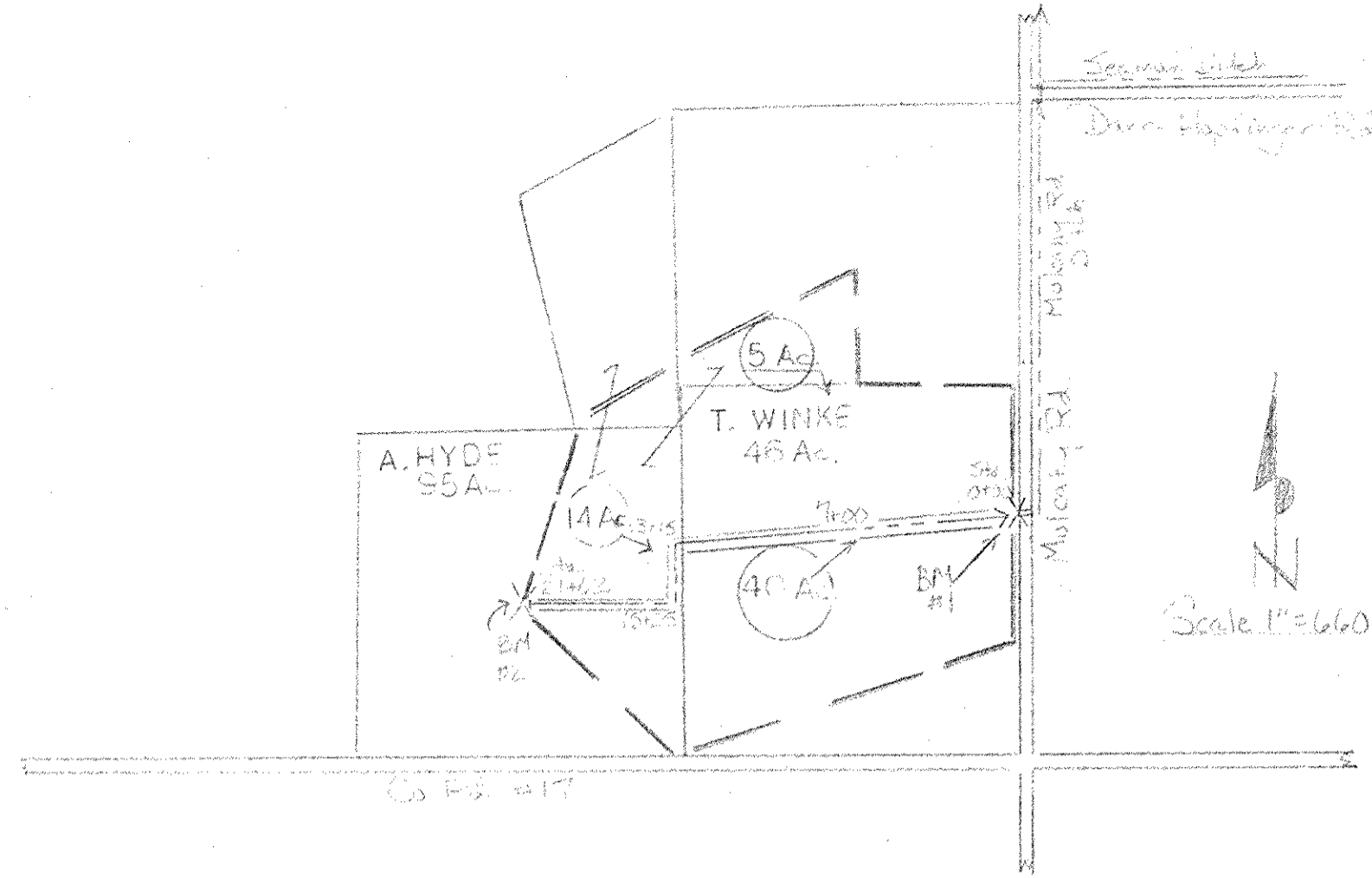
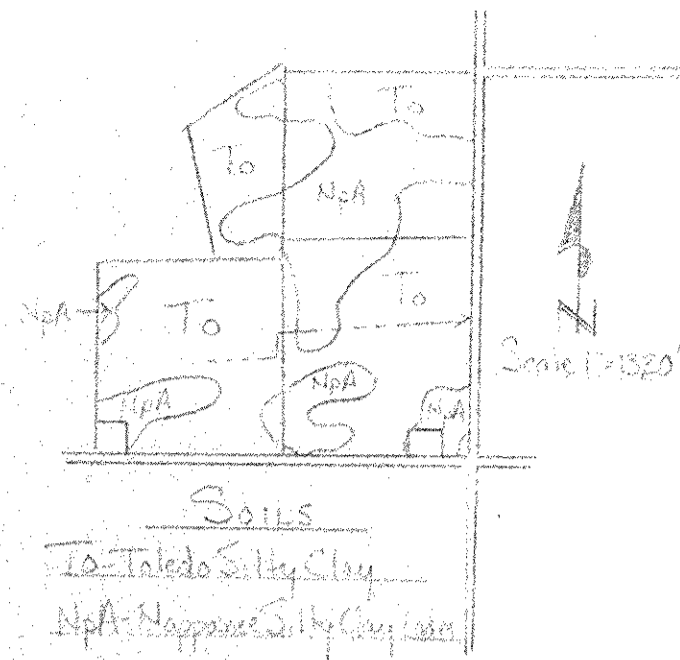


WATERSHED LOCATION MAP

SOILS MAP



LEGEND

- Ditch Reconstruction
- Open Ditch
- Property Line
- Watershed Boundary
- Acres Owned 46 Ac
- Acres in Watershed 40 Ac
- Benchmark

BENCHMARK DESCRIPTIONS

- B.M. #1 - top and center of west end of 24" R/C sewer on west side Mulcahy Road at Sta. 0+00 of Hopfinger Ditch East. MSL Elev. 576.00
- B.M. #2 - Top and center of west end of 10" R/C sewer for lane 15' west of Sta. 21+62 Hopfinger Ditch East. MSL Elev. 576.73

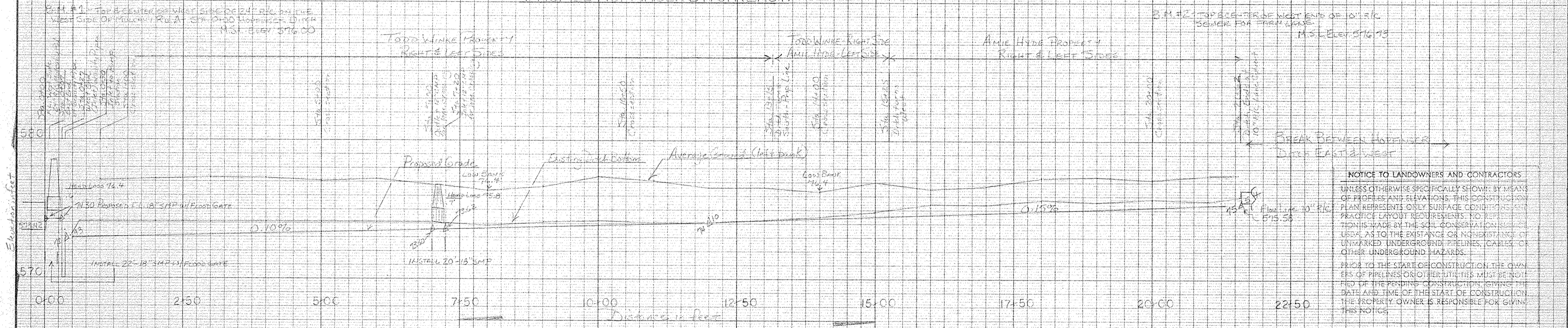
CONSTRUCTION INFORMATION AND SPECIFICATIONS

- Drainage Area: 59 acres (2 landowners)
- Design Coefficient: Qb Curve (4"/24 hrs. runoff)
- Watershed: Cropland - 59 acres, 0-2% slope, Toledo-Nappanee Soils, Surface Water Only
- Excavation: 4' bottom width, 2:1 side slopes
 Sta. 0+30 - 12+00 - 0.10% grade
 Sta. 12+00 - 21+62 - 0.15% grade
 781 cubic yards on 2131 lineal feet
 Spoil to be spread at the direction of the landowners.
- Clearing: All brush and debris which interferes with construction will be cleared at the time of excavation or prior to starting. All debris will be removed from ditch and required berm.
- Berms: A 6' berm will be left on both sides of the ditch to permit entrance for maintenance. The berm will start at the top of the ditch slope and extend 6' into the fields on either side. Where surface water enters the ditch in a defined channel, grass or an erosion control structure will be installed to prevent silt from entering.
- Seed and fertilizer: Area to be seeded 1.4 acres (approximately)
 The following quantities should be used:
 700# 10-10-10 fertilizer or equivalent (500#/ac.)
 56# tall fescue (40#/ac.)
 3 bushel wheat or rye (2 bu/ac) temporary seeding
 Seeding to be done at end of each day of construction.
- Culverts: Sta. 0+30 to 0+52 install 22' of 18" smooth metal pipe at the elevation shown on profile.
 Sta. 7+00 to 7+20 install 20' of 18" smooth metal pipe at the elevation shown on profile.
- Outlet: A screw type pump (capacity 1,200 gallons per minute) and an 18" smooth metal pipe with flapgate will be installed.

Notice to Landowners and Contractors

Preparation of a plan by the USDA - Soil Conservation Service does not include needed construction permits. Before construction begins, the landowner must obtain construction permits from the Ohio Dept. of Transportation, the Ottawa County Engineer, or applicable township trustees if any works is to be done on road right-of-ways.

PROFILE-HOPFINGER DITCH(EAST)



NOTICE TO LANDOWNERS AND CONTRACTORS
 UNLESS OTHERWISE SPECIFICALLY SHOWN BY MEANS OF PROFILES AND ELEVATIONS, THIS CONSTRUCTION PLAN REPRESENTS ONLY SURFACE CONDITIONS AND PRACTICE LAYOUT REQUIREMENTS. NO REPRESENTATION IS MADE BY THE SOIL CONSERVATION SERVICE, USDA, AS TO THE EXISTENCE OR NON-EXISTENCE OF UNMARKED UNDERGROUND PIPELINES, CABLES, OR OTHER UNDERGROUND HAZARDS.
 PRIOR TO THE START OF CONSTRUCTION, THE OWNERS OF PIPELINES OR OTHER UTILITIES MUST BE NOTIFIED OF THE PENDING CONSTRUCTION, GIVING THE DATE AND TIME OF THE START OF CONSTRUCTION. THE PROPERTY OWNER IS RESPONSIBLE FOR GIVING THIS NOTICE.

APPROVED BY: *John A. Pascoe*
 OTTAWA CO. ENGINEER

Surveyed 8/12/87
 T - E.L.I. LASER
 P - HIKER
 D - DELWISSE

JOB CLASS II
 OPEN DITCH RECONSTRUCTION
 HOPFINGER GROUP (EAST DITCH)* 171
 BAY TWP. SEC. 8 OTTAWA CO.
 U. S. DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE

Designed by <i>D. Anderson</i>	Date <i>2/88</i>	Approved by <i>R. H. ...</i>
Drawn <i>D. Anderson</i>		Title <i>...</i>
Traced		Title
Checked <i>R. ...</i>	No. <i>117</i>	Sheet <i>3</i>
		Drawing No. <i>89-01-583-87-18</i>