

COTTONWOOD SWALE

SALEM TWP.

9-10-15-16-17-18

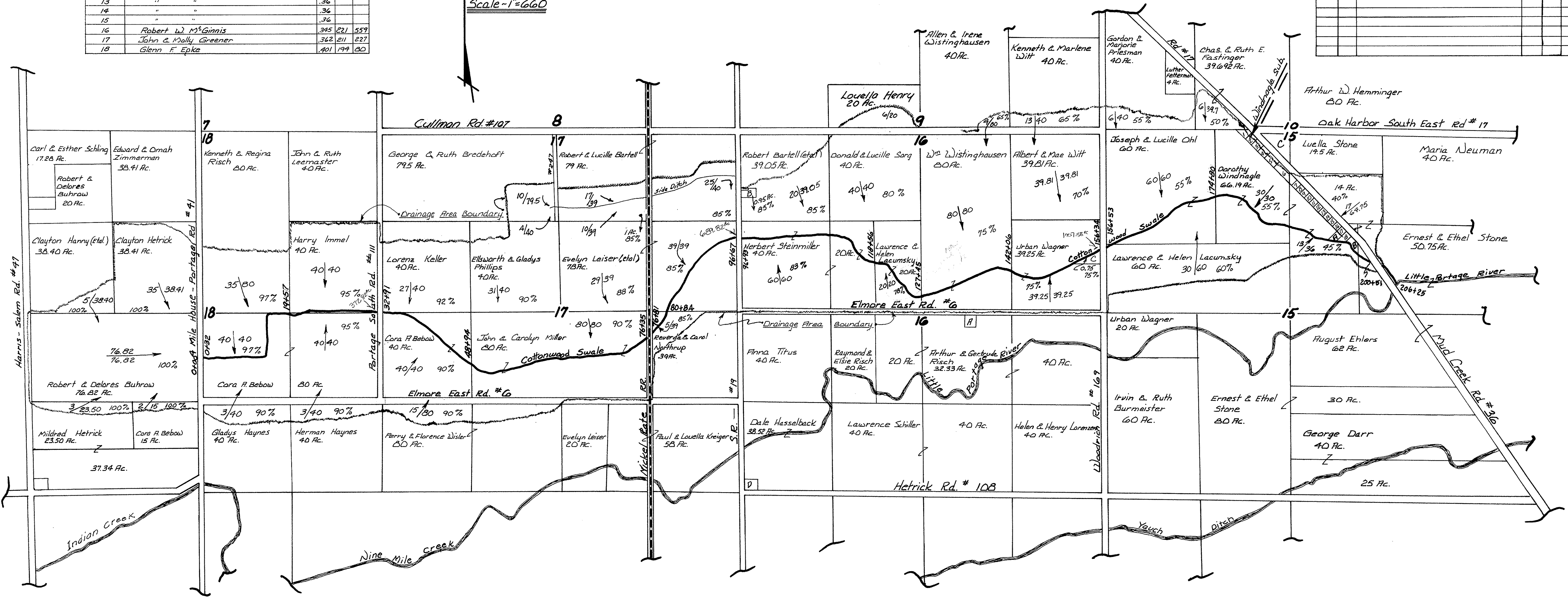
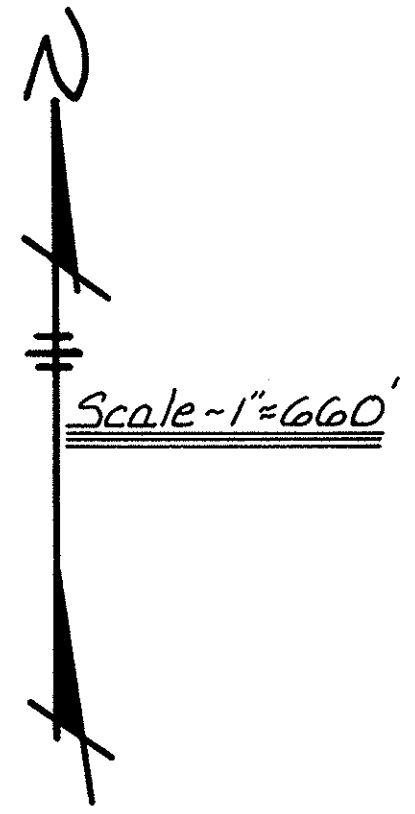
1963

Lot Owners In Windnagle's Sub.

Lot No.	Owner	Ac.	Vol.	Pg.
1 & 2	Willard R Hamann	.549	196	287
2 - S.P.	Anton C. Heinsen	.265	201	225
3	Ray Finken (etal.)	.355	217	660
4	Dennis & Jean Hamann	.395	187	477
5	Dorothy Windnagle	.36		
6	"	.36		
7	Chester W. Yeisley	.365	206	278
8	James G. Lattimore	.345	201	114
9	Dorothy Windnagle	.36		
10	"	.36		
11	"	.36		
12	"	.36		
13	"	.36		
14	"	.36		
15	"	.36		
16	Robert W. McGinnis	.395	221	559
17	John & Molly Greener	.342	211	227
18	Glenn F. Epke	.401	199	20

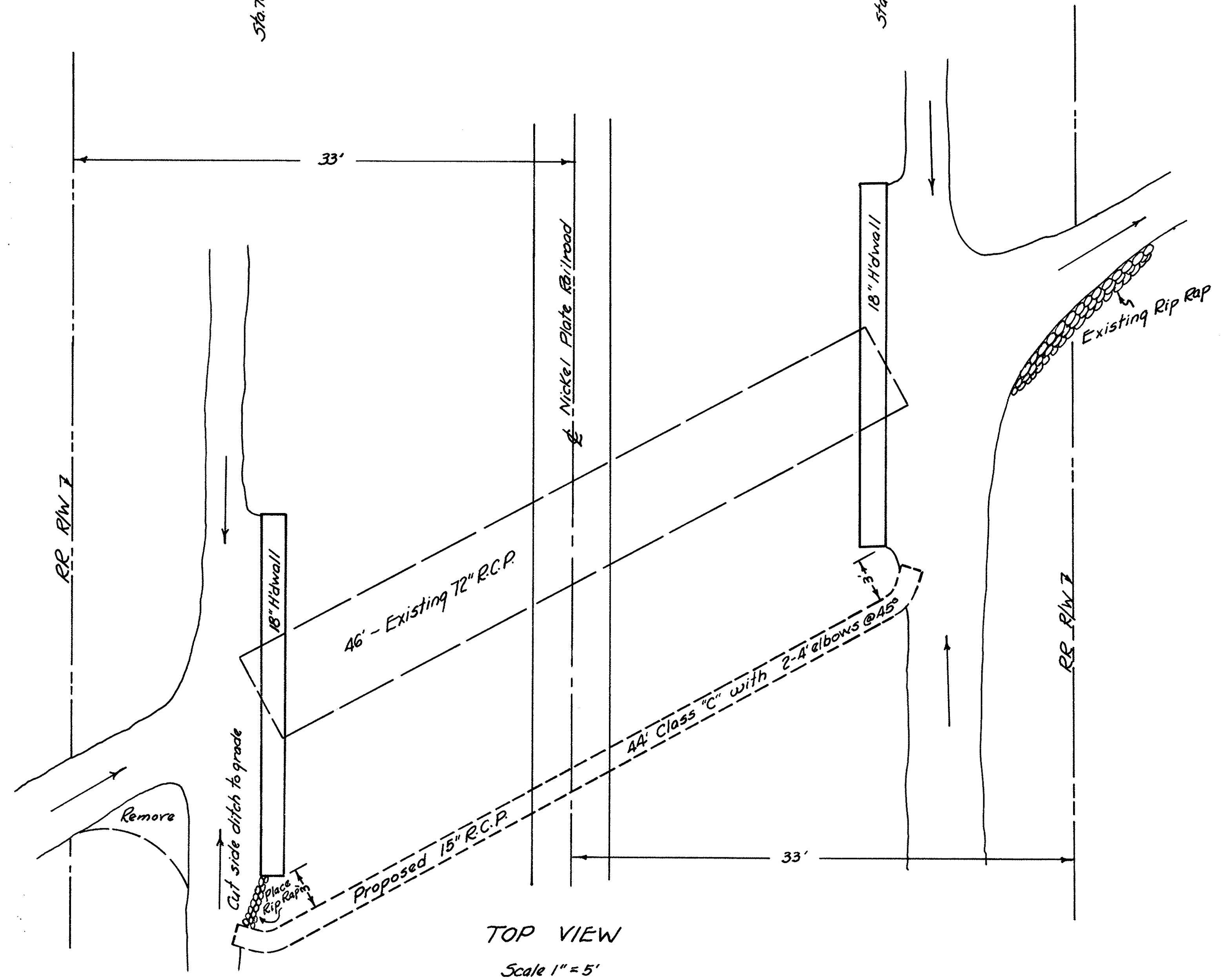
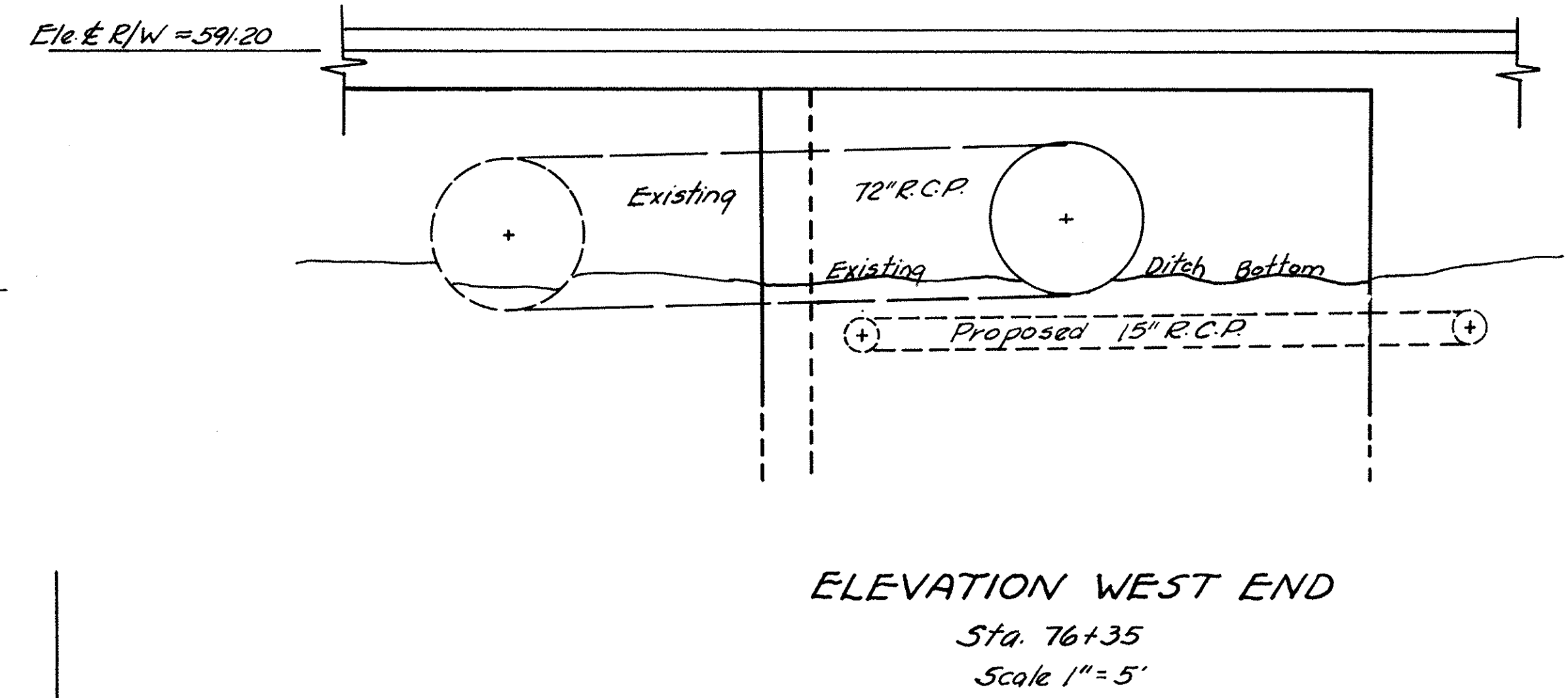
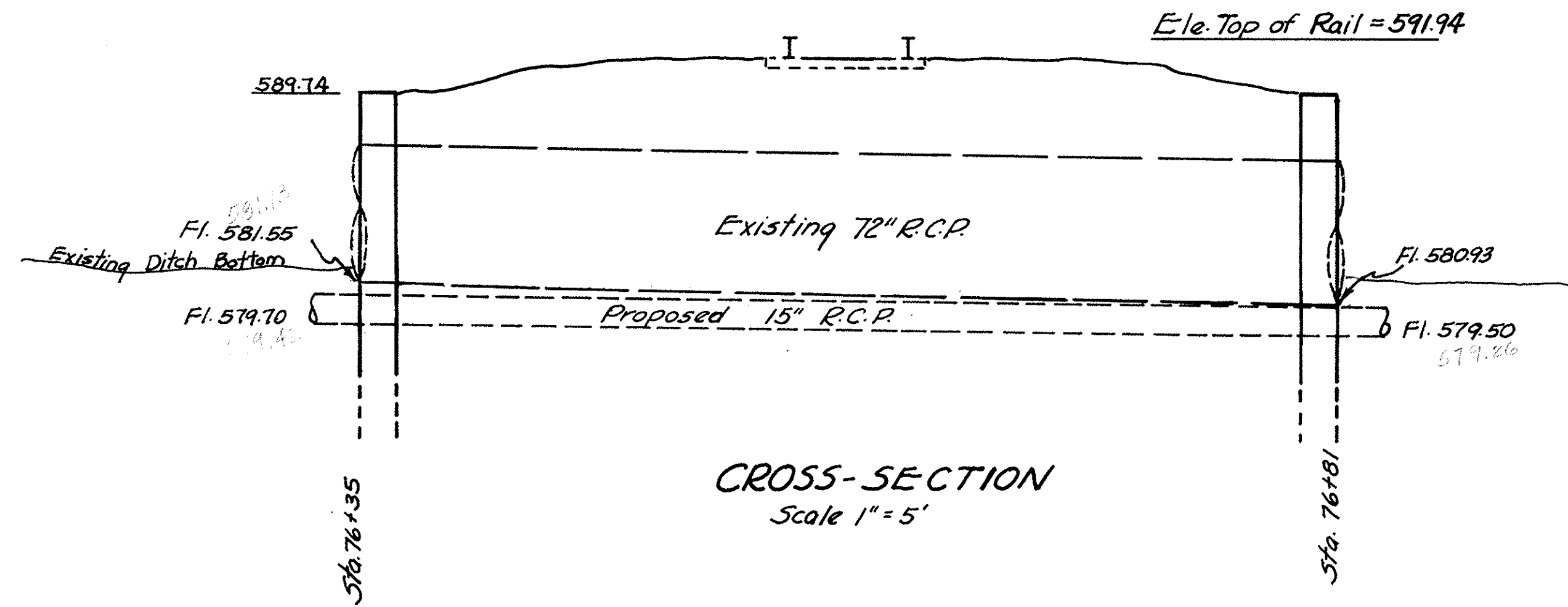
INDEX TO Small Parcels

Sec.	Par.	Owner	Ac.	Vol.	Pg.
15	A	John & Molly Greener	0.309	221	377
15	B	Glenn & Barbara Empcke	0.502	209	68
15	C	Frederick & Rose Roose	7.0	173	477
16	A	Charles & Karen Schultz	.92	223	230
16	B	Lloyd & Mildred Leaser	.95	193	227
16	C	Robert & Delores Wagner	.75	180	1
16	D	Emily Schrader	1.48	195	55



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PROPOSED PIPE UNDER NKPRR



Note:
 Culvert is at Sta 1480+20 on NKPRR
 was Bridge 28 A before present 72" R.C.P. was installed.
 SE 1/4 Sec 17 Salem Twp.

QUANTITIES
 44' - 15" R.C.P. Class "C"
 2 - " " " 4' elbows @ 45°
 (necessary casing to be included in unit price bid of pipe)
 (extra side ditch excavation to be included in)
 unit price bid for main ditch excavation.)
 3.59 Yds. Rip Rap
 Bends to be supported by broken pieces of concrete
 Cost to be included in unit price bid of bends.
 Material for supports to be furnished by Ottawa County.

Ottawa County Engineer's Office
 Drawn by: John Papcun
 Approved by: *Delos J. Neenan*
 Ottawa County Engineer
 Date: 12/31/63

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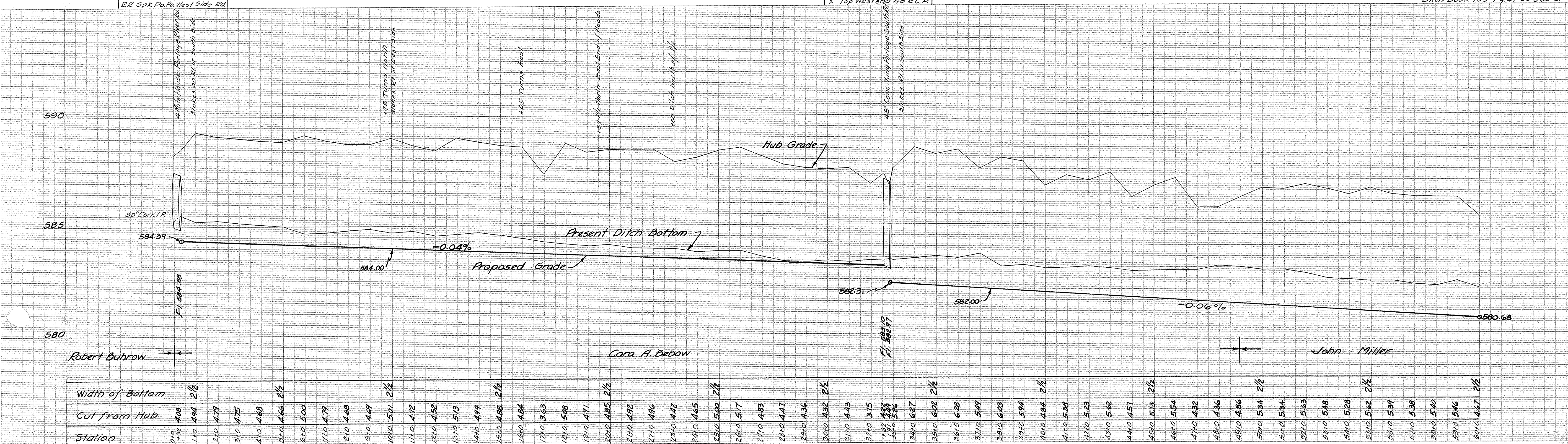
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B.M. Sta 0+0
Elev. 590.51
R.R. Spk. Pa. Po. West Side Rd.

B.M. Sta 32+62
Elev. 587.52
"X" Top Westend 48" R.C.P.

Ditch Book 139-Pg. 47-59 680-B1



Station	Cut from Hub	Width of Bottom
0+0	4.08	2 1/2
1+0	4.94	2 1/2
2+0	4.79	
3+0	4.75	
4+0	4.68	
5+0	4.66	2 1/2
6+0	5.00	
7+0	4.79	
8+0	4.68	
9+0	4.67	
10+0	5.01	2 1/2
11+0	4.72	
12+0	4.52	
13+0	5.13	
14+0	4.99	
15+0	4.88	2 1/2
16+0	4.84	
17+0	3.63	
18+0	5.08	
19+0	4.71	
20+0	4.85	2 1/2
21+0	4.92	
22+0	4.96	
23+0	4.42	
24+0	4.65	
25+0	5.00	2 1/2
26+0	5.17	
27+0	4.83	
28+0	4.47	
29+0	4.36	
30+0	4.32	2 1/2
31+0	4.43	
32+0	3.75	
33+0	4.22	
34+0	4.26	
35+0	5.26	
36+0	6.27	
37+0	6.02	2 1/2
38+0	6.28	
39+0	6.28	
40+0	5.49	
41+0	6.03	
42+0	5.94	
43+0	4.84	2 1/2
44+0	5.38	
45+0	5.13	2 1/2
46+0	5.54	
47+0	4.32	
48+0	4.36	
49+0	4.86	
50+0	5.34	2 1/2
51+0	5.34	
52+0	5.63	
53+0	5.48	
54+0	5.28	
55+0	5.62	2 1/2
56+0	5.39	
57+0	5.38	
58+0	5.40	
59+0	5.46	
60+0	4.67	2 1/2

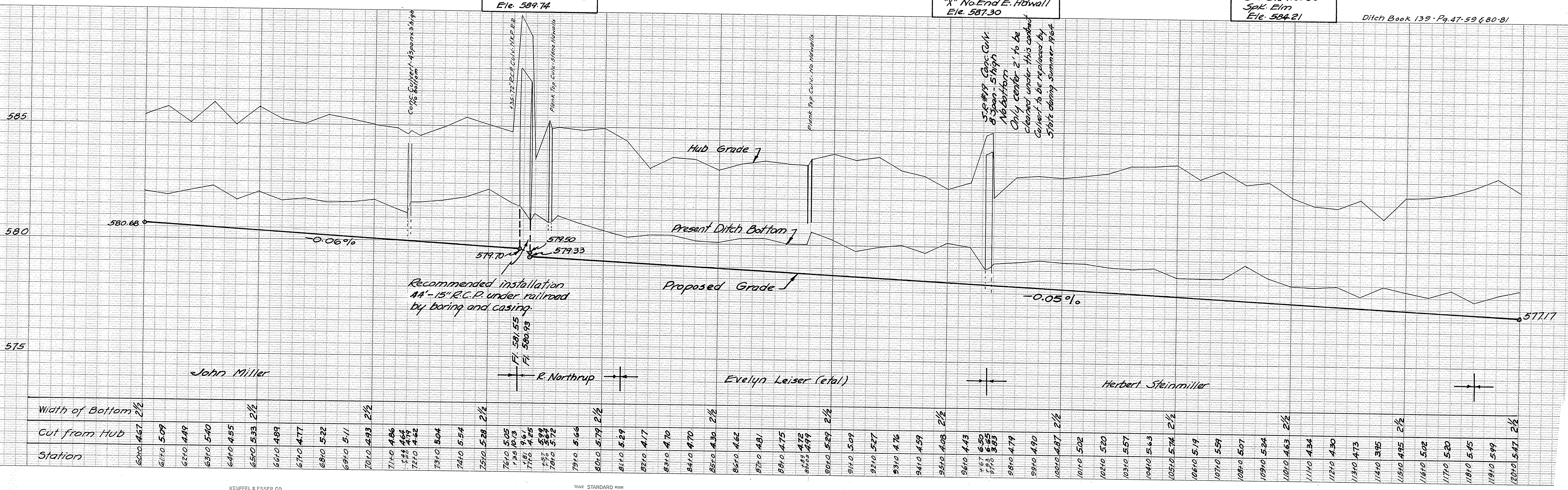
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BM Sta. 76+35
"X" No. End W. Hdwall
Ele. 589.74

Transfer B.M.
Sta. 96+83 to 96+55 at
R.R. Spk. Po. Po. SW of Culvert
Ele. 588.06
BM Sta. 96+93
"X" No. End E. Hdwall
Ele. 587.30

BM Sta. 116+00
Spl. Elm
Ele. 584.21

Ditch Book 139 - Pg. 47-59 & 80-81



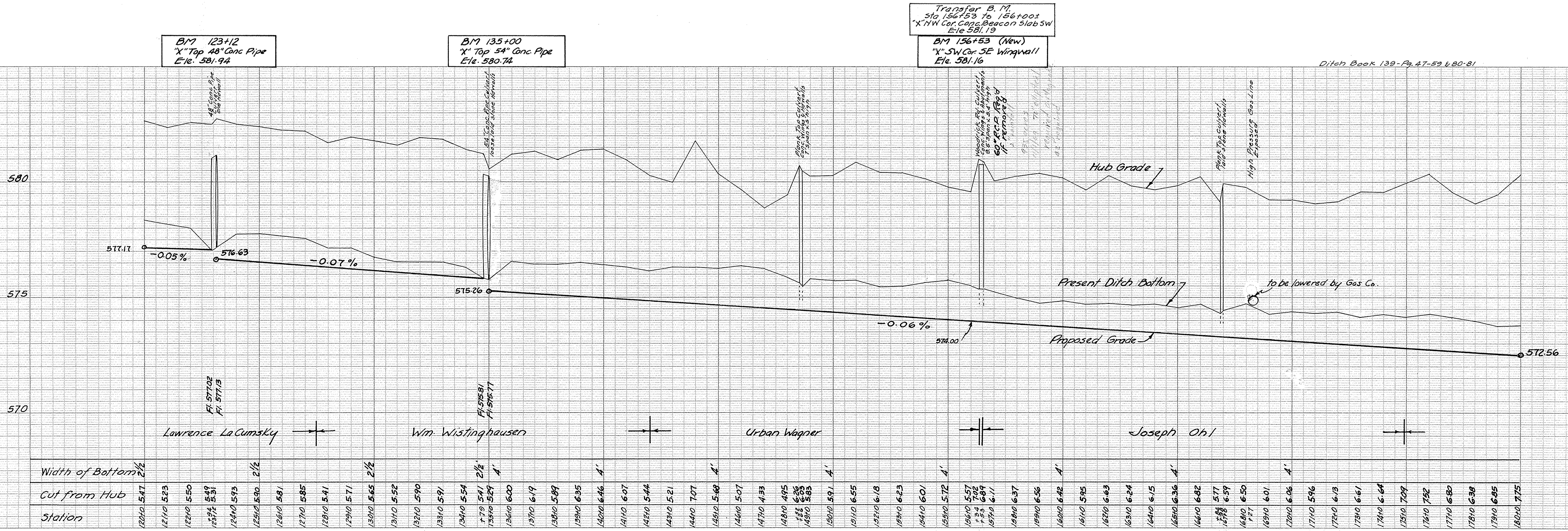
Station	Cut from Hub	Width of Bottom
60+00	4.67	2 1/2
61+00	5.09	
62+00	4.49	
63+00	5.40	
64+00	4.55	
65+00	5.33	2 1/2
66+00	4.89	
67+00	4.77	
68+00	5.22	
69+00	5.11	
70+00	4.93	2 1/2
71+00	4.86	
72+00	4.94	
73+00	5.04	
74+00	5.54	
75+00	5.28	2 1/2
76+00	5.05	
77+00	4.95	
78+00	5.72	
79+00	5.66	
80+00	5.79	2 1/2
81+00	5.29	
82+00	4.17	
83+00	4.70	
84+00	4.70	
85+00	4.30	2 1/2
86+00	4.62	
87+00	4.81	
88+00	4.75	
89+00	4.72	
90+00	5.29	2 1/2
91+00	5.09	
92+00	5.27	
93+00	4.76	
94+00	4.59	
95+00	4.08	2 1/2
96+00	4.43	
97+00	4.50	
98+00	4.79	
99+00	4.90	
100+00	4.87	2 1/2
101+00	5.02	
102+00	5.20	
103+00	5.57	
104+00	5.63	
105+00	5.74	2 1/2
106+00	5.19	
107+00	5.59	
108+00	5.07	
109+00	5.04	
110+00	4.63	2 1/2
111+00	4.34	
112+00	4.30	
113+00	4.73	
114+00	3.95	
115+00	4.95	2 1/2
116+00	5.02	
117+00	5.20	
118+00	5.45	
119+00	5.99	
120+00	5.47	2 1/2

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