487

F.B.487

151

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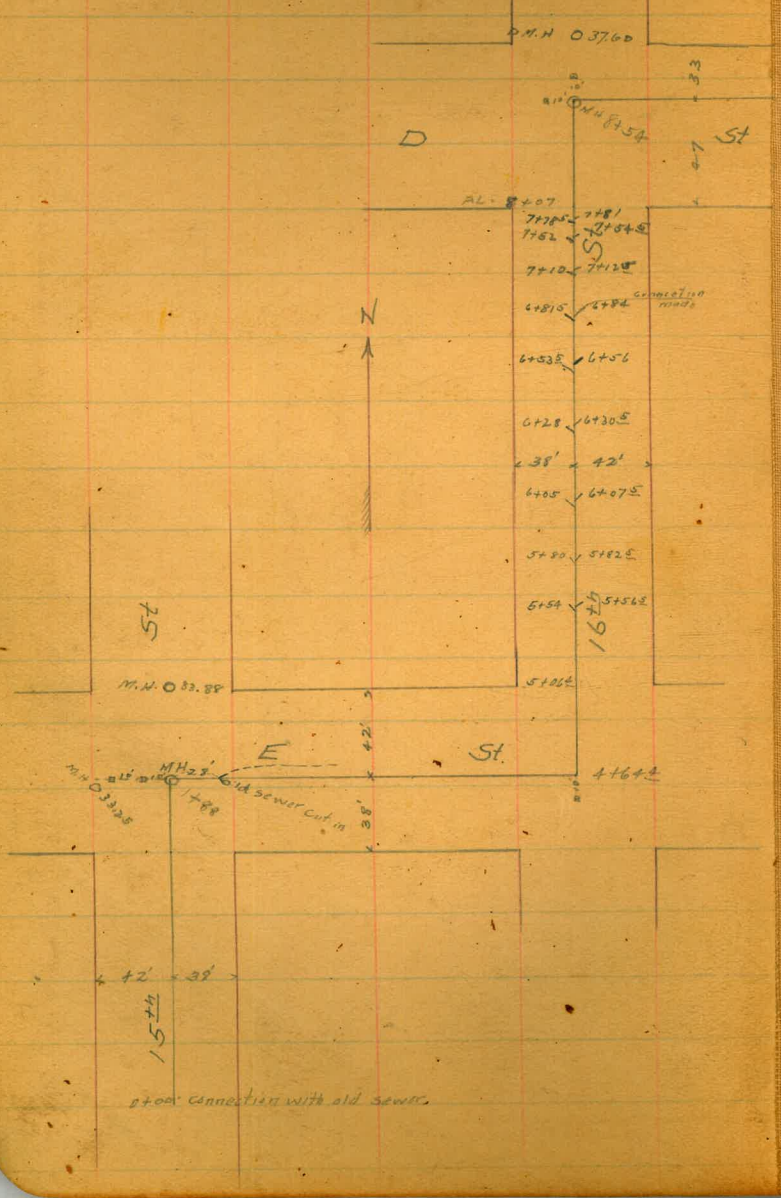
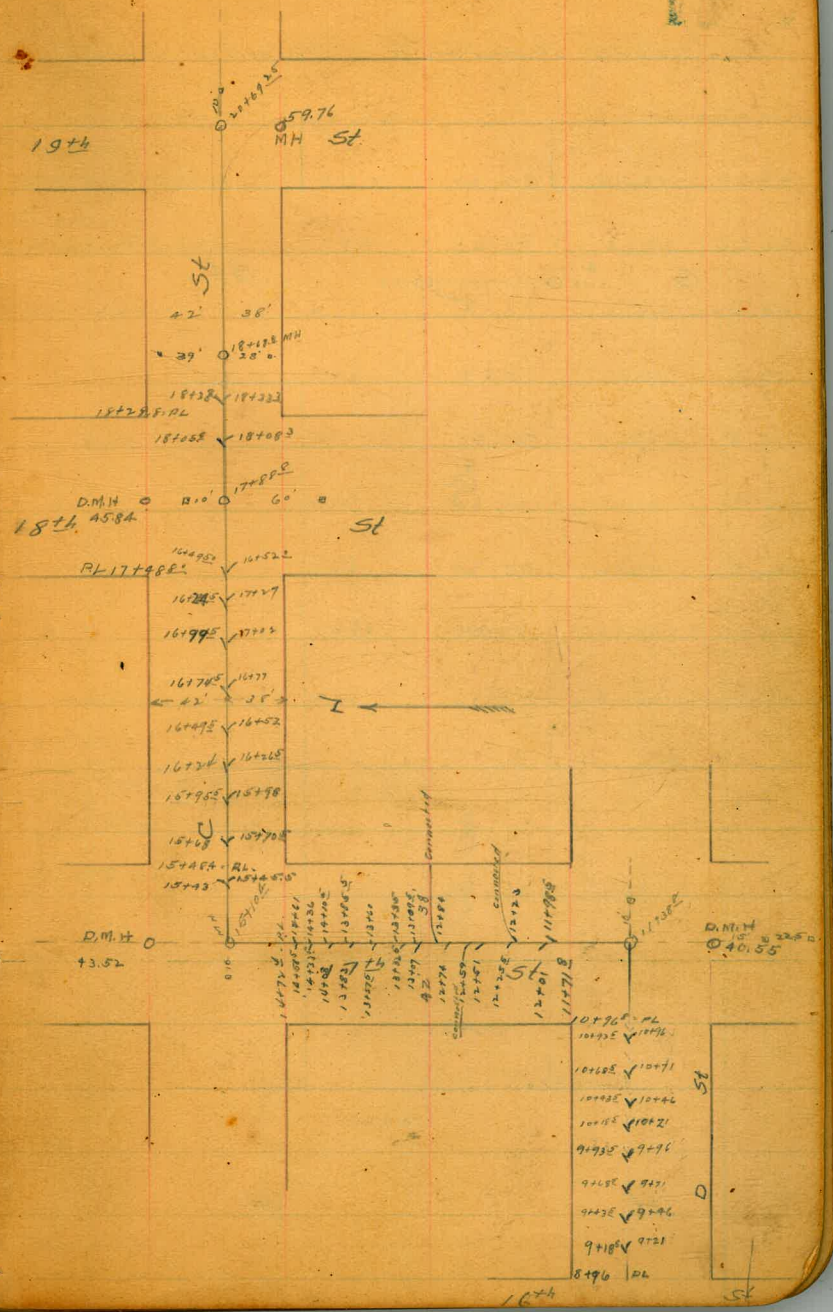
1

7 Davis
Williams
09 Churchman

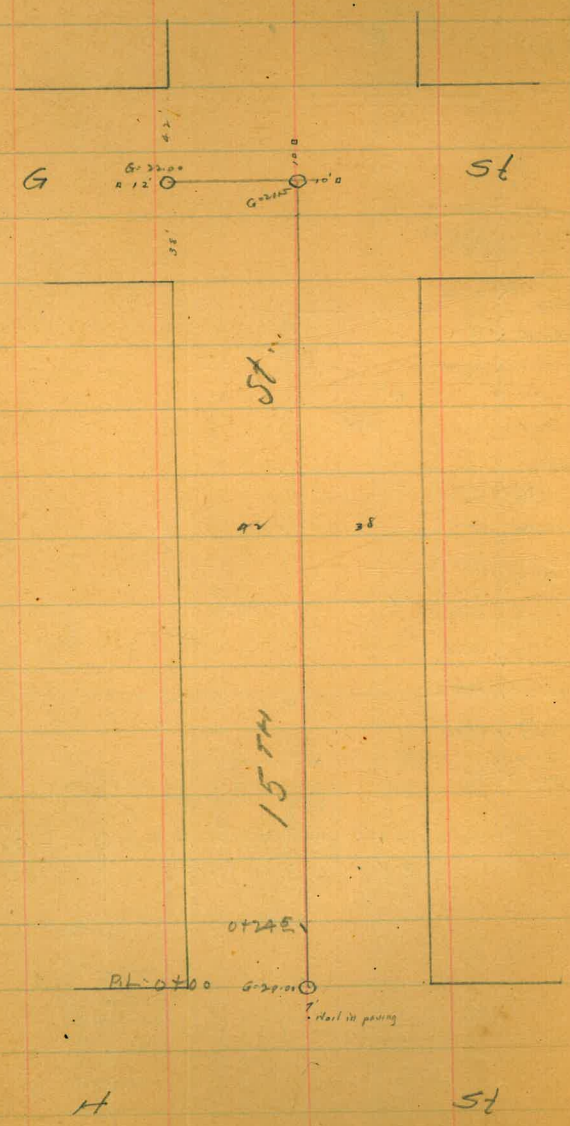
Location of New Sewer, laid on acc. of 15th St Conduit





2

Location of new sewer, laid on acct of Conduit



N.E 35.50 N.W 35.50 1.22
S.E 34.50 S.W 34.50

Sta	Rod	Ground	Grade	Cut
0.97	36.53		35.56	BM. N.E 15th & G
Top 35.00 M.H W.L. 15th Ctr G	2.02	34.52	22.00	12.52
Top 35.00 M.H. Ctr 15th & G=0+00	1.95	34.58	21.50	13.08
+50	4.86	31.67	21.28	10.39
+65				
1	6.54	29.99	21.07	8.92
+50	7.48	29.05	20.85	8.20
2	7.65	28.88	20.63	8.25
+50	7.86	28.67	20.42	8.25
3	7.45	29.08	20.20	8.88
+46.8 M.H N.L.H St	6.60	29.93	20.00	9.93

35.56
2.08
37.64 HT
7.71
29.93 TP
3.59
33.52 HT

21.50 / 16.14 — 35.00 / 2.64 — 22.00 / 15.64 — 3.48 / 30.04 — 3.64 / 19.88 — 4.42 / 29.10

21.23 / 12.29 — 30.00 / 3.52

20.20 / 13.32 — 20.42 / 13.10 — 20.63 / 12.89 — 20.85 / 12.67 — 21.07 / 12.45 — 21.28 / 12.24

4 Grades for Sewers - 15th St Conduit, from 150' So of 158E to 19th & 'C'

Sta	Rod	Ground	Grade	±
MH 0+00=150' So of E Ctr 15th	H.I. 44.34 / 4.54	39.80	Top 46.61 / 29.58	+10.22
+50	5.0	39.34	29.96	+9.38
1	4.50	39.84	30.33	+9.51
+50 S.L.E	2.84	41.56	30.71	+10.8
MH+88 159E	4.56	39.78	Top 50.00 / 31.00	+8.78
2	7.43	36.91	31.11	+5.80
+50	5.50	38.84	31.56	+7.28
3	3.06	41.28	32.01	+9.27
+50	2.97	41.37	32.46	+8.90
4	1.68	42.66	32.91	+9.74
+50	H.I. 51.63 / 5.02	46.61	33.36	+13.24
M.H+64± Ctr 16+E	4.57	47.06	61.50 Top / 33.49	+12.56
5	H.I. 51.73 / 5.16	46.57	33.81	+12.76
+40			34.17	
+50	5.21	46.52	34.26	+12.26
+65			34.39	
6	4.67	57.06	34.71	+12.35
+30			34.98	
+50	3.90	47.83	35.16	+12.67
+87			35.49	
7	2.84	48.89	35.61	+13.28
+25	59.81 H.I.		35.83	
+50	8.34	51.47	36.06	+15.41
+76			36.29	
8	4.87	54.94	36.51	+18.43
+19			36.68	

2.14 44.98 42.84 N.W 159F

4.54 44.34 5.18 39.80

1.81 44.65 42.84

T.P. 5.33 H.I. 44.54 5.44 39.21

31.00 / 13.54 — 30.71 / 13.83 — 30.33 / 14.21 — 29.96 / 14.58 — 29.58 / 14.96 — 1.30 — 43.24 BM — SpK. SpK pole N.W 15+E

31.11 / 13.43 — 31.56 / 12.98 — 32.46 / 12.08 — 1.58 H.I. 42.97 — 2.15 — 41.39

32.91 / 10.06 — 32.01 / 10.96 — 1.03 — H.I. 44.27 — 43.24

30.71 / 13.56 — 30.33 / 13.94 — 29.96 / 14.31 — 4.71 / 29.56

6.06 52.15 46.09 BM

33.49 / 18.66 — 32.91 / 19.24 — 33.81 / 18.34 — H.I. 51.55 — 46.09 / 7.82 / H.I. 53.91 — 55.89 / 2.51 / 58.40 H.I. / 1.19 / 57.21

5.46

34.17 / 17.38 — 34.39 / 17.16 — 34.71 / 16.84 — 34.98 / 16.57 — 36.06 / 17.85

43.24 / 7.20 / 50.44 H.I. — 46.61 / 3.83 — 50.00 / 0.44 — 61.50 / 57.21 / 4.29

8.97 51.63 1.68 42.66

9.07 51.73 42.66

6.39 52.48 46.09

35.16 / 17.32 — 35.49 / 16.99 — 35.83 / 16.65

8.84 59.81 0.76 50.97

55.89 / 4.68 / 60.57 H.I. — 36.29 / 24.28 — 36.68 / 23.89

Sewer Grades

Sta	Rod	Ground	Grade	±
D.M.H.N.L.D st- 3781 HI			37.60	
8454 MH.CH.15.D	3.56	56.25	74 56.00 / 37.00	+17.35
+77	65.68			
9	9.00	56.68	37.36 / 37.38	+19.30
+40				
+50	7.50	58.18	37.72 / 37.80	+20.38
+75				
10	5.77	59.91	38.01 / 38.22	+21.69
+15				
+50	3.87	61.81	38.35 / 38.64	+23.17
+60				
11	1.92	63.76	38.72 / 39.06	+24.70
+3879 MH 17.7D	0.60	65.08	Top 65.25 / 39.38	+25.70
D.M.H.CH.M.D.S.L.D			40.55	
+50	1.20	64.48	39.48	+25.00
	58.02			
12	6.64	51.38	39.90	+11.48
+50	8.50	49.52	40.32	+9.20
13	10.10	47.92	40.73	+7.19
+50	12.10	45.92	41.15	+4.77
14	8.00	50.02	41.57	+8.45
+50	7.28	50.74	41.99	+8.75
15	3.78	54.24	42.41	+11.83
+10 MH 17.7C	3.67	54.35	Top 54.50 / 42.49	+11.86
D.M.H.N.L.C CH 15	59.39		43.52	
+45			42.78	
+50	5.26	54.13	42.83	+11.30
+78			43.06	
16	5.12	54.27	43.25	+11.02
+10			43.38	
+50	4.36	55.03	43.67	+11.36

4.46 / 55.87 / 60.05 HI. — 37.00 / 23.35 — 55.89 / 5.21 / 61.10 HI. — 37.36 / 23.74 — 37.72 / 23.38 — 38.01 / 23.09 — 38.35 / 22.75

5.29 / 55.89 / 61.18 HI. — 37.72 / 23.46 — 55.89 / 4.65 / 60.54 HI. — 37.60 / 22.94 — 63.55 / 5.12 / 68.67 HI. — 2.85 / 64.82 / 4.85 / 24.27 — 55.89 / 4.63 / 60.52 / 5.0 / 4.52

169 D.

9.79 — 65.68 — 3.93 — 55.89 — 55.89

4.74 / 1.76 / 49.60 HI. — 40.32 / 9.28 — 40.73 / 8.87 — 41.15 / 8.45 — 63.55 / 0.47 / 63.97 HI. — 38.35 / 25.62 — 38.72 / 25.25

63.55 BM / 4.03 / 67.58 HI. — 39.06 / 28.52 — 39.38 / 28.20

47.84 / 1.80 / 49.64 HI. — 39.90 / 9.74 — 40.32 / 9.32 — 40.73 / 8.91 — 41.15 / 8.47 — 41.57 / 8.07 — 41.99 / 7.65 — 42.20 / 7.44

63.55 / 4.87 / 68.42 HI. — 40.55 / 27.87 — 54.88 BM / 3.48 / 58.36 HI. — 42.49 / 15.87 — 41.99 / 16.37 — 42.20 / 16.16 — 42.78 / 15.58 — 43.06 / 15.30

43.33 / 15.03 — 43.67 / 14.69 — 54.88 / 4.23 / 59.11 HI. — 43.52 / 15.59

63.55 / 5.63 / 69.18 HI. — 65.25 / 3.93 — 65.00 / 4.18 — 4.00

54.88 / 4.49 / 59.37 HI. — 54.50 / 4.87 — 43.52 / 15.85

179 D

2.12 — 63.56 — 63.55

4.24 — 58.02 — 11.90 — 53.78

55.89 / 5.03 / 60.92 HI. — 5.27 / 55.65 — 4.50 / 56.42 — 8.27 / 52.65 — 56.00 / 52.65 / 3.35

4.51 — 59.39 — 3.15 — 54.88 BM Pig - N.W. 17.7C

Sewer Grades

		59.39		Grade	
16+84				43.95	
17		4.19	55.20	44.08	+11.12
+18				44.23	
+50		3.58	55.81	44.50	+11.31
+88.8	M.H. 18 & C	2.83	56.56	Top {56.50 / 44.83	+11.73
	D. M.H. N.L.C St Ctr 18th			45.84	
		67.11			
18+68.8	M.H.	8.51	58.60	Top {58.60 / 45.50	+13.10
19		7.17	59.94	47.29	+12.65
+50		5.42	61.69	50.16	+11.53
20		3.48	63.63	53.03	+10.60
+50				55.90	
69.25	M.H. 19 & C	1.03	66.08	Top 66.00 / 57.00 }	+9.08
	M.H. S.L. D St. Ctr 19th			59.76	

58.36 Ht. 43.95 / 14.41 44.23 / 14.13

56.87 / 4.06 / 60.93 Ht. 44.50 / 16.43 44.23 / 16.70 44.83 / 16.10 56.50 / 4.43 45.84 / 15.09

10.24 67.11 2.52 56.87

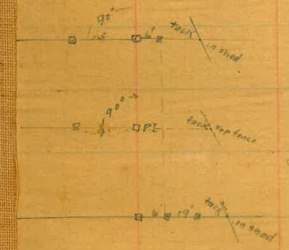
56.87 / 4.00 / 60.87 45.84 / 15.03 56.50 / 4.37

56.87 / 5.11 / 61.98 Ht. 45.50 / 16.48 58.60 / 3.38

9

Grades for Switzer Creek Conduit

Station	Grade
-0+60	59.50
-0+25	59.10
0+00 = S.L City Park	59.00
+25	58.72
+50	58.44
+75	58.16
1	57.88
+25	57.60
+50	57.32
+75	57.04
2	56.76
+25	56.48
+58.29 = PC	56.11
+65	56.03
+70	55.98
+75	55.92
+80	55.86
+85	55.81
+90	55.75
+95	55.70
3 +01.05 RT	55.63
+25	55.36
+50	56.08
+75	54.80
4	54.52
+25	54.24
+50	53.96



60.73
2.02
62.75 HI

55.63 / 7.12 — 56.11 / 6.64 — 55.70 / 7.05 — 55.75 / 7.00

55.81 / 6.94 — 55.86 / 6.89 — 55.92 / 6.83 — 55.98 / 6.77 — 56.03 / 6.72

60.73
2.42
63.15

56.48 / 6.67 — 56.76 / 6.39 — 57.04 / 6.11 — 57.32 / 5.83 — 57.60 / 5.55

57.88 / 5.27 — 58.16 / 4.99 — 58.44 / 4.71 — 58.72 / 4.43

60.73
2.18
62.91
5.02
57.89
8.19
66.08 HI

59.00 / 4.15

58.16 / 7.92 — 58.44 / 7.64 — 58.72 / 7.36 — 59.00 / 7.08

61.31
4.20
65.51 HI

61.00 / 4.51 — 59.19 / 6.32 — 59.53 / 5.98 — 59.00 / 6.51

Conduit Grades.

Sta	Grade	
4+75	53.68	
5	53.40	
+25	53.12	
+50	52.84	
+75	52.56	
6	52.28	
+25	52.00	
+50	51.72	
+75	51.44	
7	51.16	OK
+25	50.88	
+50	50.66	
+75	50.32	
+94.25 P.C	50.10	+0.5
8	50.04	+0.5
+05	49.98	
+10	49.93	+0.56
+15	49.87	
+20	49.82	+0.63
+25	49.76	
+30	49.70	+0.77
M.H. +34 64.74 Top.		
+35	49.64	
+40	49.59	+0.84
+45	49.53	

56.80
3.96
60.76 H.I.

50.10 / 10.66 — 50.32 / 10.44 — 50.60 / 10.16 — 50.88 / 9.88 — 51.16 / 9.60 — 51.44 / 9.32

55.63 / 5.13 — 51.72 / 9.04

58.32
0.668
58.99 H.I.

50.10 / 8.89 — 50.32 / 8.67 — 50.60 / 8.39 — 50.88 / 8.11 — 51.16 / 7.83 — 51.44 / 7.55

51.72 / 7.27 — 52.00 / 6.99 — 52.28 / 6.71 — 52.56 / 6.43

58.32
1.455
59.798 H.I.
5.541
54.237 TP
759
61.83 H.I.
109
6.07

51.72 / 8.06 — 52.00 / 7.78 — 52.28 / 7.50 — 52.56 / 7.22 — 52.84 / 6.94

53.12 / 8.71 — 53.40 / 8.43 — 53.68 / 8.15 — 53.96 / 7.87 — 54.24 / 7.59 — 54.52 / 7.31 — 54.80 / 7.03

55.08 / 6.75 — 55.36 / 6.47 — 55.63 / 6.20

56.80
4.59
61.39 H.I.

5.72 / 55.67

64.74
5.567
9.07

60.04 H.I.

P.C	6+00	+10	+20	+30	+40
3.41	3.50	3.55	3.59	3.57	3.61
56.63	56.54	56.49	56.45	56.47	56.43
56.1	56.04	55.93	55.82	55.70	55.59
+0.53	+0.50	+0.56	+0.63	+0.77	+0.84

+50	+60	+70	+80	7+00
3.69	3.88	4.00	4.02	2.87
56.35	56.16	56.04	56.02	57.19
55.48	55.37	55.26	55.14	57.16 = G
+0.87	+0.79	0.78	+0.88	

OK

6'

tack in nose

56.10 / 3.68 — 56.04 / 3.74 — 55.93 / 3.85 — 55.82 / 3.96

56.80
2.98
59.78 H.I.

55.70 / 4.08 — 55.59 / 4.19

Conduit Grades

Sta.	Grade	
8+50	49.88	+0.57
+55	49.42	
+60	49.37	+0.79
+65	49.31	
+70	49.26	+0.78
+75	49.20	
+80	49.14	+0.88
+85	49.08	
+90	49.03	+0.85
+95	48.97	
9	48.92	+0.80
+05	48.86	
+10	48.81	+0.85
+15	48.75	
+20	48.70	+0.90
+25	48.64	
+30	48.58	+0.91
+35	48.52	
+40	48.47	+0.80
+45	48.41	
+50	48.36	+0.60
+55	48.30	
+60	48.25	
+65	48.19	
+72.85 = P.T.	48.10	
10	47.80	
+25	47.52	
+50	47.24	
+75	46.96	
11	46.68	
+25	46.40	

PC

56.804
2.24
59.04 HI

50.10	48.19	48.25	48.30	48.36	48.41	
8.94	10.94	10.85	10.79	10.74	10.68	10.63

48.47	48.52	48.58	48.64	48.70	48.75	48.81	48.86
10.59	10.52	10.46	10.40	10.34	10.29	10.23	10.18

48.92	48.97	49.03	49.08	49.14	49.20	49.26	49.31
10.12	10.07	10.01	9.96	9.90	9.84	9.78	9.73

49.37	49.42	49.48	49.53	49.59	49.64	49.70	49.76
9.67	9.62	9.56	9.51	9.45	9.40	9.34	9.28

49.82	49.87	49.93	49.98	50.04	50.10 PC
9.22	9.17	9.11	9.06	9.00	

Mark 1/2 Hours CC-4.85 PI

48.10
2.41
50.51 HI

45.84	46.12	46.40	46.68	46.96	47.24
4.67	4.39	4.11	3.83	3.55	3.27

47.52	47.80
2.99	2.71

7.94 25
9.72 25
17.67 10
8.83 55
6.45

56.80 BM
3.24
60.04 HI

8+90	+10	+20	+30
9+00			
4.16	4.27	4.38	4.44	4.55
55.88	55.72	55.66	55.60	55.49
54.93	54.81	54.70	54.58	54.38
+0.85	+0.80	+0.85	+0.90	+0.91

+40	+50
4.77	5.08
55.21	54.96
54.47	54.31
+0.8	+0.6

59.78 HI

55.48	55.37	55.26	55.15	55.03	
4.30	4.41	4.52	4.63	4.75	
54.92	54.81	54.70	54.58	54.37	54.36
4.86	4.97	5.08	5.20	5.21	5.42

Mark 1/2 Hours PT

Conduit Grades

Sta.	Grade
11+50	46.12
+75	45.84
12	45.56 ✓
+25	45.28
+50	45.00
+75	44.72
13	44.44
+25	44.16
+50	43.88
+75	43.60
14+07 = P.C	43.24
+15	43.15
+20	43.09
+25	43.04
+30	42.98
+35	42.93
+40	42.87
+45	42.81
+50	42.75
+55	42.70
+60	42.64
+65	42.59
+70	42.53
+75	42.48
+80	42.42
+85	42.37

1.12%

47.845
3.345
51.19 H.I.

42.16
9.03
= P.T.

42.18 / 9.01 ✓ — 42.25 / 8.94 ✓ — 42.31 / 8.88 ✓ — 42.37 / 8.82 ✓ — 42.42 / 8.77 ✓

42.48 / 8.71 ✓ — 42.53 / 8.66 ✓ — 42.59 / 8.60 ✓ — 42.64 / 8.55 — 42.70 / 8.49 ✓

42.75 / 8.44 ✓ — 42.81 / 8.38 ✓ — 42.87 / 8.32 ✓ — 42.93 / 8.26 ✓ — 42.98 / 8.21 ✓ — 43.04 / 8.15 ✓

47.84
2.57
50.41 H.I.

43.09 / 8.10 ✓ — 43.15 / 8.04 ✓ — 43.24 / 7.95 (P.C.)

43.60 / 6.81 — 43.88 / 6.53 ✓ — 44.16 / 6.25 ✓ — 44.44 / 5.97 — 44.72 / 5.69 ✓ — 45.00 / 5.41

45.28 / 5.13 — 45.56 / 4.85 ✓ — 45.84 / 4.57

Conduit Grades

Sta	Grade
+90	42.31
14+95	42.25
15+01.25 = P.T.	42.18
+03.52 = P.C	42.16
+10	42.09
MH2+11.38 6 60.19 Top	
+15	42.00
+20	41.97
+25	41.92
+30	41.86
+35	41.81
+40	41.75
+45	41.70
+50	41.64
+55	41.58
+60	41.53
+65	41.47
+70	41.42
+75	41.36
+80	41.31
+84.97 = PT	41.25
16	41.08
+25	40.80
+50	40.52
+75	40.24
17	39.96
+25	39.68
+50	39.40
+75	39.12

44.64 H.I. 39.68 / 4.96 ✓ 39.40 / 5.24 39.12 / 5.52 ✓

47.84
3.60
51.44 H.I.

41.25 / 10.19 42.16 / 9.28 41.08 / 10.36

39.96 / 11.48 ✓ 39.68 / 11.76 ✓ 40.24 / 11.20 ✓

Nail top fence 6' 20'

40.52 / 10.92 40.80 / 10.64 42.09 / 9.35 42.03 / 9.41

tack top fence 6' 25'

41.97 / 9.47 41.92 / 9.52 ✓ 41.86 / 9.58 ✓ 41.81 / 9.63 41.75 / 9.69 41.70 / 9.74 41.64 / 9.80

41.58 / 9.86 41.53 / 9.91 41.47 / 9.97 41.42 / 10.02 41.36 / 10.08 41.31 / 10.13

55.50 H.I. 7.48 / 48.02 60.19 / 48.02 / 12.17

30 14' 6' 40'

Conduit Grades

Sta	Grade
18	38.84
+25	38.56
+50	38.28
+75	38.00 ✓
19	37.72 ✓
+18.46 = P.C	37.51 ✓
+40	37.27 ✓
+60	37.05 ✓
+80	36.82 ✓
20	36.60 ✓
+20	36.38 ✓
+40	36.15 ✓
+60	35.93 ✓
+80	35.70 ✓
21	35.48 ✓
+20	35.26 ✓
+40	35.03 ✓
+60	34.81 ✓
+80	34.58 ✓

43.85 H.I.
4.20
39.65 T.P.
7.72
47.37 H.I.

45.72 B.M.
0.51
46.23 H.I.

47.845
1.015
48.860 H.I.
5.44
43.42 T.P.
1.22
44.64 H.I.

34.58 / 9.27 — 34.81 / 9.04 — 35.03 / 8.82 — 35.26 / 8.59

35.48 / 11.89 — 35.70 / 11.67 — 35.93 / 11.44 — 36.15 / 11.22 — 36.38 / 10.99

36.60 / 10.77 — 37.51 / 8.72 — 37.27 / 8.96 — 37.05 / 9.18 ✓ — 36.82 / 9.41

37.27 / 7.37

37.51 / 7.13 — 37.72 / 6.92 ✓ — 38.00 / 6.64 ✓ — 38.28

38.56 / 6.08 ✓ — 38.84 / 5.80 ✓

tack in bridge — 9' — 6'

Wall bridge — 6'

tack pool — 6'

tack bridge — 6'

6' — 10 Apr.

26' Apr. — 6'

22.5 Apr. — 6'

24 Apr. — 6'

25 Apr. — 6'

6' — 30 Apr.

6' — 30'

6' — 30'

6' — 25'

6' — 26'

Conduit Grades

Sta	Grade
22	34.36
+20	34.14
+36.11 = P.T	33.96
+50	33.80
MH3 +75 G 50.01 Tp	33.52
23	33.24
+25	32.96
+50	32.68
+75	32.40
24	32.12
+25	31.84
+50	31.56
+75	31.28
25	31.00
+25	30.72
+50	30.44
+75	30.16
26	29.88
+25	29.60

G 50.00 - 15 VE

43.24 MH 0.61 43.85 HI — 33.96 9.89 — 34.14 9.71 — 34.36 9.47

6" @ 26 Apart

43.24 0.12 43.36 HI — 33.80 9.56 — 33.52 9.84 — 33.24 10.12 — 32.96 10.40

6" @ 25' ...

33.96 9.40 — 32.68 10.68 — 32.40 10.96 — 32.12 11.24 — 31.84 11.52 — 31.56 11.80

@ 16' 6" @ 17' @ 56' Apart

43.24 0.49 43.73 HI 1.56 — 31.84 49 — 31.56 5.20 — 31.28 5.48 — 31.00 5.76 — 30.72 6.04

32.17 Tp 4.59 36.76 HI 1.75 — 30.44 6.32 — 30.16 6.60 — 29.88 6.88 — 29.60 7.16 — 29.32 7.44

35.01 Tp 1.75 46.76 HI 3.92 42.84 BM 15 F

44.03 — 37.28 6.75

Sta 22+48 — 4.70 — 39.33 — 39.38 G

22+87	23+25	23+50	23+75
4.70	5.00	5.22	5.51
39.33	39.03	38.81	38.72
39.38	38.96	38.68	38.70
-0.05	+0.07	+0.13	+0.02

44.03 HI.

24+00	+25	+50	+75	25+00	+25
5.48	5.79	6.04	6.41	6.60	6.71
38.55	38.24	37.99	37.62	37.43	37.32
38.12	37.80	37.56	37.24	37.00	36.72
+0.43	+0.44	+0.43	+0.38	+0.43	+0.60

+50	+75	26+00 PC
6.70	6.77	6.77
37.33	37.26	37.26
36.44	36.16	35.88
+0.89	+1.10	+1.38

Conduit Grades

Sta	Grade
26+50	29.32 ✓
+75	29.04
27	28.76
+25	28.48
+60	28.09
+75	[illegible]
28	[illegible]
+25	[illegible]
+50	[illegible]
+75	[illegible]
29	[illegible]
+25	[illegible]
+50	[illegible]
+75	[illegible]
30	[illegible]
+25	[illegible]
+50	[illegible]
+75	[illegible]
31.[illegible] P.C	[illegible].32

1.12%

For grades from Sta 26+00 See P. 49.

Conduit Grades

31+10		
+20		
MH#4 + 28.0 G = 34.10 TOP		
+30		
+40		
+50		
+60		
+64		
+70		
+80		
+90	1.398 + %	22.08
32		21.94
+10		21.80
+20		21.66
+30		21.52
+39.66 = P.T.		21.38
+50		21.24
+75		20.89
33		20.54
+17.31 = P.C.		
+25		

Conduit Grades

33+35		20.05
+45		19.91
+55		19.77
+65		19.63
+75		19.49
+85		19.35
+95		19.21
34+05	1.3986+%	19.07
+15		18.93
+24.05 = P.T.		18.79
+50		18.44
+75		18.09
35		17.74
+25		17.39
+50		17.04
+75		16.69
36		16.34
+32.22 = P.C		15.89

⊠ 9' ⊠ 6' 10' ⊠

Nail in brace post

⊠ 14' ⊠ 6' 15' ⊠

36 + 40		15.78
+50		15.64
+60		15.50
+70		15.36
+80		15.22
PT +85.31		15.15
37		14.94
+25	13986 + 7	14.59
+50		14.24
+75		13.89
38		13.54
+25		13.20
+50		12.85
+75		12.50
39		12.15
+25		11.80
+50		11.45
+75		11.10
40		10.75

M.H. +05.85 → G29.25 Tip

tack in stable

6' 18'

40+25	10.40
P.C. +50 76	10.04
+55	9.98
+60	9.91
+65	9.84
+70	9.77
+75	9.70
+80	9.63
+85	9.56
+90	9.49
+75	9.42
41	9.35
+05	9.28
+10	9.21
+15	9.14
+20	9.07
+25	9.00
+30	8.93
+35	8.86
+40	8.79
+45	8.72
+50	8.65
P.T. +55 48	8.57
+75	8.30
P.C +99 34	7.96
42 +05	7.88
42 +10	7.81
+15	7.74
+20	7.67
+25	7.60
+30	7.53
+35	7.46
+40	7.39
+45	7.32

1.3986 +%

6' 20'

15' 10' 15'

10' 10' 20'

42 + 50	7.25
+ 55	7.18
+ 60	7.11
+ 65	7.04
+ 70	6.97
+ 75	6.90
+ 80	6.83
+ 85	6.76
+ 90	6.69
+ 95	6.62
43	6.55
+ 05	6.48
+ 10	6.41
+ 15	6.34
+ 20	6.27
+ 25	6.20
+ 30	6.13
+ 35	6.06
+ 40	5.99
+ 45	5.92
+ 50	5.85
+ 55	5.78
+ 60	5.71
P.T + 66.18	5.61
+ 75	5.50
44	5.15
+ 25	4.80
+ 50	4.45
+ 75	4.10
45	3.75

45+25		3.40
+50		3.06
+75		2.71
M.H +84 45	17.65 Top	
46		2.36
+25		2.01
+50		1.66
+75		1.31
47	1.3986 %	0.96
+25		0.61
+50		+ 0.26
+75		-0.09
48		-0.44
+25		-0.79
+50		-1.14
+75		-1.49
49		-1.84
+25		-2.19
+50		-2.54
+75		-2.89

Sta		Grade
50		[illegible]
+25		− 3.59
+50		− 3.94
+83.45		− 4.406
+92.45		− 4.522
51 +00.45		− 4.663
+10.45		− 4.775
+20.45		− 4.871
[illegible]	Vertical Curve	− 4.[illegible]
[illegible]		− 5.027
+53.45		− 5.066
+73.45		− 5.131
+75.45		− 5.165
+83.45		− 5.185
52 [illegible]		[illegible]
+25		− 5.243
+50	0.147	− 5.278
+75		− 5.313
53		− 5.348

53+25	-5.383
+50	-5.418
+75	-5.453
54	-5.488
+25	-5.522
PC +34.04	-5.536
+40	-5.544
+50	-5.558
+60	-5.572
+70	-5.586
+80	-5.600
+90	-5.614
55 +02.11 PT	-5.631
+25	-5.663
+50	-5.698
+75	-5.733
56	-5.768
+25	-5.803
+50	-5.838

0.147

+75	-5.873
57	-5.908
+25	-5.943
+50	-5.978
+75	-6.013
58	-6.048
+25	-6.083
+45 L.P.C	-6.111
+55	-6.125
+65	-6.139
+75	-6.153
+85	-6.167
+95	-6.181
59 +05	-6.195
+13.22 P.T	-6.207
+25	-6.223
+50	-6.258
+75	-6.293
60	-6.328

0.4%

60+25	
+50	
+75	
61	
+25	
+50	4147 -6.538
+75	-6.573
62	-6.608
+25	-6.643
+50	-6.678
+75	-6.713
63	-6.748
+15 ~~45~~	-6.770

Cuts for Switzer Creek Conduit

		Hi.	Ground	Grade	Cut.
	1.39	62.67		61.28 BM. Spk. Pole line	
0+00		2.56	60.11	59.00	+1.11
+50		3.52	59.14	58.44	+0.70
1		3.73	58.94	57.88	+1.06
+50		4.08	58.59	57.32	+1.27
2		4.71	57.96	56.76	+1.20
+58.28		5.68	56.99	56.11	+0.88
+70		5.69	56.98	55.98	+1.00
+80		5.76	56.91	55.86	+1.05
+90		6.01	56.66	55.75	+0.91
3+01.05		5.98	56.69	55.63	+1.06
+50		6.54	56.13	55.08	+1.05
TP	3.52	59.65	6.54	56.13	
4		4.74	54.91	54.52	+0.39
+50		3.54	56.11	53.96	+2.15
5		5.22	54.43	53.40	+1.03
+50		5.76	53.89	52.84	+1.05
6		6.12	53.53	52.28	+1.25
+50		6.36	53.29	51.72	+1.57

2 Davis
3 Williams
.09 Churchman

			Ground	Grade	Cut.
7+00		4.24	55.41	51.16	+4.25
+50		4.84	54.81	50.60	+4.21
+94.25		3.68	55.97	50.10	+5.87
TP	4.20	60.17	3.68	55.97	
8		4.23	55.94	50.04	+5.90
+10		4.28	55.89	49.93	+5.96
+20		4.38	55.79	49.82	+5.97
+30		4.39	55.78	49.70	+6.08
+40		4.59	55.58	49.59	+6.00
+50		4.65	55.42	49.48	+5.94
+60		4.14	56.03	49.37	+6.66
+70		4.66	55.51	49.26	+6.25
+80		4.98	55.19	49.14	+6.05
+90		5.70	54.47	49.03	+5.44
9		5.10	55.07	48.92	+6.15
+10		4.89	55.28	48.81	+6.47
+20		4.70	55.47	48.70	+6.77
+30		6.83	53.34	48.58	+4.76
+40		7.09	53.08	48.47	+4.61

Cuts for Switzer Creek Conduit.

		60.17	Ground	Grade	Cut
9+50		6.41	53.69	48.36	+5.33
+60		6.70	53.47	48.25	+5.22
+72.85		5.83	54.34	48.10	+6.24
T.P	1.02	52.54	8.63	51.54	
10 +50		0.90	51.64	47.24	+4.40
11		1.83	50.71	46.68	+4.03
+50		4.45	48.09	46.12	+1.97
12		5.27	47.25	45.56	+1.69
+50		3.06	49.48	45.00	+4.48
13		3.77	48.77	44.44	+4.33
+50		4.12	48.47	43.88	+4.54
T.P.	4.29	52.71	4.12	48.42	
14 +07		6.69	46.02	43.24	+2.78
+15		6.82	45.89	43.15	+2.74
+25		6.64	46.07	43.04	+3.03
+35		6.19	46.52	42.93	+3.59
+45		6.98	45.73	42.82	+2.91
+55		6.98	45.73	42.70	+3.03
+65		6.69	46.02	42.59	+3.43

		52.71	Ground	Grade	Cut.
+75		6.62	46.09	42.48	+3.61
+85		6.77	45.94	42.37	+3.57
+95		6.99	45.72	42.25	+3.47
15+01.25		6.89	45.82	42.18	+3.64
+03.52		7.13	45.58	42.16	+3.42
+10		7.16	45.55	42.09	+2.46
	4.89	52.74	4.89	47.82	0.85
+20		7.50	45.24	41.97	+3.27
+30		7.73	45.01	41.86	+3.15
+40		7.64	45.10	41.75	+3.35
+50		7.42	45.30	41.64	+3.66
+60		7.30	45.44	41.53	+3.91
+70		7.55	45.19	41.42	+3.77
+84.97		7.05	45.69	41.25	+4.44
16+50		7.20	45.54	40.52	+5.02
17		7.58	45.16	39.96	+5.20
T.P.	0.95	46.11	7.58	45.16	
+50		3.55	42.56	39.40	+2.16
18		3.60	42.51	38.84	+3.67

Cuts for Switzer Creek Conduit.

		H.I. 46.11	Ground	Grade	Cut
18+50		5.00	41.11	38.28	+2.83
19+18.46		5.69	40.42	37.51	+2.91
+40		6.05	40.06	37.27	+2.79
+60		6.16	39.95	37.05	+2.90
+80		4.69	41.42	36.82	+4.60
20 +00		5.24	40.87	36.60	+4.27
+20		6.32	39.79	36.38	+3.41
+40		6.61	39.50	36.15	+3.35
+60		7.26	38.85	35.92	+2.92
+80		7.25	38.86	35.70	+3.16
21		6.88	39.23	35.48	+3.75
+20		6.23	39.88	35.26	+4.62
+40		6.12	39.99	35.03	+4.96
+60		6.61	39.50	34.81	+4.69
+80		7.53	38.58	34.58	+4.00
T.P	4.40	42.98	7.53	38.58	
22		5.28	37.70	34.36	+3.34
+20		5.28	37.70	34.14	+3.56
+36.11		5.44	37.54	33.96	+3.58

		H.I.	Ground	Grade	Cut
	2.47	45.71		43.24 BM	
23		7.39	38.32	33.24	+5.08
+50		5.18	40.53	32.68	+7.85
24		5.14	40.57	32.12	+8.45
+50		7.00	38.71	31.56	+7.15
25		5.59	40.12	31.00	+9.12
+50		9.29	36.42	30.44	+5.98
26		11.99	33.72	29.88	+3.84
			2.88	42.83	42.84 BM 15 F
	8.56	38.44		29.88	
+10		5.55	32.89	29.77	3.12
+20		5.88	32.56	29.66	2.90
+30		5.70	32.74	29.54	3.20
+40		5.33	33.11	29.43	3.68
+50		5.23	33.21	29.32	3.89
+60		1.11	37.33	29.21	8.12
+70		0.46	37.98	29.10	8.88
+80		3.11	35.33	28.98	6.35
PC +87.27		6.13	32.14	28.90	3.24

			Ground	Grade	Cut
		38.44			
P.C. 27+42		5.26	33.18	28.29	4.89
T.P.	7.37	40.67	5.14	33.30	
+50		7.76	32.91	28.20	4.71
+60		8.28	32.79	28.09	4.70
+70		9.00	31.67	27.95	3.72
+80		8.69	31.98	27.81	4.17
+90		8.60	32.07	27.67	4.40
28+00		8.73	31.94	27.53	4.41
+10		8.55	32.12	27.38	4.74
P.T. +25.41		8.08	32.59	27.17	5.42
	1.71	44.55		42.84	
	4.40	37.69	11.26	33.29	
29		6.77	30.92	26.12	4.80
+50		6.36	31.33	25.41	5.92
30		7.45	30.24	24.71	5.53
+50		7.75	29.94	24.00	5.94
T.P.	7.71	37.63	7.75	29.94	
31+41.32		10.67	27.02	22.71	4.31
+50		6.61	31.02	22.59	8.43

			Ground	Grade	Cut
		37.63			
+60		6.75	30.88	22.45	8.43
+70		7.48	30.15	22.31	7.84
+80		7.56	30.06	22.17	7.88
+90		7.75	29.88	22.03	7.85
32		7.70	29.93	21.89	8.04
+10		7.76	29.87	21.74	8.13
+20		7.91	29.72	21.60	8.12
+30		9.64	27.99	21.46	6.53
+40		11.47	26.16	21.32	4.84
+50		11.22	26.41	21.18	5.23
+60		11.41	26.22	21.04	5.18
+67.77		11.07	26.56	20.93	5.63
	0.11	38.67		36.56	
	2.98	29.51	9.09	26.58	
32+95.56		3.75	25.76	20.54	+5.22
33+05		3.82	25.69	20.41	+5.28
+15		3.73	25.78	20.27	+5.51
+25		3.40	26.11	20.12	6.00
+35		3.12	26.39	19.98	6.41

		29.51	Ground	Grade	Cut
33+45		3.29	26.22	19.84	6.38
+55		3.07	26.44	19.70	6.74
+65		3.24	26.27	19.56	6.71
+75		3.52	25.99	19.42	6.57
+85		3.66	25.85	19.28	6.57
+95		5.10	24.41	19.14	5.27
34+05		5.44	24.07	19.00	5.07
+11.32 P.T.		4.83	24.68	18.91	+5.77
TP Nut E. of P.T.	0.57	27.77	27.77	2.31	27.20
+32		3.82	23.94	18.61	5.32
+82		4.56	23.21	17.91	5.30
35+32		5.45	22.32	17.21	5.11
+82		5.80	21.97	16.50	5.47
36+14.06 PC		6.56	21.21	16.05	5.16
	8.87	30.08	6.56	21.21	
+22		8.85	21.23	15.93	5.30
+32		8.58	21.50	15.79	5.71
+42		8.85	21.23	15.65	5.58
+52		8.96	21.12	15.51	5.61

		30.08	Ground	Grade	Cut
+62		6.93	23.15	15.37	7.78
P.T. + 67.15		7.30	22.78	15.30	7.48
36+82		8.21	21.87	15.09	6.78
37+57		5.48	24.60	14.03	10.53
+82		8.75	21.33	13.68	+7.65
38+32		9.45	20.63	12.98	7.75
+82		10.23	19.85	12.27	7.58
TP	2.19	30.51	1.76	28.32	
39+32		2.09	28.42	11.57	16.85
+82		2.04	28.47	10.86	17.61
TP. Rock stake	4.14	22.79	11.86	18.65 TP	
40+32.60 PC		5.05	17.74	10.15	7.59
+42		6.92	15.87	10.01	5.86
+52		6.96	15.83	9.87	5.96
+62		6.90	15.89	9.73	6.16
+72		6.34	16.45	9.59	6.86
+82		5.47	17.32	9.45	7.87
+92		5.44	17.35	9.31	8.04
41+02		5.94	16.85	9.17	7.68
+12		6.42	16.37	9.03	7.34

	22.79	Ground	Grade	Cut
41+22	6.50	16.29	8.88	7.41
+32	6.43	16.36	8.74	7.62
P.T. +37 37	6.60	16.19	8.67	7.52
P.C. +81 18	6.10	16.69	8.06	8.63
+92	5.23	17.56	7.90	9.66
42+02	5.72	17.06	7.76	9.30
+12	6.03	16.76	7.62	9.14
+22	6.08	16.71	7.48	9.23
+32	5.98	16.81	7.34	9.47
+42	6.39	16.40	7.19	9.21
+52	6.68	16.11	7.05	9.06
+62	6.84	15.95	6.91	9.04
+72	6.93	15.86	6.77	9.09
+82	6.38	16.41	6.63	9.78
+92	6.24	16.55	6.49	10.06

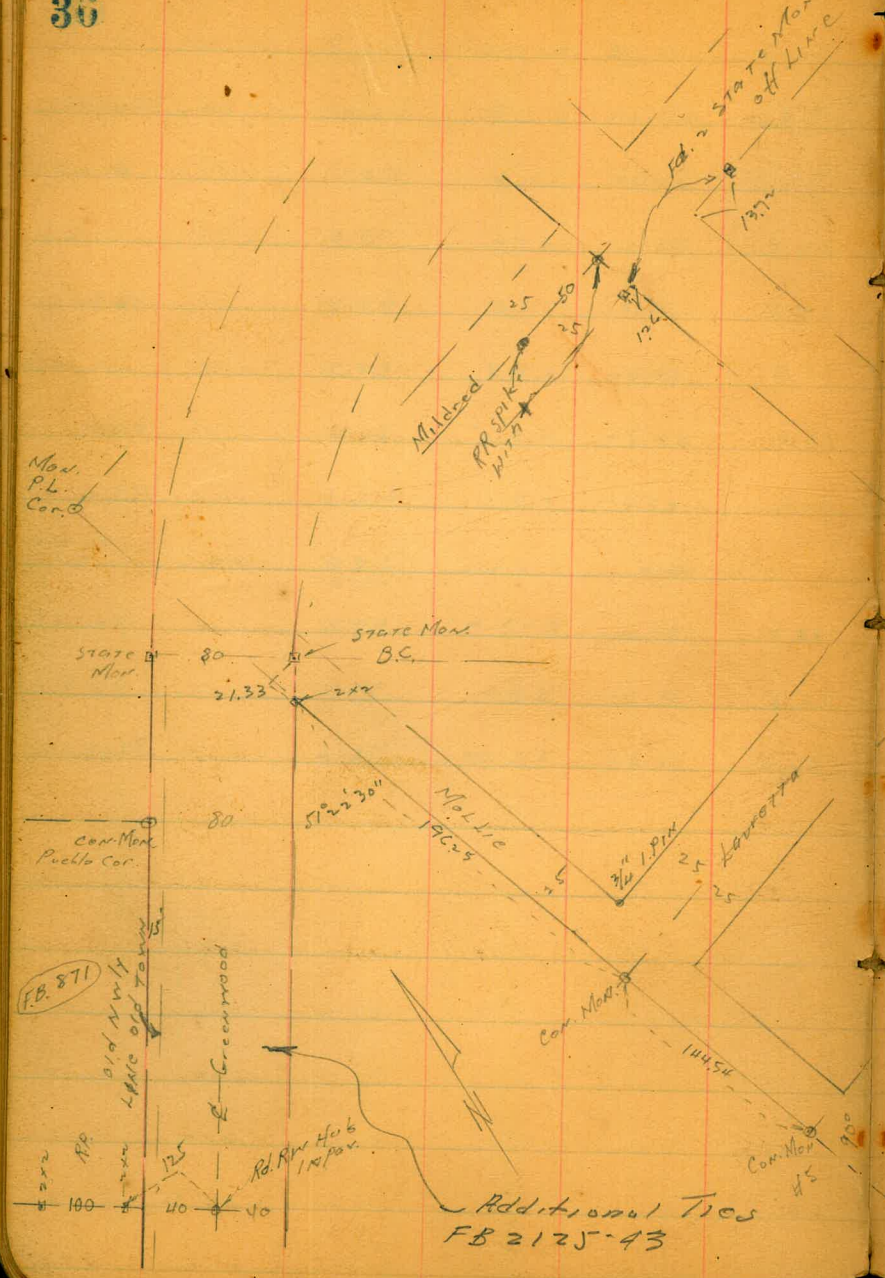
		22.79	Ground	Grade	Cut
43+02		6.52	16.22	6.35	9.87
+12		6.73	16.06	6.21	9.85
+22		7.24	15.55	6.07	9.48
+32		7.19	15.60	5.93	9.67
+42		4.83	17.96	5.79	12.17
P.T. +48 82		6.48	22.31	5.69	16.62
	3.00	24.96		21.96 B.M. N.W. corr.	
T.P.	0.95	23.25	2.66	22.30	
44		1.66	21.59	4.97	16.62
+50		6.56	16.69	4.27	12.42
45		8.81	14.44	3.56	10.88
+50		9.92	13.33	2.86	10.47
46		8.30	14.95	2.15	12.80
+50		11.01	12.24	1.45	10.79
T.P.	1.55	12.88	11.92	11.33	
47		1.55	11.33	0.74	10.59
+50		4.60	8.28	+0.04	8.24
48		5.06	7.82	−0.67	8.49
T.P.	4.51	12.77	4.62	8.26	

		12.77	Ground	Grade	Cut
48+50		4.51	8.26	-1.13	9.39
49		5.83	6.94	-1.48	8.42
+50		5.80	6.97	-1.84	8.81
50		6.21	6.56	-2.19	8.75
+65 29		4.48	8.29	-4.41	[illegible]
+75 29		4.49	8.28	-2.72	11.00
+85 29		4.30	8.47	-4.66	13.13
+95 29		4.51	8.26	-4.77	13.03
51+05 29		4.61	8.16	-2.95	11.16
+15 29		4.80	7.97	-4.95	12.92
+25 29		6.12	6.65	-5.83	12.48
+35 29		6.27	6.50	-5.09	[illegible]
+45 29		5.34	7.43	-5.13	12.56
+55 29		2.57	10.20	-5.16	15.36
+65 29		4.79	7.98	-3.36	11.34
+90 29		6.60	6.17	-2.96	9.13
T.P	4.77	10.94	6.60	6.17	[illegible]
52+50		2.51	8.43	-3.22	11.65
53		4.83	6.11	-3.43	9.54

		10.94	Grnd	Grade	Cut
+60		6.82	4.12	-3.64	7.76
54+15 28 P.C.		6.68	4.26	-3.91	8.17
+25		5.85	5.09	-3.95	9.04
+35		5.48	5.46	-3.99	9.45
+45		5.51	5.43	-4.04	9.47
+55		5.91	5.03	-4.081	9.11
+65		5.47	5.47	-4.12	9.59
+75		6.26	4.68	-4.16	8.84
+83 25 P.T.		5.79	5.15	-4.20	9.35
55+50		4.10	6.84	-4.48	11.32
+75		4.19	6.75	-4.58	11.33
T.P	6.59	7.78	9.75	[illegible]	[illegible]
56+50		4.68	3.10	-4.90	8.00
57+25		5.93	1.85	-5.21	7.06
57+50		5.67	2.11	-5.32	7.43
58		4.61	3.17	-5.53	8.70
+26 29 P.C		4.04	3.74	-5.64	9.38
T.P.	4.32	8.06	4.04	3.74	[illegible]
+65		7.10	0.96	-5.78	6.74

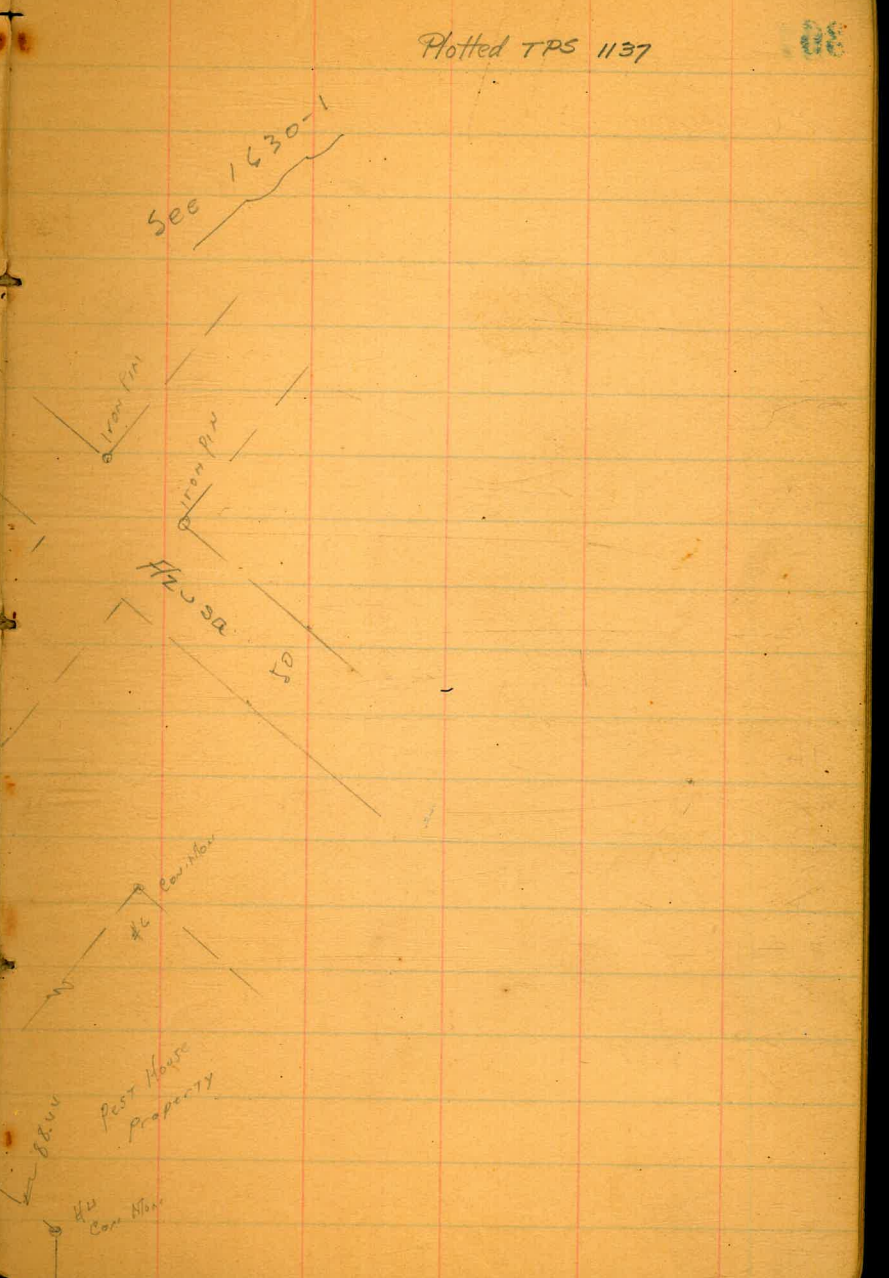
		8.06	Ground	Grade	Cut
58+95.06 PT		5.74	2.32	-5.93	8.25
59+00		5.45	2.61	-6.16	8.77
60		4.78	3.28	-6.35	9.63
+50		5.49	2.57	-6.42	8.99
61		5.23	2.83	-6.49	9.32
+50		5.24	2.82	-6.56	9.38
+75		6.53	1.53	-6.60	8.13
T.P	3.43	4.96	6.53	1.53	
62+25		5.99	-1.03	-6.67	5.64
+50		5.58	-0.62	-6.70	6.08
63+97.29		5.35	-0.39	-6.77	6.38

Greenwood, Mildred & Mollie St.
Tie #73. C.S.M. 11-44.



indexed
C.S.K.

Plotted TPS 1137



Slope Stakes for Dam at Park Line

Grade Top dam 74.5 - 10' wide at top 2 to 1 Slope on No. 1½ to 1 Slope So

74.50
73.37
+ 1.13

12.09
12.1
1.1
13.2
6.6
19.8

73.37
8.83
1.13
9.96
4.98
14.94

7.13
1.13
8.26
4.13
12.39

6.6
1.13
7.73
3.86
11.59

61.28 BM
5.7
1.13
6.83
3.41
10.24

4.67
1.13
5.80
2.9
8.7

3.8
1.13
4.93
2.46
7.39

1.65
1.13
2.78
1.39
4.17

1.53
1.13
2.66
1.32
5.32

4.36
1.13
5.49
2
10.98

5.00
1.13
6.13

5.7
1.13
6.83
2
13.66

6.83
1.13
7.96
2
15.92

7.15
1.13
8.28
2
16.56

9.13
1.13
10.26
20.52

9.76
1.13
10.89
2
21.78

77.32
74.50
- 2.82

4.96
61.31
9.95
71.26 HI
4.70
66.56 TP
9.44
76.00

77.32
74.50
+ 3.24

1.01
10.43
3.24
13.67
6.83
20.09

10.15
3.24
13.39
6.7
20.09

72.36
9.81
3.24
13.05

74.50
- 1.50

8.25
1.50
6.75
13.50

4.7
1.5
3.2

7.76
1.50
6.26

7.26
1.50
5.76
2.88
8.64

61.31
11.61
72.92 HI

7.55
1.5
6.05
3.0
19

74.50
72.92
- 1.58
18 8

3.85
1.58
5.43

2 | 15.5
7.75

8.30
1.58
2 | 9.88
4.94
14.82

3.26
1.58
2 | 4.84
2.42
7.26

1.1
1.58
2.68
5.36

1.28
1.58
2.86
1.43
4.29

2.50
1.58
4.08
2.04
6.12

1.58
2.23
3.81
1.9
5.70

3.33
1.58
4.91
2
9.82

4.57
1.58
6.15

3.88
1.58
2 | 5.46
2.73
8.19

5.23
1.58
6.81
3.4
10.21

61.31
11.86
73.17 HI
2.18
70.99 TP
6.48
77.47 HI

4.95
1.58
6.53
13.16

6.08
1.58
7.66
3.83
11.49

6.5
1.6
8.1

5.76
2.97
2.79

5.55
2.97
2.58

74.50
2.97 = G

8/26/69 Davis

Grades for Lateral on 17th St No of D

0 Grade at conduit crossing 40.95
+30 40.85
+78 " " Sewer connection 40.69 - Elev of Y at 12+59

3.74 51.58 47.84 BM 17-C&D

40.95 / 10.63 40.69 / 10.89

47.84
2.34
50.18 = [illegible]

40.85 / 9.33

78) .260 (.333
234
260
234
260

.00333
30
.09990

Grades for Catch Basins

No 1-12"C	N.E Cor	18th & C	Ct. G.	57.00	G. 53.87
No 2-12"C	N.E. Cor	17th & C	Ct. G	54.00	8" → 51.23 12" → 50.87
No 3-8"C	N.W. Cor	17 & C	Ct. G	55.00	52.23
No 5-8"C	S.W Cor	17 & C	Ct. G	55.00	52.23
No 4-15"V	S.E Cor	17 & C	Ct. G	54.00	12" 50.37 15" 50.16
1+14					
1+00					+9.64
+50					47.77
0+00 Conduit				45.90	45.90

54.88
0.62
55.50 HI

1.81
53.69
49.64
4.05

4.21
51.29
47.77
3.52

9.60
15.90

56.875 BM

56.80
7.08
63.88 HI

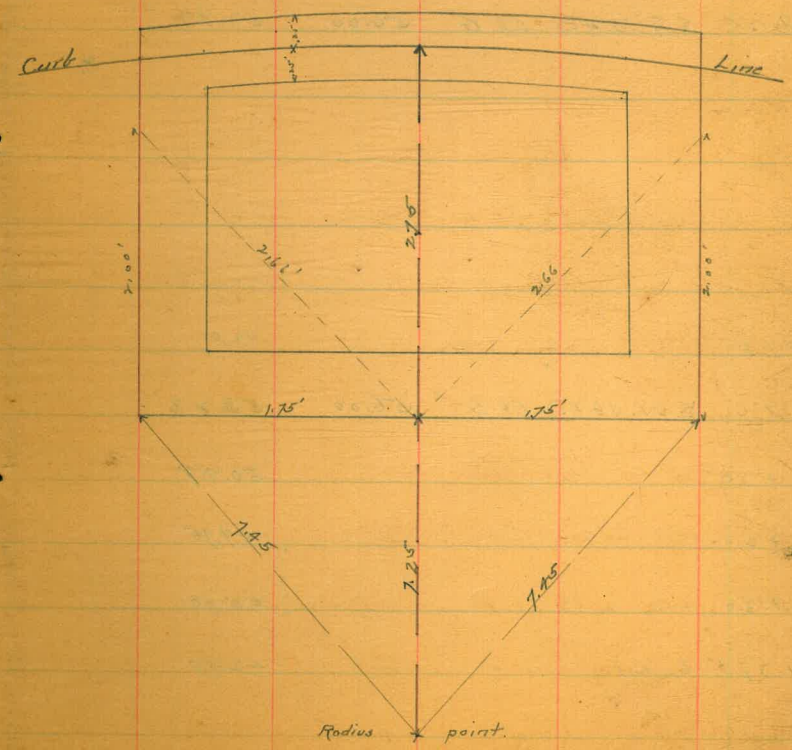
57.00
6.88

4.08
53.72

54.88
3.92
58.80 HI

55.00
3.80

54.00
4.80



Grades for Catch Basins Lot. pipe

No 6-8°C	N.E 16 & D Ct.G	56.00	53.23
No 7-8°C	N.W 16 & D Ct.G	56.00	53.23
+09.6			43.42
No 8-12°C	S.E 16 & D Ct.G	56.00	52.87
0+63			42.81
No 9-8°C	S.W. 16 & D Ct.G	56.00	53.23
+10			50.49
+20			47.75
+30			45.00
+37.5 - Conduit.			42.95

27.437

55.89
4.83
60.72 1+1

17.77 / 42.95 — 4.84 / 55.88 / 50.49 / 5.39 — 5.31 / 55.41 / 45 / 10.41

55.89
4.73
60.62 1+1

17.20 / 43.42 — 17.80 / 42.82

55.89
4.71
60.60

53.23
7.37

55.89
4.59
60.48 1+1

56.00
4.48

Grades for Catch Basins

			bot pipe
No. 10 - 8"C	N.E 15th & E. Ct. G	50.00	47.23
No 11 - 8"C	N.W 15 & E Ct. G	50.00	47.23
No 12 - 10"C	N.E 15 & F Ct. G		40.06
No 13 - 12"C	N.W 15 & F Ct. G	43.00	39.87
No 14 - 12"C	N.E 15 & G . Ct. G		32.37
No 15 - 8"V	N.W 15 & G Ct. G		32.23

42.84
4.64
47.48 Hl.

43.00
4.48

4.43
43.05

35.56
3.14
38.70 Hl

34.50
4.20

35.56
3.50
39.06

3.65
35.41

35.50
3.56

Grades for Catch Basins bet pipe

No 16-8"C	S.W 15 & G. Ct.G	34.50	31.23
No 17-18"C	H St Arch		33.64
No 18-8"C	I St 14 & 15 Ct G	26.50	23.73

Grades for Catch Basins

No 19-8'C	N.E	147J	Ch.G.	21.00	18.23
No 20-8'C	N.W	147J	Ch.G	23.00	20.23
No 21-12'C	N.E	147K	Ch.G	14.00	10.87
No 22-10'C	N.E	147L	Ch.G.	9.50	6.56
No 23-10'V	N.E	147M	Ch.G	7.00	4.06
No 24-10'V	N.W.	147M	Ch.G	7.00	3.56

6.925 7.00 5.27 5.18
409 4.02 .402 .594
11.02 1.25

Grades for Catch Basins bot pipe

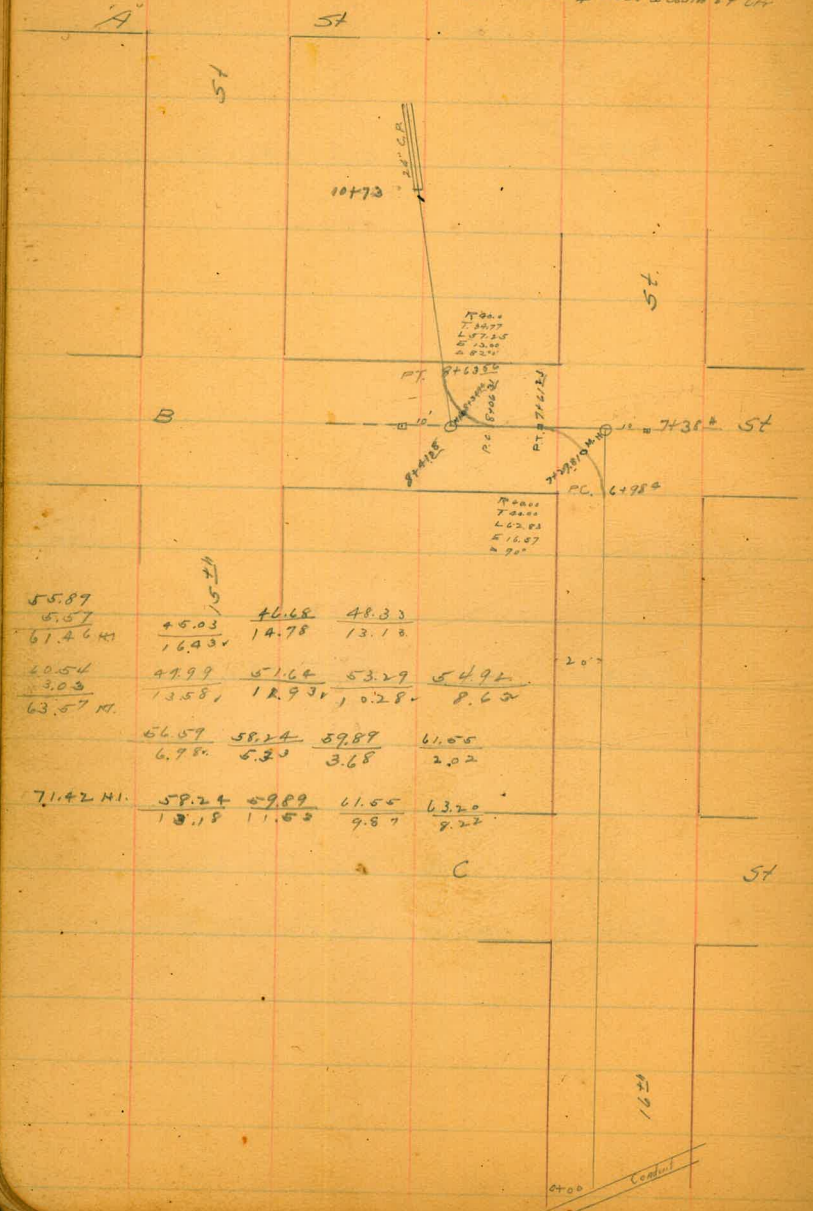
No 26 12"C	N.W 13 & M Ct G	3.00	-0.13
No 25 18"C	N.E 13 & M Ct G	3.00	12" -0.63 18" -1.16
2+58.5			-3.75 at Conduit (+4.75) old grade
No 27 8"C	N.E 13 & N Ct G	2.50	-0.27
No 28 8"C	E.Ct 13 at RL Ct G	2.00	-0.77
No 29 8"C	W Ct 13th at RL Ct G	2.00	-0.77

3.00 BM N.E 13 & M 5.7
4.53 3.00
7.53 H 4.53

3.00 -3.75 7.03 5
4.40 0.37
7.40 H 11.15 3.75
4.12

"A" St Storm Sewer

offset line van 4' West & South of Ctr



55.89
5.57
61.46 HI

45.03 / 16.43 — 46.68 / 14.78 — 48.33 / 13.13

60.54
3.03
63.57 HI.

47.99 / 13.58 — 51.64 / 12.93 — 53.29 / 10.28 — 54.92 / 8.62

56.59 / 6.98 — 58.24 / 5.33 — 59.89 / 3.68 — 61.55 / 2.02

71.42 HI. — 58.24 / 13.18 — 59.89 / 11.53 — 61.55 / 9.87 — 63.20 / 8.22

Sta		Rod	Ground	Grade	Cut
	7.12	63.01		55.89 B.M. SW 16 & D.	
0+00 Connection with Conduit				42.24 ~~41.73~~	
+17				42.71	
+40				43.35	
+50				43.38	2.79%
1		6.57	56.44	45.03	11.41
+50		6.16	56.85	46.68	10.17
2		5.44	57.57	48.33	9.24
+50		4.67	58.34	49.99	8.35
3		4.00	59.01	51.64	7.37
+50		3.70	59.31	53.29	6.02
4		2.55	60.46	54.94	5.52
TP	11.89	72.43	2.47	60.54	
+50		10.84	61.59	56.59	5.00
5		9.18	63.25	58.24	5.01
+50		7.42	65.01	59.89	5.12
6		6.04	66.39	61.55	4.84
+50		4.34	68.09	63.20	4.89
		79.47			
PC+98.4		9.63	69.84	64.80	+5.04
7+05		9.65	69.82	65.01	4.81
+10		9.56	69.91	65.18	

3.3029%

Sta	Rod 79.47	Ground	Grade	Cut
7+15	9.46	70.01	65.35	
+20	9.36	70.10	65.51	
+25	8.81	70.66	65.68	
CC +29.81 = M.H	8.74	70.73	Top 70.35 } 65.83 }	+4.90
+35	8.43	71.04	66.01	
+40	8.21	71.26	66.17	
+45	8.14	71.33	66.34	
+50	8.21	71.26	66.50	
+55	8.20	71.27	66.67	
P.T. +61.23	8.30	71.17	66.87	4.30
P.8 +06.31 P.C	8.06	71.41	68.36	3.05
+10	8.15	71.32	68.48	
+15	7.47	72.00	68.65	
+20	7.28	72.19	68.81	
+25	7.15	72.32	68.98	
+30	6.95	72.52	69.14	
CC +34.24 M.H	6.71	72.76	Top 81.50 } 69.31 }	3.45
+40	6.52	72.95	69.47	
+45	6.38	73.09	69.64	

3.3029

8.74 79.47 70.73

70.73 BM
6.39
77.12 HI

68.36 / 8.76 | 69.31 / 7.81 | 70.25 / 6.87 | ~~71.22~~ / 6.80 | 68.48 / 8.64 | 68.65 / 8.47 | 68.81 / 8.31 | 68.98 / 8.14 | 69.14 / 7.98

69.47 / 7.65 | 69.64 / 7.48 | 69.80 / 7.32 | 69.97 / 7.15 | 70.12 / 6.99 | 66.17 / 10.25 | 64.80 / 12.32

70.73
6.9
~~71.42~~ HI

66.87 / 8.16 | 65.83 / 9.20 | 64.80 / 10.23 | 65.01 / 10.02 | 65.18 / 9.85 | 65.35 / 9.68 | 65.51 / 9.52 | 65.68 / 9.35

70.73
4.30
75.03 HI

66.50 / 8.53 | 66.67 / 8.36 | 66.34 / 8.69 | 66.17 / 8.86 | 66.01 / 9.02

70.73
4.49
75.22

70.35 / 4.87 | 2.26 / 72.96 | 81.50 / 72.96 / 8.54

Sta	Rod 79.47	Ground	Grade	Cut
8+50	6.11	73.36	69.80	
+55	6.04	73.42	69.97	
+60	5.98	73.49	70.13	
PT +63.56	5.84	73.63	70.25	+3.38
9	4.43	75.04	71.46	+3.58
+50	4.72	74.75	73.11	+1.64
10			74.76	
+10	2.55	76.92	75.09	+1.83
+50			76.41	
+73		79.89	77.19	

3.30 2/9

70.73 B.M.
9.44
80.17 H.I.

71.46 / 8.71 ✓ 73.11 / 7.06 ✓ 74.76 / 5.41 ✓ 76.41 / 3.76 ✓

Grades for Conduit

Sta	Grade	Deflections
P.C 26+00	29.88	
+05	29.82	0° 17' 10"
+10	29.77	0° 34' 20"
+15	29.71	0° 51' 30"
+20	29.66	1° 08' 45"
+25	29.60	1° 26'
+30	29.54	1° 43' 10"
+35	29.49	2° 0' 15"
+40	29.43	2° 17' 30"
+45	29.38	2° 34' 40"
+50	29.32	2° 51' 50"
+55	29.26	3° 09'
+60	29.21	3° 26' 10"
+65	29.15	3° 43' 20"
+70	29.10	4° 0' 30"
+75	29.04	4° 17' 45"
+80	28.98	4° 35'
		5° 0'
P.T. +87.27	28.90	
2.7	28.76	

R 500'
T 43.74
L. 87.27
Δ 10° 0'
Def 1° 0.52873

11.76

33.65 H.I. 28.90 / 4.75 | 29.88 / 3.77 | 29.82 / 3.83 | 29.77 / 3.88 | 29.71 / 3.94 | 29.66 / 3.99 | 29.60 / 4.05 | 29.54 / 4.11

29.49 / 4.16 | 29.43 / 4.22 | 29.38 / 4.27 | 29.32 / 4.33 | 29.26 / 4.39 | 29.21 / 4.44 | 29.15 / 4.50

29.10 / 4.55 | 29.04 / 4.61 | 28.98 / 4.67

+2.85
.118
+4.03 H.I.

35.88 / 8.15

P.C. 26+00	+10	+20	+30	+40
6.77	6.75	6.72	6.69	6.74
37.26	37.28	37.31	37.34	37.29
35.88	35.77	35.66	35.54	35.43
+1.38	+1.51	+1.75	+1.80	+1.86

+50	+55
7.31	7.67
36.72	36.36
35.32	35.26
+1.40	+1.10

Sta	Grade		
27+25	28.48		
P.C +42	28.29	Deflections.	6' B tack in bridge
+50	28.20	0° 27' 30"	
+55	28.15	0° 44' 40"	
+60	28.09	1° 02'	
+65	28.02	1° 19'	
+70	27.95	1° 36' 15"	R 500'
+75	27.88	1° 53' 30"	T 41.80
+80	27.81	2° 10' 40"	L 83.41
+85	27.74	2° 27' 45"	Δ 9° 33½'
+90	27.67	2° 45'	Defl^s .052873
+95	27.60	3° 02' 10"	
28	27.53	3° 19' 20"	
+05	27.46	3° 36' 30"	
+10	27.38	3° 53' 40"	
+15	27.31	4° 11'	
+20	27.24	4° 28'	
P.T. +25.41	27.17		tail in fence 6'
+50	26.82		

1.2%

1.40963%

42.845 BM 15+F
0.69
43.535 HI
11.42
32.115 TP
0.69
32.80 HI
4.905
27.900 TP
4.925
32.825 HI

28.29
5.36
33.65 HI

42.84
1.70
44.54 HI

28+25 41 PT
11.43
32.11
33.17 G

27.17	28.28	28.20	28.15	28.09	28.02	27.95
5.63	4.53	4.62	4.67½	4.73	4.80	4.87½

27.88	27.81	27.74	27.67	27.60	27.53	27.46	27.38
4.94	5.01	5.08	5.15	5.22	5.29	5.36	5.44

27.31	27.24	28.48
5.51	5.58	5.17

Sta	Grade		
28+75	26.47		
29	26.12		
+25	25.76		
+50	25.41		
+75	25.06		
30	24.71		
+25	24.35		
+50	24.00		
+75	23.65		
31	23.30		
+25	22.94		
M.H. Int. with 5.7' line Top G =	34.10		
P.C. +41.32	22.71	Deflections	Tack in wing wall 0.6'
+45	22.66	0° 48' 40"	
+50	22.59	1° 54' 45"	
+55	22.52	3° 0' 50"	
+60	22.45	4° 07'	
+65	22.38	5° 13'	
+70	22.31	6° 19' 10"	
+75	22.24	7° 25' 15"	

1.40963%

27.17
8.28
35.45
1.39
34.06 T.P.
5.50
39.56
3.97
35.59

26.82 / 8.63 ✓ — 26.47 / 8.98 ✓ — 26.12 / 9.33 ✓ — 25.76 / 9.69 ✓ — 25.41 / 10.04 ✓ — 25.06 / 10.39 ✓ — 24.71 / 10.74 ✓

24.35 / 11.10 — 24.00 / 11.45 ✓ — 23.65 — 23.30

29.11 14.1
4.82
24.29

35.562
0.065
35.627
9.85
25.777 T.P.
0.60
26.38 H.I.

22.71 / 12.92 — 20.93 / 14.70 — 20.93 / 5.45

27.00 H.I. — 22.45 / 4.55 ✓ — 22.52 / 4.48 — 22.59 / 4.41 — 22.66 / 4.34 — 22.31 / 4.69

26.70 H.I. — 22.38 / 4.32 — 22.31 / 4.39 — 22.24 / 4.46 ✓ — 22.71 / 3.84

35.56
3.37
38.93 H.I.

4.99 / 33.94 — 34.10 / 33.94 / 0.16

35.56
1.02
36.58 H.I.
13.87
22.71 T.P.
4.32
27.04 H.I.

22.71 / 13.87

22.94 / 4.10 — 23.30 / 5.74

35.56
0.66
36.22 H.I.
7.27
28.95

34.10
28.95
5.15

Sta	Grade	Deflections	
31+80	22.17	8° 31' 20"	
+85	22.10	9° 37' 30"	
+90	22.03	10° 43' 40"	
+95	21.96	11° 49' 45"	
32	21.89	12° 55' 50"	R 130'
+05	21.82	14° 02'	T 68.73
+10	21.74	15° 08'	L 126.45
+15	21.67	16° 14' 10"	Δ 55° 44'
+20	21.60	17° 20' 15"	Defl: .22036
+25	21.53	18° 26' 20"	
+30	21.46	19° 32' 30"	
+35	21.39	20° 38' 30"	
+40	21.32	21° 44' 40"	
+45	21.25	22° 50' 50"	
+50	21.18	23° 57'	
+55	21.11	25° 03'	
+60	21.04	26° 09' 10"	
P.T +67.77	20.93	27° 52'	

1.40963%

Nail in [illegible]

25.78
92
26.70 H.T.

20.93	21.04	21.11	21.18	21.25	21.32	21.39
5.77	5.66	5.59	5.52	5.45	5.38	5.31

22.17	22.10	22.03	21.96	21.89	21.82	21.74
4.53	4.60	4.67	4.74	4.81	4.88	5.26

22.37
4.63
27.00 H.T.

21.67	21.60	21.53	21.46	21.39
5.33	5.40	5.47	5.54	5.61

Sta	Grade		
P.C 32+95 56	20.54	Deflections	= 10' Nail in fence
33	20.48	0° 50' 50"	
+05	20.41	1° 48' 10"	
+10	20.34	2° 45' 30"	
+15	20.27	3° 42' 45"	
+20	20.19	4° 40'	R 150'
+25	20.12	5° 37' 20"	T 60.93
+30	20.05	6° 34' 40"	L 115.76
+35	19.98	7° 32'	Δ 44° 13'
+40	19.91	8° 29' 15"	
+45	19.84	9° 26' 40"	
+50	19.77	10° 23' 50"	
+55	19.70	11° 21' 10"	
+60	19.63	12° 18' 30"	
+65	19.56	13° 15' 45"	
+70	19.49	14° 13'	
+75	19.42	15° 10' 20"	
+80	19.35	16° 07' 40"	
+85	19.28	17° 05'	

1.40963

20.93
401
24.94 H.I.

20.54
4.40

18.91
6.03

32.95 56
67.77
27.79

20.54
414
24.68 H.I.

18.91
5.77

20.54
4.49
25.03 H.I.
5.40
19.63 T.P.
5.50
25.13 H.I.

20.48 4.55 | 20.41 4.62 | 20.34 4.69 | 20.27 4.76 | 20.19 4.84 | 20.12 4.91 | 20.05 4.98

19.28 5.75 | 19.35 5.68 | 19.42 5.61 | 19.49 5.54 | 19.56 5.47 | 19.63 5.40 | 19.70 5.33

19.77 5.36 | 19.84 5.29 | 19.91 5.22 | 19.98 5.15 | 20.05 5.08

11.62

Sta	Grade		
33+90	19.21	18° 02' 15"	
+95	19.14	18° 59' 30"	
34	19.07	19° 56' 50"	
+05	19.00	20° 54'	
P.T +11.32	18.91	22° 06' 30"	▫ 6' . 15' ▫
+25	18.71		
+50	18.36		
+75	18.01		
35	17.66		
+25	17.30		
+50	16.95		
+75	16.60		
36	16.25		
P.C +14.06	16.05	Deflections	Nail in brace post. ▫ 14' ▫ 6' . 15' ▫
+20	15.97	0° 20' 30"	

1.40963%

24.68 | 19.00 / 5.68 | 19.07 / 5.61 | 19.14 / 5.54 | 19.21 / 5.47 | 19.28 / 5.40

19.00
4.09
23.18 H.T.

18.71 / 4.39 | 18.36 / 4.74 | 18.01 / 5.09 | 17.66 / 5.44 | 17.30 / 5.80 | 16.70 / 6.40

2.7
3.7

16.95 / 6.15 | 79 / 15 / 64 | 79 / 22.31 - Pipe stake

25.48
6.41
31.89 H.T.
11.41
20.48 T.P.
5.37
25.85
10.55
15.30 T.P.

15.30 / 10.55

16.05
11.62
27.67
22.31
5.36

4.82
3.15
1.67

Sta	Grade	Deflections	
36+25	15.90	0°37'30"	R 500'
+30	15.82	0°54'45"	T. 26.56
+35	15.75	1°12'	E 0.70
+40	15.68	1°29'10"	L. 53.09
+45	15.61	1°46'20"	Δ 6.05
+50	15.54	2°03'30"	Def 1'.057283
+55	15.47	2°20'40"	
+60	15.40	2°37'50"	
P.T. +67 15	15.30	3°02'30"	took in stable 6' 18'
37	14.84		
+25	14.49		
+50	14.13		
+75	13.78		
38	13.43		
+25	13.08		
+50	12.72		
+75	12.37		
39	12.02		
+25	11.67		

1.40963%

Raised

15.30 T.P.
3.78
19.08 H.I.

12.37
6.71

15.30
4.16
19.46 H.I.

16.05 / 3.41 | 15.97 / 3.49 | 15.90 / 3.56 | 15.83 / 3.64 | 15.75 / 3.71 | 15.68 / 3.78 | 15.61 / 3.85

15.54 / 3.92 | 15.47 / 3.99 | 15.40 / 4.06

17.32 BM
4.15
21.47 H.I.

10.15 / 11.32 | 10.61 / 10.86 | 10.96 / 10.51 | 11.31 / 10.16 | 11.67 | 12.02

Sta	Grade		
39+50	11.31		
+75	10.96		
39+87.69 M.H. Top Grade =	29.25		
40 +00	10.61		
P.C+32.60	10.15	Deflections	6' - 20'
+40	10.05	1° 03' 40"	
+45	9.98	1° 46' 30"	
+50	9.90	2° 29' 30"	
+55	9.83	3° 12' 30"	
+60	9.76	3° 55' 30"	
+65	9.69	4° 38' 30"	
+70	9.62	5° 21' 30"	
+75	9.55	6° 04' 30"	
+80	9.48	6° 47' 20"	R 200'
+85	9.41 ✓	7° 30' 20"	T. 53.59
+90	9.34	8° 13' 20"	E 7.05
	9.27	8° 56' 20"	L 104.72
	9.20	9° 39' 15"	△ 30°
39	9.13	10° 22' 15"	Defl: 0.14324
+25	06	11° 05' 10"	

1.40963%

20.56 H.I. 10.15 / 10.41 10.05 / 10.51 9.98 / 10.58 9.90 / 10.66 9.83 / 10.73 9.76 / 10.80 9.69 / 10.87

9.62 / 10.94 9.55 / 11.01 9.48 / 11.08

Sta	Grade	Deflections	
41+15	8.99	11°48' 10"	
+20	8.92	12°31' 10"	
+25	8.85	13°14' 10"	
+30	8.77	13°57' 10"	
P.T. +37 32	8.67	15°00'	15' 10' 15'
+50	8.50		
P.C +81 18	8.06	Deflection	10' 10' 20'
+85	8.00	0°32' 50"	
+90	7.93	1°15' 50'	
+95	7.86	1°58' 45"	
42	7.79	2°41' 45"	
+05	7.72	3°24' 40"	
+10	7.65	4°07' 40"	
+15	7.58	4°50' 40"	
+20	7.51	5°33' 40"	
+25	7.44	6°16' 40"	
+30	7.37	6°59' 40"	
+35	7.30	7°42' 30"	
+40	7.23	8°25' 30"	

1.409637

81.18
37.32
43.86

17.32
3.24
20.56 HI

8.67 / 11.89 — 9.41 / 11.15 — 9.34 / 11.22 — 9.27 / 11.29 — 9.20 / 11.36 — 9.13 / 11.43 — 9.06 / 11.50

8.99 / 11.57 — 8.92 / 11.64 — 8.85 / 11.71 — 8.77 / 11.79 — 8.06 / 12.50 — 10.15 / 10.41

17.32
2.926
20.246
12.18
8.066 TP
3.794
11.86 HI
5.055
6.805 TP
4.74
11.55 HI

8.00 / 3.86 — 7.93 / 3.93 — 7.86 / 4.00 — 7.79 / 4.07 — 7.72 / 4.14 — 7.65 / 4.21 — 7.58 / 4.28 — 7.51 / 4.35

7.44 / 4.11 — 7.30 / 4.25 — 7.23 / 4.32 — 7.37 / 4.18

81.18
37.32
43.86

6.805
4.70
11.51 HI.

Sta	Grade	Deflections	
12+45	7.16	9°08'30"	
+50	7.09	9°51'30"	
+55	7.02	10°34'30"	
+60	6.94	11°17'30"	
+65	6.87	12°0'30"	
+70	6.80 X	12°43'20"	
1+75	6.73	13°26'20"	
+80	6.66	14°09'20"	R 200'
+85	6.59	14°52'20"	T 89.10
+90	6.52	15°35'15"	E 18.69
+95	6.45	16°18'15"	L 167.64
+3	6.38	17°01'10"	Δ 48°01½'
+05	6.31	17°44'10"	Def 1° 0.1434
+10	6.24	18°27'10"	
+15	6.17	19°10'10"	
+20	6.10	19°53'10"	
+25	6.03	20°36'	
+30	5.96	21°19'	
+35	5.89	22°02'	

1.40962

11.55 H.I. 7.16/4.39 7.09/4.46 7.02/4.53 6.94/4.61 6.87/4.68

5.82/5.73 5.89/5.66 5.96/5.59 6.03/5.52 6.10/5.45 6.17/5.38 6.24/5.31 6.31/5.24 6.38/5.17

6.45/5.10 6.52/5.03

11.68 H.I. 6.59/5.09 6.66/5.02 6.73/4.95

11.51 H.I. 5.82/5.69 5.89/5.62 5.96/5.55 6.03/5.48 6.10/5.41 6.17/5.34 6.24/5.27 6.31/5.20

6.38/5.13 6.45/5.59 6.52/5.52 6.59/5.45 6.66/5.38 6.73/5.31 6.80/5.24

6.805
5.736
12.04 H.I.

6.87/5.17

Sta	Grade	Deflections
43+40	5.82 ✓	22°45'
P.T. +48.82	5.69 ✓	24°0'45" 3 tack in stop ⊠ 14 ⊠ 10'
+75	5.32 ✓	
44	4.97 ✓	
+25	4.62 ✓	
+50	4.27 ✓	
+75	3.91 ✓	
45	3.56 ✓	
+25	3.21 ✓	
+50	2.86 ✓	
+66.22 M.H Top grade	17.65 − 9.0	
+75	2.50 ✓	
46	2.15 ✓	
+25	1.80 ✓	
+50	1.45 ✓	
+75	1.09 ✓	
47	0.74 ✓	<10
+25	0.39 ✓	
+50	0.04 ✓	10 >
+75	−0.31 ✓	

1.40963%

25
140

75.00
48.82
26.18

17.32 BM
2.955
20.275 HI.
8.545
11.73 TP
2.21
13.94 HI.

5.82 / 8.12 — 5.69 / 8.25 ✓ — 5.32 / 8.62 ✓ — 4.97 / 8.97 ✓ — 4.62 / 9.32 ✓ — 4.27 / 9.67 ✓

3.91 / 5.38 / 4.66 / 1.35 / 7.22 — 3.56 / 5.01 ✓ — 3.21 / 5.36 ✓ — 2.86 / 5.71 ✓ — −0.10 — .0141 / .1269 — 17.65 / 8.63 / 9.02

5.02
4.27
9.29 HI.
13.926
1.968
15.894 HI.
11.912
3.982 TP
4.589
8.571 HI.
2.86
3.42
6.28 HI.

2.50 / 3.78 — 2.15 / 4.13 — 1.80 / 4.48 — 1.09 / 5.19 ✓ — 0.74 / 5.54 ✓ — 0.39 / 5.89 ✓

13.926
1.584
15.510 HI.
11.840
3.670 TP
3.85
7.52 HI.

0.39 / 7.13 — 0.04 / 7.48 ✓ — −0.31 / 7.83

Sta	Grade
48	-0.67 ✓
+15 29	-0.88 = Break. ✓
+50	-1.13 ✓
+75	-1.30 ✓
49	-1.48 ✓
+25	-1.66 ✓
+50	-1.84 ✓
+75	-2.01 ✓
50	-2.19 ✓
+25	-2.37 ✓
+50	-2.55 ✓
+75	-2.72 ✓
51	-2.90 ✓
M.H. +15 08	Top grade 9.50 · No. of lines 6.5
+25	-3.08 ✓
+ 42 08 = L St Sewer	-3.20
+ 65 29 No end funnel	-3.36 = bottom outside pipe
break	-2.86 ✓ " inside "
+90 29 - So end funnel	-2.965 ✓

0.7099 %

.07099
.01419

10.783
10.688
.095

7.463
0.365
7.828 HI.

-2.860
10.688 ✓

-2.965
10.793 ✓

4815
47.25
.90.29

7.52 HI.
8.18
-0.66
3.53
2.87 HI

-0.67
8.19 ✓

-0.88
8.40 ✓

-1.13
8.65 ✓

-1.30
8.82

-1.48
9.00

-2.86
10.38

-3.08
5.95 ✓

-2.90
5.77 ✓

-2.72
5.59 ✓

-2.55
5.42 ✓

-2.37
5.24 ✓

-2.19
5.06 ✓

-2.01
4.88

-1.84
4.71 ✓

-1.66
4.53

-1.48
4.35

.0071

-3.01
+3.00
6.50

61 to

	Grade		
52+00	-3.006		
+25	-3.111 ✓		
+50	-3.216 ✓		
+75	-3.321 ✓		
53	-3.426 ✓		
+25	-3.531 ✓		
+50	-3.636 ✓		
+75	-3.741 ✓		
54	-3.846 ✓		
P.C. +15.88	-3.913	Deflections	
+20	-3.930	1° 10' 50"	
+25	-3.951	2° 36' 45"	R 100'
+30	-3.972	4° 02' 40"	T 35.41
+35	-3.993	5° 28' 40"	L 68.07
+40	-4.014	6° 54' 40"	E 6.08
			Δ 39° 0'
			D' 0.28647

10' = 10' ⊥

P.I.

H.P. ⊥ N.L.M.

Wheelers Rd.

6.81
2.53
3.64

7.476
3.69
11.17 H.I.

4.12
1.71
2.41
2.00
3.20
7.65

4.12 = Top 18" Sewer in "L" St.

54.1588
.0088
53.7500

5.50
2.42
-3.08

113.45
72.51
40.94

7.32
1.75
5.57

8.38

4.12
1.75
2.37

2.37
3.20
5.57

6.29
4.04
2.25

.006
.105
2.12

2.12
2.5

2.37
5

6.92
4.26 = bell of 18" Sewer in "L" St.

35.41
37.1
72.51

371
35.41
72.51
13.45
85.96

971
25
3.471

Pipe is 5.9' N. of Ctr of "L" St.

3.195 H.I.

-3.930
7.125

-3.951
7.146

-3.972
7.167

-3.993
7.188

-4.014
7.209

Wheelers Bro. N.E. 140 L. k.R. spk. per

7.272

-3.93
3.948
.018 H.I.

-4.035
7.230

-4.056
7.251

4.210
.105
4.105

-3.846
3.864

-3.741
3.759

5350
5190
160

7.463
4.16
11.623 H.I.
7.385
4.235 T.P.
0.562
4.797 H.I.

-3.741
8.538

7.272
.416
11.432
7.388
4.044
0.562
4.606

-3.741
8.347

-3.636
8.242

5225
5190.29
3.471

4.210
-3.636
0.574 H.I.
7.463
3.865
11.328 H.I.
9.970
1.358 T.P.
3.671
5.029 H.I.

-3.531
4.105

-3.426
4.060

-3.426
8.455

-3.321
8.355

7.463
0.526
7.989 H.I.

-3.321
11.310

-3.216
11.205

-3.111
11.100

7.463
0.797
8.260 H.I.

-2.965
11.225

-3.111
11.371

Sta	Grade	Deflections
54+45	-4.035	8°20'30"
+50	-4.056	9°46'30"
+55	-4.077 ✓	11°12'30"
+60	-4.098 ✓	12°38'20"
+65	-4.119 ✓	14°04'20"
+70	-4.140 ✓	15°30'15"
+75	-4.161 ✓	16°56'10"
+80	-4.182 ✓	18°22'10"
P.T. +83.95	-4.199 ✓	19°30'
55+00	-4.266	
+25	-4.371 ✓	
+50	-4.476 ✓	
+75	-4.581 ✓	
56	-4.686 ✓	
+25	-4.791 ✓	
+50	-4.896 ✓	
+75	-5.002 ✓	
57	-5.106 ✓	
+25	-5.212 ✓	

tack in house 10' 10' B

5575.00
5483.95
91.05

5550
5483.95
66.05
41

2.998 B.M. N.W. 13 & M.
3.210
6.208 H.I.

-5.106 / 11.314 — -5.212 / 11.420

2.998
2.955
5.953 H.I.

-5.002 / 10.955

2.998
3.705
6.703 H.I.

-5.002 / 11.705 — -4.896 / 11.599

2.998
7.07
10.068 H.I.
5.49
4.578 TP
2.575
7.153 H.I.

-4.896 / 12.049 — -4.791 / 11.944 ✓ — -4.686 / 11.839

2.998
6.175
9.173 H.I.
8.885
0.288 TP pipe
1.702
1.991 H.I.

-4.581 / 6.572 — -4.686 / 6.677

6.925 BM 14 & M.
0.27
7.195 H.I.
10.305
-3.110 TP
6.228
3.118 H.I.

-4.581 / 7.699 — -4.476 / 7.594 ✓ 1.5 high set. — -4.371 / 7.489 — 1.0' high

6.925
0.68
7.605 H.I.

-4.199 / 11.804 — -4.199 / 12.074 — -4.182 / 12.057 — -4.161 / 12.036 — -4.140 / 12.015

6.925
0.95
7.875 H.I.

-4.119 / 11.994 — -4.098 / 11.973 — -4.077 / 11.952

6.925 B.M.
3.22
10.145 H.I.
-11.597
-1.452 T.P.
4.647
3.195 H.I.

-4.077 / 7.272 — -3.913 / 7.108

Sta	Grade		
57+50	-5.317 ✓		
+75	-5.422 ✓		
58	-5.527 ✓		
+26.99 P.C	-5.640 ✓	Deflections	.10' .10'
+.35	-5.674 ✓	2° 17' 40"	
+40	-5.694 ✓	3° 43' 40"	
+45	-5.716 ✓	5° 09' 30"	
+50	-5.737 ✓	6° 35' 30"	
+55	-5.758 ✓	8° 01' 30"	R 100'
+60	-5.779 ✓	9° 27' 20"	T 35.41
+65	-5.800 ✓	10° 53' 20"	L 68.07
+70	-5.821 ✓	12° 19' 15"	E 6.08
+75	-5.842 ✓	13° 45' 15"	Δ 39° 0'
+80	-5.863 ✓	15° 11' 10"	
+85	-5.884 ✓	16° 37' 10"	
+90	-5.905 ✓	18° 03'	
+95.06 P.T.	-5.926 ✓	19° 30'	.15' .10'
59+25	-6.052 ✓		
+50	-6.157 ✓		

0.42015%

5.82
527
.55

58.2699
4560
57.8139 = 8.1[illegible]
-5.456
55
-490

2.156
2.820
4.976 H.I. — -6.157 / 11.133 — -6.052 / 11.028

2.156
3.13
5.286 H.I. — -5.926 / 11.212 — -6.052 / 11.238

2.156
3.11
5.266 H.I. — -5.640 / 10.906 — -5.674 / 10.940 — -5.694 / 10.960 — -5.716 / 10.982 — -5.737 / 11.003 — -5.758 / 11.024

-5.779 / 11.045 — -5.80 / 11.066 — -5.821 / 11.087 — -5.842 / 11.108 — -5.863 / 11.129 — -5.884 / 11.150 — -5.905 / 11.171

2.156
2.426
4.582 H.I. — -5.926 / 11.192 — -5.640 / 10.222 — -5.527 / 10.109

2.156
4.500
6.656 H.I. — -5.527 / 12.183 — -5.422 / 12.078 — -5.317 / 11.973 — -5.212 / 11.868

Sta	Grade
59+75	-6.262 ✓
+95	-6.346 ✓ Break
60	-6.353 ✓
+25	-6.388 ✓
+50	-6.423 ✓
+75	-6.458 ✓
61	-6.493 ✓
+25	-6.528 ✓
+50	-6.563
+75	-6.598 ✓
62	-6.633 ✓
+25	-6.668 ✓
+50	-6.703 ✓
+75	-6.739 ✓
+97	-6.769 ✓

0.14 %

Cop tack Ctr line

tack in ho. 23' 31' tack in bridge Bridge

62 75.00
61 97.91
77.09

62 50
61 97.91
52.09
27.09

2.149 - B.M. - Newton
1.597
3.746

-6.769 / 10.515 — -6.739 / 10.485 — -6.703 / 10.449

-6.668 / 10.414

7.671
374
-3.93 mid

2.149 BM
3.441
5.590 HI

-6.528 / 12.118 — -6.668 / 12.258 — -6.633 / 12.223 ✓

2.149
1.656
3.805 HI

-6.769 / 10.574 — -6.739 / 5.993 +.03 — -6.703 / 5.957 +.01 — -6.668 / 5.922 +.01 — -6.633 / 5.887

-6.769
6.023
-0.746 HI

-6.598 / 5.852 — 6.563 / 5.817

2.156 BM 3 N.
2.101
4.257 HI

-6.493 / 10.750 — -6.528 / 10.785 — -6.563 / 10.820 — -6.458 / 10.715 — -6.423 / 10.680

5975.00
5895.06
79.94

2.156
1.78
3.936 HI

-6.423 / 10.359 — -6.458 / 10.394 — 5.54 / 394 / -1.60 — -6.35 / -1.60 / -4.75

2.156
3.325
5.481 HI

-6.388 ✓ / 11.869 — -6.423 / 11.904

2.156
1.912
4.068 HI

-6.346 / 10.414 — 2.156 / 3.08 / 5.236 HI — -6.262 / 11.498 — -6.353 / 11.589

-6.262 / 11.238

2.156
2.820
4.976 HI

Survey of Test House

65 Description for Blk. 356 is erroneous and needs adjusting

Sept. 17/12

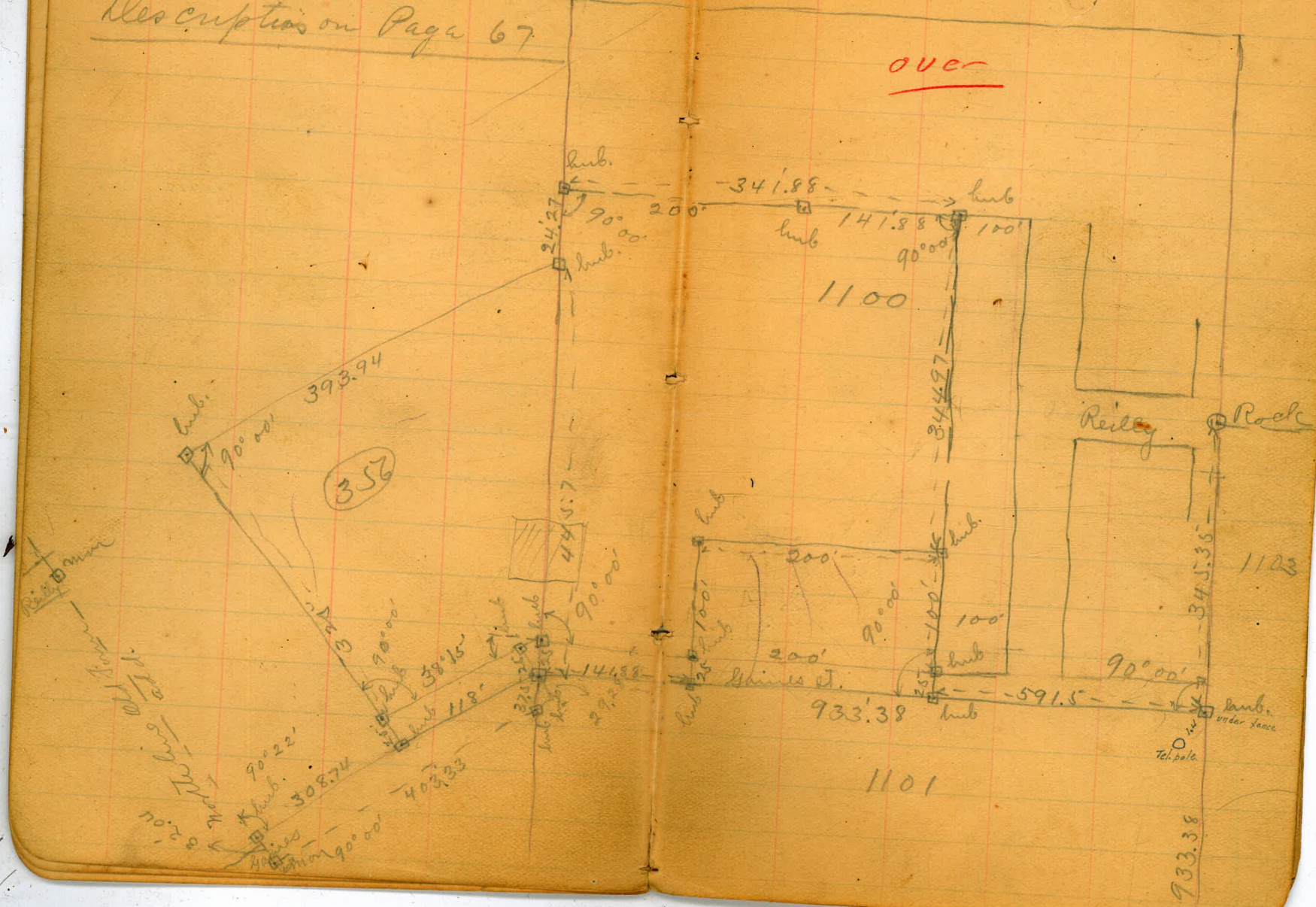
17/

Childs
Taylor
Otten

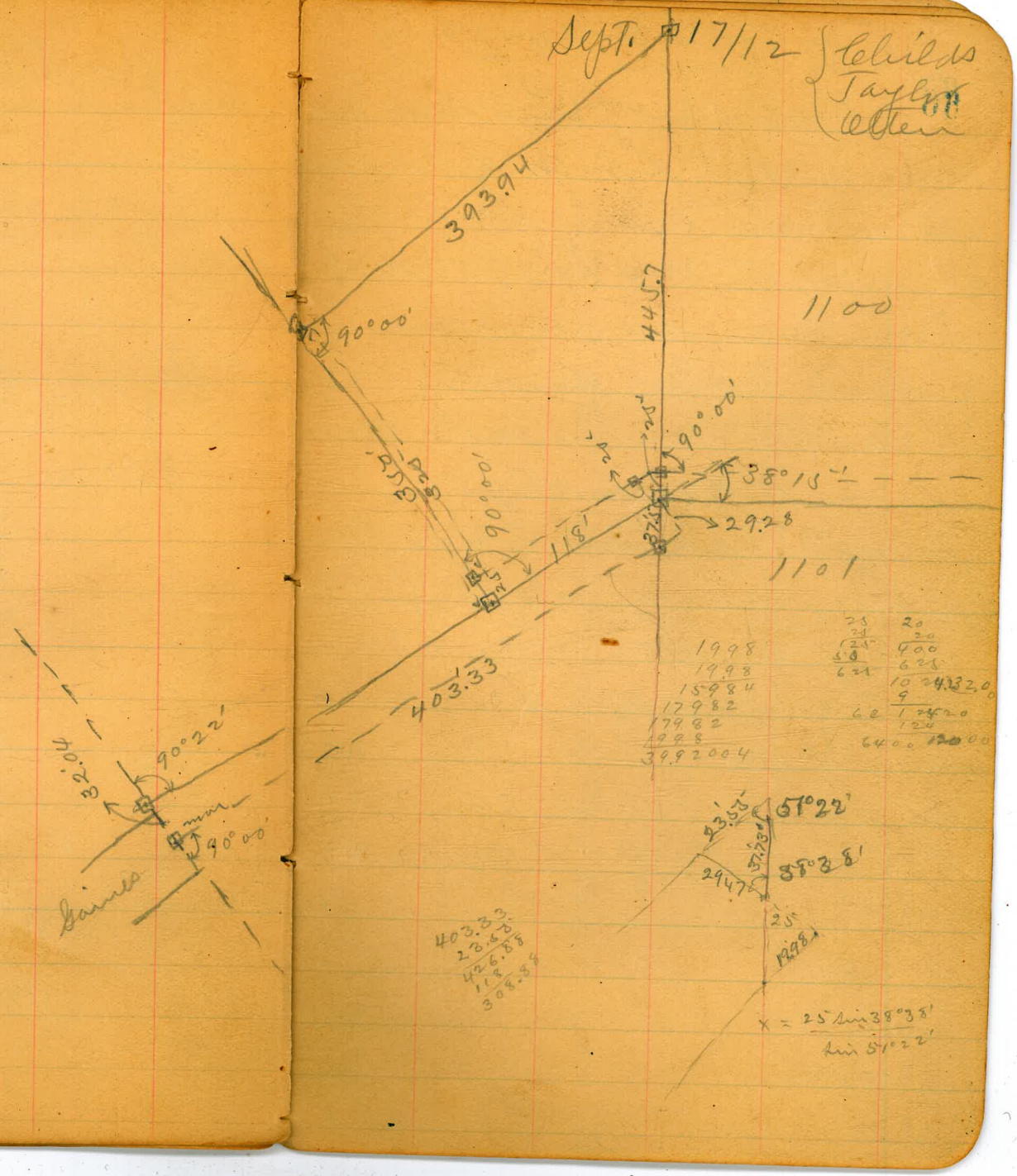
68

Description on Page 67

over



Sept. 17/12 { Childs
Taylor
Otten



1998
1998
15984
17982
17982
1998
39.92004

403.33
23.53
426.88
118
308.88

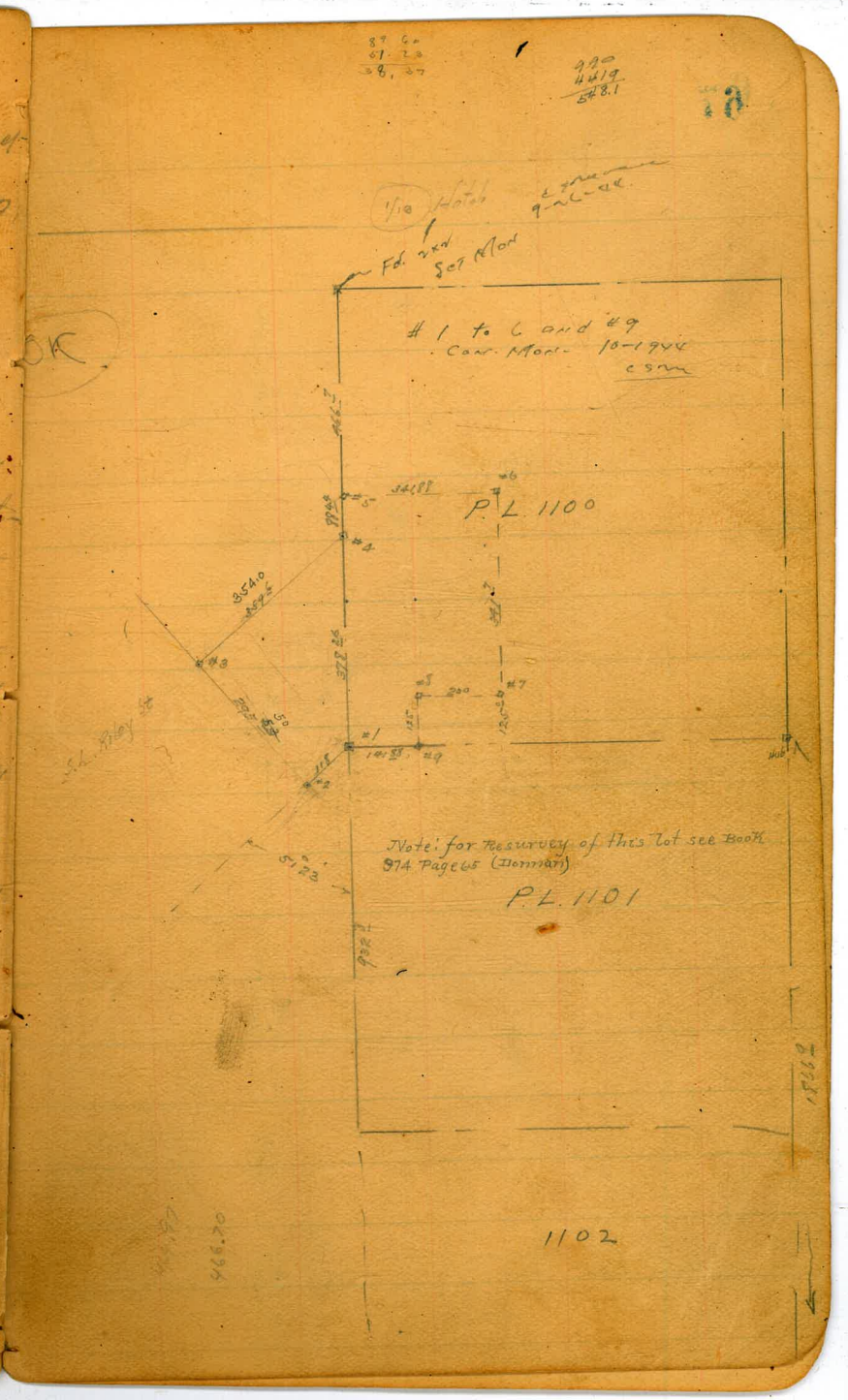
Probably copied from deed Lizzie T Nealley to Peter C Remondino. 441-432

67

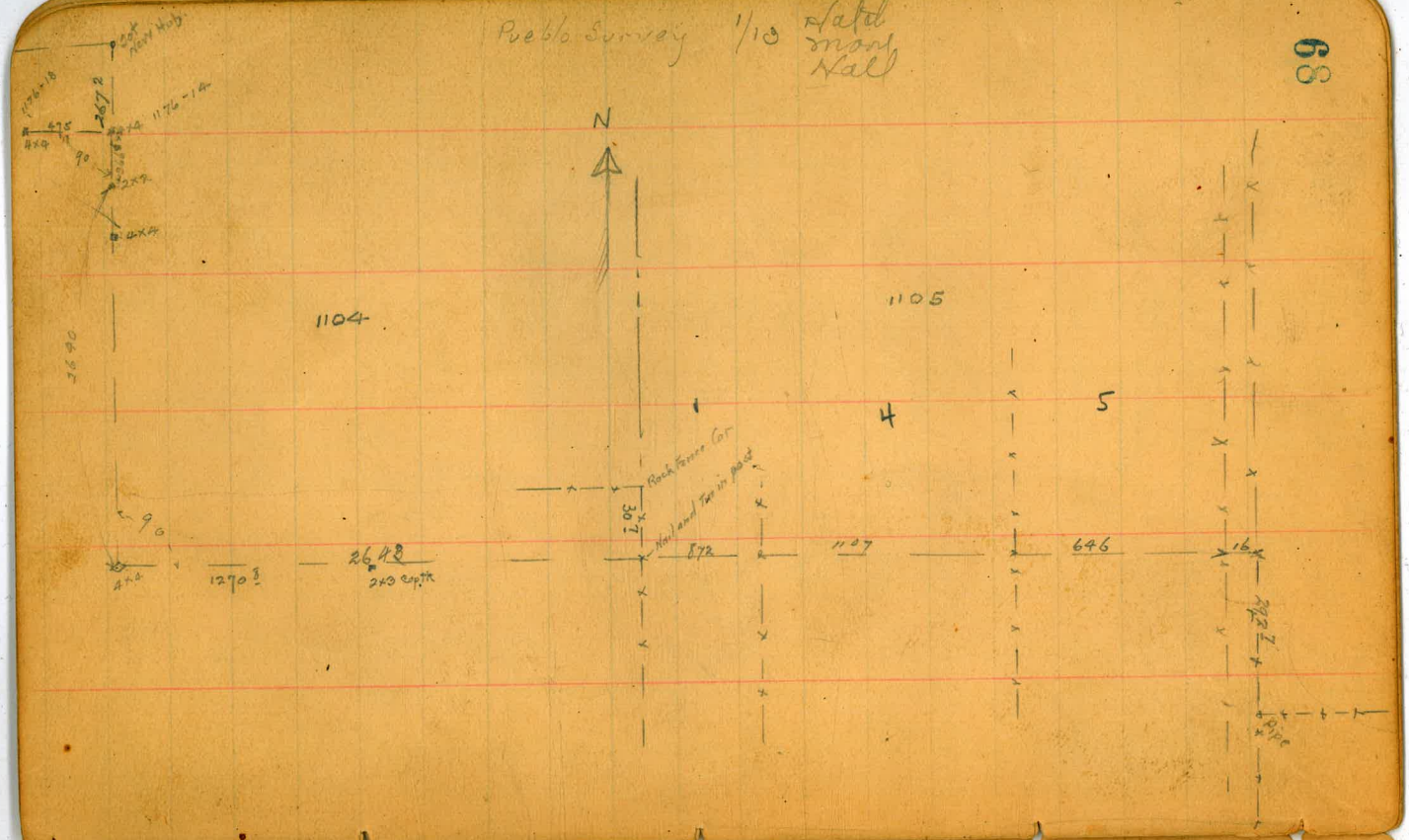
Description of Pest House Tract commencing at the S.W. Cor. of P.L. 1100 of the Pueblo Lands of San Diego, according the map thereof, made by James Pascoe; and running thence in a South Westerly direction (being in the same direction as the southerly line of Gaines St.) 118'; then at right angles Northerly 350' more or less to the northerly line of block 356 of Old San Diego, according to the official map thereof on file thence at right angles Easterly along the line of sd block 356, 380'; to the west line of P.L. No. 1100, then southerly along the line of sd P.L. 1100 450' to place of beg.

Also all of the S.W. 1/4 of P.L. 1100, Except Lots numbered from 10 to 23 inc. according to map by Davenport & Levet

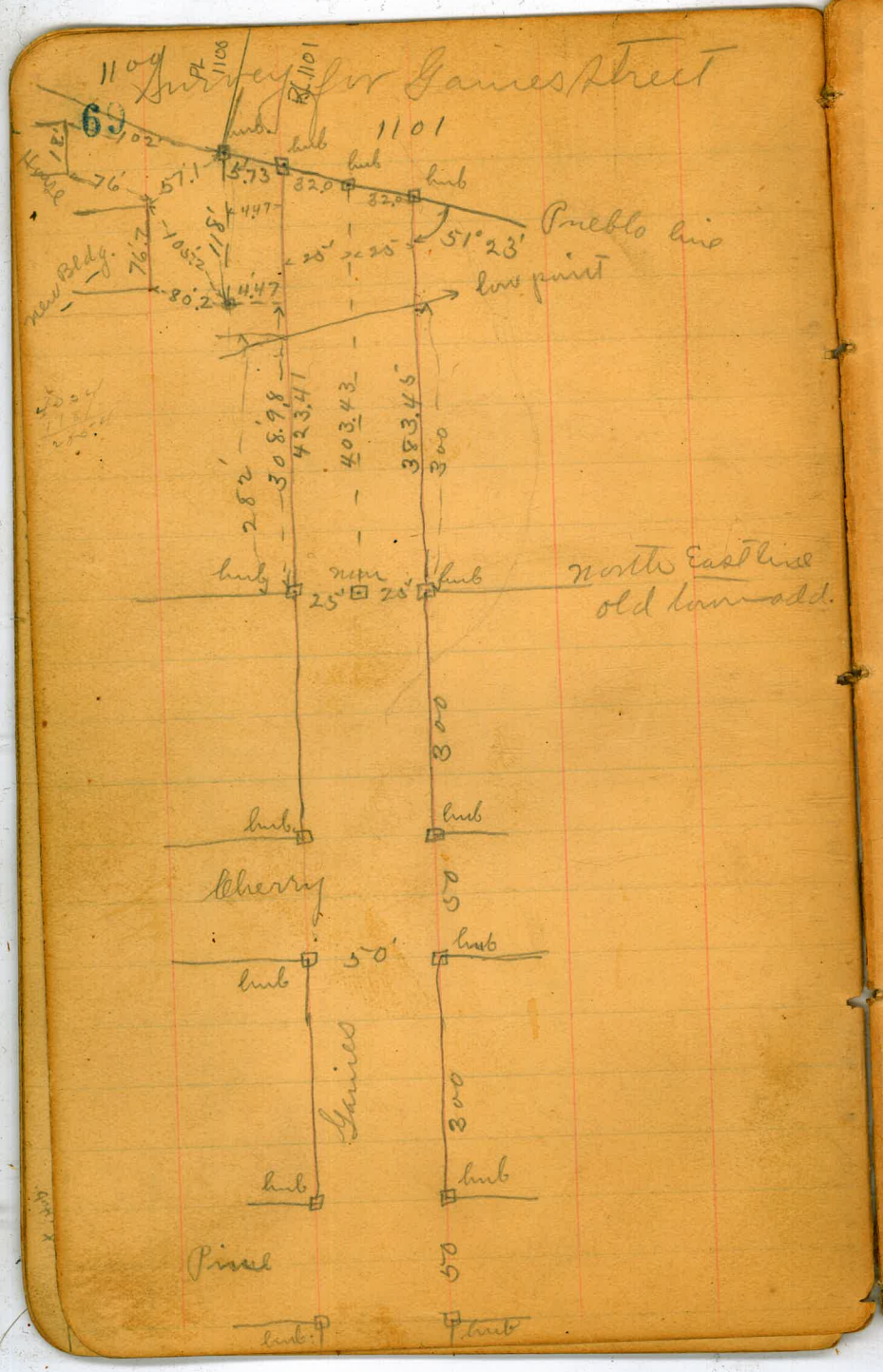
+50



Pueblo Survey 1/10 Hatch mon Hall

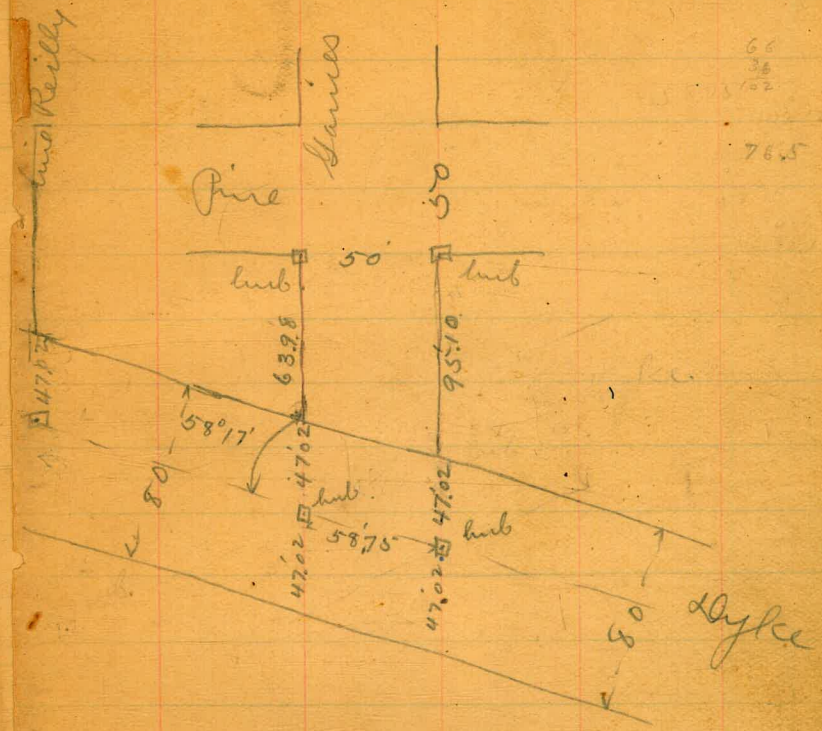


Survey for Gaines Street



Near Pest House

Feb. 24/15 { Childs, Otten, Kerr



66
36
102

76.5

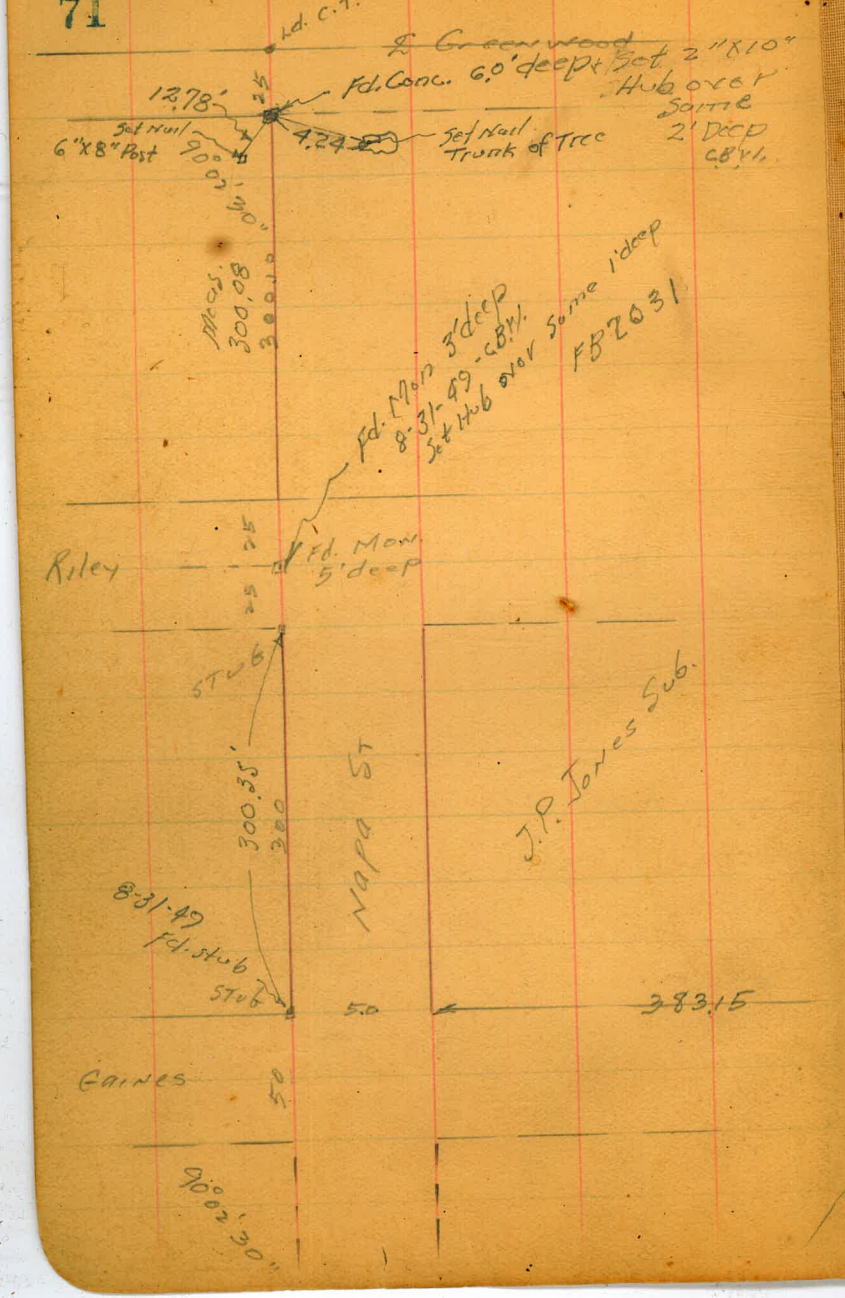
All Book 938 page 58

110	232
180	282
185	326
190	383.45

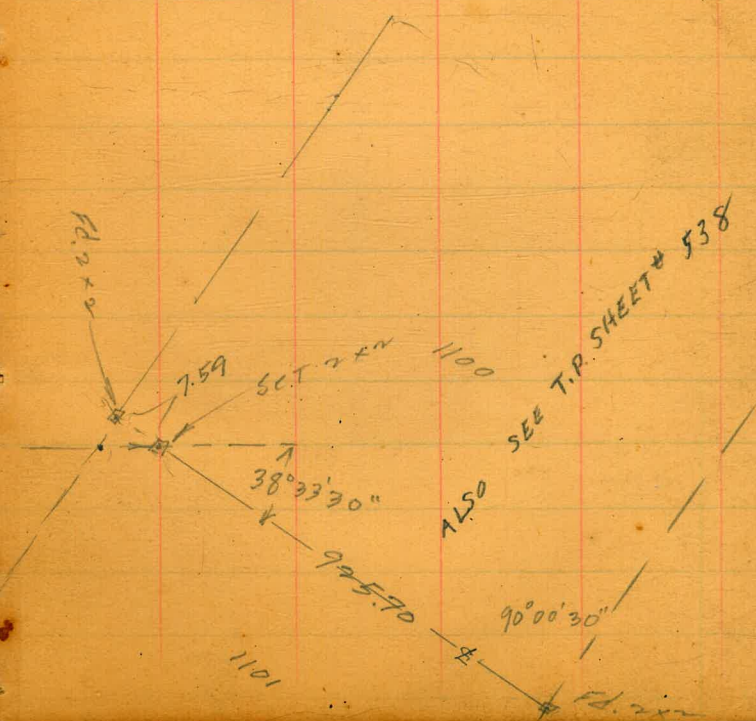
for x sections

Survey of J P Jones Sub. MOORE 4-14-41.

71

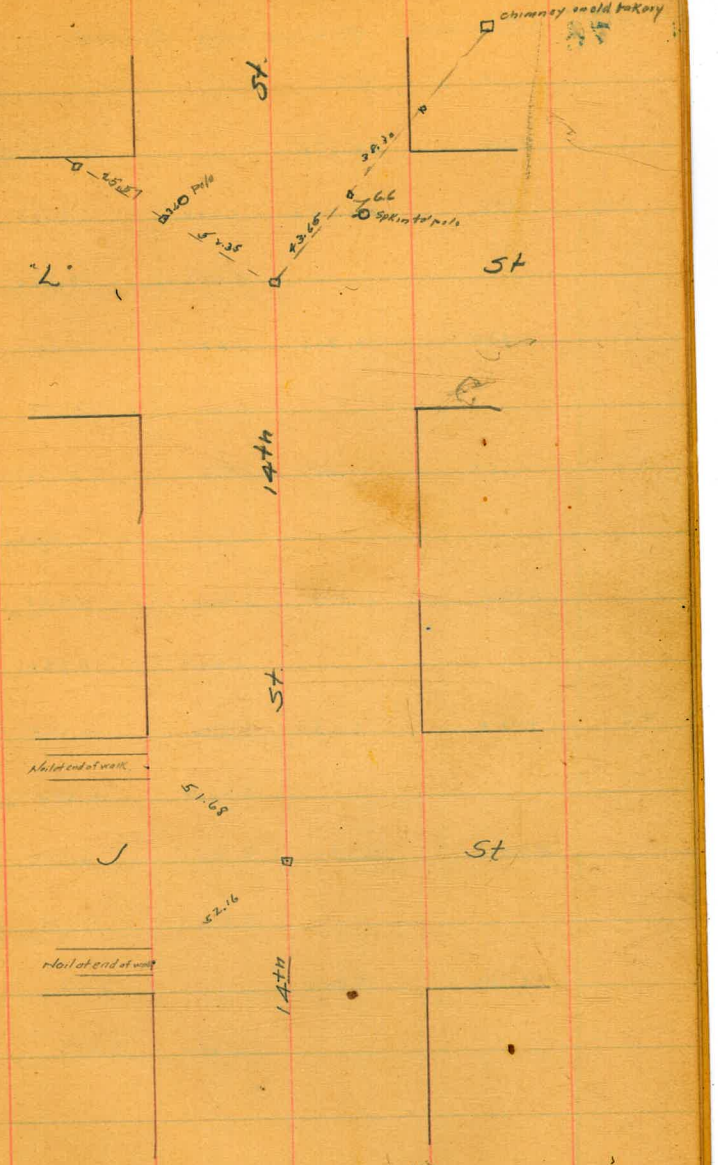


plotted on tie point sheets
C.S.K.



Misscelaneous BMS

0.815	56.707		55.892	BM 16 & D
1.185	46.907	10.985	45.722	Stake S. end D St B
BM N.W 159E		3.665	43.242	SpK pole
" " Marked Stone N.W 160E H!		0.815	46.092	
1.738	65.286		63.548	B.M. S.W 17 & D
1.650	55.034	11.902	53.384	
B.M. SpK fence 17th bet C & D.		7.189	47.845	
B.M. Brass plg N.W 17 & C.		0.154	54.880	
10.888	60.697	5.225	49.809	
B.M. Brass plug NE 18 & C		3.822	56.875	
3.000	62.936	0.761	59.936	
B.M. Stake 10' N.E. of N.W 19 & C.		6.132	56.804	
2.310	59.837	5.409	57.527	
B.M. SpK Pepper tree 19 & B		1.432	58.~~404~~ 323	
5.283	61.018	4.102	55.735	
1.951 B.M. stake city shed	62.669	0.3000	60.718 733	
B.M. SpK fence Park line		1.385	61.~~28~~ 31 4	



Miscellaneous Benches along Conduit.

	+	H.I.	−		
	4.79	30.272		25.482	B.M. N.W. 15
TP	1.825	24.462	6.635	23.637	
			8.142	17.320	B.M. Spk in
TP	0.685	16.926	9.221	16.241	
			3.000	13.926	B.M. brass plug
TP	1.260	11.376	6.810	10.116	B.M. Spk pole
			3.900	7.476	B.M. Spk in
	3.945	11.476	3.845	7.531	B.M. Spk in
			4.530	6.946	B.M. brass
TP	4.184	7.330	8.330	3.146	
			3.235	4.095	B.M. Spk pole
	4.900	7.070	5.160	2.170	B.M. Spk pole
			4.904	2.166	B.M. Spk pole
	4.786	7.932		3.146	
			4.390	3.542	

& G Brass plug.

tel pole 100' N. of J on 14th

N.W. 147K.

14th lot K & L.

pole N.E. 14th & L.

pole 14th Lot L & M.

plug N.E. 14 & N.

S.E. Nat'l & 13th

N.W. 13 & N

f Bridge 13th & Newton

	+	HI	−		
	4.57	30.052			25.482 BM
TP	1.773	25.410	6.415	23.637	
			8.090	17.320	B.M. Spk pole
TP	1.830	17.070	9.170	16.240	
			3.144	13.926	B.M. plg
TP	1.700	11.806	6.964	10.106	B.M. Spk pole
	4.360	11.823	4.343	7.463	B.M. Spk pole
	2.717	10.239	4.301	7.522	B.M. Spk pole
			3.314	6.925	B.M. Brass plg
TP	1.460	8.218	3.486	6.753	
	4.497	7.252	5.458	2.755	
			3.172	4.080	B.M. Spk pole
	5.116	7.272	5.096	2.156	B.M. Spk pole
			5.123	2.149	B.M. Spk in pole
	4.083	7.460	3.895	3.377	
TP	5.150	9.167	3.443	4.017	
	5.119	12.258	2.028	7.139	
	8.318	15.921	4.655	7.603	
	4.891	19.222	1.570	14.331	

N.W. 15 & I	4.592	22.099	1.715	19.507
	5.828	25.926	2.001	20.098
10' No of Jan 14th	6.680	27.236	5.370	20.556
			1.743	25.493
N.W. 14th & K				
14th bet K & L		2.998 BM plgt N.E 13 & M		
N.E 14 & L.				
14th bet L & M				
N.E 14 & M.				
S.E 13 & Nath.				
N.W 13 & N				
at Bridge 13 & Newton				

64

142.12
47.02
95.10

16 & D 55.892 S.W. Brass plug

17 & D 63.548 " " " "

16 & C 60.54 N.W " "

21 & C 113.815 N.W " "

15 & F 42.845 N.W " "

15 & G 35.562 N.E " "

15 & I 25.482 N.W " "

15 & J 21.957 N.W " "

4 & K 13.948 N.W " "

12 & M 3.528 N.E

16 & N 41.4.106 N.W Spk. pole

16 & C 60.541 N.W Brass plug

16 & B S.W 20.73 S.W Nail post

633.74
325.00
308.74
50.00
258.74
20.00
238.74

7452
3615
3837

380.00
238.74
141.26

Note Change in alignment of conduit makes present ~~line~~ 15.29' longer

4957
20.96

24.50

24.37

51+55.35 stain ctr track in "L" St

403.43
128.55
426.98
118
308.98

4.2

56.75
54.84
1.91
35
226.4

466.70
378.26
844.96
88.44
33.40