
2+48.28 = Gal. Nail
45'
127.25
℄ outlet of 24"
Cor. Iron. pipe
Washington St.

Levels along ℄ of Prop. Drain - E. of 6th± St. extention - Washington St. - N.

4810 11-17-50

W.O. 20755 7.0.

1+37.50 = Int. with approx. ℄ of 22" steel pipe - end Covered - end = 21'? Lt. - along Line

1+00

0+96.5 - 14.2' Lt. = Near Cor. Conc. Bridge Gl.

0+50

0+00 = Toe of Fill slope on Lt.

	0.60	236.20 ✓	12.71	235.60 ✓
	1.11	248.31 ✓	12.48	247.20 ✓ = ct. 6th ± ℄ Washington R.O.W.
	0.26	259.68 ✓	13.19	259.42 ✓
	0.67	272.61 ✓	13.02	271.94 ✓
B.M.	1.09	284.96 ✓		283.87 = N.W. B.P. - 6th ± Univ.

Lt.		℄		Rt.
233.✓	227.8	226.71	225.✓	228.5
3.0	8.4	9.49	11.0	7.7
12	3		15	30
	Toe		℄ wash	
231.7	226.3	225.3	225.7	225.8
4.5	9.9	10.9	10.5	10.4
15	6		15	30 = Toe
	Toe fill			
233.1	227.5	227.1	227.7	231.1
3.1	8.7	9.1	8.5	5.1
20	9		15	25
	Toe	℄ wash		
		2" I.P. ✓		
		5.00 = on Hub. 236.20	230.3 5.9 14	℄ wash

Lt. ℄ Rt.

3+00 — 230.8 2.0 / 10; 225.4 7.4 on Hard Conc.; 222.5 10.3 / 6 ℄ wash; 224.0 8.8 / 14; 225.5 7.3 / 30

2+70 — 230.9 1.9 / 10; 226.1 6.7; 224.0 8.8 / 6 Toe; 223.6 9.2 / 12 ℄ wash; 227.4 5.4 / 22

225.08 ↓ 7.73 225.08 on Nail

Levels - Later - See P. 67

2+48.28 = Tie to 24" Culvert on Rt.

Waste Conc. from old plant - pretty Hard.

2+30 = ℄ Wash = Beg. Conc. Bottom in Wash — 230.0 2.8 / 15; 224.9 7.9 / 7 Toe; 224.2 8.6; 224.4 8.4 / 7 Toe; 232.7 0.1 / 19

2+27 - 31.8 Lt. = ℄ Sewer M.H. - Top = Top fill

2+21.5 - 13.6' Rt. = Near Cor. Conc. Bridge Col.

2+10.87 = Ang. 40° 37' Lt. - Sect. on split — 230.6 2.2 / 25; 225.6 7.2 / 15 Toe; 223.9 8.9 / 5 ℄ wash; 222.36 10.45 on Hub; 230.9 1.9 / 10

T.P. 7.06 232.81 ✓ 10.45 225.75 = Hub 2+10.87 — 232.81 ✓

1+90 — 224.6 11.6 ℄ wash

1+70 — 232.8 3.4 / 10; 226.6 9.6; 223.9 12.3 / 4 Toe; 226.1 10.1 / 15 wash; 225.0 7.2 / 25

236.20

4+91 = 15.7' Lt. - ℄ 24" Evc.

4+81.88 = Cross 12" Gas Main

4+50

B.M. on Hyd. 4+22.04 2.86 204.29 ✓

T.P. 0.53 207.15 ✓ 13.14 206.62

4+22.04 = Ang. 42° 09' Rt. - Sect. on split

4+15 - 9' Lt. = ℄ 24" Evc.

Wash Conc. in wash from Here on

3+85 = end of Solid Conc. in Wash + fill

3+70

T.P. 0.12 219.76 ✓ 13.17 219.64

3+31.90 = Ang. 22° 14' Lt. - Sect. on split

Lt. ℄ Rt.

200.55

6.60 = Top Pipe

207.7 ✓ 204.8 202.4 203.8 213.4

0.0 -4.7 4.8 3.3 +6.2

20 12 3 15

wash

207.15 ✓

213.5 204.6 204.5 204.6 213.0

6.3 15.2 15 3 15.2 6.8

20 6 12 25

fill = Toe wash

210.9 208.1 208.1 221.3

8.9 11.7 11.7 +1.5

22 ℄ wash 2 20

Conc. fill

213.4 211.7 211.7 221.6

6.4 8.1 8.1 +1.8

15 ℄ wash 4 15

Conc. fill

219.76 ✓

226.7 221.7 219.0 222.9 223.0

6.1 11.1 13.8 9.9 9.8

20 10 ℄ Conc. 8 26

on wash Bot.

Conc Bank

232.81 ✓

5+69.43 = Hub = End.

5+52.5 - 12' Lt. = ℄ 14" Euc.

5+43 - 7' Rt. = ℄ 10" Euc.

5+42.5 - 13' Lt. = ℄ 10" Euc

5+41 - 19' Lt. = ℄ 18" Euc.

5+40

5+36 = 11' Lt. = ℄ 5-6" Euc.

5+35 - 12' Rt. = ℄ 30" Euc.

5+35 - 5' Rt. = ℄ 2-10" Euc

5+31 - 10' Lt. = ℄ 24" Euc.

5+28 - 8' Rt. = ℄ 30" Euc.

5+22 - 5.5' Lt. = ℄ 10" Euc.

5+11 - 8' Lt. = ℄ 8" Euc. - Dead.

5+11 - 4' Lt. = ℄ 18" Euc. - Dead

T.P. 1.54 195.63 ✓ 13.06 194.09 ✓

5+00

4+96.5 - 26.3' Lt. = ℄ Sewer M.H. 3.94 on Rim

4+92 - 21' Lt. = ℄ 24" Euc.

Lt.	℄	Rt.
189.✓ 6.4 25	187.9 7.7 18 wash	187.66 7.97 on Hub.
187.8 7.8 5	193.8 1.8 20	
193.9 1.7 30	189.6 6.0 17	189.7 5.9 ℄ wash
189.7 5.9 8	190.5 5.1 20 inside wash	196.9 +1.3 30 on S. Bank.
200.8 6.3 27	193.6 13.6 16 wash	193.8 13.4
203.6 3.6 20		

195.63 ✓

207.15 ✓

Beg. Levels along ℄ of Prop. Side Drain
Sta. 2+48.28 to outlet at 24" Cor. Iron.

T.P.	8.28	256.72 ✓	0.56	248.44
0+72				
0+70 - ℄ at Top Bank				
T.P.	11.61	249.00 ✓	all	237.39
0+55 ✓				
0+28.5 = ℄ of 12" Cor Main			10.06	226.88 Top Pipe
0+20				
0+00 = Nail = 2+48.28				
B.M. = Nail	12.42	237.50 ✓		225.08 ✓

2+48.28 - P.64

Lt. ℄ Rt.

Lt			℄		Rt
241.1	238.4	233.6		237.7	239.5
7.9	10.6	15.4		11.3	9.5 ✓
15		3		12	20
		&wash			

230.5
18.5

249.00 ✓

233.1	232.6	226.2	226.4	226.4	235.1
1.4	4.9	11.3	11.1	11.1	2.4
15	7	4	wash	2	14

237.9	234.4	225.1		230.2
9.6	13.1	12.4		7.3
17	13			11

225.08
12.42
on Nail

237.50 ✓

Lt. ℄ Rt.

1+27.25 = outlet 24" C.I. pipe = end.

1+10

251.6 256.55
5.1 0.17
ground. I.E.
Pipe

252.6 251.0 247.2 252.0
4.1 5.7 9.2 4.7
10 256.72 5 12
℄ wash

INDEXED

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Beging Levels along ℄ of Prop Drain Extention from outlet of 18" R.C. Culvert from 6th ± Univ. to - 0+00 on P. 61

-1+27.28 = Ang 3° 53' Rt. - Sect. on split

1+14 - 9.5' Rt. - ℄ 6" Euc.
1+09 - 21' Lt. - ℄ 24" Euc.
1+00

0+79 - 9' Rt. - ℄ 6" Euc.

0+59 - 5.5' Lt. - ℄ 20" Euc.

0+51 - 5.5' Lt. - ℄ 12" Euc.

0+50

0+06

Seems to seep underground.

Note: Ext. Waterway wanders to E. and

0+00 = Cross on Top of 7' Headwall at ℄ of outlet of 18" R.C. Pipe

4.98 276.92 271.94 = T.P. -P.63

Lt.	℄	Rt.
	266.4 / 10.5 / 15	269.2 / 7.7	268.9 / 8.0 / 20
267.6 / 9.3 / 20	268.9 / 8.0	268.9 / 8.0 / 20
269.14 / 7.78 / 31 edge Conc. Pave	270.4 / 6.5	269.8 / 7.1 / 20	268.3 / 8.6 / 50 ℄ waterway
271.9 / 5.0 / 10	272.6 / 4.3	270.5 / 6.4 / 4	273.0 / 3.9 / 7
		℄ Small Ditch = waterway
	269.57 / 7.35 IE. Pipe	272.03 / 4.89 Top Hedwall

276.92

P. 63

check Hub 0+00		9.97	231.20
2+89.08 = end = 0+00 ahead.			
2+67 - 5.5' Lt. = ℄ 6" Euc.			
2+62 - 24' Rt = ℄ 12" Euc.			
2+55 - 22' Rt. = ℄ 14" Euc.			
2+45			
2+27 - 13' Rt = ℄ 12" Euc.			
2+15 - 17' Rt. = ℄ 14" Euc.			
2+03 - 17.5' Rt. = ℄ 10" Euc.			
2+00			
T.P.	2.14	241.17 ✓	12.65 239.03
1+91 - 12' Rt. = ℄ 24" Euc.			
1+90			
1+76 - 11.5' Rt. = ℄ 18" Euc. (Trees on Rt. are wtly. of large grove)			
1+70 = on N. side of old fill			
1+69 - 6' Lt. = ℄ 16" Euc.			
	0.07	251.68 ✓	13.14 251.61
T.P.	0.70	264.75 ✓	12.87 264.05

Notes Reduced 11-27-50

Lt ℄ Rt

243.4	231.20	230.2	232.6	
+2.2	9.97	11.0	8.6	
15	on Hub.	15	34	
246.4	234.6	233.1	232.9	236.7
+5.2	6.6	8.1	8.3	4.5'
15	Toe	3	14	25
249.2	236.7	236.4	240.5	
+8.0	4.5'	4.8	0.7	
15	Toe	12	20	

241.17 ✓

238.9

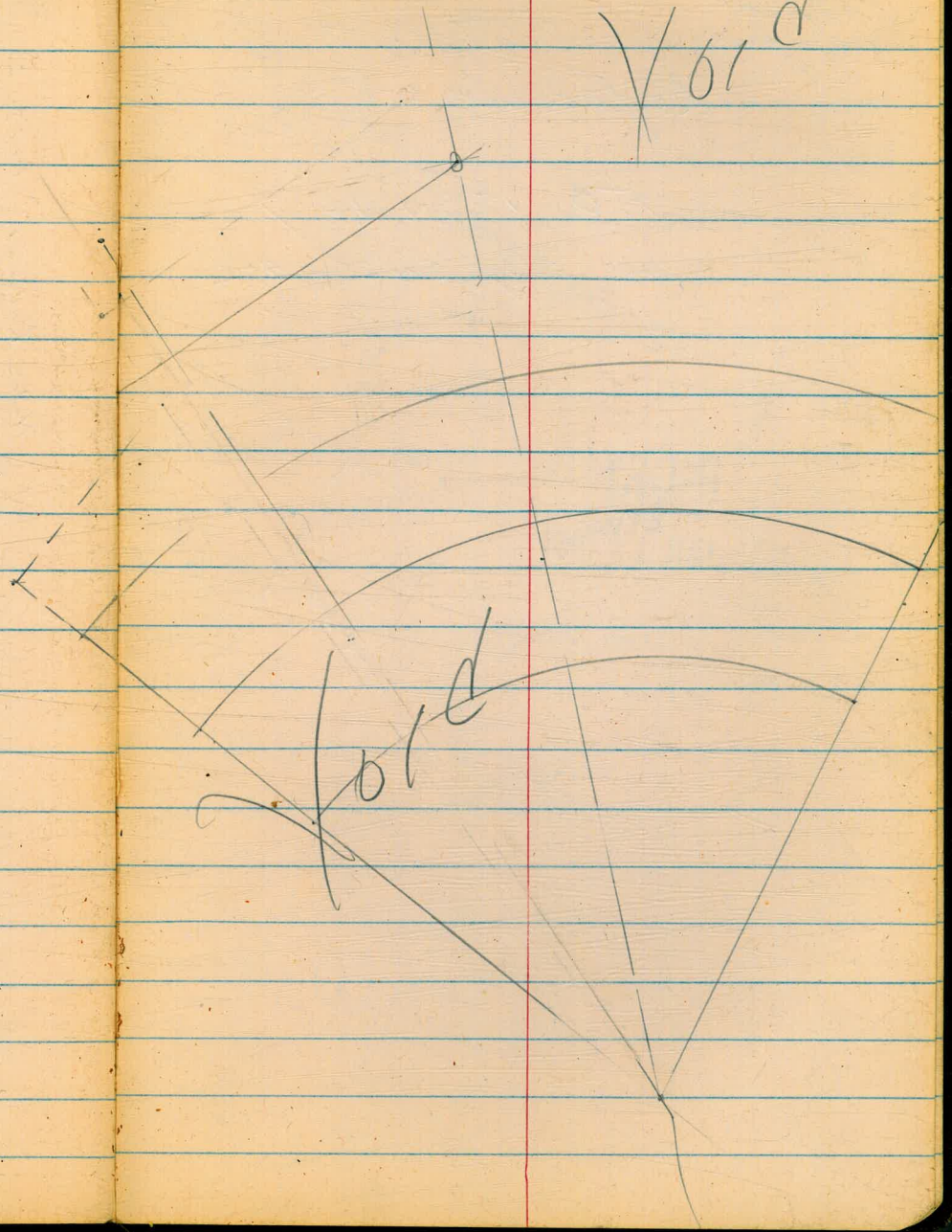
12.8

251.8	246.9	248.0	251.7	
+ 0.1	4.8	3.7	0.0	
15	9		20	
	Toe			
	T.W.			

251.68 ✓

276.92 ✓

Ford



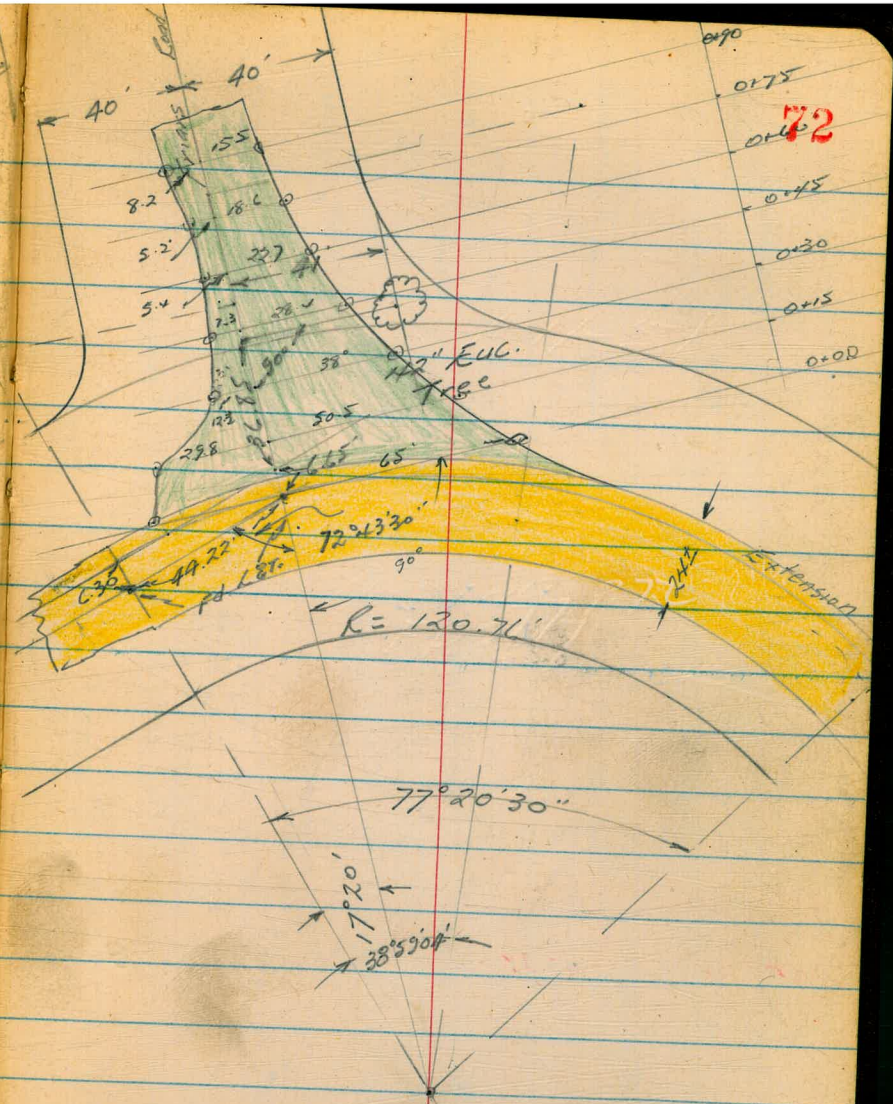
Locate Tree Intersection
Hendricks Friars Road & 64th St.
Shepard Extension
Crawford

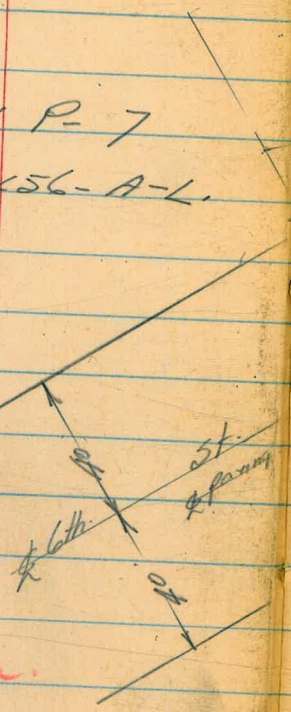
Reference:

FB 1534 P. 7

and Dwg. 5456-A-L.

Plotted by Remington.
See 4191-B.





Sierra Vista Drain

Cont Rt. Page 80

				Lt.			Rt.
1+63				222.7 / 7.0 / 10	220.7 / 9.0 / 5	218.0 / 11.7 / Ditch	220.1 / 9.6 / 5	222.30 / 7.4 / 10
1+33				222.7 / 2.0 / 10	226.4 / 3.3 / 5	224 / 7.3 / Ditch	225.5 / 4.2 / 5	228.5 / 1.2 / 10
1+28				229.7 / 0.0 / 10	228.3 / 1.4 / 5	227.4 / 2.3 / 227.79 / 19 on Hub. / 229.70 ✓	229.7 / 6.0 / 5	227.4 / 2.3 / 10
1+22.87 ± Lt								
T.P. 2.05	229.70 ✓	939	227.65 ✓	239.0 / +2.0 / 15	238.0 / +1.0 / 11	233.3 / 3.7 / 7	237.6 / 0.80 / Invert / 237.04 ✓	233.6 / 3.4 / 0	236.20 / 0.8 / 3	234.2 / 2.8 / 10
1+10				237.6 / 2.4 / 10	228.6 / 8.4 / 5	227.6 / 9.4 / 5	231.7 / 5.3 / 6	231.0 / 6.0 / 1		
1+02 = End 15" Steel Pipe										
T.P. 0.06	237.04 ✓	1293	236.98 ✓	290.7 / 9.2 / 10	287 / 13.2 / 5	286.7 / 13.2 / 5	294.9 / 15.0 / 10			
0+92										
0+80				294.2 / 5.7 / 10	283.7 / 6.2 / 5	294.2 / 5.7 / 10				
0+79.9 - End 12" Conc. Pipe	242.91			295.66 / 4.25 / 10 / Top Fdn.	299.80 / 5.11 / Invert / 242.91 ✓	299.87 / 5.04 / 0 / Top Fdn.	294.2 / 5.7 / 10 / Top Fdn.			

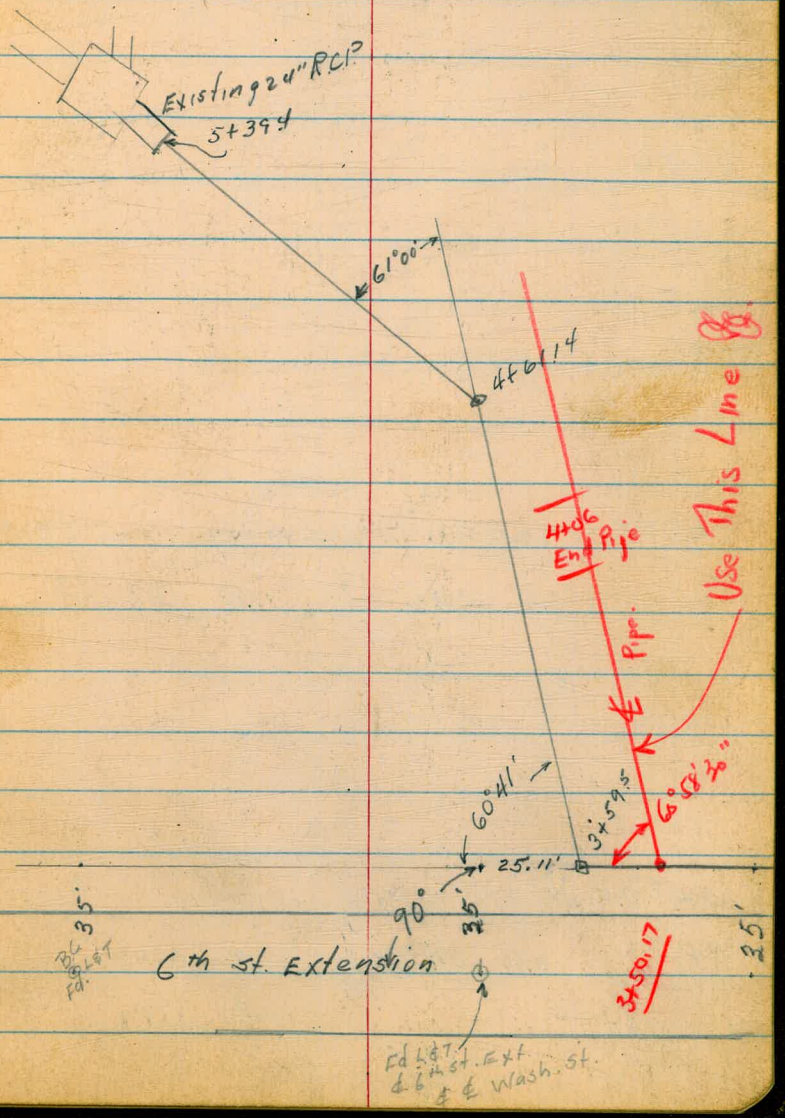
4-3-51
Pope
Clark
Huffman
W.O. 20755

Profile & Proposed Drain
6th St. Ext. & Washington
(Sta. 0+00 To 3+50
As Per Drawing 8604-L)

INDEXED
AUG 2 1951

74

3+25		8.7	249.5	
2+95.5		5.6	247.6	
2+87.5		4.4	248.8	
2+79.5		3.1	250.1	
TP	1.70	253.18 ✓	11.47	251.48 ✓
2+57.5		10.7	252.2	
2+27.5		9.0	254.0	
1+97.5		7.4	255.6	
1+67.5		6.3	256.6	
1+50		3.6	259.9	
TP	1.05	262.95 ✓	12.36	261.90 ✓
1+25		8.1	266.2	
1+00		5.5	268.8	
+75		5.3	269.0	
+050		3.5	270.8	
0+25		2.9	271.8	
0+00	FL.	4.69	269.57 ✓	
T.P. Headwall	2.23	274.26 ✓	12.13	272.03 ✓
B.M.	0.29	284.16 ✓		283.87 ✓



4+61 ℄ Angle 61° Lt.

4+50

4+25

3+98.5 ℄ South Face 4.5' x 4.5' Bridge column & Bottom Fill

T.P. 2.51 234.19 ✓ 12.28 231.68

3+74 Edge Fill

3+59.5 Angle 60°41 Rt.

TP 0.90 243.96 ✓ 10.12 243.06 ✓

3+50 1.41 238.8

253.18 ✓

Lt	℄	Rt.
6.1 / 30 (228.1)	9.1 / 20 (225.1)	9.1 / 10 (225.1) 6.2 (228.0)
9.0 / 10 (225.2)	8.7 (225.5)	7.7 / 10 (226.5)
7.2 / 10 (227.0)	8.8 (225.4)	8.8 / 10 (225.4)
6.0 / 4.5 (228.2)	6.2 (228.0)	8.1 / 10 (226.1)
	234.19 ✓	
4.0 / 10 (240.0)	6.2 (237.8)	8.7 / 10 (235.2)
5.0 / 10 (239.0)	6.4 (237.6)	7.3 / 10 (236.7)
	243.96 ✓	

5+49.40 & Existing "G" Type Cleanout

10.80 223.39
F.L.

5+39.40 Flow Line Existing 24" C.R.P.

10.33 223.86
F.L.

5+10

229.8 225.0 225.0 225.4 226.9
4.4 9.2 9.2 9.0 7.3
15 8 5 10

4+76

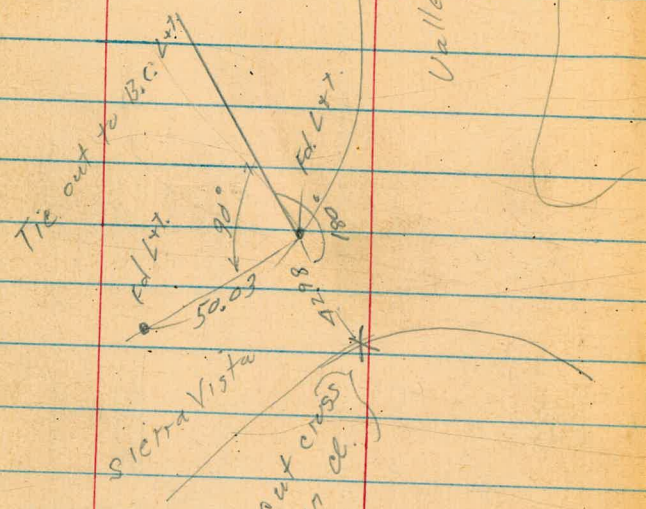
226.4 225.0 225.4
7.8 9.2 8.8
20 10

234.19

Location And Extension
Existing Culvert
on Sierra Vista & Altura Pl.

Walker
Pope
Clark
Huffman -
5-25-51

WO 20823

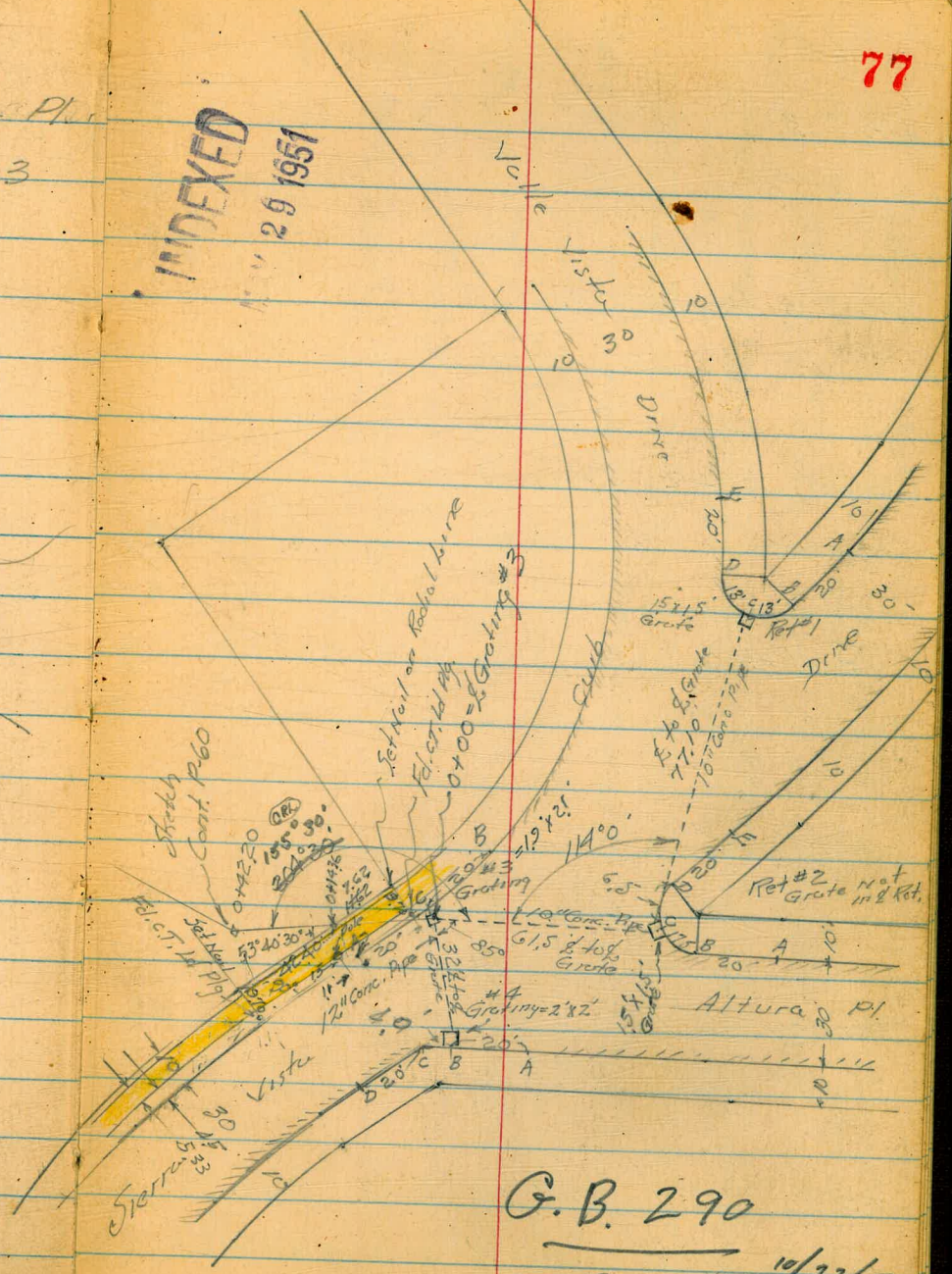


0 + 42.20 = Δ Pt.

0 + 14.36 = P.O.T. = Intr. Prop. line

0+00 = ℄ Grating #3

Set Hub.



G.B. 290
PC8
10/22/52

Sierra Vista - Drain

Ret. #3

Reading	Elevation	Point
6.54	261.12	A Gut.
5.82	261.84	A cb
6.95	260.71	C on Grating
6.02	261.64	C on cb.
9.53	258.13	C on invert 12" from #4 Grating
9.58	258.08	C on 10" Invert from #2 Ret.

Return No 4 = S.E.

Reading	Elevation	Point
4.92	262.74	A Gut
4.35	263.31	A cb
5.70	261.96	B Σ Grating
4.88	262.78	B cb
7.70	259.96	B on Invert. = Bottom Inlet Box.
5.58	262.08	C on Gut.
4.95	262.71	C on cb.
5.36	262.30	D on Gut.
4.72	262.94	D on cb

Return No 2 Cont.

Reading	Elevation	Point
5.28	262.38	D Gut
4.73	262.93	D cb.
4.92	262.74	E Gut
4.32	263.34	E cb

Ret #2.

Reading	Elevation	Point
4.72	262.94	A Gut.
4.24	263.42	A cb.
5.34	262.32	B Gut.
4.89	262.77	B Cb.
5.67	261.99	C on Grating
4.93	262.73	C on cb.
6.98	260.68	C on Flow Inlet Box
6.94	260.72	C 10" Pipe Invert.

Ret #1 Cont

Reading	Elevation	Point
4.37	263.29	E Gut.
3.76	263.90	E cb.

Return No 1

Reading	Elevation	Point
3.38	264.28	A Gut
2.82	264.84	A cb
4.31	263.35	B Gut
3.86	263.80	B cb
4.78	262.88	C Gut Grating
4.15	263.51	cb
6.30	261.36	C Inlet Box.
4.59	263.07	D Gut.
3.99	263.67	D cb

267.66

T.P.	4.87	267.66	5.82	262.79
	1.67	268.61		266.94

B.M. N.E. B.P. Fort Stockton @ Sierra Vista

Sierra Vista Drain

0+61.5 = ℄ Grate #3	6.95	260.71
0+50.	6.00	261.66
0+25	4.93	262.73
0+20	4.87	262.79
0+05	5.22	262.44
0+77 = 0+00 Ahead = ℄ Grating No 2		
0+62	4.90	262.76
0+45	4.44	263.22
0+30	4.25	263.41
0+15.	4.21	263.45
0+00 = ℄ Grating No 1	4.78	262.88

℄ Levels from ℄ 1.5x1.5 Grating Return No 1

257.96
9.70 C on 12" Invert outlet to Canyon

761.08
6.58 B on East

761.72
5.94 B on ℄

Ref # 3 Cont.

267.66

267.66

Sierra Vista - Drains

Cont. P-73

T.P. 044	249.91 ✓	1786	249.47 ✓
0+49 Ground.		140	253.3
0+48.1 on Wall Fda.		497	262.36
0+42.2 Δ Rt. on H.6		475	262.58
0+14 = West Edge Walk		548	261.85
0+06.86 = East edge Walk		576	261.67
0+01.5 Top ch.		570	261.63
0+01.5 Gut.		669	260.64
0+00 = ℄ Grating #3		661	260.72
	267.33 ✓		

B.P. N.W. Sierra + Valle Vista (No Record in My Book)

T.P. 3.51	267.33 ✓	3.84	263.82 ✓
0+32 = ℄ Grate #3		695	260.71
0+24		582	261.84
0+14 12" Conc. Pipe		515	262.51
0+10		512	262.54
0+00 = ℄ Grate #4		526	262.40
	267.66		

Reduced by Lockheed 6-13-51

			0.01
			266.24 ✓
T.P. Chk Sturting BM. P-78		1.58	266.93 ✓
BM.B.P. N.W. Sierra Vista + Valle Vista			
T.P. 4.71	268.51 ✓	4.13	263.80 ✓
T.P. 12.91	267.93 ✓	0.36	255.02 ✓
T.P. 12.89	255.38 ✓	0.00	242.49 ✓
T.P. 13.04	242.49 ✓	0.25	229.45 ✓
	229.70 ✓		

Cont. from P-73

81

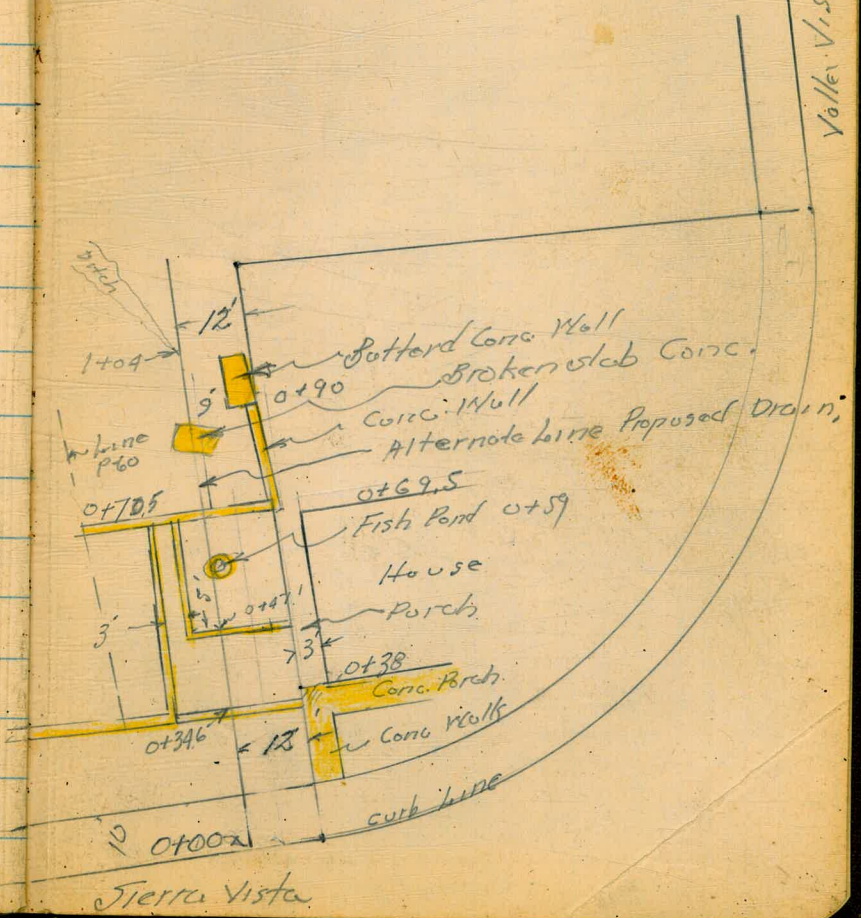
Alternate Line Proposed Drain. Sierra Vista.

Orig. Line P-60

Walker
Pope
Clark
Huffman

6-15-51

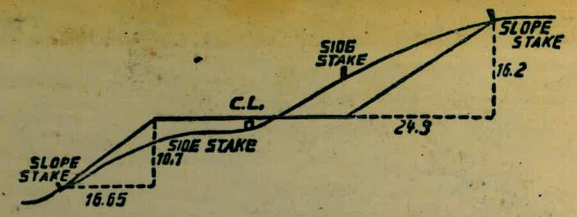
T.P.	1+18	10' Lt Ditch.	40.5	225.9
0+	1+18	10' Rt	28.9	237.5
0+	1+18		33.9	232.5
0+	(1+02 P-73 Chk Steel Pipe Invert	16' Rt	30.3	236.1
			24.5	241.9
0+	1+04	5' Rt	28.5	237.9
0+	1+04 = Int. Hd of Ditch		33.5	232.9
0+	0+86 (10' Rt.)		25.2	241.2
0+	0+86		28.7	237.7
0+	0+71 Ground of Wall		25.0	241.4
	0+70.5 = Int 10" Wall		19.8	246.6
	0+64 Ground		16.8	249.6
B.F.	0+57.8 = ℄ 8.2' dia. Fish Pond	6" Conc. 2'R = Rad = 6.31	2' Rt = ℄ Pond.	253.3
T.F.	0+56.8			
0	0+48 Ground		12.9	253.5
0	0+47.1 = West edge 5' Lt 24" Date Palm	8" Conc. Wall	10.2	256.2
0	0+36 = 8' Rt. 36" Date Palm			
	0+35 Ground		9.0	257.4
0	0+34.6 = West edge		4.5	262.10
0+	0+00 on cb		4.55	261.80
	West 0+00 = cb. Sierra Vista.	Gutter = 5.34		261.01
	B.M. on Hub 3.7 T 0+12.2 P-80	26.35 ✓		26.258



75

69
24
93

3845
3249
4259



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE 1½ TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	0
1	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	1
2	3.00	3.15	3.30	3.45	3.60	3.75	3.90	4.05	4.20	4.35	2
3	4.50	4.65	4.80	4.95	5.10	5.25	5.40	5.55	5.70	5.85	3
4	6.00	6.15	6.30	6.45	6.60	6.75	6.90	7.05	7.20	7.35	4
5	7.50	7.65	7.80	7.95	8.10	8.25	8.40	8.55	8.70	8.85	5
6	9.00	9.15	9.30	9.45	9.60	9.75	9.90	10.05	10.20	10.35	6
7	10.50	10.65	10.80	10.95	11.10	11.25	11.40	11.55	11.70	11.85	7
8	12.00	12.15	12.30	12.45	12.60	12.75	12.90	13.05	13.20	13.35	8
9	13.50	13.65	13.80	13.95	14.10	14.25	14.40	14.55	14.70	14.85	9
10	15.00	15.15	15.30	15.45	15.60	15.75	15.90	16.05	16.20	16.35	10
11	16.50	16.65	16.80	16.95	17.10	17.25	17.40	17.55	17.70	17.85	11
12	18.00	18.15	18.30	18.45	18.60	18.75	18.90	19.05	19.20	19.35	12
13	19.50	19.65	19.80	19.95	20.10	20.25	20.40	20.55	20.70	20.85	13
14	21.00	21.15	21.30	21.45	21.60	21.75	21.90	22.05	22.20	22.35	14
15	22.50	22.65	22.80	22.95	23.10	23.25	23.40	23.55	23.70	23.85	15
16	24.00	24.15	24.30	24.45	24.60	24.75	24.90	25.05	25.20	25.35	16
17	25.50	25.65	25.80	25.95	26.10	26.25	26.40	26.55	26.70	26.85	17
18	27.00	27.15	27.30	27.45	27.60	27.75	27.90	28.05	28.20	28.35	18
19	28.50	28.65	28.80	28.95	29.10	29.25	29.40	29.55	29.70	29.85	19
20	30.00	30.15	30.30	30.45	30.60	30.75	30.90	31.05	31.20	31.35	20
21	31.50	31.65	31.80	31.95	32.10	32.25	32.40	32.55	32.70	32.85	21
22	33.00	33.15	33.30	33.45	33.60	33.75	33.90	34.05	34.20	34.35	22
23	34.50	34.65	34.80	34.95	35.10	35.25	35.40	35.55	35.70	35.85	23
24	36.00	36.15	36.30	36.45	36.60	36.75	36.90	37.05	37.20	37.35	24
25	37.50	37.65	37.80	37.95	38.10	38.25	38.40	38.55	38.70	38.85	25
26	39.00	39.15	39.30	39.45	39.60	39.75	39.90	40.05	40.20	40.35	26
27	40.50	40.65	40.80	40.95	41.10	41.25	41.40	41.55	41.70	41.85	27
28	42.00	42.15	42.30	42.45	42.60	42.75	42.90	43.05	43.20	43.35	28
29	43.50	43.65	43.80	43.95	44.10	44.25	44.40	44.55	44.70	44.85	29
30	45.00	45.15	45.30	45.45	45.60	45.75	45.90	46.05	46.20	46.35	30
31	46.50	46.65	46.80	46.95	47.10	47.25	47.40	47.55	47.70	47.85	31
32	48.00	48.15	48.30	48.45	48.60	48.75	48.90	49.05	49.20	49.35	32
33	49.50	49.65	49.80	49.95	50.10	50.25	50.40	50.55	50.70	50.85	33
34	51.00	51.15	51.30	51.45	51.60	51.75	51.90	52.05	52.20	52.35	34
35	52.50	52.65	52.80	52.95	53.10	53.25	53.40	53.55	53.70	53.85	35
36	54.00	54.15	54.30	54.45	54.60	54.75	54.90	55.05	55.20	55.35	36
37	55.50	55.65	55.80	55.95	56.10	56.25	56.40	56.55	56.70	56.85	37
38	57.00	57.15	57.30	57.45	57.60	57.75	57.90	58.05	58.20	58.35	38
39	58.50	58.65	58.80	58.95	59.10	59.25	59.40	59.55	59.70	59.85	39
40	60.00	60.15	60.30	60.45	60.60	60.75	60.90	61.05	61.20	61.35	40
41	61.50	61.65	61.80	61.95	62.10	62.25	62.40	62.55	62.70	62.85	41
42	63.00	63.15	63.30	63.45	63.60	63.75	63.90	64.05	64.20	64.35	42
43	64.50	64.65	64.80	64.95	65.10	65.25	65.40	65.55	65.70	65.85	43
44	66.00	66.15	66.30	66.45	66.60	66.75	66.90	67.05	67.20	67.35	44
45	67.50	67.65	67.80	67.95	68.10	68.25	68.40	68.55	68.70	68.85	45
46	69.00	69.15	69.30	69.45	69.60	69.75	69.90	70.05	70.20	70.35	46
47	70.50	70.65	70.80	70.95	71.10	71.20	71.40	71.55	71.70	71.85	47
48	72.00	72.15	72.30	72.45	72.60	72.75	72.90	73.05	73.20	73.35	48
49	73.50	73.65	73.80	73.95	74.10	74.25	74.40	74.55	74.70	74.85	49
50	75.00	75.15	75.30	75.45	75.60	75.75	75.90	76.05	76.20	76.35	50

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