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

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

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

This Field Book is manufactured of a high grade **50%** Rag Paper having a **WATER RESISTING** surface.

INDEX

Pipe Line Profile, Chesterton Wye to Camp Elliot

	7.19	375.78		368.59	
0+00 (2.3 R.)			7.19	368.59	
BM.			2.87	372.91	
0+00			5.1	707	
3' Rt.			4.8	71.0	
1+00			4.7	71.1	
5' Rt			4.8	71.0	7'R = 370
2+00			4.3	71.5	
5' Rt.			4.6	71.2	7'R = 371.1
2+11			4.3	71.5	
5' Rt			4.5	71.3	
6.4 Rt			3.8	70.0	
L. side of Hwy			7.2	68.6	
3+00			3.9	71.9	
5' Rt			4.1	71.7	7'R = 72.3
3+50			3.8	72.0	
5' Rt			3.5	72.3	7'R = 72.6
4+00			2.4	73.4	
5' Rt			2.7	73.1	7'R = 73.1
TP	12.28	387.78	0.28	375.50	
5+00			11.6	76.2	
5' Rt			11.9	75.9	7'R = 75.7
6+00			8.7	79.1	
5' Rt.			9.1	78.7	7'R = 78.6
7+00			5.8	82.0	
5' Rt.			6.0	81.8	7'R = 81.8

Hill
Soper
Brooks
Harper

6/27/40

Top of 10" pipe to Chesterton tank

Set B.M. on 2" iron marker post, E. side of hwy, 10± S. of 0+00

Cross on E. edge of pavt. opp. Wye branch

Note Elevs backed up from State Hwy B.M. at Sta. 464+45.7

Note Distances to right taken from line along E. edge of pav't

Fd. 8" Conc. Culvert

" 8" " " Left.

E. edge of pavt.

		387.78			
8+00			3.0	384.8	
5' Rt			3.2	84.6	7'R = 384.4
9+00			0.1	87.7	
5' Rt			0.5	87.3	7'R 87.1
PI	12.08	399.83	0.03	387.75	
10+00			9.2	90.6	
5' Rt			9.9	89.9	7'R = 89.8
11+00			6.4	93.4	
5' Rt			6.9	92.9	7'R = 92.9
11+47			5.1	94.7	
5' Rt			5.7	94.1	
9+4 Rt			8.2	91.6	
			9.2	90.6	
12+00			3.5	96.3	
5' Rt			4.2	95.6	7'R 96.5
13+00			0.6	99.2	
5' Rt			1.1	98.7	7'R 98.8
PI	12.74	412.11	0.46	399.37	
14+00			10.0	402.1	
5' Rt			10.2	401.9	7'R = 401.9
15+00			7.1	05.0	
5' Rt.			7.5	04.6	7'R. 04.5
16+00			4.2	07.9	
5' Rt			4.5	07.6	7'R = 07.5

F.L. 12" Conc. Culv.
" 12" " " - Left

		412.11			
17+00			2.2	409.9	
5'Rt			2.5	09.6	7'R 409.7
TP	9.02	420.58	0.55	411.56	
18+00			8.6	12.0	
5'Rt			8.6	12.0	7'R = 12.5
18+62			7.4	13.2	
5'Rt			7.8	12.8	7'R=13.2
9'Rt			10.1	10.5	
L-side			11.5	09.1	
19+00			6.6	14.0	
5'Rt			7.1	13.5	7'R = 13.5
19+60			5.5	15.1	
5'Rt			5.1	15.5	7'R = 16.2
20+00			3.6	17.0	
5'Rt			3.8	16.8	7'R = 17.3
TP	12.28	432.29	0.57	420.01	
21+00			11.0	21.3	
5'Rt			11.5	20.8	7'R = 21.0
22+00			6.5	25.8	
5'Rt			7.1	25.2	7'R = 25.5
23+00			2.1	30.2	
5'Rt			2.8	29.5	7'R = 29.4
TP	12.39	444.10	0.58	431.71	
24+00			9.6	34.5	
5'Rt			9.9	34.2	7'R = 33.9

F.L. 12" Conc. Culvert
" 12" " " Left

		444.10			
25+00			5.2	438.9	
5' Rt			5.2	38.9	7' R = 433
26+00			0.9	43.2	
5' Rt			1.3	42.8	7' R = 427
TP	3.40	446.98	0.52	443.58	
26+50			1.9	45.1	7' R = 44.6
5' Rt			2.4	44.6	
27+00			1.1	45.9	
5' Rt			1.2	45.8	7' R = 46.0
27+50			1.7	45.3	
5' Rt			1.7	45.3	7' R = 45.5
28+00			3.4	43.6	
5' Rt			3.7	43.3	7' R = 43.5
29+00			8.4	38.6	
5' Rt			8.8	38.2	7' R = 38.3
TP	0.34	434.56	12.76	434.22	
30+00			1.2	33.4	
5' Rt			1.7	32.9	7' R = 32.8
31+00			6.1	28.5	
5' Rt			6.8	27.8	7' R = 27.5
32+00			10.3	24.3	
5' Rt			11.0	23.6	7' R = 23.2
B.M.			7.60	426.96	
32+22.0			11.2	23.4	
5' Rt			11.6	23.0	7' R = 22.6
TP	0.35	421.97	12.94	421.62	

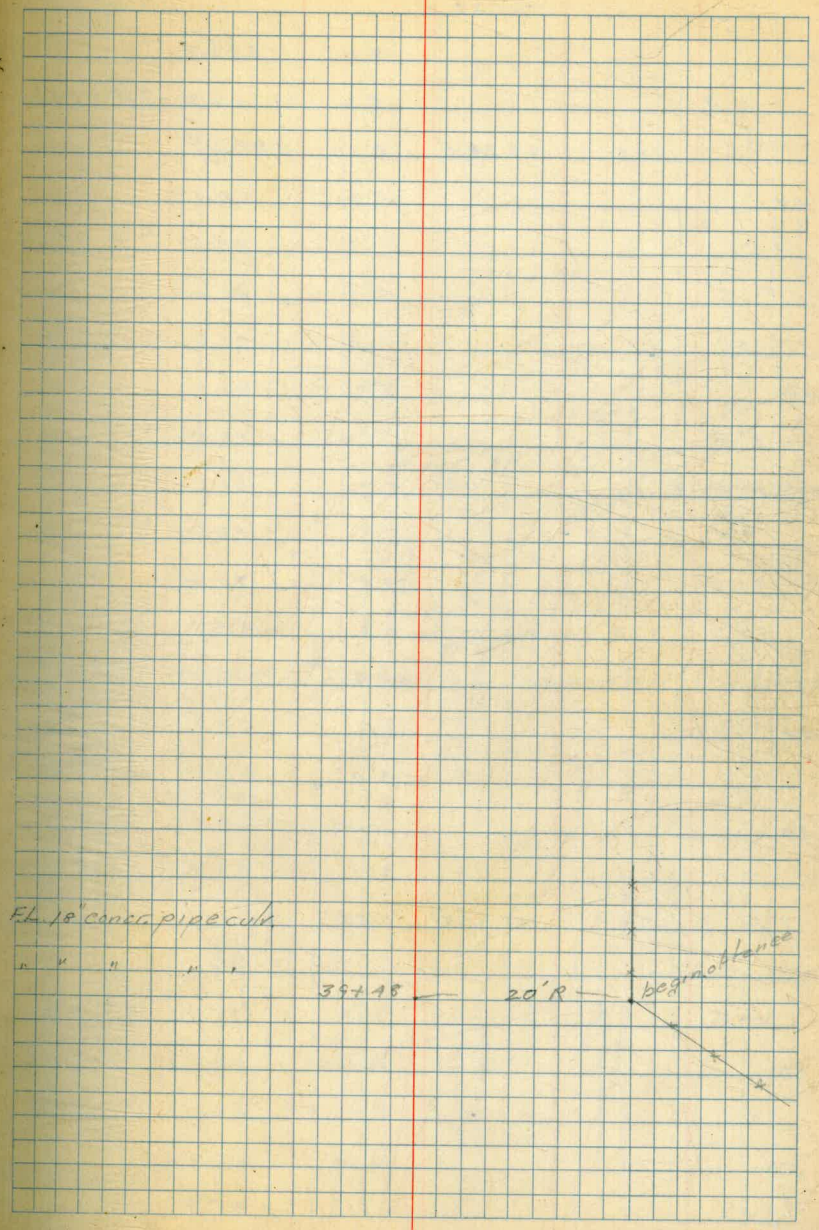
Co. B.M. No. 1 in pow. pole 100' L. of hwy & on city Bdry. El. 427.28

S.D. City Bdry.

↑ Intersect city line & edge of pave.

Note nail driven in flush with wood - may not be right one.

		421.97			
33+00			2.0	420.0	
5'Rt			2.4	19.6	7'R = 19.5
34+00			6.5	15.5	
5'Rt			6.7	15.3	7'R = 15.1
35+00			10.9	11.1	
5'Rt			11.2	10.8	7'R = 10.5
PI	0.64	409.81	12.80	409.17	
36+00			3.0	06.8	
5'Rt			3.3	06.5	7'R = 06.5
37+00			7.6	02.2	
5'Rt			7.8	02.0	7'R = 01.9
38+00			12.0	397.8	
5'Rt			12.3	97.5	7'R = 97.5
PI	0.60	397.38	13.03	396.78	
39			3.0	94.1	
5'R			3.2	94.2	7'R = 94.4
39+26			3.5	93.9	
5'R			3.7	93.7	7'R = 93.7
9'R			6.6	90.8	
L. side			6.1	91.0	
40			4.5	92.9	
5'R			4.8	92.6	7'R = 92.4
41			5.5	91.9	
5'R.			5.8	91.6	7'R = 91.4
42			6.8	90.6	
5'R.			7.1	90.3	7'R = 90.2



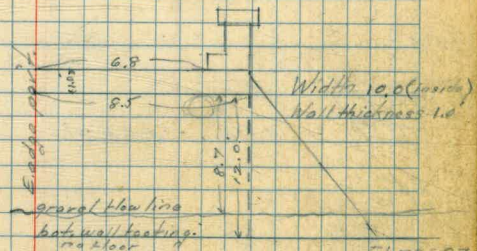
		397.38			
43			8.1	389.3	
5'R			8.2	89.2	7'R = 389.1
T.P.	2.13	391.41	8.10	389.28	
44			3.3	88.1	
5'R.			3.5	87.9	7'R = 87.8
45			4.5	86.9	
5'R			4.6	86.8	7'R = 86.7
46			5.2	86.2	
5'R			5.4	86.0	7'R = 86.4
45+45.7			4.8	86.6	
6.8'R			5.1	86.3	
8.5'R			14.8	76.6	
8.1'R			6.1	85.3	
B.M.			4.11	386.97	
47			4.2	87.2	
5'R.			4.4	87.0	7'R = 86.9
48			2.0	89.4	
5'R.			2.1	89.3	7'R = 89.2
T.P.	12.82	402.38	1.85	389.56	
49			10.7	91.7	
5'R			10.8	91.6	7'R = 91.6
50			8.3	94.1	
5'R			8.5	93.9	7'R = 94.1
EL			6.2	96.2	
5'R			6.1	96.3	7'R = 96.2

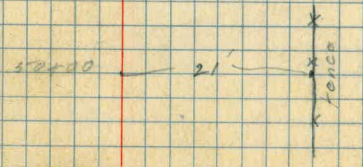
Top concr box culv.

gravel FL culv.

bot of slab concr culv.

Start Hwy BM. x on W. curb of culv. parapet wall sta. 46+45.7





		402.38			
4	5+26		5.6	396.8	
	5'R		5.6	96.8	7'R = 96.8
	8.3 R		7.5	94.9	
4	L.side		7.7	94.7	
	52		3.7	98.7	
4	5'R		3.9	98.5	7'R = 98.5
	53		1.5	400.9	
4	5'R		1.7	400.7	7'R = 400.6
	54		1.2	401.2	
4	5'R		1.4	401.0	7'R = 00.9
	T.P.	4.58	405.71	1.25 401.13	
	55		1.9	400.8	7'R = 00.7
	5'R		5.1	400.6	
B	56		5.4	400.3	
4	5'R		5.7	400.0	7'R = 400.0
	56+61		5.8	399.9	
4	5'R		5.7	400.0	7'R = 399.9
	9'R		8.2	397.5	
	L.side		8.2	397.5	
4	57		5.5	400.2	
	5'R		5.6	400.1	7'R = 400.0
5	58		4.5	401.2	
	5'R		4.8	400.9	7'R = 00.7
6	59		3.2	402.5	
	5'R		3.6	402.1	7'R = 02.0

Fl. 12" conc. pipe culv.

" " " " "

Fl. 16" conc. pipe culv.

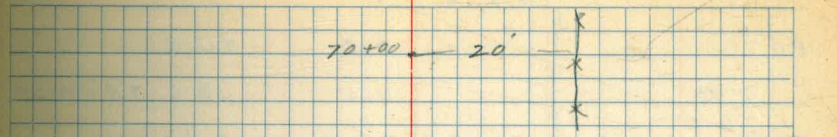
		405.71			
60			2.0	403.7	
5'R			2.2	03.5	7'R = 03.4
61			0.8	04.9	
5'R			1.1	04.6	7'R = 04.5
TP	8.06	413.01	0.76	404.95	
62			7.0	06.0	
5'R			7.2	05.8	7'R = 05.8
63			5.7	07.3	
5'R			5.9	07.1	7'R = 07.1
64			4.6	08.4	
5'R			4.8	08.2	7'R = 08.0
65			3.3	09.7	
5'R			3.7	09.3	7'R = 09.2
66			2.5	10.5	
5'R			2.8	10.2	7'R = 10.2
67			2.9	10.1	
5'R			3.1	09.9	7'R = 09.9
TP	2.57	412.26	2.92	410.09	
68			5.3	09.7	
5'R			3.7	09.3	7'R = 09.1
69+02			3.7	05.3	
5'R			3.8	09.2	7'R = 09.1
7A R			6.1	06.9	
L. side			6.6	06.4	

60+00 ← 19.5 →

FL. 12" concr. pipe culv.

" " " "

		412.96			
70			4.1	408.9	
5'R.			4.2	08.8	7'R 08.6
71			4.5	08.5	
5'R			4.6	08.4	7'R = 08.3
BM.			2.61	410.35	
72			4.8	08.2	
5'R			5.1	07.9	7'R = 07.9
73			4.8	08.2	
5'R			5.0	08.0	7'R = 08.0
73+45			4.5	08.5	
5'R			4.8	08.2	7'R = 08.0
9.5'R			7.9	05.1	
L side			8.3	04.7	
74			4.0	09.0	
5'R			4.3	08.7	7'R = 08.5
TP	701	416.10	3.87	409.09	
75			6.1	10.0	
5'R			6.2	09.9	7'R = 09.8
76			5.2	10.9	
5'R			5.3	10.8	7'R = 10.7
77			4.6	11.5	
5'R			4.8	11.3	7'R = 11.3
78			4.1	12.0	
5'R			4.4	11.7	7'R = 11.6
79			3.6	12.5	
5'R			3.7	12.4	7'R = 12.3



Hub E. fence line opp. sta. 71+00 - white blaze on post on fence

El. 18" conc. pipe culv.

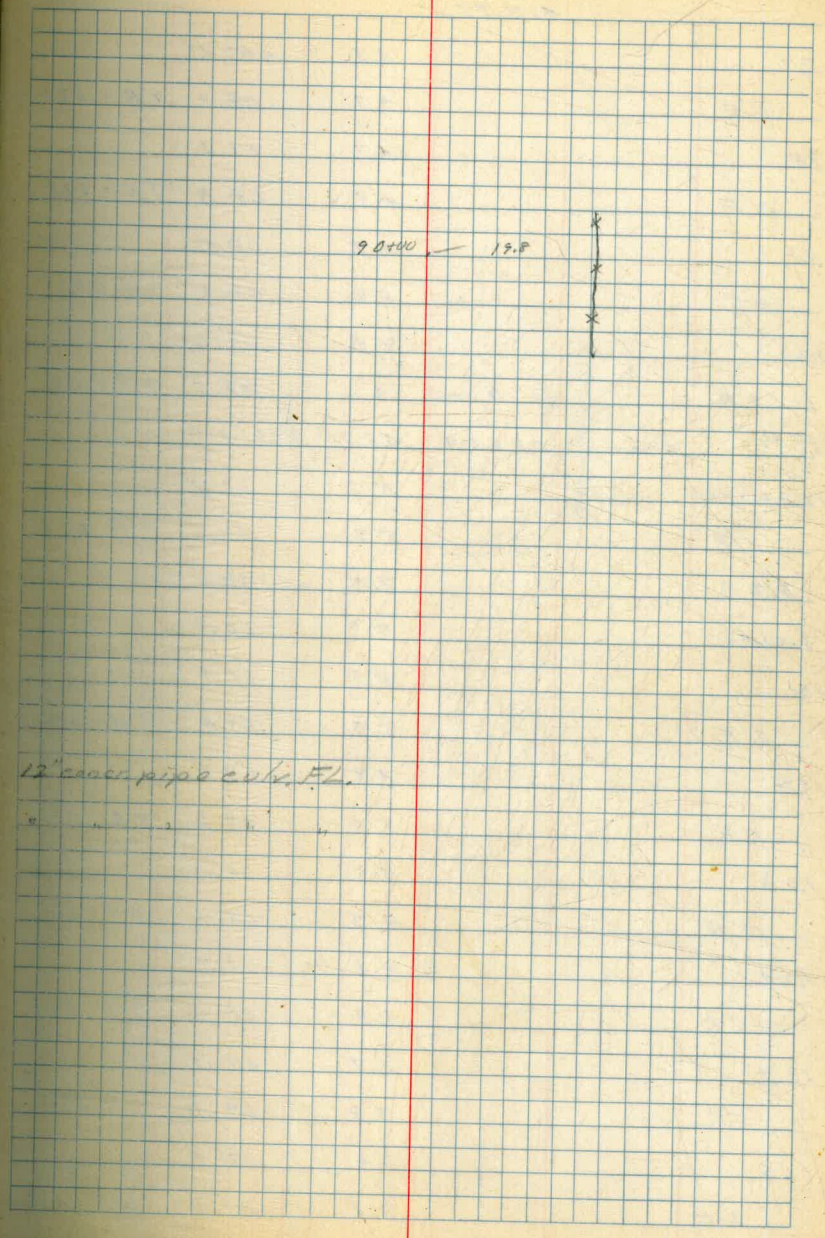
" " " " "

		416.10			
80			3.2	412.9	
5'R			3.5	12.6	7'R = 412.4
T.P.	612	412.92	3.30	412.80	
80+75			5.6	13.3	
5'R.			5.9	13.0	7'R = 12.9
7.8 R			8.3	10.6	
L.side			7.8	11.1	
81			5.5	13.4	
5'R			5.9	13.0	7'R = 12.8
82			5.0	13.9	
5'R			5.3	13.6	7'R = 13.5
83			4.2	14.7	
5'R			4.5	14.4	7'R = 14.3
84			2.9	16.0	
5'R			3.3	15.6	7'R = 15.9
85			1.3	17.6	
5'R			1.6	17.3	7'R = 17.1
T.P.	887	426.51	1.28	417.64	
86			7.1	19.1	
5'R			7.6	18.9	7'R = 18.9
87			5.9	20.6	
5'R			6.2	20.3	7'R = 20.2
88			4.4	22.1	
5'R			4.5	22.0	7'R = 21.8

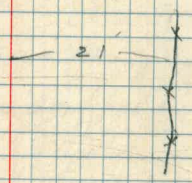
80+80 — 20

El. 12' conc. pipe culv.

		426.51			
88+50			3.7	422.8	
5'R			4.1	22.4	7'R = 22.4
89			4.1	22.4	
5'R			4.3	22.2	7'R = 22.1
90			6.7	19.8	
5'R			7.1	19.4	7'R = 19.4
T.P.	0.62	419.29	7.81	418.67	
91			2.5	16.8	
5'R			2.7	16.6	7'R = 16.6
92			5.3	14.0	
5'R.			5.5	13.8	7'R = 13.7
93			6.9	12.4	
5'R.			7.2	12.1	7'R = 11.9
93+52			7.5	11.8	
5'R.			7.6	11.7	7'R = 11.7
8.2 R			9.7	09.6	
L. side			9.3	10.0	
94			7.9	11.4	7'R = 11.4
5'R.			8.3	11.0	
T.P.	2.57	413.75	8.11	411.18	
95			3.2	410.6	
5'R			3.5	10.3	7'R = 10.3
96			3.8	10.0	
5'R			4.1	09.7	7'R 09.6

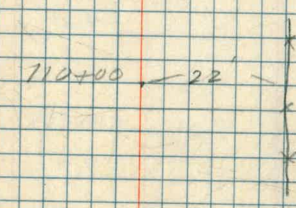


		413.75			
97			4.3	409.5	
5'R			4.7	09.1	7'R = 090
98			4.7	09.1	
5'R			4.9	08.9	7'R = 09.8
99			5.3	08.5	
5'R			5.6	08.2	7'R = 08.1
100			5.8	08.0	
5'R			6.1	07.7	7'R = 076
T.P.	496	412.84	5.87	407.88	
100+77.5			5.1	07.7	
5'R			5.3	07.5	7'R 07.6
8.2R			7.7	05.1	
L.side			7.9	04.9	
101			5.1	07.7	
5'R			5.4	07.4	7'R = 07.4
102			4.9	07.9	
5'R			5.0	07.8	7'R = 078
103			4.5	08.3	
5'R			4.7	08.1	7'R = 080
104			4.1	08.7	
5'R			4.3	08.5	7'R = 08.7
105			3.7	09.1	
5'R			3.8	09.0	7'R = 08.9
106			3.4	09.4	
5'R			3.5	09.3	7'R = 09.2



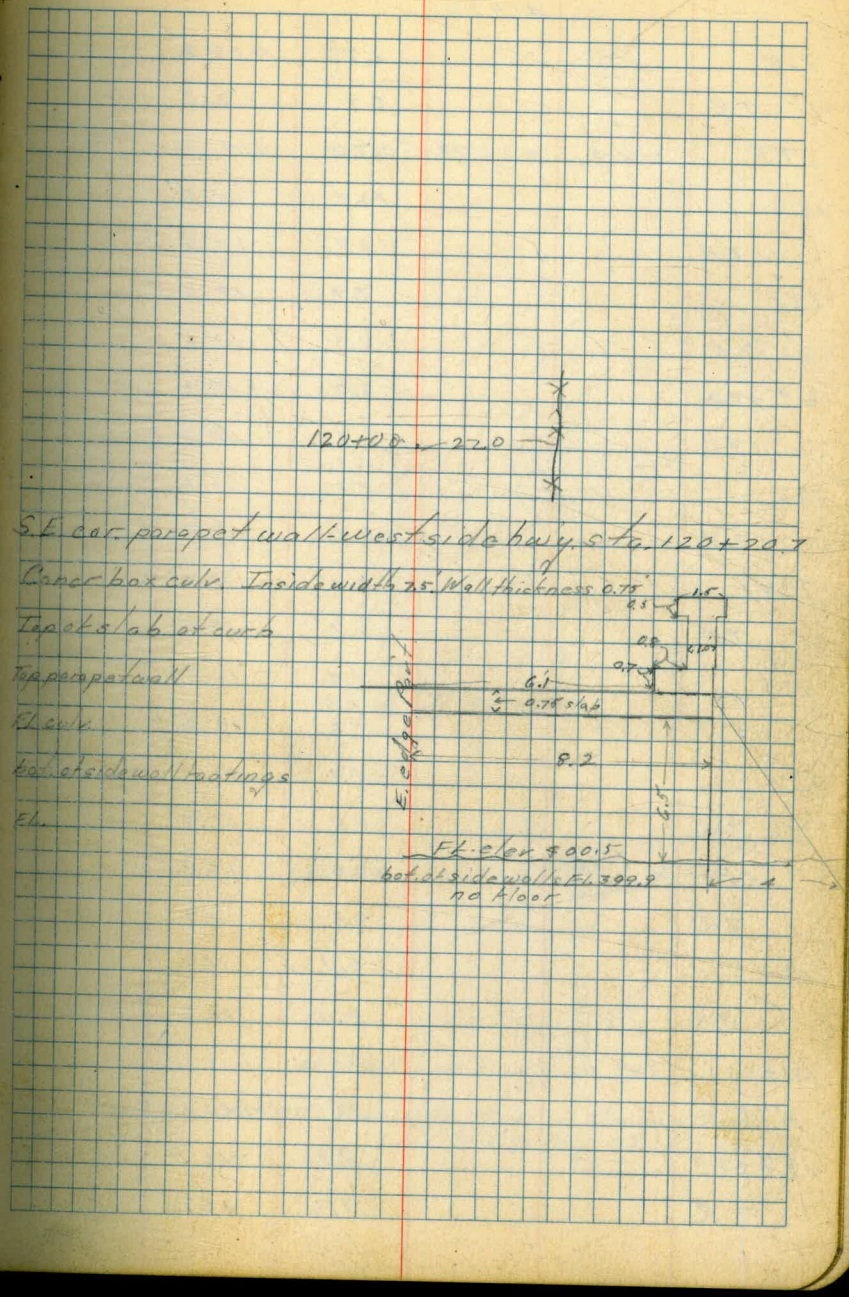
F.L. of corr. pipe culv

		41284			
107			3.0	409.8	
5'R			3.1	09.7	7'R = 097
T.P.	5.87	415.66	3.05	409.79	
108			5.5	410.2	
5'R			5.6	10.1	7'R = 10.1
109			5.1	10.6	
5'R			5.1	10.6	7'R = 10.8
110			4.6	11.1	
5'R			4.8	10.9	7'R = 11.1
111			4.3	11.4	
5'R			4.5	11.2	7'R = 11.1
112			4.1	11.6	
5'R			4.3	11.3	7'R = 13.3
113+02			3.7	12.0	
5'R			3.9	11.8	7'R = 11.6
8'R			6.4	09.3	
L. side			6.6	09.1	
114			3.3	12.4	
5'R			3.5	12.2	7'R = 122
T.P.	5.44	417.78	3.32	412.34	
115			5.1	12.7	
5'R			5.3	12.5	7'R = 12.5
116			4.7	13.1	
5'R			4.8	13.0	7'R = 12.9

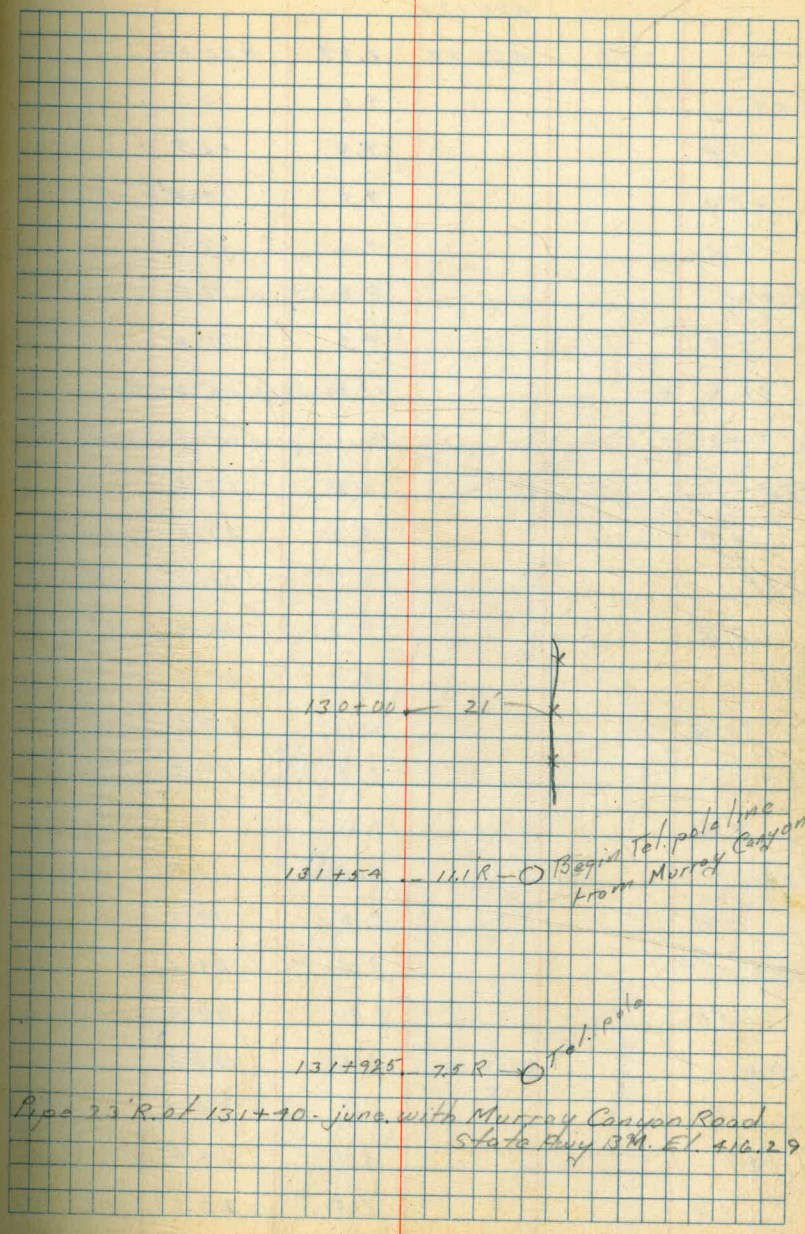


FL 12" concr pipe culv.

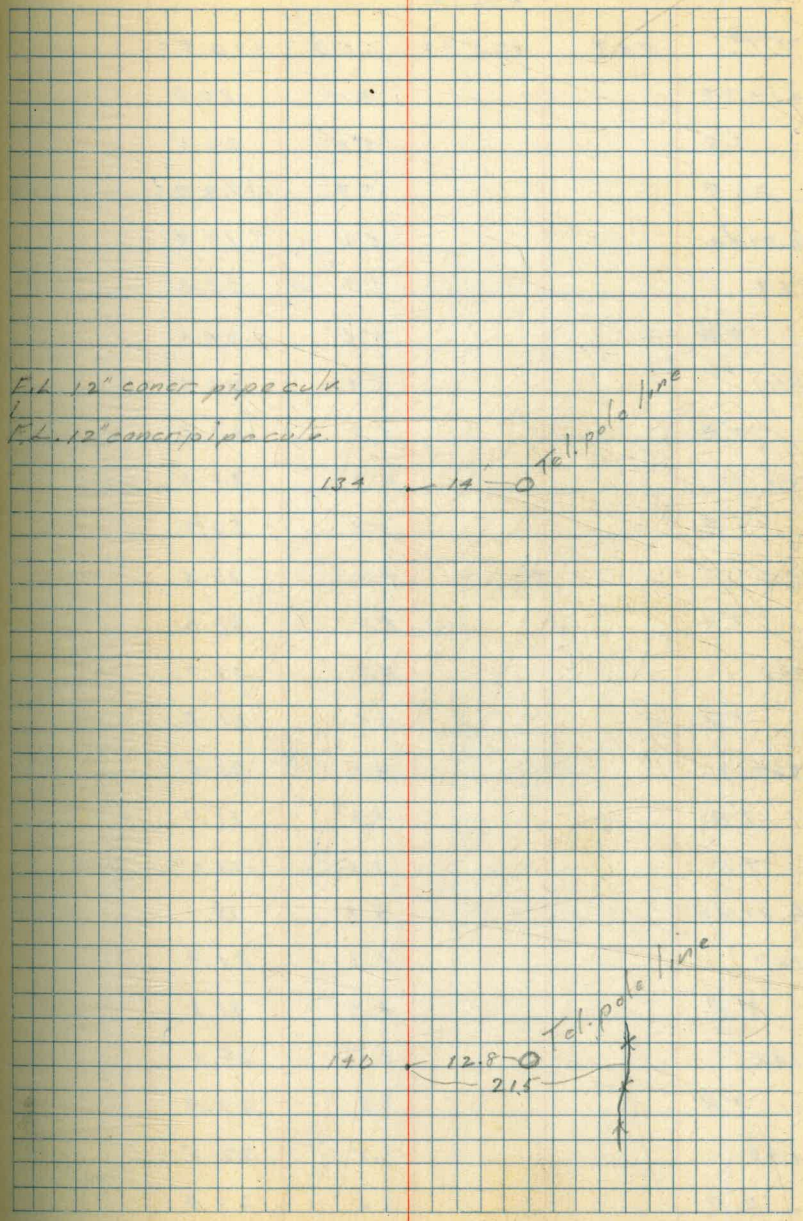
		417.78			
117			4.4	413.4	
5'R			4.5	13.3	9'R = 13.3
117+50			4.3	13.5	
5'R			4.6	13.2	7'R = 13.1
118			4.9	12.9	
5'R			5.2	12.6	7'R = 12.6
119			7.5	10.3	
5'R			7.6	10.2	7'R = 10.2
120			9.5	08.3	
5'R			9.7	08.1	7'R 07.9
B.M.	4.92	414.92	7.78	410.00	
120+20.7			7.0	407.9	
6'R			7.1	407.8	
8'R			4.9	410.0	
8'R			14.4	400.5	
8'R			15.0	399.9	
L.side			14.7	400.2	
121			7.4	07.5	
7'R			7.8	07.1	
122			7.4	07.5	
7'R			7.6	07.3	
123			6.7	08.2	
7'R			6.9	08.0	
124			5.4	09.5	
7'R			5.5	09.4	



		414.92		
125			2.7	412.2
7'R			2.9	12.0
T.P.	11.57	425.79	0.70	414.22
126			10.7	15.1
7'R			10.9	14.9
127			7.9	17.9
7'R			8.3	17.5
127+70			6.0	19.8
7'R			6.4	19.4
128			5.7	20.1
7'R			6.0	19.8
129			6.1	19.7
7'R			6.1	19.7
130			7.3	18.5
7'R			7.6	18.2
131			8.4	17.4
7'R			8.8	17.0
+5.0			8.9	16.9
7'R			8.9	16.9
132			9.1	16.7
7'R			9.2	16.6
131+925	Tel pole			
B.M.			9.51	416.28
132+50			8.9	16.9
7'R			9.2	16.6



		425.79		
T.P.	9.80	426.70	8.89	416.90
L33			9.6	17.1
7'R			9.8	16.9
+50			9.3	17.4
7'R			9.6	17.1
133+71			9.2	17.5
7'R			9.3	17.4
8.2 R			11.5	15.2
L. side			12.1	14.6
134			9.1	17.6
7'R			9.2	17.5
135			8.5	18.2
7'R			8.6	18.1
136			8.0	18.7
7'R			8.1	18.6
137			7.4	19.3
7'R			7.6	19.1
138			7.0	19.7
7'R			7.3	19.4
139			6.6	20.1
7'R			6.8	19.9
140			6.1	20.6
7'R			6.4	20.3
141			6.1	20.6
7'R			6.6	20.1



		426.70		
T.P.	5.47	425.97	6.20	420.50
141+79			5.4	20.6
7'R			5.5	20.5
8.3 R			7.8	18.2
L.side			8.3	17.7
142			5.4	20.6
7'R			5.6	20.4
143			5.4	20.6
7'R			5.8	20.2
144			4.9	21.1
7'R			5.3	20.7
145			4.7	21.3
7'R.			5.0	21.6
146			4.3	21.7
7'R			4.4	21.6
146+19			4.4	21.6
7'R			4.3	21.7
7'R			6.5	19.5
L.side			6.9	19.1
147			4.1	21.9
7'R			4.3	21.7
148			3.5	22.5
7'R			3.6	22.4
149			2.5	23.5
7'R			2.6	23.4

Ft. 12 Conc. pipe culv.

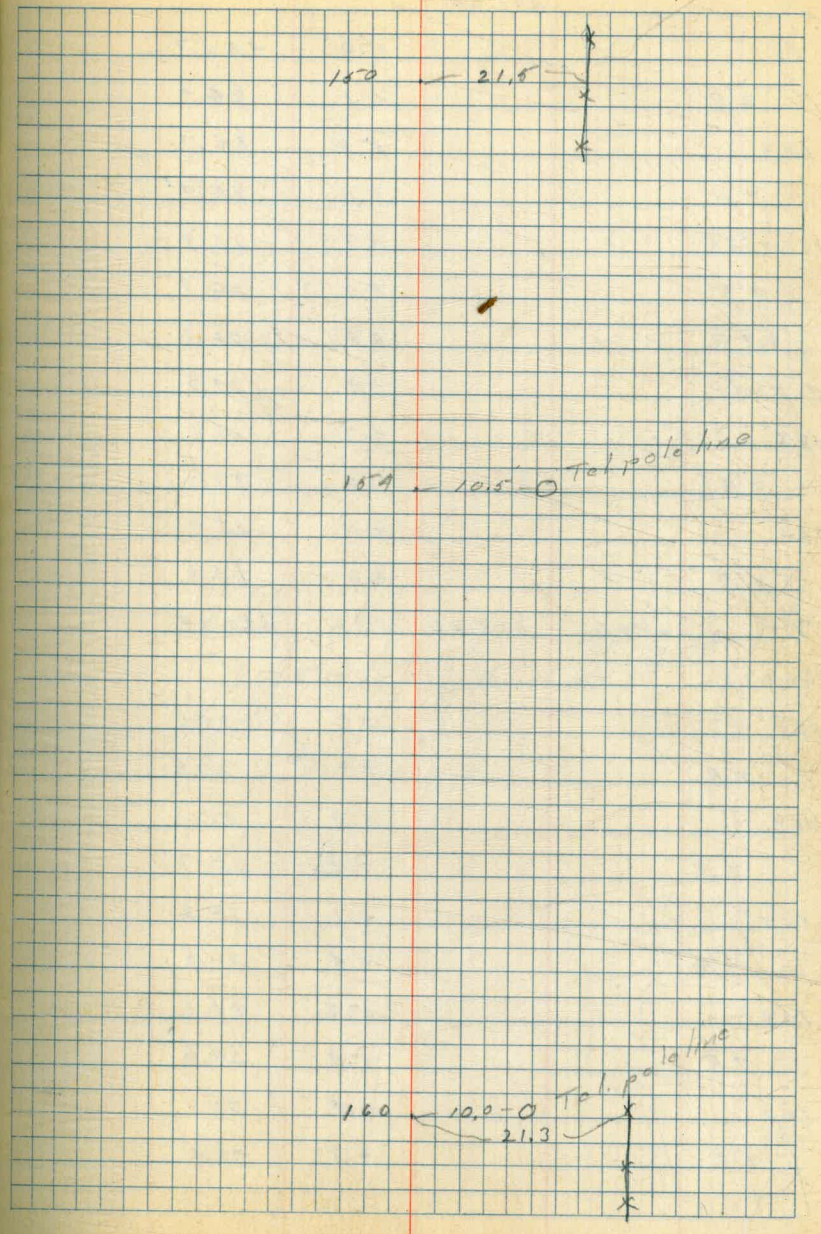
" " " "

145 + 12 - 0 Rel. to 1.6

Ft. 12" conc culv.

" " " "

		425.97		
T.P.	10.05	433.41	2.58	423.39
15-0			9.1	24.3
7'R			9.4	24.0
15-1			8.9	24.5
7'R			8.3	25.1
15-2			7.0	26.4
7'R			7.4	26.0
15-3			6.1	27.3
7'R			6.2	27.2
15-4			5.0	28.4
7'R			5.2	28.2
15-5			4.0	29.4
7'R			4.3	29.1
15-6			3.0	30.4
7'R			3.3	30.1
15-7			2.0	31.4
7'R			2.1	31.0
15-8			2.3	31.1
7'R			2.8	30.6
T.P.	05-8	431.66	2.36	431.08
15-9			2.3	29.7
7'R			2.4	29.3
16-0			4.3	27.4
7'R			4.9	27.3



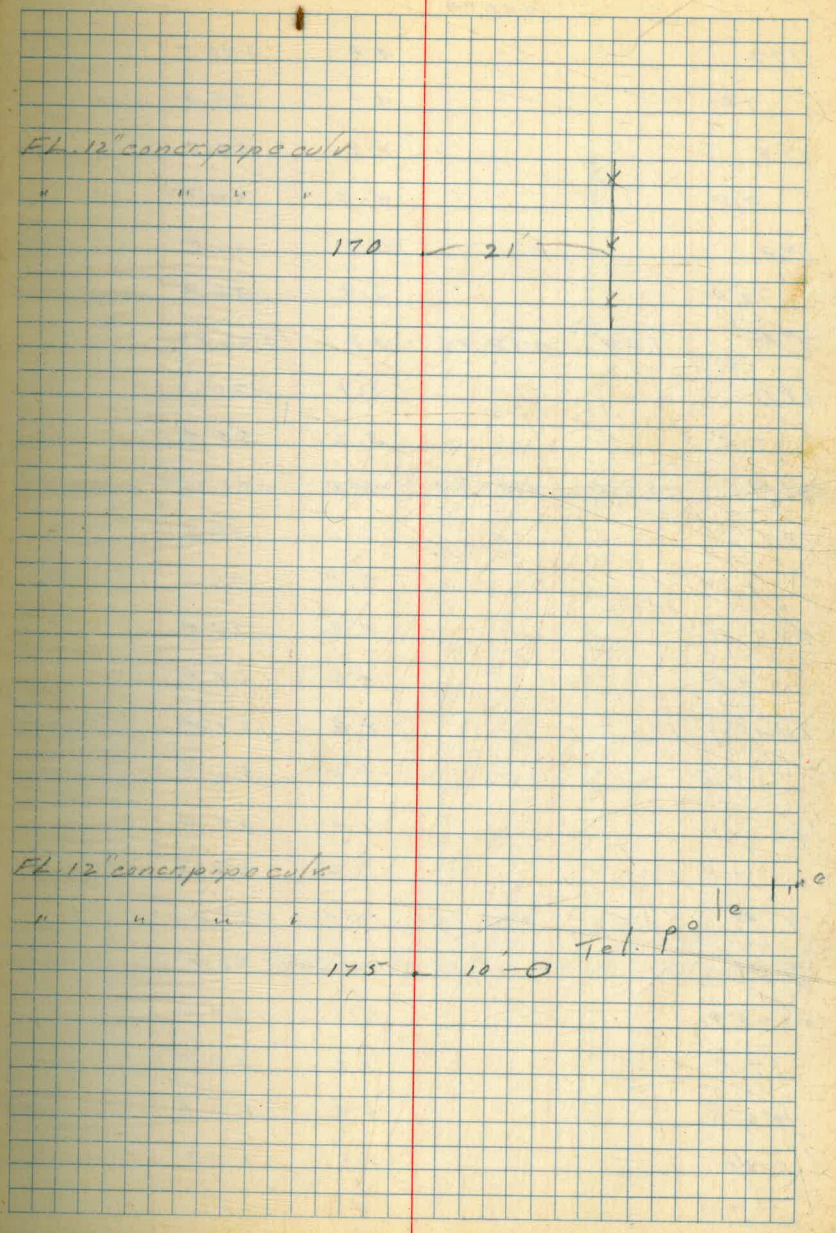
		431.66		
161			5.0	426.7
7'R			5.3	26.1
162			5.0	26.7
7'R			5.3	26.4
162+66.5			4.9	26.8
7'R			5.0	26.7
8.7 R			6.8	24.9
L. side			7.4	24.3
163			4.9	26.8
7'R			5.0	26.7
164			4.8	26.9
7'R			4.8	26.9
T.P.	8.06	435.30	4.12	427.24
164+71				
165			7.7	27.6
7'R			7.7	27.6
166			6.9	28.4
7'R			7.2	28.1
167			6.1	29.2
7'R			6.4	28.9
168			5.2	30.1
7'R			5.1	29.9
169			4.1	30.9
7'R			4.9	30.4

F.L. 12" conc. pipe culv.
" " " "

Tel. pole line
Sketch of poles

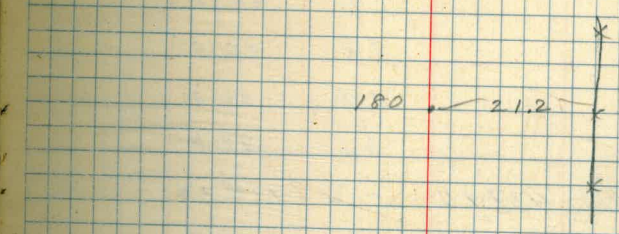
164+71 — 6.5 — 62 — O

		435.30		
169+74			3.8	431.5
7'R			1.1	31.2
8'R			6.4	28.9
L side			6.2	29.1
170			3.6	31.7
7'R			3.8	31.5
171			2.8	32.5
7'R			2.9	32.4
172			2.0	33.3
7'R			2.2	33.1
173			1.2	34.1
7'R			1.4	33.9
T.P.	6.61	440.74	1.17	434.13
174			6.0	34.7
7'R			6.2	34.5
174+44			5.7	35.0
7'R			5.9	34.8
10.5R			7.7	33.0
L.side			7.9	32.8
175			5.1	35.3
7'R			5.7	35.0
176			5.1	35.6
7'R			5.2	35.5
177			4.7	36.0
7'R			4.8	35.9



		440.74		
178			4.4	436.3
7'R			4.4	36.3
179			4.0	36.7
7'R			4.0	36.7
180			3.9	36.8
7'R			3.8	36.9
T.P.	1.88	438.76	3.86	436.88
181			3.1	435.7
7'R			3.2	35.6
B.M.	0.66	435.37	4.05	434.71
182			2.1	33.3
7'R			2.3	33.1
183			5.1	30.0
7'R			5.6	29.8
184			8.4	27.0
7'R			8.6	26.8
185			11.4	24.0
7'R			12.0	23.4
T.P.	5.99	429.75	11.56	423.81
B.M.			3.03	426.72
185+58			6.8	23.0
7'R			7.2	22.6
15.6 R.			15.8	14.0
L. side			13.9	15.9

426.68

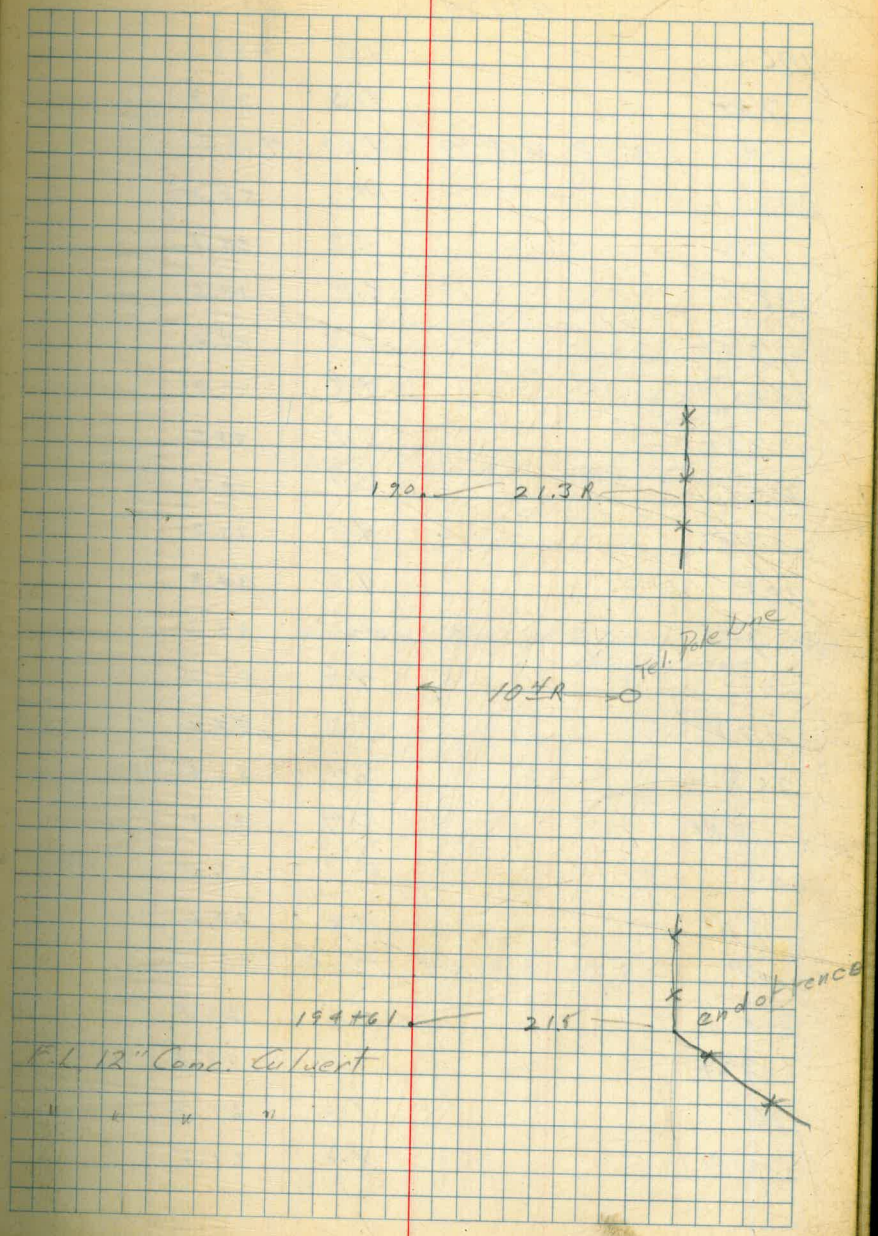


Set Spike in Tel. pole 10.2 'R of 181+80 (White picket base)
El. 431.40
Paper Brooks

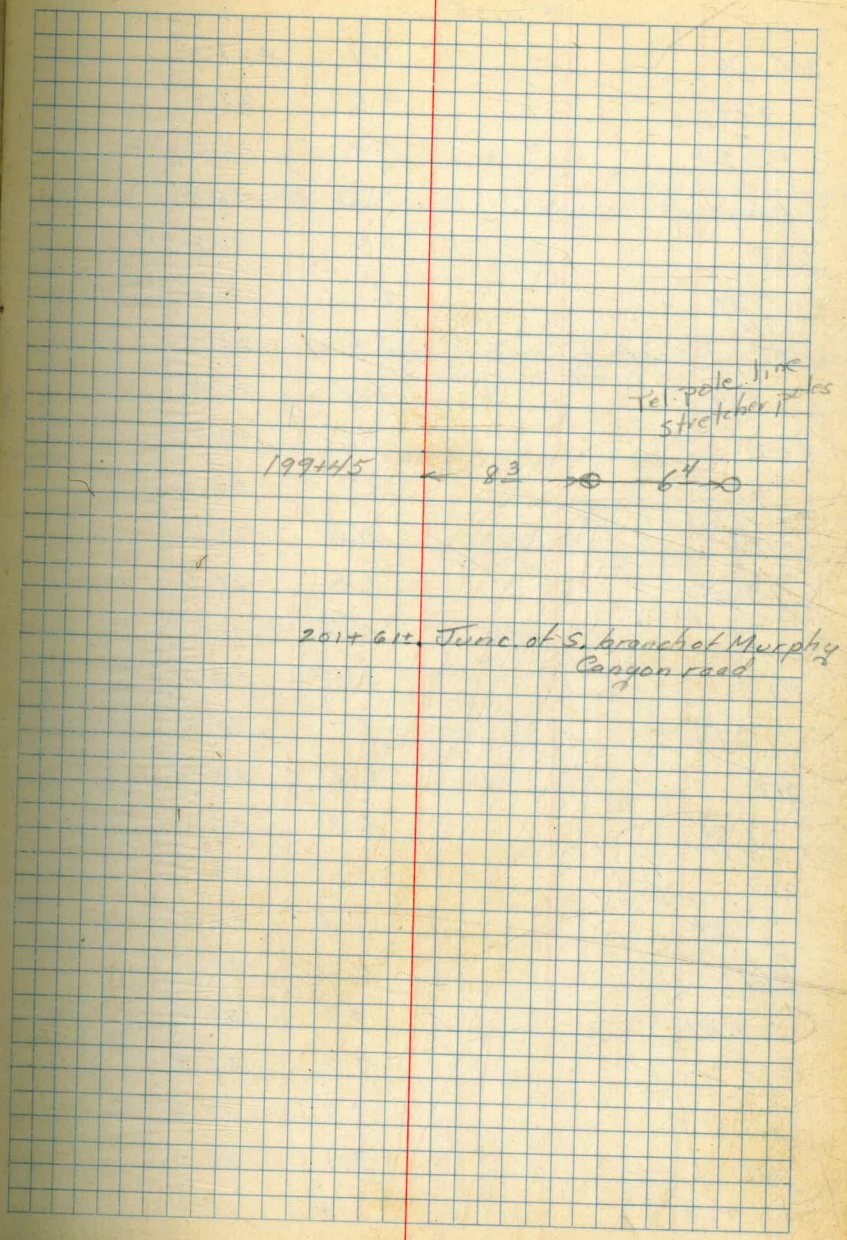
State Hwy. B.M. Tel. pole 10 R. of 5+40. 184+26 El. 426.68

El. 18" conc. pipe culv.

		429.75		
186			6.4	423.4
7' Rt			6.5	23.3
187			3.6	26.2
7' Rt			3.8	26.0
188			0.5	29.3
7' Rt			0.8	29.0
TP	7.85	437.24	0.36	429.37
189			5.4	31.8
7' Rt			5.7	31.5
190			5.0	32.2
7' Rt			5.3	31.9
191			4.7	32.5
7' Rt			4.8	32.4
192			4.6	32.6
7' Rt			4.7	32.5
193			4.4	32.8
7' Rt			4.6	32.6
194			4.3	32.9
7' Rt			4.4	32.8
194+38			4.2	33.0
7' Rt			4.3	32.9
9' Rt			6.9	30.3
L. Side			6.6	30.6
195			4.1	33.1
7' Rt			4.4	32.8



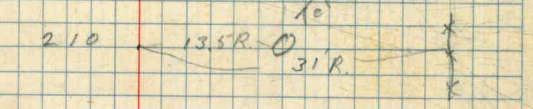
		437.24		
196			4.0	433.2
7'Rt			4.3	32.9
TP	5.58	438.79	4.03	433.21
197			5.3	33.5
7'Rt			5.7	33.1
198			5.2	33.6
7'Rt			5.4	33.4
199			4.9	33.9
7'Rt			5.2	33.6
200			4.7	34.1
7'Rt			4.9	33.9
201			4.5	34.3
7'Rt			4.6	34.2
202			4.9	33.9
7'Rt			5.0	33.8
203			7.4	31.4
7'Rt			7.7	31.1
204			11.3	27.5
7'Rt			11.6	27.2
TP	3.71	430.25	12.25	426.54
205			6.6	23.7
7'Rt			6.9	23.4
206			8.6	21.7
7'Rt			8.8	21.5



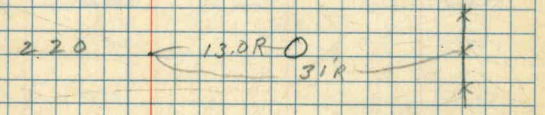
		430.25		
206+36			8.9	421.4
7' Rt			9.3	21.0
13.5 Rt			17.4	12.9
Lo Side			15.0	15.3
207			8.5	21.8
7' Rt			8.8	21.5
208			6.6	23.7
7' Rt			6.8	23.5
209			3.6	26.7
7' Rt			3.7	26.6
210			0.6	29.7
7' Rt			1.0	29.3
TP	11.76	441.11	0.90	429.35
211			8.5	32.6
7' Rt			8.7	32.4
212			6.2	34.9
7' Rt			6.4	34.7
213			5.3	35.8
7' Rt			5.6	35.5
214			4.6	36.5
7' Rt			4.9	36.2
215			3.7	37.4
7' Rt			3.9	37.2
216			3.1	38.0
7' Rt			3.4	37.7

Ft. 12" Corr. Iron Culvert } Evidently culvert was extended at upper end.
18" Concrete Culvert }

208+16± Junc. of N branch of Murphy Canyon road

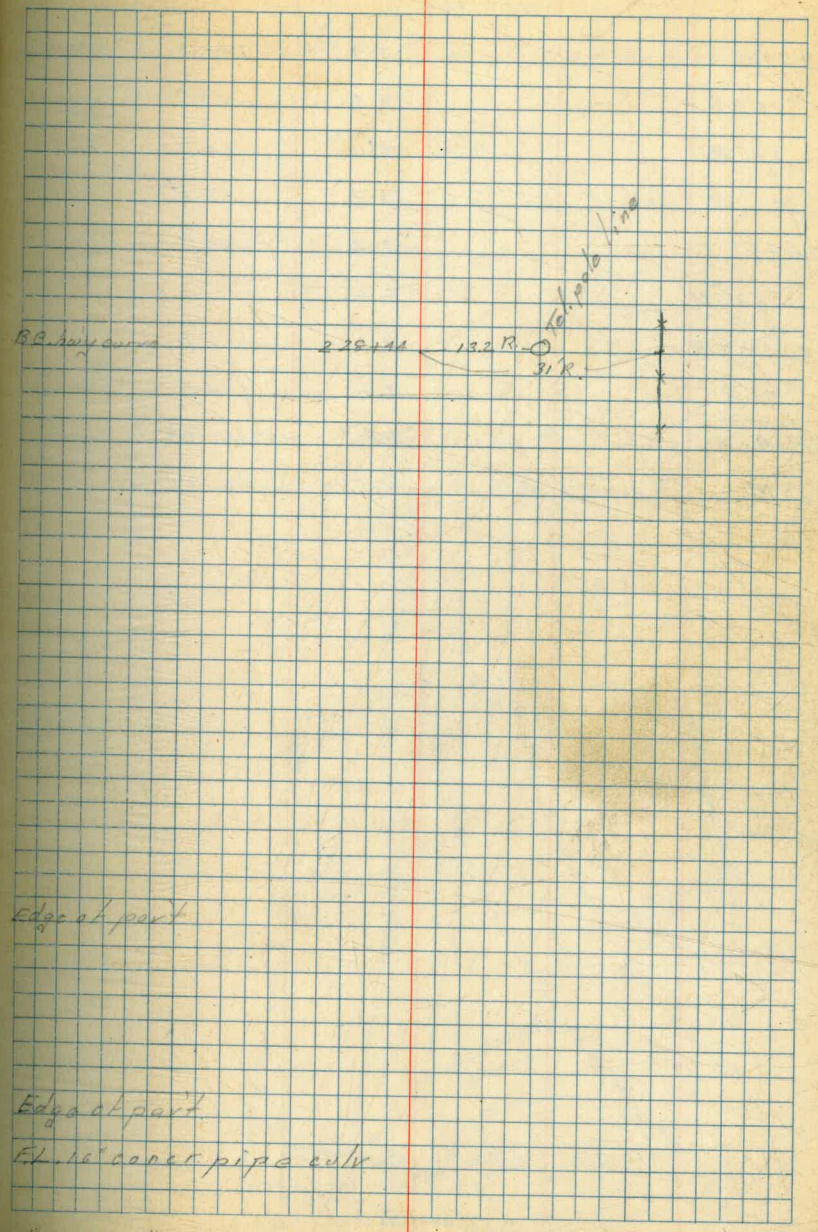


		441.11		
217			3.0	438.1
7'Rt			3.3	37.8
218			3.8	37.3
7'Rt			4.2	36.9
TP	0.84	438.17	3.78	437.33
219			1.9	36.3
7'R			2.1	36.1
220			2.8	35.4
7'R			2.8	35.4
221			4.0	34.2
7'R			4.2	34.0
221+27			4.2	34.0
7'R.			4.5	33.7
11.6R			8.7	29.5
L.side			9.3	28.9
222			4.6	33.6
7'R			5.0	33.2
223			3.6	34.6
7'R			4.0	34.2
224			1.7	36.5
7'R			2.2	36.0
T.P.	11.83	449.34	0.66	437.51
225			11.0	38.3
7'R			11.4	37.9



El. to center pipe culv.

		442.34		
226			9.4	439.9
7'R			9.7	39.6
227			8.0	41.3
7'R			8.3	41.0
228			6.3	43.0
7'R			6.6	42.7
+44			5-4	43.9
7'R			5-6	42.7
10'R			5-9	43.4
12'R			5-3	44.0
18'R			6.2	43.1
30'R			6.2	43.1
229			4.3	45-0
3'L			4.3	45-0
7'R			4.9	44.4
19'R			6.0	43.3
30'R			5-9	43.4
230			3.6	45.7
88R			3.8	45.5
16'R			5-0	44.3
31'R			5-3	44.0
230+51			3.3	46.0
15-R			3.6	45.7
22.2R			5-8	43.5
31R			5.5	43.8
L.side			5-0	44.3



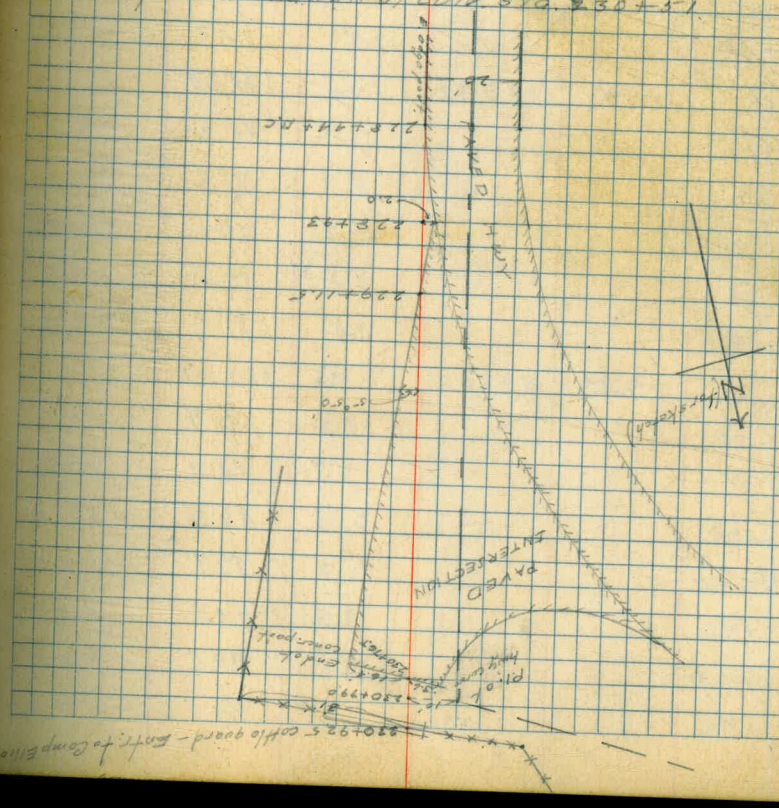
	449.34		
230+76.7		3.4	445.9
16.4 R		3.6	445.7
24' R		1.6	447
32' R		4.8	444.5
230+92.5		3.2	446.1
12.5 R		3.2	446.1
18.5 R		4.1	445.2
31' R		4.4	444.9
B.M.		2.91	446.43
B.M.		3.59	445.75

End of concr. part at Camp Elliot entrance
Edge part

Center of cattle guard

" " " "

Fence post W. corner at entrance to Camp Elliot marked X on top of E. hdwl. at Sta. 230+51. El. 446.41



Cuts at edge of pavt.

B.M.	3.23	376.14		372.91	
0+00			5.5	70.6	367.6
+50			5.2	70.9	67.7
1+00			5.1	71.0	67.8
+50			4.9	71.2	67.8
2+00			4.7	71.4	67.9
+50			4.5	71.6	68.0
3+00			4.2	71.9	69.0
+50			4.1	72.0	70.0
4+00			2.8	73.3	71.0
+50			1.4	74.7	72.0
PT	8.64	383.32	1.46	374.68	
5+00			7.1	76.2	73.0
+50			5.7	77.6	74.1
6+00			4.2	79.1	75.6
+50			2.8	80.5	77.3
7+00			1.4	81.9	78.7
PT	9.58	392.65	0.25	383.07	
+50			9.3	83.4	80.1
8+00			7.8	84.9	81.5
+50			6.3	86.4	82.9
9+00			5.0	87.7	84.4
+50			3.5	89.2	85.8
10+00			2.1	90.6	87.2
+50			0.7	91.0	88.6

Cut

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		397.65			
IR	7.14	399.35	0.44	392.21	
11			5.9	393.5	89.55
+50			4.6	394.8	90.5
12			3.1	396.3	92.05
+50			1.6	397.8	93.6
13			0.1	399.3	95.2
TP	10.68	409.71	0.32	399.03	
+50			9.0	400.7	96.7
14			7.6	402.1	98.3
+50			6.1	03.6	99.8
15			4.7	05.0	401.4
+50			3.2	06.5	02.95
16			1.7	08.0	04.5
+50			0.7	09.0	05.7
TP	10.30	419.75	0.26	409.45	
17			9.8	410.0	06.8
+50			8.7	411.1	08.0
18			7.7	12.1	08.5
+50			6.8	13.0	09.0
19			5.8	14.0	09.5
+50			4.8	15.0	11.65
20			2.7	17.00	13.8
	12.54	429.54			
+50			10.7	19.1	16.6

Cut

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		429.54			
21+00			8.2	21.3	418.1
+50			6.0	23.5	20.3
22+00			3.8	25.7	22.4
+50			1.6	27.9	24.6
T.P.	13.00	442.02	0.62	429.02	
23+00			11.8	30.2	26.7
+50			9.7	32.3	28.9
24+00			7.5	34.5	31.0
+50			5.3	36.7	33.2
25+00			3.1	38.9	35.4
+50			0.9	41.1	37.5
	5.59	447.00	0.61	441.41	
26+00 X			3.7	43.3	39.7
+50			1.9	45.1	41.4
27+00			1.2	45.8	43.0

Cut

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		447.00			
27+50			1.7	45.3	441.8
28+00			3.4	43.6	40.5
+50			5.9	41.1	37.8
29+00			8.4	38.6	35.2
+50			11.0	36.0	32.5
T.P.	0.50	434.68	12.82	434.18	
30+00			1.3	33.4	29.8
+50			3.9	30.8	27.2
31+00			6.2	28.5	24.5
+50			8.2	26.5	22.35
32+00			10.4	24.3	20.2
B.M.			7.71.	426.97	
+50			12.5	22.2	18.05
T.P.	0.85	+225.1	13.02	421.66	
33+00			2.5	20.0	15.9
+50			4.8	17.7	13.75

Cut	
3.5	
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4.0	
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Nail in Pow. pole 100' L. of 32+20 El. 426.96	
4.1	
4.1	
3.9	

		422.51				
34+00			7.0	15.5	411.6	
+50			9.2	13.3	09.45	
35+00			11.4	11.1	07.30	
T.P.	0.48	410.03	12.96	409.56		
+50			1.1	08.9	05.15	
36+00			3.2	06.8	03.0	
+50			5.5	04.5	406.85	
37+00			7.8	02.2	398.7	
+50			10.0	400.0	96.55	
38+00			12.2	397.8	94.4	
T.P.	1.03	397.96	13.10	396.93		
+50			2.2	95.8	92.25	
39+00			3.6	94.4	90.1	
+25 X			4.0	94.0	89.0	
+50			4.3	93.7	88.8	

CUT
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		397.96			
40			5-0	393.0	388.5
	+5-0		1-6	92.4	88.1
41			6.0	92.0	87.8
	+5-0		6.7	91.3	87.5
42			7.4	90.6	87.2
	+5-0		8.0	90.0	86.8
43			8.6	89.4	86.5
	+5-0		9.2	88.8	86.0
44			9.8	88.2	85.5
	+5-0		10.3	87.7	85.0
45			11.0	87.0	84.5
	+5-0		11.5	86.5	84.0
B.M.			10.96	387.00	
46			11.7	86.3	83.5

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EX 396.97
State HWY BM X on W. curb of cathedral pass Sta. 46+45 Rt

B.M.	10.13	397.10		386.97	
46+50			10.5	86.6	383.5
47+00			9.9	87.2	83.5
+50			8.8	88.3	85.1
48+00			7.7	89.4	86.7
+50			6.5	90.6	87.8
49+00			5.4	91.7	88.9
+50			4.2	92.9	90.0
50+00			3.0	94.1	91.1
+50			1.9	95.2	92.2
51+00			0.9	96.2	93.3
TP	9.46	405.86	0.70	396.40	
+50			8.5	97.4	91.4

State Hwy. B.M.

3.1

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3.01

	405.86			
52+00		7.2	398.7	395.5
+50		6.0	399.9	95.6
53+00		5.0	400.9	95.7
+50		4.6	401.3	95.8
54+00		4.7	401.2	95.9
+50		4.9	401.0	96.0
55+00		5.0	400.9	96.1
+50		5.4	400.5	96.2
56+00		5.6	400.3	96.3
+50		5.8	400.1	96.4
57+00		5.7	400.2	96.5
+50		5.2	400.7	97.1
58+00		4.6	401.3	97.7

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		405.86			
58+50			4.0	401.9	398.3
TP	9.87	411.69	4.04	401.82	
59+00			9.2	02.5	98.9
+50			8.6	03.1	99.5
60+00			8.0	03.7	400.1
+50			7.4	04.3	00.7
61+00			6.8	04.9	01.3
+50			6.2	05.5	01.9
62+00			5.6	06.1	02.5
+50			5.0	06.7	03.0
63+00			4.3	07.4	03.6
+50			3.8	07.9	04.2
64+00			3.2	08.5	04.8

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		411.69			
64+50			2.6	409.1	405.4
65+00			2.0	09.7	06.0
+50			1.4	10.3	06.6
TP	4.27	414.47	1.49	410.20	
66+00			4.0	10.5	07.2
+50			4.1	10.4	07.0
67+00			4.3	10.3	06.7
+50			4.6	09.9	06.5
68+00			4.8	09.7	06.2
+50			5.0	09.5	06.0
69+00			5.1	09.4	05.7
+50			5.4	09.1	05.5
70+00			5.5	09.0	05.8
			4.10	410.37	

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Meban E. Fenceline. Opp. Sta. 71+00 - El. 410.35

B.M.	7.49	417.84		410.35	
70+50			9.1	08.7	405.0
71+00			9.4	08.4	04.8
+50			9.6	08.2	04.5
72+00			9.7	08.1	04.3
+50			9.9	07.9	04.0
73+00			9.7	08.1	03.8
+50	X		9.3	08.5	403.5
74+00			8.8	09.0	04.4
+50			8.3	09.5	05.3
75+00			7.8	10.0	06.2
+50			7.3	10.5	07.1
76+00	X		6.9	10.9	408.0

Cut

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	417.84		
76+50	6.6	411.2	408.1
77+00	6.4	11.4	08.2
+50	6.1	11.7	08.3
78+00	5.8	12.0	08.4
+50	5.7	12.1	08.5
79+00	5.4	12.4	08.6
+50	5.2	12.6	08.7
80+00	5.0	12.8	08.8
+50	4.7	13.1	08.9
81	4.4	13.4	409.0
+50	4.2	13.6	09.5
82	3.9	13.9	10.0
+50	3.6	14.2	12.5

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4.0
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		417.84			
83400	X		3.2	414.6	411.0
450			2.6	15.2	11.8
84400			1.8	16.0	12.6
450			1.0	16.8	13.3
R	7.49	424.29	1.04	416.80	
85400			6.7	17.6	14.1
450			5.9	18.4	14.9
86			5.2	19.1	15.7
450			4.4	19.9	16.5
87			3.7	20.6	17.2
450			2.9	21.4	18.0
88	X		2.2	22.1	418.8
450			1.5	22.8	19.0

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		424.29			
89+00	X		1.9	422.4	419.2
+50			3.1	21.2	17.8
90+00			4.6	19.7	16.3
+50			6.0	18.3	14.9
91			7.5	16.8	13.4
+50			9.0	15.3	12.0
92			10.4	13.9	10.6
+50			11.4	12.9	09.1
+75	X		11.7	12.6	408.4
93			12.0	12.3	08.2
+50			12.4	11.9	07.7
TP		2.07	413.88	12.48	411.81
94				2.5	11.4	07.6
+50				3.0	10.9	07.3

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4.0
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		413.88			
95+00			3.3	410.6	407.0
+50			3.6	10.3	06.7
96			3.9	10.0	06.4
+50			4.1	09.8	06.1
97			4.4	09.5	05.8
+50			4.6	09.3	05.5
98			4.9	09.0	05.3
+50			5.2	08.7	05.0
99			5.4	08.5	04.7
+50			5.7	08.2	04.4
100			5.9	08.0	04.1
RP			7.44	406.44	
	6.79	413.23			

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Set hub 12' Rt Sta 100+00 11/14/90

	413.23			
100+50		5.5	407.7	403.8
101		5.5	07.7	403.5
+50		5.4	07.8	03.7
102		5.3	07.9	03.8
+50		5.0	08.2	04.0
103		4.9	08.3	04.2
+50		4.7	08.5	04.4
104		4.5	08.7	04.5
+50		4.3	08.9	04.7
105		4.1	09.1	04.9
+50		4.0	09.2	05.1
106		3.8	09.4	05.2
+50		3.6	09.6	05.4

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		413.23			
107			3.4	409.8	405.6
+50			3.3	09 9	05.8
TP	5.97	415.91	3.29	409.94	
108			5.7	10.2	05.9
+50			5.4	10.5	06.1
109			5.3	10.6	06.3
+50			5.1	10.8	06.5
110			4.9	11.0	06.6
+50			4.8	11.1	06.8
111			4.6	11.3	07.0
+50			4.5	11.4	07.2
112			4.3	11.6	07.3
+50			4.1	11.8	07.5

4.2
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4.3

		415.91			
113			3.9	412.0	407.7
+50			3.7	12.2	07.9
114			3.5	12.4	08.0
+50			3.4	12.5	08.2
115			3.2	12.7	08.4
+50			3.0	12.9	08.6
TP	5.27	418.12	3.06	412.85	
116			5.0	13.1	08.7
+50			4.9	13.2	08.9
117			4.7	13.4	09.1
+50 X			4.6	13.5	409.3
118			5.3	12.8	07.6
+50			6.6	11.5	05.9

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		418.12			
119	X		7.8	410.3	404.2
+50			8.7	09.4	01.6
120	X		9.8	08.3	399.0
B.M.			8.08	410.04	
11/19/40					
		8.41	418.41	410.00	
120+50	X		10.6	07.8	399.0
121			10.9	07.5	01.6
+50	X		11.1	07.3	404.2
122			10.9	07.5	04.6
+50			10.6	07.8	05.1
123			10.3	08.1	05.5
+50			9.8	08.6	06.0
124	X		8.9	09.5	406.4

6.1

7.8

9.3

Rec. Elev. 410.00

9.8

5.9

3.1

2.9

2.7

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2.6

3.1

		418.41			
124+50			7.6	410.8	407.7
125			6.2	12.2	09.1
+50			4.8	13.6	10.4
126			3.4	15.0	11.8
+50			2.0	16.4	13.1
127			0.6	17.8	14.4
PT	3.76	421.54	0.63	417.78	
+50			2.4	19.1	15.8
128			1.5	20.0	17.1
+25 X			1.5	20.0	417.8
+50			1.5	20.0	17.4
129			1.9	19.6	16.8
+50			2.6	18.9	16.1

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	421.54		
130	3.1	418.4	415.4
+50	3.6	17.9	14.7
131	4.2	17.3	414.0
+45.85	4.7	16.8	13.9
132	4.6	16.9	13.8
+50	4.0	17.5	13.7
+62.40	3.8	17.7	13.7
133	3.7	17.8	13.7
+50	3.8	17.7	13.6
134+04.80 Back = 134+00 Ahead	3.9	17.6	413.5
134+50	3.7	17.8	14.1
135	3.5	18.0	14.7
+50	3.3	18.2	15.4

3.0	
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3.8	
4.6	Edge of Pave. on ℄
4.1	
4.1	
4.1	
3.7	
3.3	
2.8	

~~Page 45~~

See Page 66

Edge of Pave. on ℄

		421.54			
136	X		3.0	418.5	416.0
+50			2.7	18.8	16.1
TP	6.74	425.53	2.75	418.79	
137			6.5	19.0	16.3
+50	X		6.2	19.3	416.4
138			5.9	19.6	16.4
+50			5.7	19.8	16.4
139			5.4	20.1	16.4
+50			5.3	20.2	16.4
140			5.0	20.5	16.4
+50			5.0	20.5	16.4
141			5.0	20.5	16.4
+50			5.0	20.5	16.4

2.5
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3.2
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4.1
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4.1
4.1

		425.53		
142	X	5.0	420.5	416.4
450		5.0	20.5	17.0
143	X	5.0	20.5	417.7
450		4.8	20.7	17.7
144		4.6	20.9	17.8
450		4.5	21.0	17.8
145		4.4	21.1	17.9
450		4.1	21.4	17.9
146	X	4.0	21.5	418.0
450		3.9	21.6	18.4
147		3.7	21.8	18.7
150		3.4	22.1	19.1
148		3.2	22.3	19.5

4.1
3.5
2.8
3.0
3.1
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3.2
3.5
3.5
3.2
3.1
3.0
2.8

		425.53			
148+50			2.7	422.8	419.9
149			2.2	23.3	20.2
+50			1.7	23.8	20.6
150	X		1.3	24.2	421.0
11/20/40 TP		11.17	435.68	1.02	424.51
150+50				10.9	24.8	21.5
151				10.4	25.3	23.1
+50				9.9	25.8	22.6
152				9.3	26.4	23.2
+50				8.8	26.9	23.7
153				8.4	27.3	24.3
+50				7.8	27.9	24.8
154				7.3	28.4	25.4

2.9'

3.1'

3.2'

3.2'

H46 ' LT. 1/2 150+50

3.3'

3.2'

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3.2'

3.2'

3.0'

3.1'

3.0'

	435.68			
154+50		6.8	428.9	425.9
155		6.3	29.4	26.5
+50		5.8	29.9	27.0
156	X	5.3	30.4	427.6
+50		4.7	31.0	28.0
157		4.3	31.4	28.4
+50	X	4.3	31.4	428.8
158		4.5	31.2	27.9
+50		5.3	30.4	27.0
159		6.3	29.4	26.2
+50		7.3	28.4	25.3
160	X	8.4	27.3	424.4
+50		8.9	26.8	24.2

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3.0
3.0
2.6
3.3
3.4
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3.1
2.9
2.6

		435.68			
161			9.0	426.7	424.0
+50			9.0	26.7	23.8
162			9.1	26.6	23.6
+50			9.1	26.6	423.4
+72 (Culvert)					
163			9.1	26.6	423.2 ~~23.7~~
+50			9.0	26.7	23.7 ~~24.0~~
164			8.8	26.9	24.3
R	10.50	437.39	8.79	426.89	
164+50			10.1	27.3	24.6
165			9.7	27.7	24.9
+50			9.3	28.1	25.2
166			8.9	28.5	25.5
+50			8.6	28.8	25.8

2.7
2.9
3.0
3.2
3.4
3.0
2.6
2.7
2.8
2.9
3.0
3.0

	437.39			
167		8.1	429.3	426.1
+50		7.8	29.6	26.5
168		7.4	30.0	26.8
+50		7.0	30.4	27.1
169		6.5	30.9	27.4
+50		6.2	31.2	27.7
+74 (Culvert)				
170	×	5.7	31.7	428.0
+50		5.3	32.1	28.4
171		4.8	32.6	28.8
+50		4.5	32.9	29.2
172		4.1	33.3	29.6
+50		3.7	33.7	30.0
173		3.3	34.1	30.4

3.2
3.1
3.2
3.3
3.5
3.5
3.7
3.7
3.8
3.7
3.7
3.7
3.7

		437.39				
173+50			2.9	434.5	430.8	3.7
174			2.6	34.8	31.2	3.6
+43 (Culvert)						
+50			2.3	35.1	31.6	3.5
175	X		2.1	35.3	432.0	3.3
+50			2.0	35.4	32.2	3.3
176			1.8	35.6	32.4	3.2
+50			1.6	35.8	32.6	3.2
177			1.5	35.9	32.7	3.2
+50			1.2	36.2	32.9	3.3
178			1.1	36.3	33.1	3.2
+50			0.8	36.6	333	3.3
A	1.32	437.95	0.76	436.63		
179	X		1.1	36.8	433.5	3.3

		437.95			
179+50			1.0	436.9	433.4
180			1.1	36.8	33.3
+50	x		1.5	36.4	33.1
181	x		2.3	35.6	32.6 ~~433.0~~
+50	x		3.6	34.3	31.4
182			4.9	33.0	29.8
B.M.			3.26	434.69	
182+50			6.3	31.6	28.1
183			7.9	30.0	26.5
+50			9.4	28.5	24.9
184			10.9	27.0	23.3
+50			12.4	25.5	21.6
TP	10.68	436.11	12.52	425.43	

3.5	
3.5	
3.3	
3.0 ~~2.6~~	
2.9	
3.2	
Rec. Elev. 434.71	
3.5	
3.5	
3.6	
3.7	
3.9	

436.11

185	X		12.0	424.1	420.0
+50			13.2	22.9	20.0
+73.5 (Culvert)					
186	X		12.9	23.2	420.0
+50			11.4	24.7	21.4
187			9.9	26.2	22.8
+50			8.4	27.7	24.2
188			6.9	29.2	25.6
+50			5.4	30.7	27.0
189	X		4.3	31.8	428.4
+50			3.9	32.2	28.4
190			3.9	32.2	28.5
+50			3.8	32.3	28.5
191			3.7	32.4	28.5

4.1'
2.9'
3.2'
3.3'
3.4'
3.5'
3.6'
3.7'
3.4'
3.8'
3.7'
3.8'
3.9'

		436.11			
191+50			3.6	432.5	428.6
192			3.5	32.6	28.6
+50			3.4	32.7	28.6
193			3.3	32.8	28.7
+50			3.2	32.9	28.7
194			3.2	32.9	28.7
+44.5 (Culvert)					
+50			3.1	33.0	28.8
PI	4.95	437.97	3.09	433.02	
195			4.8	33.2	28.8
+50			4.7	33.3	28.9
196			4.7	33.3	28.9
+50			4.6	33.4	428.95
+75.5					
" (8'Lt)			7.3	30.7	
" Rt side			7.3	30.7	
197			4.5	33.5	29.6

3.9
4.0
4.1
4.1
4.2
4.2
4.2
4.4
4.4
4.4
4.5

Fl. line 12" Conc. Culvert
"
3.9

		437.97			
197+50	X		4.4	433.6	430.3
198			4.3	33.7	30.5
+50			4.2	33.8	30.6
199			4.1	33.9	30.8
+50			4.0	34.0	30.9
200			3.9	34.1	31.1
+50			4.0	34.0	31.3
201			3.8	34.2	31.4
R			3.37	434.60	
11/22/40		0.41	435.01		
201+50	X		0.7	34.3	431.1
202			1.2	33.8	30.3
+50			2.1	32.9	28.9

3.3
3.2
3.2
3.1
3.1
3.0
2.7
2.8
2.7
3.5
4.8

		435.01			
203	X		3.6	431.4	427.6
+50			5.6	29.4	25.7
204			7.6	27.4	23.8
+50			9.5	25.5	21.9
205	X		11.3	23.7	420.0
+50			12.6	22.4	19.4
206			13.3	21.7	18.7
TP		8.86	430.89	12.98	422.03
+38 (Culvert)					
206+50				9.8	21.1	18.1
207	X			9.3	21.6	417.5
+50				8.6	22.3	19.0
208				7.3	23.6	20.4

3.8
3.7
3.6
3.6
3.7
3.0
3.0
3.0
4.1
3.3
3.2

		430.89			
208+50			5.8	425.1	421.9
209			4.3	26.6	23.4
+50			2.8	28.1	24.8
210			1.3	29.6	26.3
TP	11.91	442.19	0.51	430.38	
210+50			11.2	31.0	27.8
211			9.5	32.7	29.3
+50			8.2	34.0	30.7
212			7.2	35.0	432.8
+50			6.8	35.4	32.5
213			6.4	35.8	32.8
+50			6.0	36.2	33.0
214			5.7	36.5	33.3

3.2
3.2
3.3
3.3
3.2
3.4
3.3
2.8
2.9
3.0
3.2
3.2

	442.19			
214+50		5.3	436.9	433.6
215		4.9	37.3	33.9
+50		4.4	37.8	34.2
216		4.2	38.0	34.4
+50		4.0	38.2	34.7
217	X	4.1	38.1	435.0
+50		4.5	37.7	34.6
218		4.9	37.3	34.1
+50		5.4	36.8	33.7
219		6.0	36.2	33.2
+50		6.4	35.8	32.8
220	X	6.9	35.3	432.4
+50		7.3	34.9	30.4 30.6

3.3
3.4
3.6
3.6
3.5
3.1
3.1
3.2
3.1
3.0
3.0
2.9
4.5

		442.19			
221+00			8.0	434.2	428.9
PI	12.75	446.97	7.97	434.22	
+25	X		13.0	34.0	427.5 428.0
+27 (Culvert)					
450	X		13.1	33.9	28.5
222			13.2	33.8	29.4
450	X		12.9	34.1	430.3
223			12.3	34.7	31.3
450			11.4	35.6	32.2
224			10.4	36.6	33.1
450			9.5	37.5	34.1
225	X		8.6	38.4	435.0
450			7.9	39.1	35.7
226			7.1	39.9	36.4

5.7

6.5
6.0

6.4
5.4

4.9
4.4

3.8

3.4

3.4

3.5

3.4

3.4

3.4

3.5

		446.97			
226+50			6.2	440.8	37.1
227			5.6	41.4	37.8
+50			4.8	42.2	38.5
228			4.0	43.0	
+50			3.2	43.8	
TP	4.33	449.47	1.83	445.14	
B.M.			3.69	445.78	

Page 67 for 227+50 - 229+65

37

36

37

x on head wall of culvert - Sta 230+51 - Elev. 445.75

Revision - 130+35 - 134

B.M.	6.04	422.32		416.28
130+35			4.2	18.1	414.9
130+81.7			3.8	18.5	14.2
131			3.9	18.4	414.0
+50			4.5	17.8	13.9
132			4.8	17.5	13.8
+50			4.7	17.6	13.8
133			4.5	17.8	13.7
+50			4.4	17.9	13.6
134			4.6	17.7	13.5
134+21.8 Back = 134+00 Ahead			4.6	17.7	413.5

Pipe - junct. of Murray Canyon Road.

3.2
4.3
4.4
3.9
3.7
3.8
4.1
4.3
4.2
4.2

Revision - 130+50 - 134+00

B.M	6.05	422.33		416.28	
130+50			4.4	17.9	414.7
131	X		4.9	17.4	414.0
+50			5.5	16.8	13.9
+83	℄		5.6	16.7	13.9
132+30			4.8	17.5	13.8
+50			4.7	17.6	13.8
133			4.5	17.8	13.7
+50			4.5	17.8	13.6
134			4.7	17.6	13.5
134+83	= Back				
134+00	X Ahead		4.7	17.6	413.5

Pipe - Junct. of Murray Co. Rd. 1

Cut

3.2

3.4

2.9

2.8

3.7

3.8

4.1

4.2

4.1

4.1

B.M.	3.53	449.28		445.75	
227+50			7.1	42.2	438.5
+56.5	∠45° Rt		7.1	42.2	38.6
228+04.6	∠45° Lt		6.4	42.9	39.3
+50			5.5	43.8	39.9
229			4.4	44.9	40.6
+50			4.0	45.3	41.3
+65.8	∠90° Rt		3.9	45.4	441.5

x on headwall of culvert Sta 230+51 ± Et. 445.75

3.7

3.6

3.6

3.9

4.3

4.0

3.9

KEARNEY MESA HIGHWAY -

8/5/41
J.W. Williams
L.N.H.H
Super.
Brooks
Hodgeson

Profile of road location, Kearny Mesa road.

B.M.	11.55	279.43 ✓		267.88	
0+00			2.5	76.9	✓
1+00			3.6	75.8	✓
2+00			3.3	76.1	✓
3+00			4.6	74.8	✓
4+00			7.4	72.0	✓
5+00			10.4	69.0	✓
PI	0.62	267.42 ✓	12.63	266.80	✓
+50			1.5	65.9	✓
6+00			9.2	58.2	✓
PI	0.06	254.65 ✓	12.83	254.59	✓
6+50			11.2	43.5	✓
PI	0.01	241.90 ✓	12.76	241.89	✓
7+00			19.0	222.9	✓
PI	12.56	253.86 ✓	0.60	241.30	✓
7+50			11.4	42.5	✓
PI	12.59	265.85 ✓	0.60	253.26	✓
8+00			8.8	57.1	✓
+50			2.7	63.2	✓
PI	2.53	267.07	1.31	264.54	✓
9+00			1.7	65.4	✓
10+00			4.1	63.0	✓
11+00			6.5	60.6	✓
12+00			13.5	53.6	✓
PI	0.46	254.74	12.79	254.28	✓

℄ of pavement

on pavement

bottom of draw

		254.74			
12+75			30.6	224.1	✓
13+00			26.3	28.4	✓
+50			11.3	43.4	✓
14+00			2.5	52.2	✓
TP	4.10	256.22	2.62	252.12	✓
14+96			2.4	53.8	✓
16+00			14.0	42.2	✓
17+00			11.5	44.7	✓
18+00			3.2	53.0	✓
TP	1.67	257.36	0.53	255.69	✓
19+00			1.1	56.3	✓
TP	0.47	244.93	12.90	244.46	
19+50			4.9	40.0	✓
TP	0.32	232.18 ✓	13.07	231.86	✓
20+00			14.4	217.8	✓
+35			21.8	10.4	✓
21+00			11.9	20.3	✓
+98			12.1	20.1	✓
22+00			12.2	20.0	✓
TP	0.05	219.99 ✓	12.24	219.94	✓
23+00			7.0	13.0	✓
TP	6.31	213.57 ✓	12.73	207.26	✓
24+00			7.5	06.1 06.2	✓
25+00			8.1	05.6	✓
+94			4.5	09.2	✓

bottom of draw

℄ of pavement

bottom of draw

℄ of pavement

℄ of pavement

		213.57			
TP	8.70	220.02 ✓	2.25	211.32	
27+00			8.3	11.7	✓
28+00			4.0	16.0	✓
29+00			8.1	11.9	✓
TP	3.32	210.72 ✓	12.62	207.40	✓
30+00			4.0	06.7	✓
30+68			4.7	06.0	✓
Set B.M.			1.64	209.08	✓

℄ of pavement

Nail in power pole. 5. side of road - 40' beyond 30+68

Ground profile S.W. cor. U.N.I. Hghts Res. (Profile over in 4" line leak)

7/8/43

B.M.	x - Top Coping - S.W. Cor. Res			383.99
	1.64	385.63 ✓		
0+00			5.6	380.0
0+06			5.6	380.0
T.P.	2.86	3 275.93 ✓	12.56	373.07 ✓
0+29			5.6	370.3
0+29.1			8.2	367.7
0+50			8.2	367.7
0+18			12.30	363.6

Edge Wall Res. - 34.8' East of S.W. Cor. Elev. top wall 389.86

Top Wall (retaining)

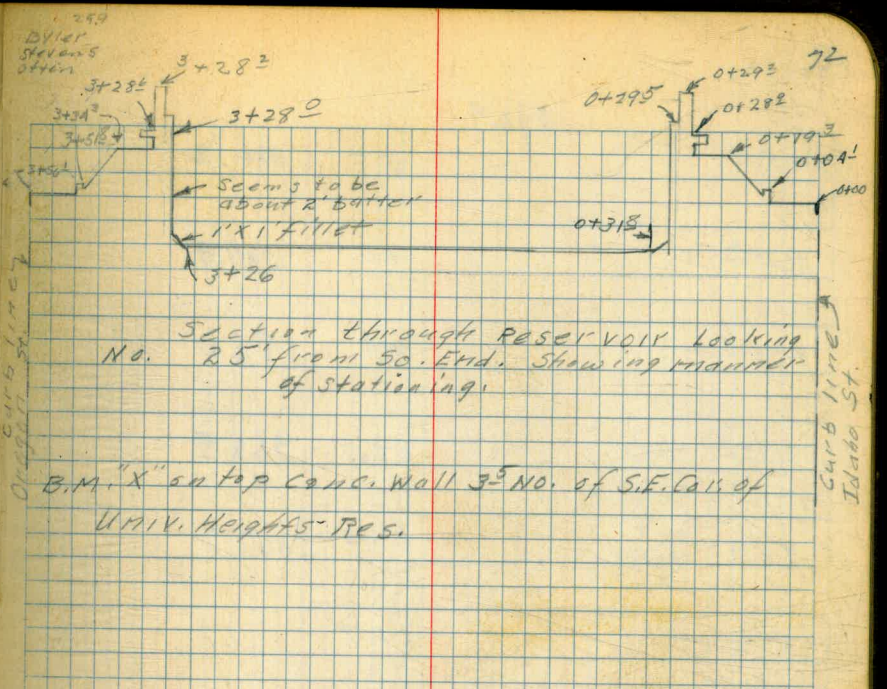
Sidewalk

Top of Pipe 1"

Profile University Hts. Reservoir from Curb at Idaho St. to Curb at Oregon St. AT S. END

6-19-14

				389.88
	1.80	390.88		
TP			12.75	378.13
	5.75	383.88		
0+00			13.5	370.4
+04'			12.1	371.8
+05			11.7	372.2
+14			5.8	378.1
+19.3			3.3	380.6
TP			5.75	378.13
	12.75	390.88		
			10.2	



Section through reservoir looking No. 25 from So. End. Showing manner of stationing.

B.M. "X" on top conc. wall 3' No. of S.E. Col. of Univ. Heights Res.

72

	390.9		
0+28 9		6.7	384.2
+29 2		1.0	389.9
+29 5		4.9	386.0
+31 8		22.0	368.9
+57		21.2	369.7
+72		21.7	
+97		21.9	
1+22		22.7	
+47		22.9	
+72		23.1	
+97		23.4	
2+16		24.6	
2+22		27.7	

50' N. of S. End

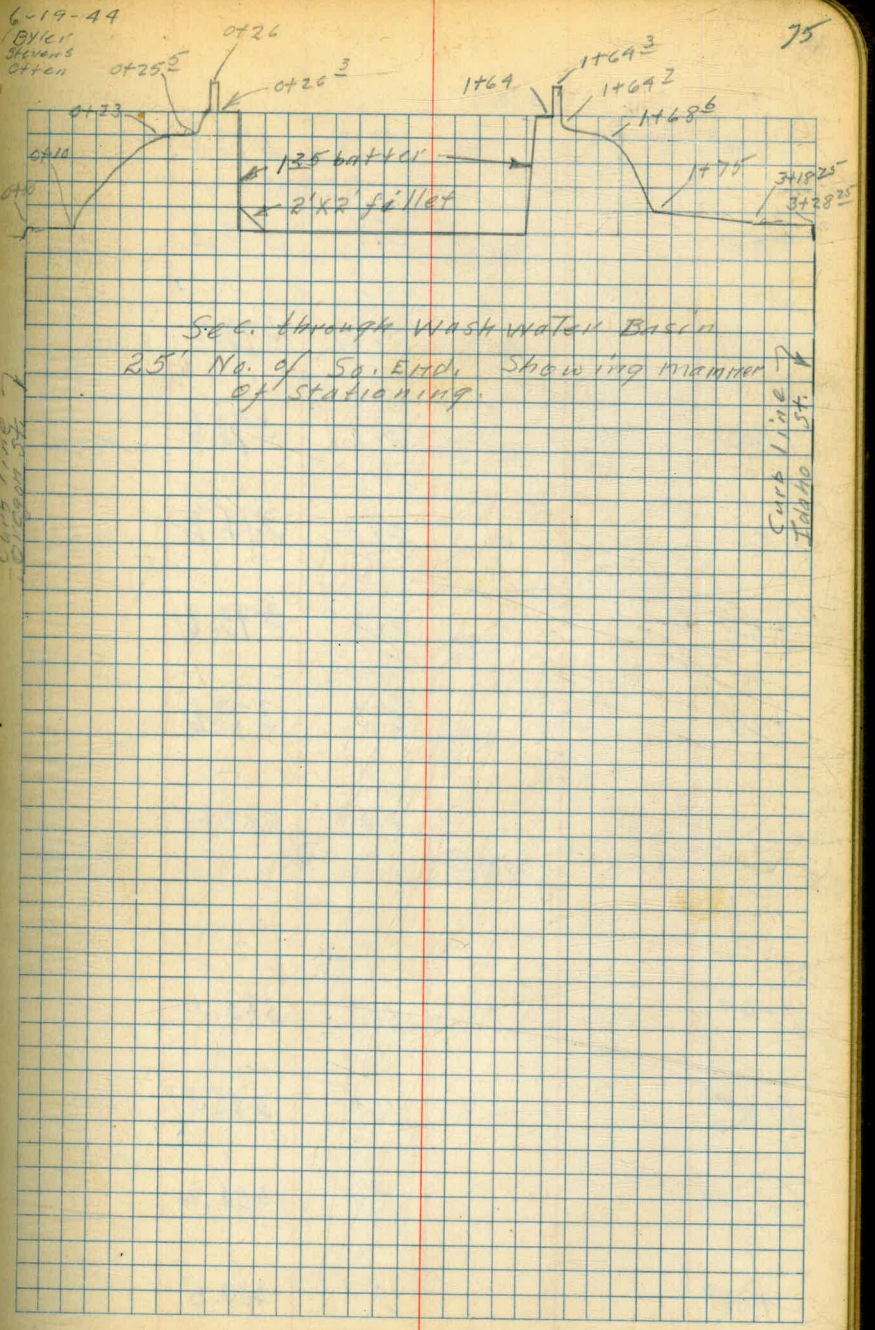
		390.88		
			6.51	384.37
	0.39	384.76		
3+28			4.8	380.0
+28[2]			0.9	383.9
+28[6]			6.5	378.3
+30			4.0	
+34[3]			4.1	
+39[9]			5.6	
TP			12.99	
	0.35			
+51[8]			1.7	
Walk			4.8	
+56[1]			4.8	

Profile Wash Water Basin Univ. Hts.

from Curb at yard ATS. END to Pump house

				369.96
	6.78	376.74		
			1.43	375.32
	10.58	385.90		
0+00			10.8	375.1
+10			10.7	375.2
+23			5.2	380.7
+25.5			5.2	380.7
+26			0.1	385.8
+26.3			2.5	383.4
TP			12.25	373.65
	5.29	378.94		
+27.3			3.4	375.5

6-19-44
Bylci
Stevens
Otten



Sec. through Wash water Basin
25' No. of Sq. End. Showing Manner of Staioning.

		378.9		
+29[3]			5.3	373.6
+50			5.1	373.8
+75			5.2	373.7
1+00			5.1	373.6
+25			5.2	373.7
+50			5.3	373.6
+61			5.3	373.6
			5.29	373.65
	12.25	385.90		
1+64				
1+64			2.9	383.0
1+64[3]			0.1	385.8
+64[7]			4.7	381.2
+68[6]			5.1	380.5
+75			9.9	376.0

TP		10.58	375.32
	7.40	382.72	
2+00		6.7	
+50		6.4	
+75		6.6	
3+00		7.9	
3+17		8.6	
3+18.25		9.1	
3+28.25		9.2	

ELEV'S AT UNIVERSITY HTS. RES. & OUTLET LINES

B.M.	5.57	375.53		369.96
TP	10.39	385.71	0.21	375.32
			+4.17	389.88
BM	0.24	384.23	1.72	383.99
T.P	2.03	374.75	11.51	372.72
BM	4.07	374.03	4.79	369.96
T.P	5.06	373.58	4.74	368.52
			2.25	371.33
			4.62	368.96
BM.	4.56	357.60		353.04
			2.25	353.35
			4.63	352.97
BM.	1.42	333.62		332.20
TP	2.07	325.14	10.55	323.07
			4.92	320.22
			7.91	317.23

B.P. - S.E. Cor. Polk and Idaho

Cross on top of Concrete Wall, 35' North of S.E. Cor of University Hts Reservoir

8.46 below cross on wall = Water level in Reservoir at 11 A.M - 9/24/40 = 381.42

Reservoir gauge level at 11 A.M = 8.1"

Cross on coping wall - S.E. Cor. of Reservoir

Check on B.M. starting pt.

Top of Fire Hydrant S.E. Cor of Polk & Ransom

Cross on curb - below Fire Hydrant

B.P. S.E. cor 32nd & Polk

Top of Fire hydr S.E cor 32 & Polk

Cross on curb below fire hydr

B.P. N.E. Cor. Lincoln and Park Blvd.

Top of Fire Hydrant - N.E. Cor. Park Blvd and University

Cross on curb below Fire Hydrant

(cont)

	5.10	332.23		327.13
			2.83	329.40
			5.30	326.93
			6.20	326.03
B.M.	8.62	298.57		289.95
			4.39	294.18
			7.18	291.39
			5.46	293.11

East rail of East track on pipe ℄ - 30th and Upas

Top of Fire Hydrant S.E. Cor. 30th and Upas

Cross on curb below Fire Hydrant

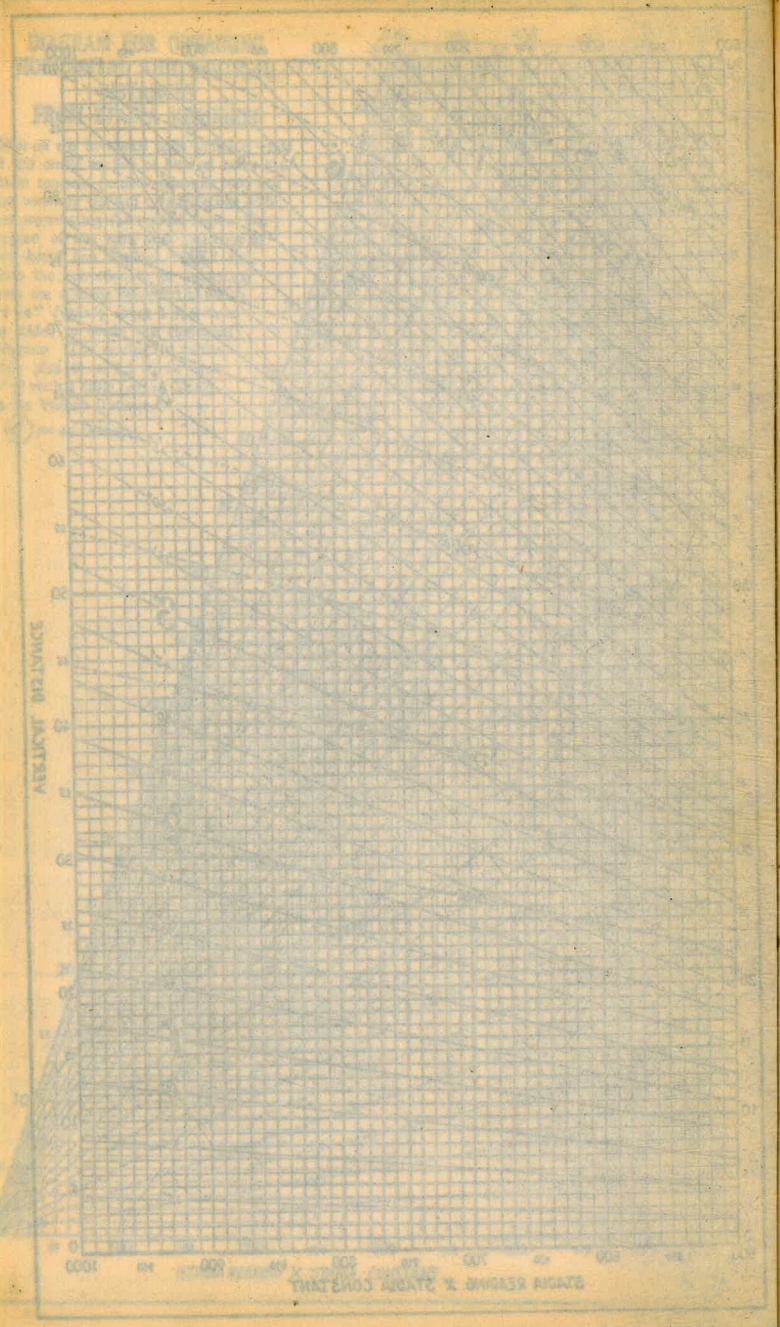
Cross on curb by meter box for #3381 - 30th St.

B.P. N.W. Curb Upas and Herbert

Top of Fire Hydrant - South side of Upas between Herbert and Park Blvd.

Cross on curb below F. Hyd.

Top of pipe at air valve on 30" main West side of Park Blvd.



DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1½.

For Single Track Embankment.

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

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

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