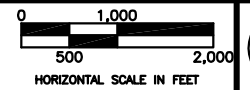
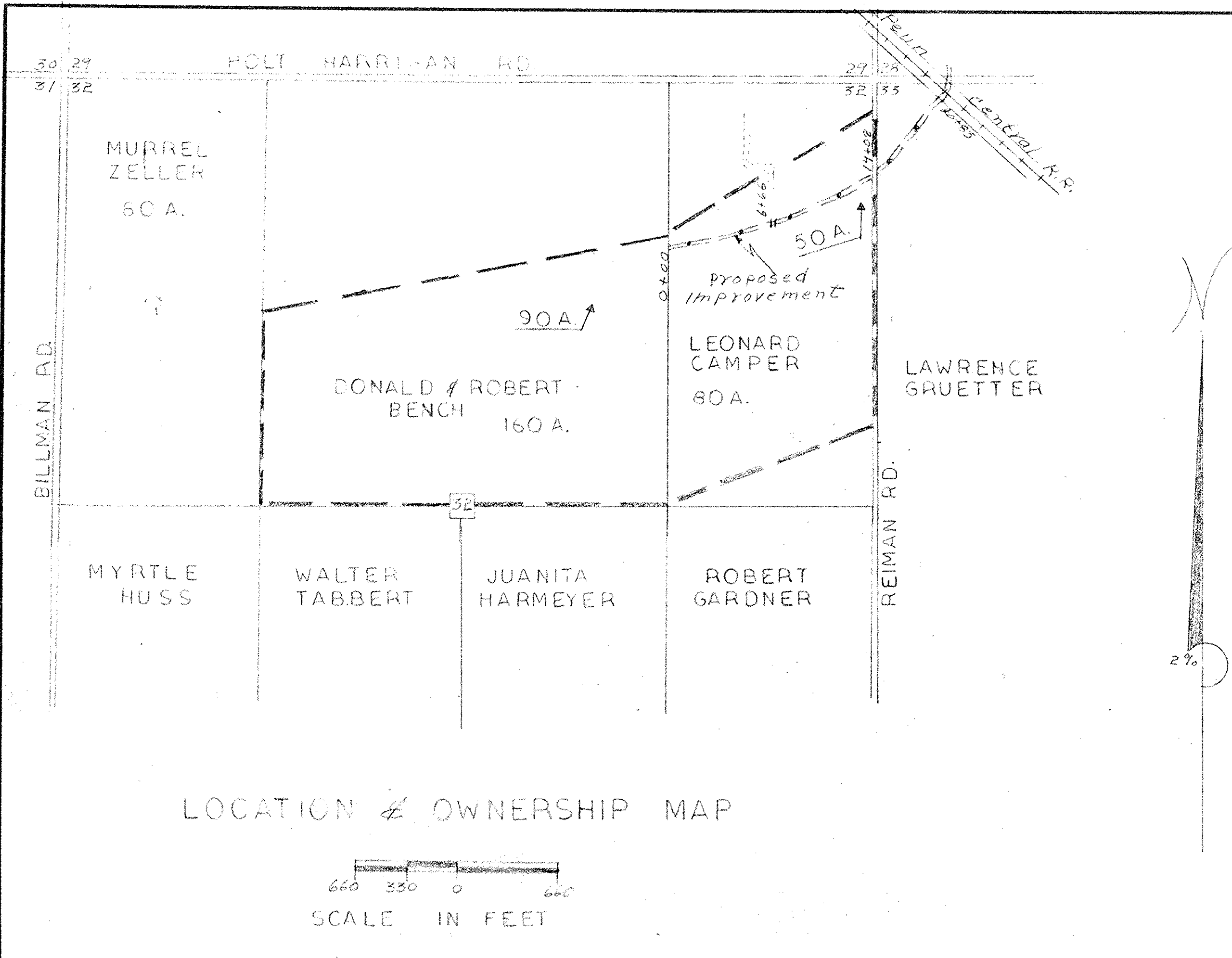
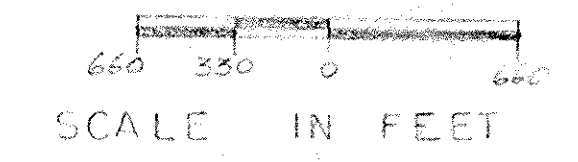


RICHARDS DITCH DRAINAGE AREA





LOCATION & OWNERSHIP MAP



LEGEND

- PROPOSED IMPROVEMENT
- HIGHWAY
- PROPERTY LINE
- SECTION CENTER
- WATERSHED
- SECTION CORNER
- ACRES IN WATERSHED
- ACRES OWNED
- RAILROAD

SUPPORTING DATA

- DRAINAGE AREA: 150 ACRES
- DESIGNED COEFFICIENT: Q₆ CURVE
- LAND USE: SPECIAL, GENERAL FARMING
- SOIL TYPES: HOYTVILLE
- LAND SLOPE: 0 - 2 %
- TYPE DRAINAGE: TILE - SURFACE

HYDRAULIC CALCULATION

HEADLOSS $H = \frac{V^2}{2g} (1+K_e + K_p)$			CHANNEL $V = \frac{1.486}{N} R^{2/3} S^{1/2}$	
STATION	6+66	14+08	REACH	STA. 0+00 TO STA. 14+08
DRAINAGE AREA AC.	110	140	DRAINAGE AREA AC.	140
Q ₆ FLOW C.F.S.	19	24	Q ₆ FLOW C.F.S.	24
DIAMETER INS.	30	36	SLOPE	.0005
TYPE	R/C	R/C	S 1/2	.0224
N	.013	.013	Q / S 1/2 = KD	1071
LENGTH FT.	24	36	KD USED	1079
X SECTION AREA SQ. FT.	4.91	7.07	SIDE SLOPE	FT 1 1/2 : 1
KP	.0092	.0072	DEPTH	2.9
KPL	.221	.26	AREA	SQ. FT. 21.33
KE	.50	.50	BOTTOM WIDTH	FT. 3
VELOCITY F.P.S.	3.9	3.4	VELOCITY	F.P.S. 1.1
HEADLOSS FT.	.41	.32	N	.04

BENCH MARK DESCRIPTIONS

BM-1 TOP OF EAST END OF 12" STEEL CASING STA. 0+00
M.S.L. ELEV. 620.17

BM-2 STA. 14+08
TOP OF WEST END OF 36" R/C PIPE UNDER REIMAN RD. APPROX. 600'S OF HOLT HARRIGAN RD.
M.S.L. ELEV. 620.41

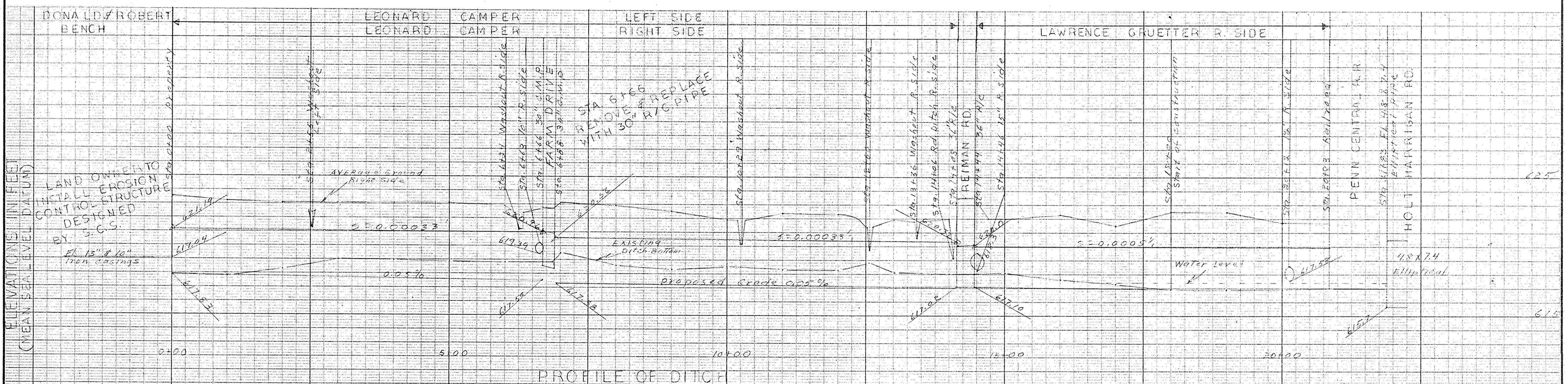
LOCATION - N.E. 1/4 OF N.E. 1/4 SEC. 32 T-7 N R-13 E CLAY TOWNSHIP, OTTAWA COUNTY, OHIO.

SURVEYED - 10-23-70 D. SOMMER D. OPFER J. STEINER

REFERENCE - FIELD NOTES ON FILE IN OTTAWA SOIL & WATER CONSERVATION DISTRICT OFFICE 145 CHURCH STREET OAK HARBOR, OHIO.

THIS DITCH PLAN HAS BEEN APPROVED BY:

John L. Popcorn 12/11/70
OTTAWA COUNTY ENGINEER DATE



PROFILE OF DITCH

BM#1 STA. 0+00
TOP OF 12" IRON CASING
EAST LINE OF BENCH FARM
M.S.L. ELEV. 620.17

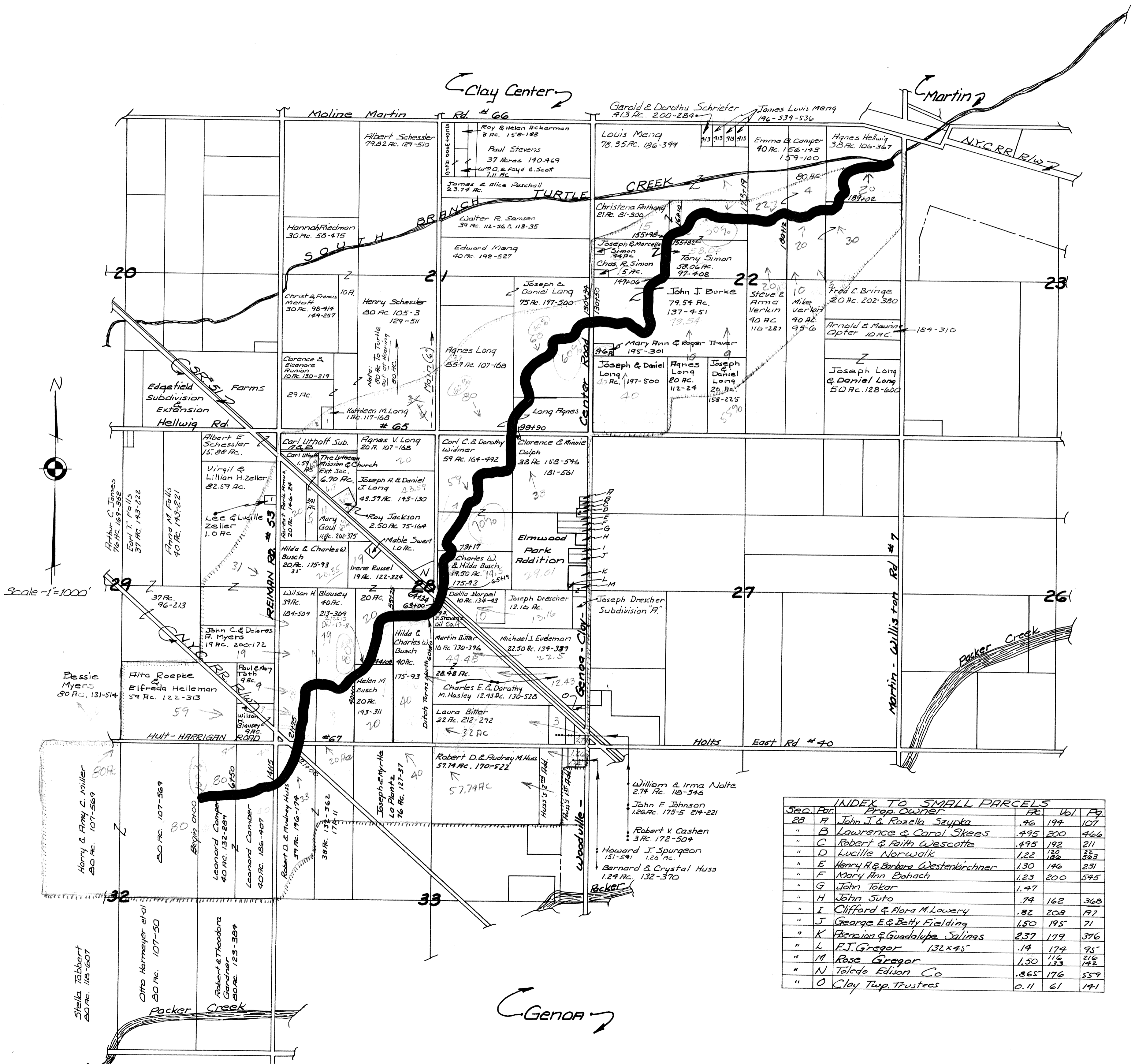
BM#2 STA. 14+08
TOP OF W. END OF 36" R/C
UNDER REIMAN RD. APPROX.
600'S OF HOLT HARRIGAN RD.
M.S.L. ELEV. 620.41

RICHARDS BRANCH TURTLE CREEK DITCH IMPROVEMENT
CLAY TOWNSHIP
OTTAWA COUNTY, OHIO.

**U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE**

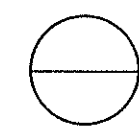
Designed <i>Donald Opfer</i>	Date 11/9/70	Approved by <i>John L. Popcorn</i>
Drawn <i>Donald Opfer</i>	Title 1981/70	Title <i>(undesignated)</i>
Traced		
Checked <i>R.K. Row</i>	Sheet No. 1 of 2	Drawing No. 34-01-83-71-19

RICHARDS DITCH (BRANCH OF TURTLE CREEK) CLAY TWP. SEC. 21-22-23-29-32-33 1961



INDEX TO SMALL PARCELS				
Sec.	Par.	Prop. Owner	Ac.	Vol. Pg.
20	A	John J. & Rozella Szypta	.46	194 107
"	B	Lawrence & Carol Skees	.495	200 466
"	C	Robert & Faith Wescotte	.495	192 211
"	D	Lucille Norwalk	1.22	180 363
"	E	Henry H. & Barbara Westankochner	1.30	196 231
"	F	Mary Ann Bohach	1.23	200 545
"	G	John Tokar	1.47	
"	H	John Suto	.74	162 368
"	I	Clifford & Flora M. Lowery	.82	208 197
"	J	George E. & Betty Fielding	1.50	195 71
"	K	Bernice & Guadalupe Salinas	2.37	179 376
"	L	F.J. Gregor 132x45	.14	174 98
"	M	Rose Gregor	1.50	116 316
"	N	Teledo Edison Co	.865	176 539
"	O	Clay Twp. Trustees	0.11	61 141

ELMWOOD PARK SUBDIVISION DRAINAGE TO RICHARDS DITCH 1961



Lot No.	OWNER
1	John P. & Florence Badger
2	Robert D. & Mary Alice Bourdo
3	Delmont C. & Gretchen Bourdo
4	Arthur & Helen L. Wilson
5	Raymond G. & Evelyn M. Stribrny
6	Lynn D. & Jane S. Howell
7	Claudine Smith
8	Reuben O. Edward Et Al.
9,10	Claudine Smith
11,12	"
13,14	"
15,16,5	Harold A. & Phyllis J. Bailey
17,16N	Merle H. & C. Jean Porter
18	William Jr. & Jean Peters
19	Frank & Joyce H. Haddix
20	Frank & Joyce Haddix
21,22,23	Claudine Smith
24,25,26	"
27	L.M. & Pauline Drace
28	Richard T. Smith
29,30,5	Thomas R. & Leone M. Ball
31,30N	Richard K. & Katherine M. Sheets
32	Louis O. & Patricia Ziebold
33	Daniel N. & Patricia Ritz
34	Raymond & Florence G. Tuck
35,36	Claudine Smith
37	Russell O. & Calligaye M. Bodett
38,39	Claudine Smith
40	"
41	Wilson C. & Jeanne M. Miller
42	Claudine Smith
43	"
44	William A. & Delores E. Drain
45	Robert & Dorothy Perciari
46	Roy C. & Loyce "Miel"
47	Donald L. & Marilyn Kern
48	Rosemary Schmidt & Robert Hintz
49	Claudine Smith
50	Ned E. & Ruth M. Ammons
51,52	Claudine Smith
53,54	"
55,56	"
57,58	"
59	"
60	Paul M. & Dorothy Halicak
61	Perry G. Jr. & Shirley Allen
62	Robert S. & Jean R. Dille

