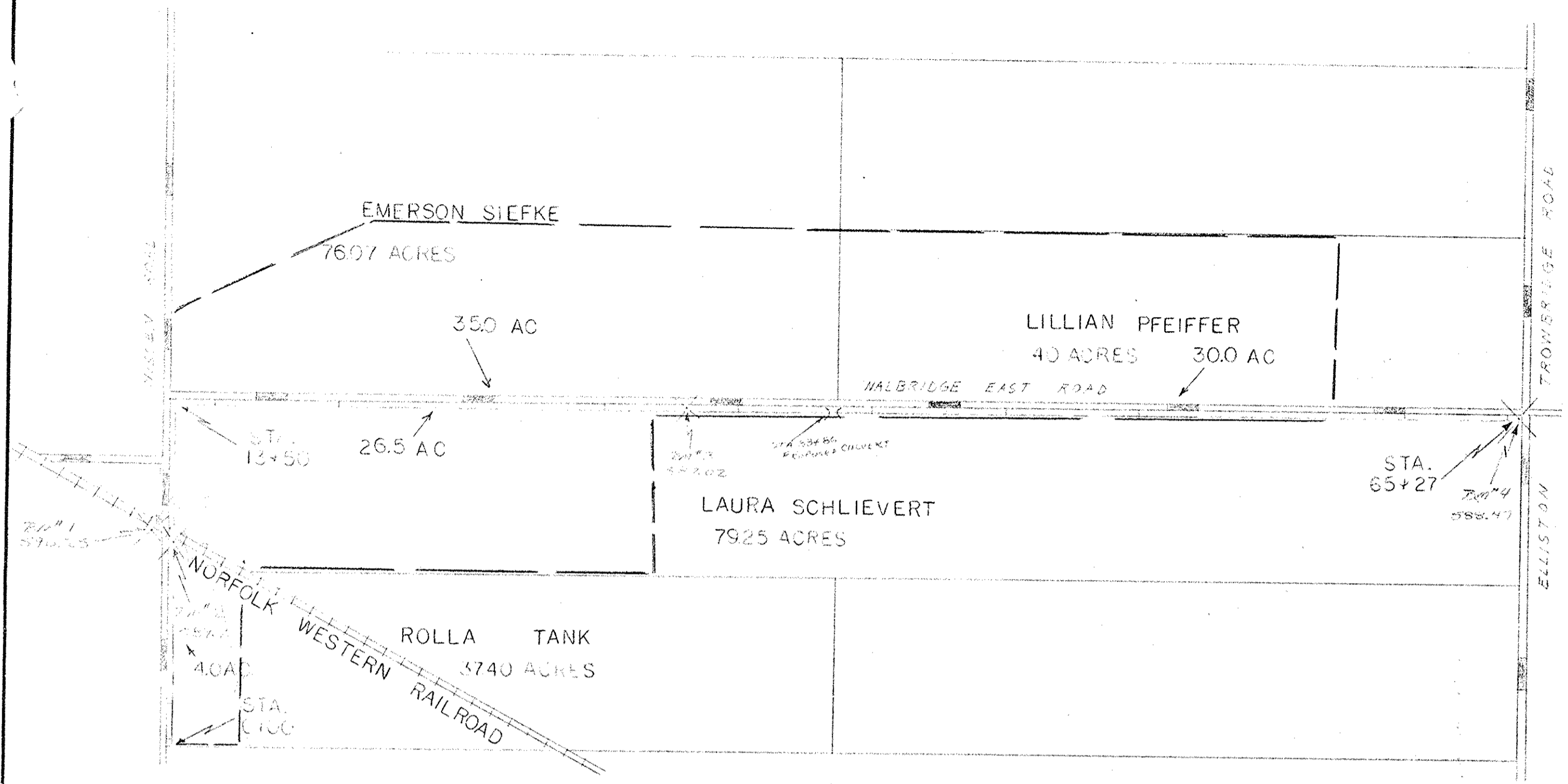


LOCATION & OWNERSHIP MAP

SPECIFICATIONS



- I. EXCAVATION:
- A. Bottom Width: The bottom width shall be THREE (3) feet between sta. 3+05 and sta. 65+21.
 - B. Bank Slopes: The ditch bank slopes are to be constructed to at least 2 foot horizontal to 1 foot vertical.
 - C. Alignment: The centerline of the improvement shall be approximately the centerline of the existing ditch unless otherwise indicated on the plan.
 - D. Total Excavation: The total excavation consists of 2278 cubic yards of earth over 6.06 lineal feet of ditch from sta. 3+05 to sta. 65+21.
 - E. Excess Yardage: No extra compensation will be paid for such excavation in excess of yardage herein estimated. This estimate was made from cross sections of the proposed ditch. The contractor should view the proposed work to his own satisfaction.
 - F. The contractor shall be given a right-of-way on each side of the ditch 50 feet from the bank of the ditch at all points.
- II. CLEARING:
- All trees and/or brush which would interfere with the excavation operation must be cleared from the ditch right-of-way ahead of the construction operations. Stumps on the berm shall be removed or cut as low as cutting tools permit. All stumps on the slopes shall be removed. Cleared debris should be disposed of by burning or removed from the right-of-way.

III. BERM WIDTHS:

Unless otherwise noted the berms will have the following minimum widths: four (4) feet wide for ditches up to four (4) foot depth; six (6) feet wide for four to six foot depth; and ten (10) feet wide for ditches over six feet in depth.

IV. SPOIL BANKS:

Excavated material should be deposited and spread along one and/or both sides of the ditch, as determined, except where used for levees, and in overflow areas with timber or brush cover. Slope of the spoil after spreading should be at least 3:1 on the channel side and at least 4:1 on the field side. The height of the spoil should not exceed 9" above average ground level. Openings shall be provided for surface water to enter the ditch.

V. TILE OUTLETS:

Landowners shall protect their tile outlets with a section of continuous rigid pipe and flap-gates or grid to exclude rodents. For details of construction, see your Soil Conservation Service Technician.

VI. SURFACE WATER OUTLETS:

Whenever a lateral or a surface ditch enters the main ditch at a higher elevation, protection from erosion should be provided by: drop structures, pipe drops, other suitable structure or grassed waterway. For assistance on outlets, see your Soil Conservation Service Technician.

VII. DITCH BANK SEEDING:

Area to be seeded Berm .7 acres
 Ditch Banks 1.6 acres.

The ditch banks will be seeded each day within 24 hours after the clearing and shaping is completed. The berms will be seeded after spoil is spread. Fertilizer will be applied at that time or within 24 hours after seeding. Seed will be covered by use of adjustable spike tooth harrow, if not seeded within the above time limit.

Permanent seeding. (To be completed prior to September 15.)
 Seeding rate per acre:
 40 pounds tall fescue - (Kentucky 31 or Alta)
 500 pounds 12-12-12 or equivalent fertilizer
 2 tons straw or hay per acre for mulch

Temporary seeding.
 Seeding rate per acre:
 2 bushels oats seeded during spring or summer or 2 bushel wheat or rye seeded in the fall or winter may be used as a growing green mulch until a permanent seeding is made.

Mow when grass reaches a height of 10 to 12 inches.

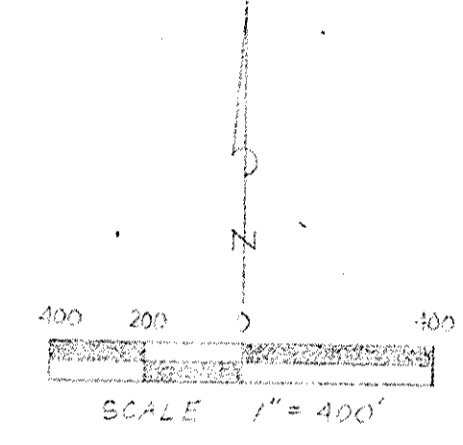
The establishment of the seeding on the ditch bank and berm shall be the responsibility of the contractor. A minimum of 20 fescue plants per square foot will be considered adequate establishment.

VIII. Existing culverts will be cleaned and the inverts (flow line) lowered if necessary to correspond to the proposed ditch grade as indicated on the plan. If necessary, culverts will be enlarged to meet drainage design.

IX. ALL OF THE ABOVE SPECIFICATIONS ARE TO BE COMPLETED BEFORE PERFORMANCE IS CERTIFIED.

LEGEND

- PROPOSED IMPROVEMENT
- HIGHWAYS
- PROPERTY LINE
- WATERSHED BOUNDARY
- ACRES OWNED
- ACRES BENEFITED
- RAILROAD



BENCH MARK DESCRIPTIONS

- BM#1: TOP OF BELL OF SOUTH END OF 27 INCH V.S.P THROUGH NORFOLK & WESTERN RAILROAD LOCATED 35 FEET WEST OF NISSEN ROAD. MEAN SEALEVEL ELEV. 590.25
- BM#2: PAINTED X ON THE SOUTH END OF 24 INCH REINFORCED CONCRETE PIPE THROUGH NORFOLK & WESTERN RAILROAD LOCATED ON THE EAST SIDE OF NISSEN ROAD. MEAN SEALEVEL ELEV. 589.95
- BM#3: TOP OF SOUTH END OF 10 INCH CORRUGATED METAL PIPE CROSSOVER THROUGH WALBRIDGE ROAD APPROX. 2000 FEET EAST OF NISSEN ROAD. MEAN SEALEVEL ELEV. 597.02
- BM#4: TOP OF CHISELED X IN THE SOUTHWEST CORNER OF CONCRETE CATCH BASIN LID LOCATED IN THE SOUTHWEST CORNER OF THE INTERSECTION OF ELLISTON - TROWBRIDGE ROAD. MEAN SEALEVEL ELEV. 588.47

LOCATION

THE WATERSHED CONSISTS OF LAND WITHIN THE SOUTH 1/2 OF THE SOUTH 1/2 OF SECTION 6 & THE SOUTH 1/2 OF THE SOUTHWEST 1/4 CORNER OF SECTION 6, THE NORTH 1/2 OF THE NORTHWEST 1/4 OF SECTION 7 & THE NORTH 1/2 OF THE NORTHEAST 1/4 OF SECTION 7 OF BENTON TOWNSHIP, T7N, R14E, OTTAWA COUNTY, OHIO.

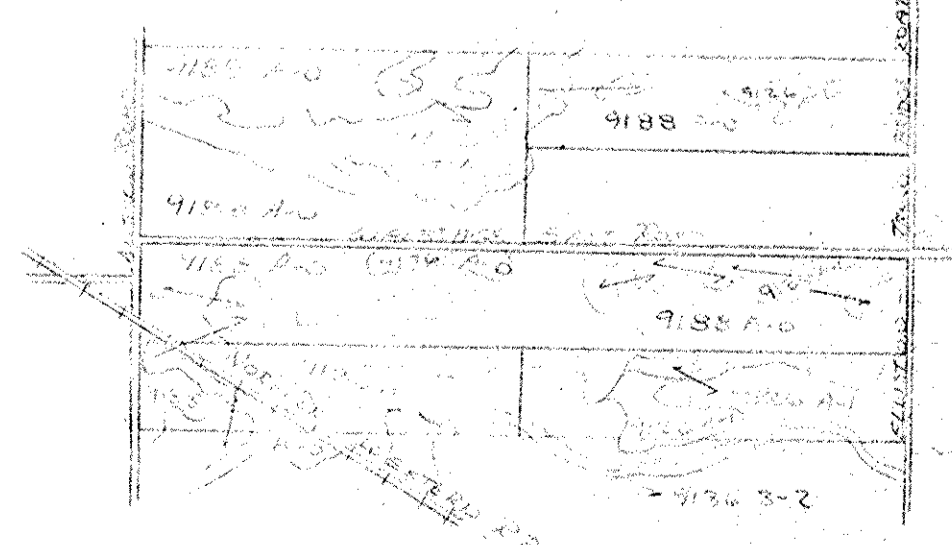
SURVEYED: OCTOBER 3RD, 1977
 BY: ROBERT BALL DISTRICT CONSVST.
 DOYLE SOMMER CONSV. TECHNICIAN
 MICHAEL GARGAC DIST. TECHICIAN

REFERENCE: FIELD NOTES ARE ON FILE IN FOLDER NO. 131 AT THE OTTAWA SOIL & WATER CONSERVATION DISTRICT OFFICE OAK HARBOR, OHIO

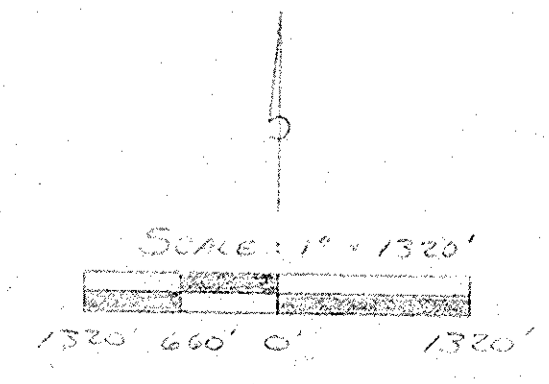
SUPPLEMENTING DATA

- DRAINAGE AREA 100 ACRES
- DESIGN COEFFICIENT 1/24 HRC
- LAND USE GENERAL & CASH CROPS
- SOIL TYPES FULTON, TOLEDO, & LUCAS
- LAND SLOPE 0-2 %
- TYPE DRAINAGE SURFACE & TILE

SOILS MAP



- 9176 A-1: FULTON SILTY CLAY LOAM
- 9188 A-0: TOLEDO SILTY CLAY
- 9176 A-0: TOLEDO SILTY CLAY LOAM
- 9186 B-2: LUCAS SILTY CLAY LOAM



PROPERTY OF OTTAWA COUNTY ENGINEERS OFFICE

APPROVED BY: [Signature]
 OTTAWA COUNTY EN. NEER
 [Signature]
 BENTON TWP. TRAIL TEES

JOB CLASS V GROUP # 131

OUTLET DITCH IMPROVEMENT
 ROLLA TANK
 SECTION 6, 7, 8, 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, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

U. S. DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE

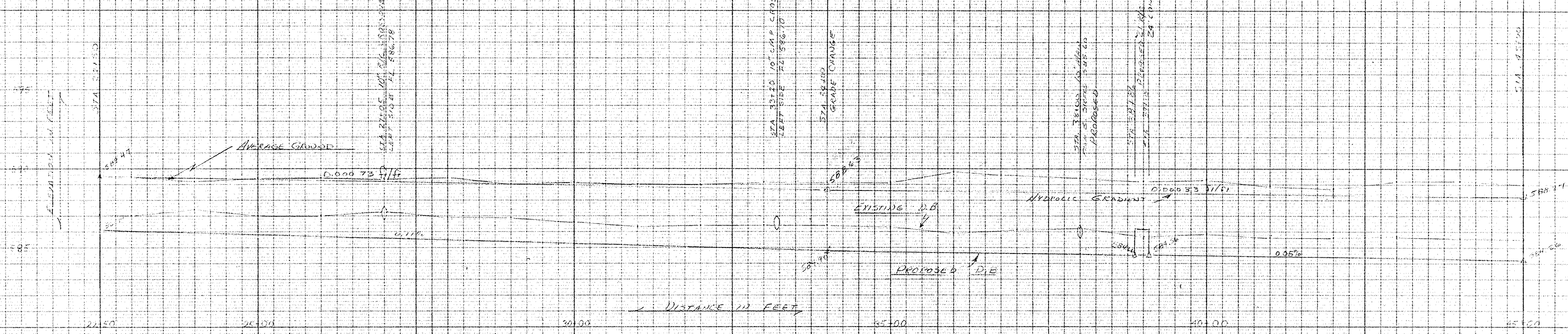
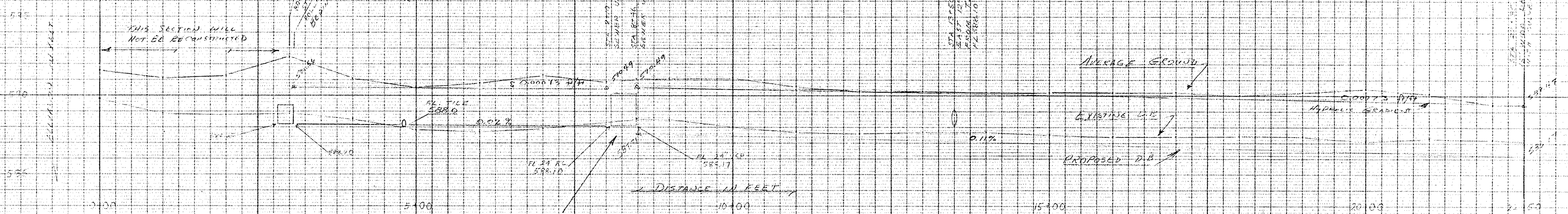
Date: 10-22-77
 Approved by: [Signature]
 Title: Agricultural Conservation Specialist
 Drawn: [Signature]
 Title: [Title]
 Sheet: [Number]
 Drawing No: 37-01-383-78-1

PROPERTY OF OTTAWA COUNTY ENGINEERS OFFICE

BM #1 TOP OF BELL ON SOUTH END OF
27" V&P THRU NW RR AND
35 FT WEST OF NISSEN RD.
MSL ELEV. 590.25

BM #2 PAINTED "X" ON SOUTH
END OF 24" R/C SEWER THRU
NW RR AND 20 FT EAST OF
NISSEN RD.
MSL ELEV. 589.95

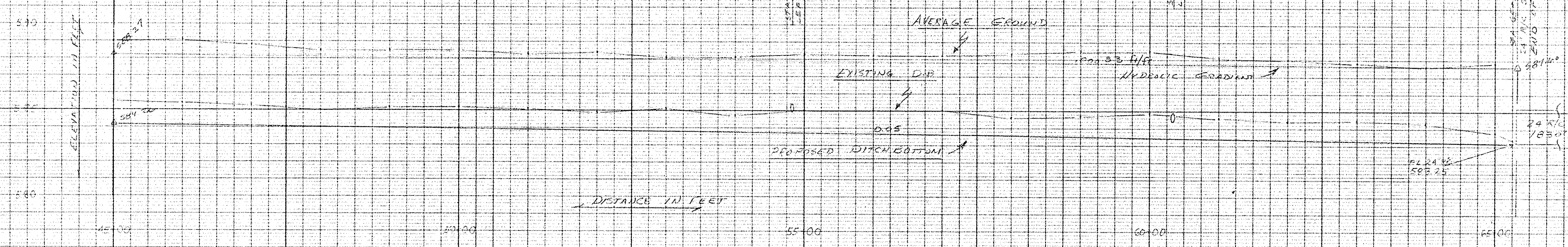
BM #3 TOP OF SOUTH END OF 10" CMP CROSSOVER
THRU WALLERIDGE RD. APPROX. 2000 FT
EAST OF NISSEN RD.
MSL ELEV. 587.02



DESIGN SURVEY			
ROLLA TANK DITCH "131"			
SEC. 7 BENTON TWP. OTTAWA CO.			
U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE			
Designed by JIM ANDERSON	Date 11/77	Approved by A. M. B.	Title
Drawn AUGUST WAGNER	Date 10/77	Title	
Traced	Sheet No. 2	Drawing No.	
Checked Mike Morrison	of	37-01-383-78-1	

BM 4 CHISEL POINT ON SOUTHWEST
 CORNER OF CONCRETE CATCH
 BASIN IN SOUTHWEST CORNER
 OF INTERSECTION OF ELLISTON
 TROWBRIDGE RD. AND WA BRIDGE
 RD. M.S.L. ELEV. 588.47

NOTE: THE 1800' OF 24"
 SEWER HAS CAPACITY
 FOR 1' ENJOFF FROM
 THE WATER SHED



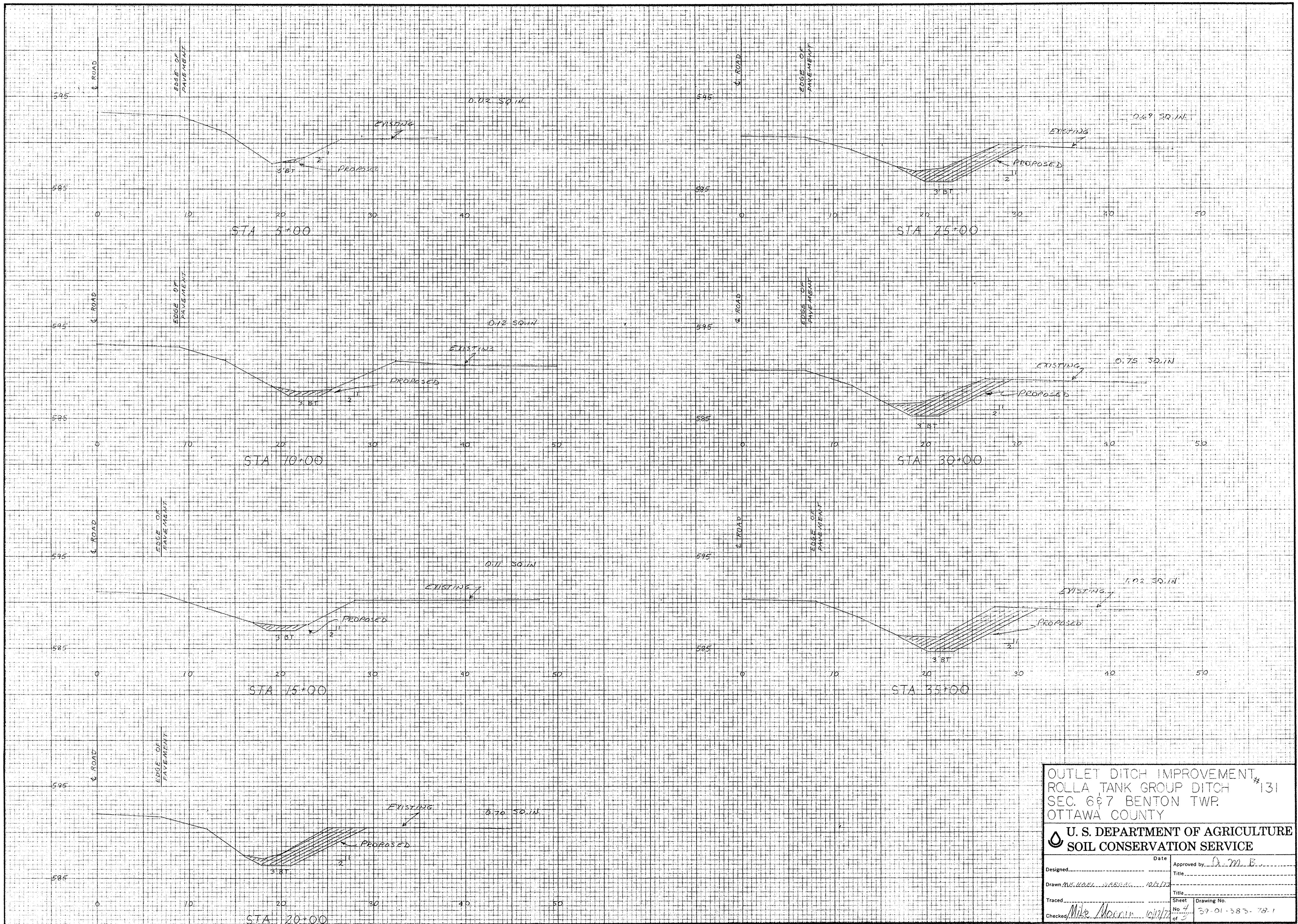
YARDAGE TABLE

STA.	SR. IN.	AVE SR. IN.	Cu. YD.	Dist.	Yardage
0+00					
2+85					
3+05	.023	.023	.02	195	4
5+00	.023	.023	.02	310	6
8+10	.023				
8+46	.12				
10+00	.12	.12	0.1	154	17
15+00	.11	.11	0.1	500	50
20+00	.70	.403	0.4	500	188
25+00	.69	.695	0.7	500	323
30+00	.75	.72	0.7	500	335
35+00	1.02	.887	0.8	500	412
40+00	.90	.96	0.9	500	446
45+00	.73	.815	0.8	500	379
50+00	.61	.67	0.6	500	312
55+00	.62	.615	0.4	500	286
60+00	.87	.755	0.7	500	351
65+00	.31	.26	0.6	500	279
65+27	.31	.31	0.3	27	8
TOTAL			6186	3396	

DESIGN SURVEY
 ROLLA TANK DITCH #131
 SEC. 7 BENTON, TWP. OTTAWA CO.

U. S. DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE

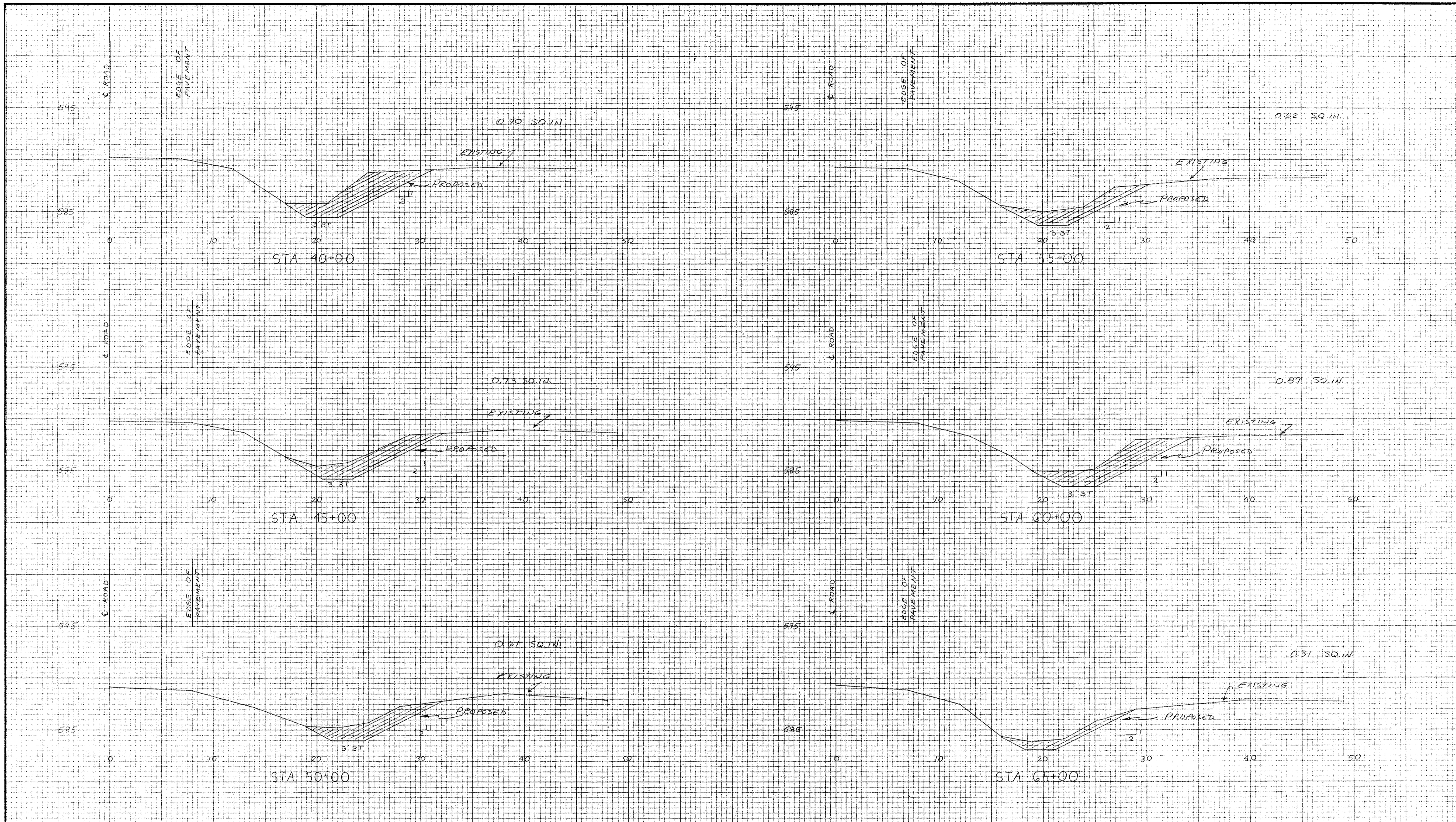
Designed by Dwight Summers Date 10/77 Approved by A. M. K.
 Drawn by MICHAEL CASAR Title _____
 Traced _____ Sheet _____ Drawing No. _____
 Checked Mike M... No. 5 of 5 37 01-383-78-1



OUTLET DITCH IMPROVEMENT #131
 ROLLA TANK GROUP DITCH
 SEC. 6 & 7 BENTON TWP.
 OTTAWA COUNTY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Designed.....	Date.....	Approved by.....
Drawn <i>W. H. H. H. H.</i>	10/1/77	<i>D. M. E.</i>
Traced.....	Sheet.....	Title.....
Checked <i>Mike Moran</i>	No. <i>4</i>	Drawing No. <i>39-01-383-78-1</i>
	of <i>3</i>	



OUTLET DITCH IMPROVEMENT
 ROLLA TANK GROUP DITCH #131
 SEC. 6 & 7 BENTON TWP.
 OTTAWA COUNTY

U. S. DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE

Designed _____	Date _____	Approved by <u>D.M.B.</u>
Drawn <u>MUSIARI, GABRIEL</u>	Title _____	
Traced _____	Title _____	
Checked <u>Mike Mancini</u>	Sheet <u>12/12/12</u>	Drawing No. _____
	No. <u>5</u>	39-01-383-78-1
	of <u>5</u>	