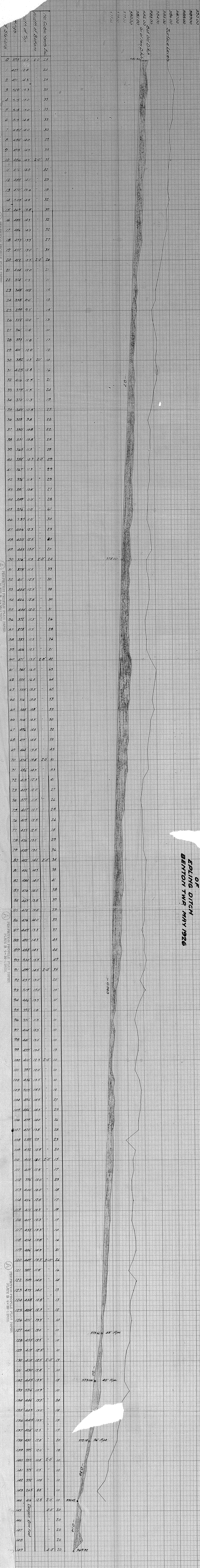


PROFILE
OF
EPLING DITCH
BENTON TWP. MAY 1926



(A) ERECTION PROFILE PLAIN PAPER
SCALE B 4x30-1 INCH

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Epling Ditch
Benton Twp. May 1926

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Stations	Width of Bottom	Width of Top	Height	No. Cubic Yards Exc.
0	395	120	2.0	25
1	429	128	"	20
2	491	143	"	25
3	528	153	"	35
4	515	150	"	35
5	518	120	"	35
6	513	148	"	35
7	482	140	"	30
8	482	140	"	29
9	498	145	"	35
10	486	143	2.0	35
11	476	140	"	32
12	489	140	"	29
13	478	136	"	19
14	505	148	"	32
15	469	138	"	39
16	485	143	"	32
17	484	143	"	32
18	453	133	"	27
19	437	130	"	35
20	422	125	2.0	26
21	404	120	"	21
22	374	113	"	11
23	348	108	"	15
24	358	110	"	13
25	299	9.5	"	15
26	322	100	"	13
27	361	110	"	10
28	393	118	"	17
29	401	120	"	12
30	382	115	2.0	10
31	425	128	"	16
32	416	125	"	21
33	379	115	"	24
34	370	113	"	19
35	349	108	"	25
36	309	98	"	22
37	350	108	"	22
38	351	108	"	25
39	365	115	"	29
40	354	103	2.0	29
41	367	113	"	29
42	376	115	"	29
43	351	108	"	27
44	399	110	"	28
45	354	110	"	61
46	357	110	"	30
47	406	123	"	23
48	420	125	"	20
49	443	130	"	20
50	376	115	2.0	24
51	375	115	"	33
52	411	123	"	30
53	424	125	"	38
54	424	128	"	30
55	400	120	"	31
56	371	113	"	26
57	378	115	"	28
58	383	115	"	26
59	404	123	"	21
60	471	138	2.0	48
61	540	160	"	63
62	555	160	"	64
63	535	155	"	65
64	514	150	"	53
65	548	158	"	53
66	504	145	"	50
67	494	145	"	52
68	477	140	"	53
69	444	135	"	45
70	474	138	2.0	51
71	484	143	"	53
72	413	123	"	41
73	403	120	"	27
74	377	115	"	26
75	407	123	"	28
76	419	125	"	26
77	423	125	"	19
78	436	130	"	29
79	438	130	"	36
80	482	140	2.0	34
81	486	143	"	38
82	484	140	"	41
83	476	140	"	38
84	487	138	"	39
85	478	138	"	33
86	476	140	"	33
87	448	133	"	37
88	420	143	"	45
89	438	143	"	44
90	530	158	"	49
91	499	145	2.0	35
92	437	130	"	20
93	519	150	"	15
94	444	133	"	10
95	502	118	"	10
96	371	113	"	10
97	414	123	"	10
98	441	130	"	10
99	439	130	"	13
100	410	123	2.0	10
101	397	120	"	10
102	456	135	"	10
103	503	145	"	12
104	496	145	"	27
105	484	143	"	25
106	479	140	"	26
107	470	138	"	28
108	288	23	"	23
109	432	128	"	20
110	408	120	2.0	15
111	419	125	"	17
112	396	120	"	23
113	400	120	"	18
114	424	128	"	17
115	413	123	"	19
116	407	123	"	17
117	452	133	"	10
118	474	138	"	16
119	484	143	"	21
120	449	133	2.0	24
121	387	118	"	16
122	509	148	"	14
123	475	140	"	13
124	428	128	"	13
125	424	125	"	12
126	451	133	"	10
127	441	130	"	10
128	455	135	"	10
129	419	125	"	10
130	418	125	2.0	13
131	430	128	"	10
132	445	133	"	18
133	536	139	"	10
134	444	133	"	24
135	443	130	"	18
136	445	133	"	15
137	424	125	"	13
138	430	128	"	20
139	395	120	"	18
140	353	108	2.0	10
141	375	113	"	10
142	352	108	"	10
143	265	88	"	10
144	416	128	2.0	10
145	Digging Ditch Foot		4.0	20
146				20
147				20
148				20
149				20

57400 48 Pipe

57300 48 Pipe

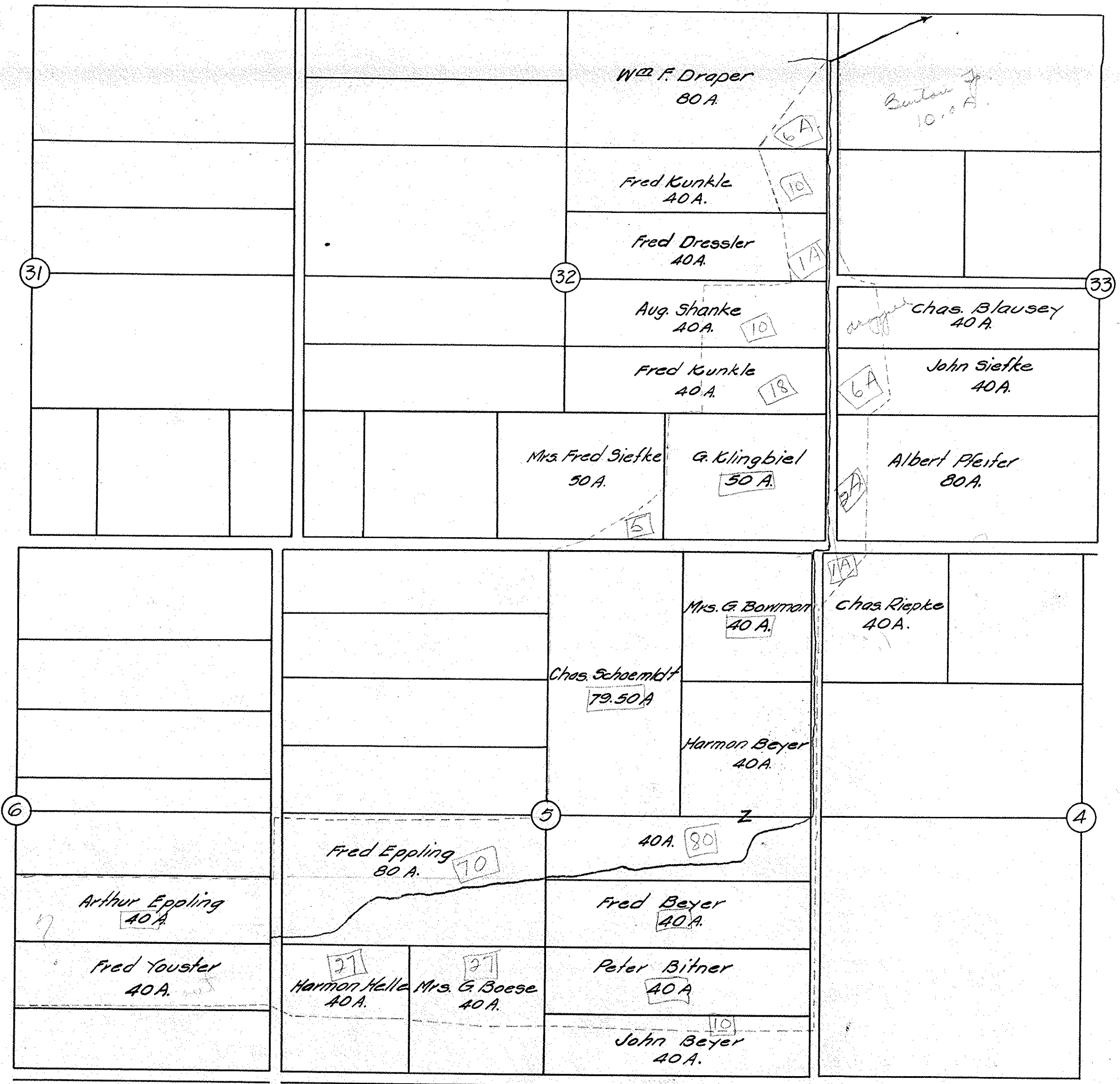
57210 36 Pipe

57000

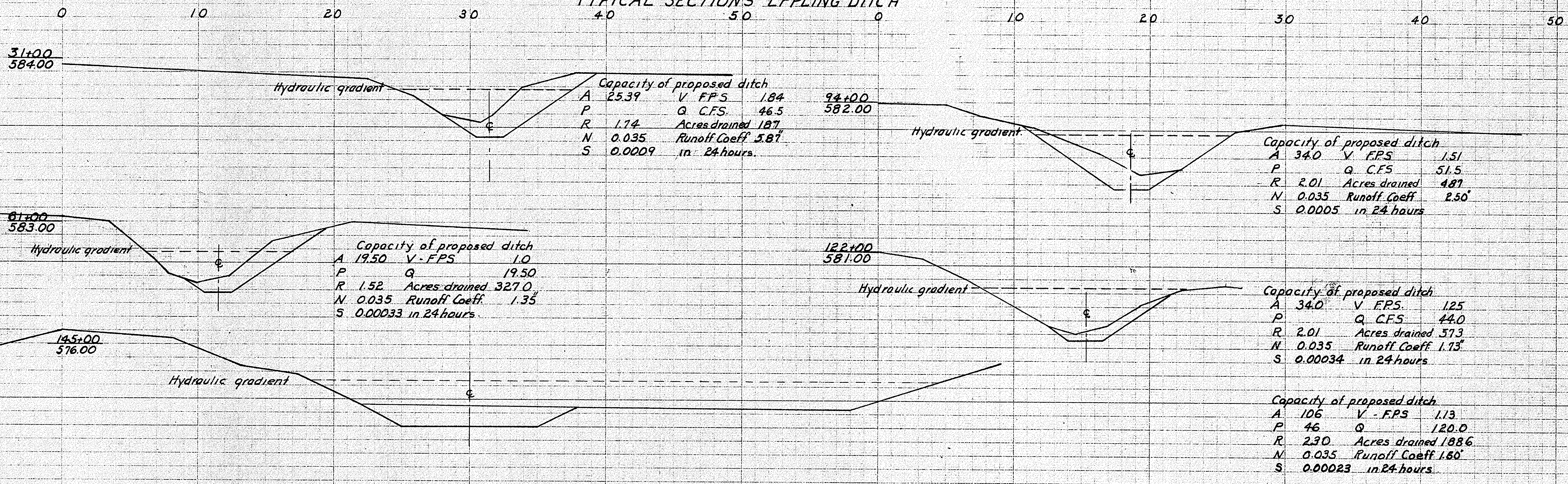
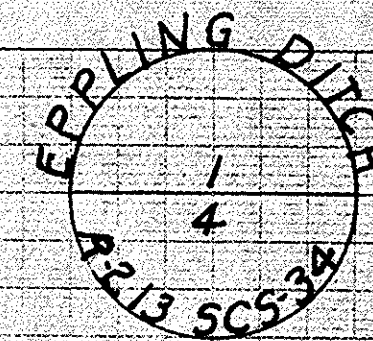
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EPPLING DITCH

BENTON TWP. MAY 1926



TYPICAL SECTIONS EPPLING DITCH



Cross section of Crane Creek 100 feet above Eppling Ditch
 Area Sq ft 185
 Wetted perimeter 63.8
 Hydraulic Radius 2.90

Cross section of Crane Creek 600 feet below Eppling Ditch
 Area Sq ft 152
 Wetted perimeter 47.8
 Hydraulic Radius 3.19

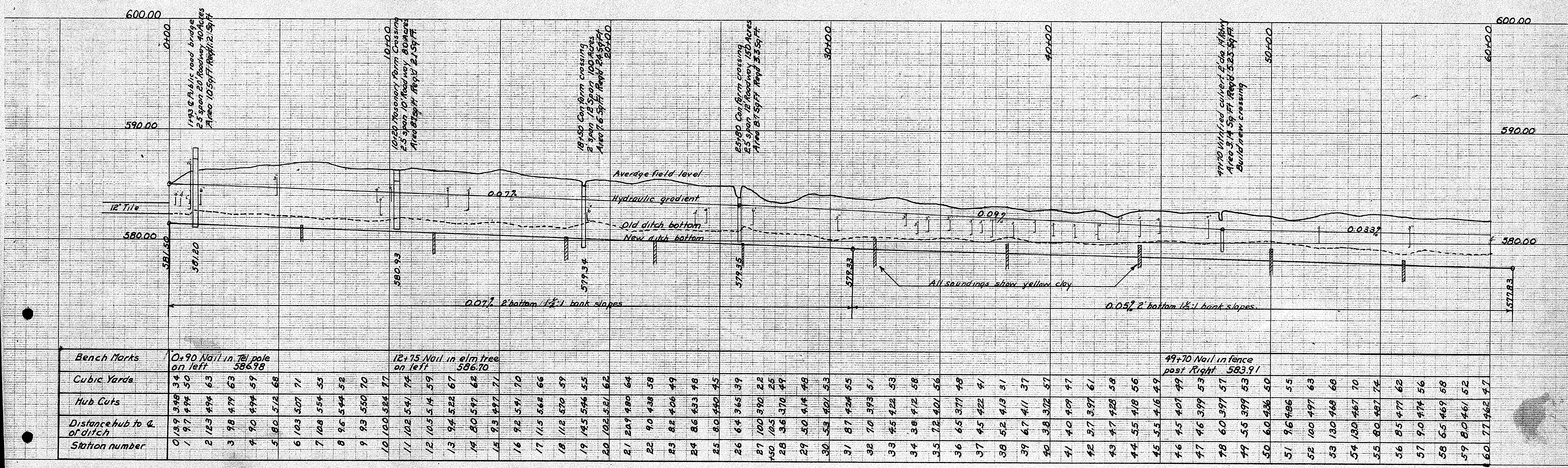
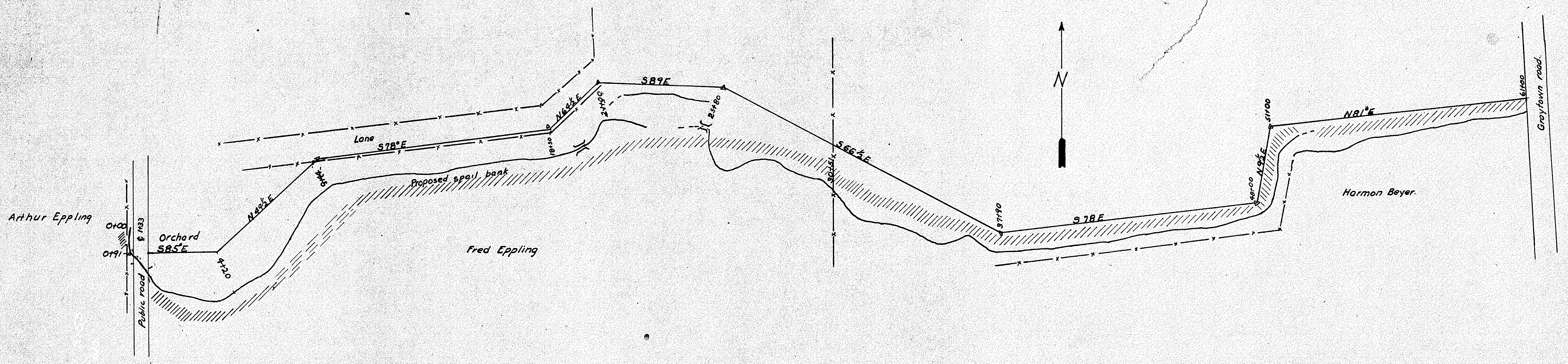
CAPACITY OF CRANE CREEK*

Area	168 Sq Ft	Slope	0.0001
Wetted perimeter	55.8 Ft	Velocity Ft per Sec.	1.03
Hydraulic radius	3.04	Capacity Cubic Feet per Sec.	173.00
N	0.30	Acres drained	24190
Runoff Coefficient 0.16 per 24 hours			

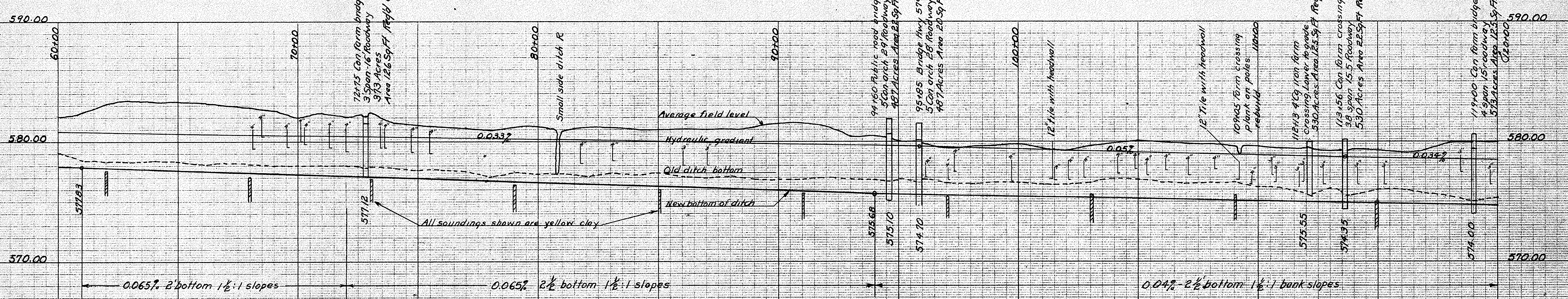
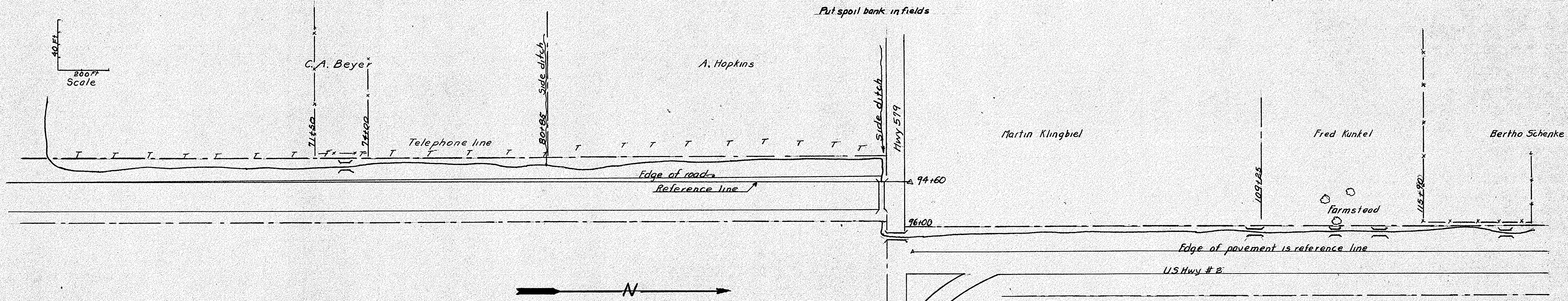
* Slope of 0.0001 is assumed. Data is a composite of two sections shown above. Crane Creek floods adjacent lowlands. The cleaning of this ditch will not affect the area of land flooded because the area drained by Crane Creek at the point this ditch enters is very large.

LEDGEND & QUANTITIES

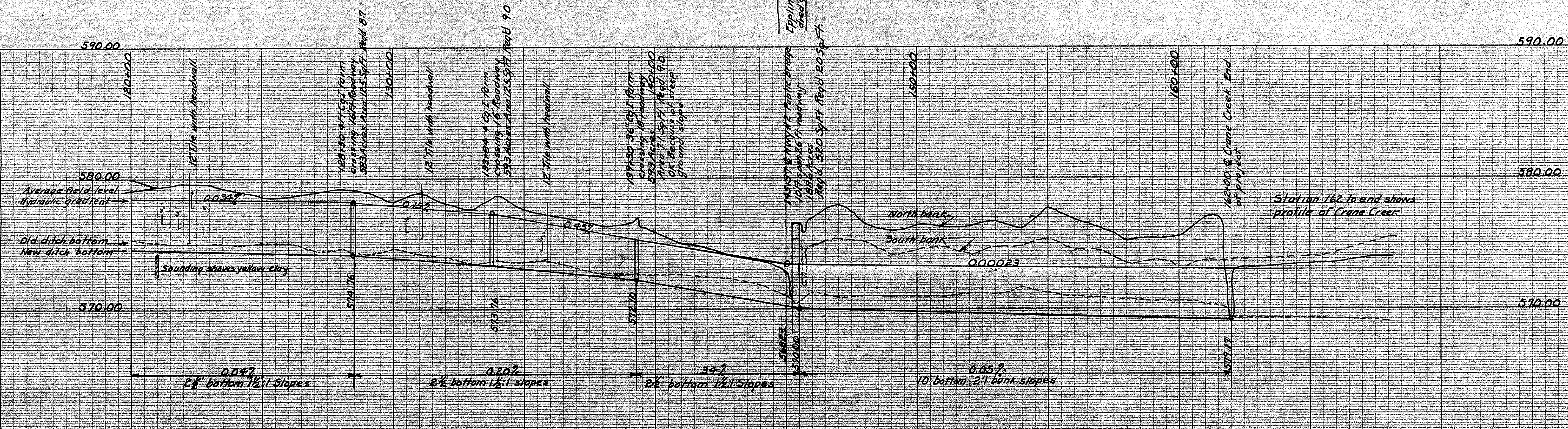
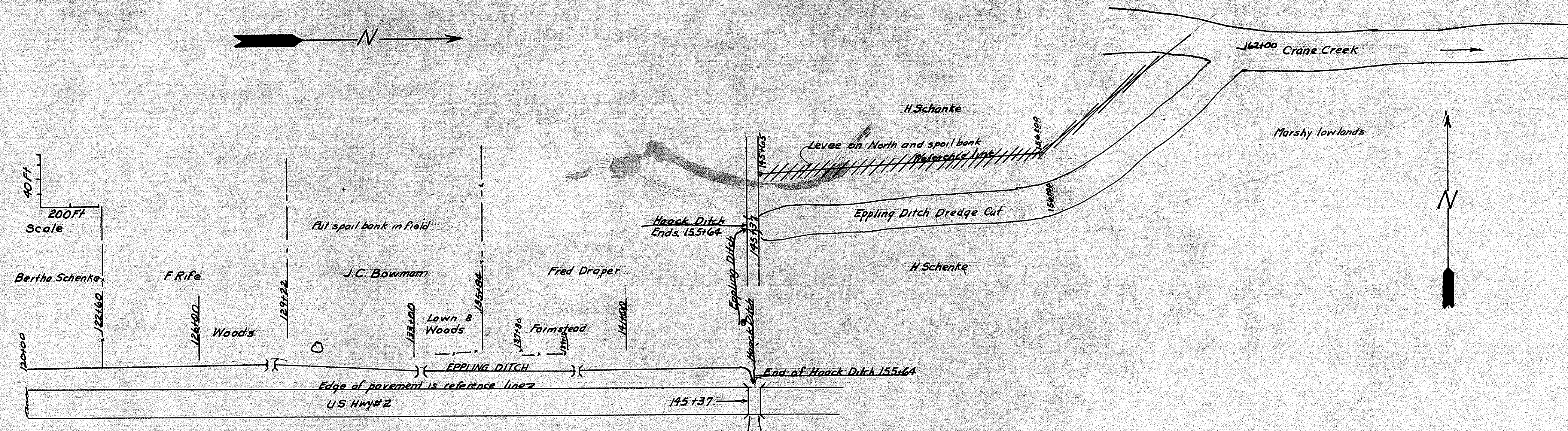
Machine excavation	8662 Cu Yd 16200 L Ft	US DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE CCC Camp SCS-34 Bowling Green Ohio Sand Beach Side Camp Project R-213 EPPLING DITCH Benton Township Ottawa Co. Ohio
Hand excavation	200 Cu Yd	
Fence	135 rods	Approved <i>comp supt</i> Date
Tile 86	3'-31; 4'-4; 5'-2; 6'-4; 10'-1; 12'-7	Approved <i>drainage tech</i> Date
Tile on left	1" Tile on right	Approved <i>drainage eng</i> Date
Spoil bank leveling	7234 Cu Yd 14500 L Ft	
Proposed spoil bank		



Bench Marks	0+90 Nail in Tel pole on left 586.98	12+15 Nail in elm tree on left 586.70	49+70 Nail in fence post Right 583.91
Cubic Yards	34 45 50	63 63 59	68 71 55 58 70 77 74 59 67 71 70 64 58 49 98 45 39 22 25 49 48 53 48 41 37 57 47 49 53 53 50 55 63 68 70 74 62 56 58 52
Hub Cuts	3.98 4.77 4.77	4.77 4.77 4.77	4.77 4.77 4.77
Distance hub to Q. of ditch	0.189 1.97 2.123	3.98 4.90 5.180	10.103 10.108 10.105
Station number	0 1 2	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	50 51 52 53 54 55 56 57 58 59 60



Bench Marks	62+00 Nail in Tel pole right 584.52	67+90 Nail in Tel pole right 584.31	72+95 NWc NW wing farm bridge 583.14	79+00 Nail in Tel pole right 583.05	85+20 Nail in Tel pole right 582.31	94+25 on E wall of bridge 582.34	97+00 Nail in 10" oak left 581.77	103+50 Nail in Tel pole left 581.74	109+20 Nail in 10" Oak left 581.13
Cubic yards	56	67	65	72	46	45	66	62	68
Hub cuts	517	592	586	601	593	570	574	575	574
Distance hub to C of ditch	9.5	7.5	7.6	8.0	7.8	8.4	8.4	8.4	8.4
Station Number	61	62	63	64	65	66	67	68	69



Bench Marks	120+90 Nail in fence post left	126+90 Nail in 12 Oak left	139+30 SW corner of farm bridge	at E headwall of bridge on route E. 236551830
Cubic yards	54	580.84	577.05	
Hub cuts	121 80 479 54	123 509 20	137 50 371 50	145 80 243 59
Distance hub to C of ditch	122 102 407 15	124 88 503 20	139 58 457 58	146 218 600 41
Station number	123 103 509 20	125 88 526 10	140 96 350 51	147 204 709 64
	126 87 505 11	127 80 421 0	141 96 345 40	148 216 630 65
	128 78 450 9	129 78 444 28	142 56 444 47	149 318 587 64
	130 67 432 52	131 74 514 26	143 58 404 49	150 245 497 77
	132 70 421 24	133 65 452 28	144 54 413 49	151 240 525 88
	134 75 525 29	135 62 462 24	145 54 413 49	152 245 619 87
	136 70 431 24	137 50 371 50	146 218 600 41	153 240 619 82
	138 65 452 28	139 58 457 58	147 204 709 64	154 245 524 94
	140 96 350 51	141 96 345 40	148 216 630 65	155 240 742 106
	142 56 444 47	143 58 404 49	149 318 587 64	156 320 736 102
	144 54 413 49	145 80 243 59	150 245 497 77	157 170 568 100
	146 218 600 41	147 204 709 64	151 240 525 88	158 182 584 107
	147 204 709 64	148 216 630 65	152 245 619 87	159 340 607 106
	148 216 630 65	149 318 587 64	153 240 619 82	160 210 521 102
	149 318 587 64	150 245 497 77	154 245 524 94	161 240 728 104
	150 245 497 77	151 240 525 88	155 240 742 106	162 16 Crane Creek End of project
	151 240 525 88	152 245 619 87	156 320 736 102	670 cubic yards
	152 245 619 87	153 240 619 82	157 170 568 100	
	153 240 619 82	154 245 524 94	158 182 584 107	
	154 245 524 94	155 240 742 106	159 340 607 106	
	155 240 742 106	156 320 736 102	160 210 521 102	
	156 320 736 102	157 170 568 100	161 240 728 104	
	157 170 568 100	158 182 584 107	162 16 Crane Creek End of project	