

**Drain:** SCHNEIDER ? PERCE      **Drain #:** 100  
**Improvement/Arm:** JACOB SCHNEIDER EXTENSION  
**Operator:** J. L. LIVINGSTON      **Date:** 6-4-1981  
**Drain Classification:** Urban/Rural      **Year Installed:** 1981

### GIS Drain Input Checklist

- Pull Source Documents for Scanning
- Digitize & Attribute Tile Drains
- Digitize & Attribute Storm Drains
- Digitize & Attribute SSD
- Digitize & Attribute Open Ditch
- Stamp Plans
- Sum drain lengths & Validate
- Enter Improvements into Posse
- Enter Drain Age into Posse
- Sum drain length for Watershed in Posse
- Check Database entries for errors

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**Gasb 34 Footages for Historical Cost  
Drain Length Log**

Drain-Improvement: SCHWEIDER & PIERCE - JACOB SCHWEIDER EXT.

Drain Type:	Size:	Length	Length (DB Query)	Length Reconcile	If Applicable	
					Price:	Cost:
<b>ARM 1</b>						
OPEN DITCH	-	1600'	1600'		19.55/lf	31,280. <sup>00</sup>
<b>ARM 2</b>						
TILE	8"	2050'	2050'		2.00/lf	4100. <sup>00</sup>
	10"	650'	650'		3.00/lf	1950. <sup>00</sup>
OPEN DITCH	-	250'	250'		19.55/lf	4887. <sup>50</sup>
<b>ARM 3</b>						
TILE	8"	550'	550'		2.00/lf	1100. <sup>00</sup>
OPEN DITCH	-	90'	90'		19.55/lf	1759. <sup>50</sup>
WELDING, CLEARING, RIP RAP, TILE OUTLETS, TILE REPAIR, ETC.						6,027. <sup>50</sup>

Sum: 5190' 5190' \$ 51,104.<sup>50</sup>

Final Report: 5190'

Comments:

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SURVEYOR'S OFFICE  
**Hamilton County**

Kenton C. Ward, Surveyor

773-6110 Ext. 19

Noblesville, Ind. 46060 October 1, 1981

To: Hamilton County Drainage Board

Re: Schneider-Pierce Drain

On April 10, 1981 Mr. Morris Stern submitted a petition to extend the Jacob Schneider Drain. At that time I found the petition to be in the correct form and it was forwarded to the Board at its May 4, 1981 meeting. (See Drainage Board Record 1, Page 412.)

The location of this extension is shown in red on the attached map and is described as Arms 1, 2 and 3 of the Jacob Schneider Drain. These descriptions are as follows:

ARM #1

Arm #1 begins as an open ditch 800 feet east and 850 feet south of the northwest corner of section 21-19-5 and runs north 100 feet, thence north westerly 700 feet to a point 600 feet south of the northwest corner of section 21-19-5, thence in a northwesterly direction 800 feet entering the Schneider Ditch at a point 400 feet west of the above said corner.

ARM #2

Arm #2 commences at the beginning of an 8" tile drain at approximately 500 feet east and 750 feet south of the northeast corner of the northwest quarter of section 21-19-5 and runs in a southwesterly direction for 200 feet. Tile

then runs in a general northwesterly direction approximately 350 feet to a point about 900 feet south of the above named quarter corner. Thence in the same general direction approximately 1500 feet to a point about 350' south of the intersection of Creek Road and 206th Street where said tile is a 10 inch clay tile. Thence in a southwesterly direction 650 feet to an open ditch. Thence southwesterly in the open ditch 250 feet, to its intersection with Arm #1.

ARM #3

Arm #3 begins in an 8" tile 450 feet east and 1320 feet south of the northwest corner of section 21-19-5. Tile then runs north 550 feet to the tile outlet, thence north 90 feet, in an open ditch to its intersection with Arm #1.

The lengths of these Arms are as follows:

Arm #1	1600 feet
Arm #2	2950 feet
Arm #3	<u>640 feet</u>
Total	5190 feet

The proposed tile and open drains are for the most part in good condition. The following work, which is shown on the attached plans, is needed to be done to place the drains in better working order. The cost of such work is also shown.

ARM #1

Dredge 200' of open ditch @ \$2.00/ft	\$ 400.00
Place 20' of 10" CMP on outlet of 8" tile	
Material 20' 10" CMP @ \$8.00/ft	160.00
1-10" Animal Guard	10.00
Labor	50.00
Place 7" or 9" riprap around outlet	
Material .5 cu yd @ \$25.00/cu yd	12.50
Labor	50.00
Seeding 0.1 ac @ \$200.00/ac	20.00
Clear & remove any obstructions in the open ditch-1400ft	<u>200.00</u>
Total for Arm #1	902.50

ARM #2

Repair blow hole at Sta 2+90	
Material 6' of 10" tile @ \$3.50/ft	\$ 21.00
Labor	50.00
Dredge 175 feet of open ditch @ \$2.00/ft	350.00
Place 12" CMP on tile outlet	
Material 20' of 12" CMP @ \$10.00/ft	200.00
1-12" animal guard	12.00
Labor	50.00
Riprap around outlet	
Material 0.5 cu yd @ \$25.00/cu yd	12.50
Labor	50.00
Riprap at intersection of Arms 1 & 2	
Material 5.5 cu yd @ \$25.00/cu yd	137.50
Labor	100.00
Seeding 0.1 ac @ \$200.00/ac	20.00
Fill another foot over tile by scalping hill	<u>200.00</u>
Total for Arm #2	1203.00

ARM #3

Dredge 90' of open ditch @ \$2.00/ft	160.00
Place 20' of 10" CMP on tile outlet	
Material - 20' of 10" CMP @ \$8.00/ft	160.00
Animal Guard	10.00
Labor	50.00
Riprap at outlet	
Material 3.5 cu yd @ \$25.00/cu yd	87.50
Labor	50.00
Riprap north bank at intersection Arms 1 & 3	
Material 3.5 cu yd @ \$25.00/cu yd	87.50
Labor	50.00
Seeding 0.1 ac @ \$200.00/ac	<u>20.00</u>
Total for Arm #3	675.00

The total cost for the work needed on the proposed Arms is \$2780.50.

In 1979 John South, District Engineer for the Soil Conservation Service, put together a plan for a rock chute structure and ditch dredging at the

700A  
outlet of the tile portion of the Jacob Schneider Drain. This plan was put aside at that time because of work which was needed to be done in this area by Perfecto Mfg. Inc. The work was necessary because of a severe erosion problem caused by Perfecto. If the rock chute and dredging was done before Perfecto solved its problem the siltation which would occur would destroy it in short order. At this time Perfecto has done the necessary work and I believe its now time to do the dredging and construct the rock chute.

The plans and cost estimate for this work is attached. In short the work consist of dredging 700' of open ditch, constructing a rock chute structure and cleaning out and reshaping the existing grass waterway. The latter item amounts to approximately 200' in the location of silt build up. The cost estimate for the work is \$3,400.10.

The section between the Benagh property and 206th Street has no work planned at this time. This is because of the great amount of grade in the ditch through this section. There is a good possibility of causing severe problems if work is done through this area.

The ditch along 206th Street has areas of erosion which varies from mild to severe. This problem began when the channel was cut into a hillside in several places to keep it away from the county road. This has resulted in severe bank erosion in several places. The banks are steep, shaded and unprotected. Subsoil is exposed making plant growth difficult. Some trees in the channel have caused the ditch to meander and water from a 3' culvert pipe is causing bank erosion opposite from the pipe outlet. The soils in this area are shoals silt loam 0-2% slopes, moderately dark colored and somewhat poorly drained.

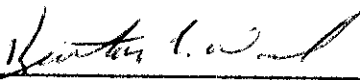
The solution to the problem is to remove the trees and other obstructions to provide more sunlight and reduce the meandering of the channel. Banks less than 4 foot in height should be resloped to a 2:1 bank and seeded with tall fescue and prenniel rye grass. Banks which are more than 4 feet should be left undisturbed and should have crown vetch plants planted on them. This should be done by seeding the slope with 1 lb per 1000 sq ft of prenniel rye fertilizer first. Then bank should be covered with an erosion control fabric which would last from 3 to 6 months. Then the crown vetch plants should be planted every 2 ft. 12-12-12 Fertilizer should be put on both types of plantings at a rate of 15 lb per 1000 sq ft. The opposite bank from the culvert should be ripraped with 15 tons of 9 inch graded riprap. The stone should extend 20 feet, 4 feet high and 1.5 feet thick. Also place riprap around the inlet and outlet of the culvert using approximately 1 cu yd of riprap. At the north end of the culvert a joint has spread causing a hole to appear near the road surface. Bats and concrete should be used to repair the crack.

The cost estimate for this work is as follows:

Repair of culvert	\$ 50.00
Clearing 0.5 @ \$200.00/ac	100.00
Reshaping 700 ft of bank @ \$1.00/ft	700.00
Seeding 18000 sq ft @ \$5.00/1000 sq ft	90.00
Crown Vetch Plants 550 @ \$.33/plant	181.50
Erosion control fabric 1-5' roll @ \$107.00/roll	107.00
1 box staples	14.00
Riprap 5.5 cu yd @ \$25.00/cu yd	137.50
Labor	50.00
	<hr/>
Sub-Total	\$1430.00
10% Contingency	143.00
Total	<hr/> \$1573.00

The total cost of work needed on all three areas comes to \$7753.60. The drainage area consists of 1080.86 acres and 63 lots. At an assessment of \$6.85 per <sup>Acres</sup>lot with a \$6.00 minimum assessment the reconstruction can be completed.

I recommend to the Board that a reconstruction and extention hearing be set for January 4, 1982.

  
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Kenton C. Ward, Surveyor

KCW/jg





SURVEYOR'S OFFICE  
**Hamilton County**

*Kenton C. Ward, Surveyor*

773-6112 Ext. 19

*Noblesville, Ind. 46060* July 27, 1982

TO: Hamilton County Drainage Board

RE: Schneider-Pierce Drain

On July 26 I made the final inspection on the reconstruction work on the Schneider-Pierce Drain done by Taylor Excavating, . At that time I found the work to be complete and acceptable.

At present 85% of the contract price, or \$4,563.86 has been paid.

Attached is a claim for extra work (see letter dated July 22, 1982) in the amount of \$608.25 which should be approved by the Board. The 15% retainer, \$855.39, will be paid on September 7, 1982.

Upon payment of the claims the total cost of the project will be \$6,027.50, which is below my estimate of \$6,187.88. Taylor has submitted his statement stating that all expenses incurred has been paid.

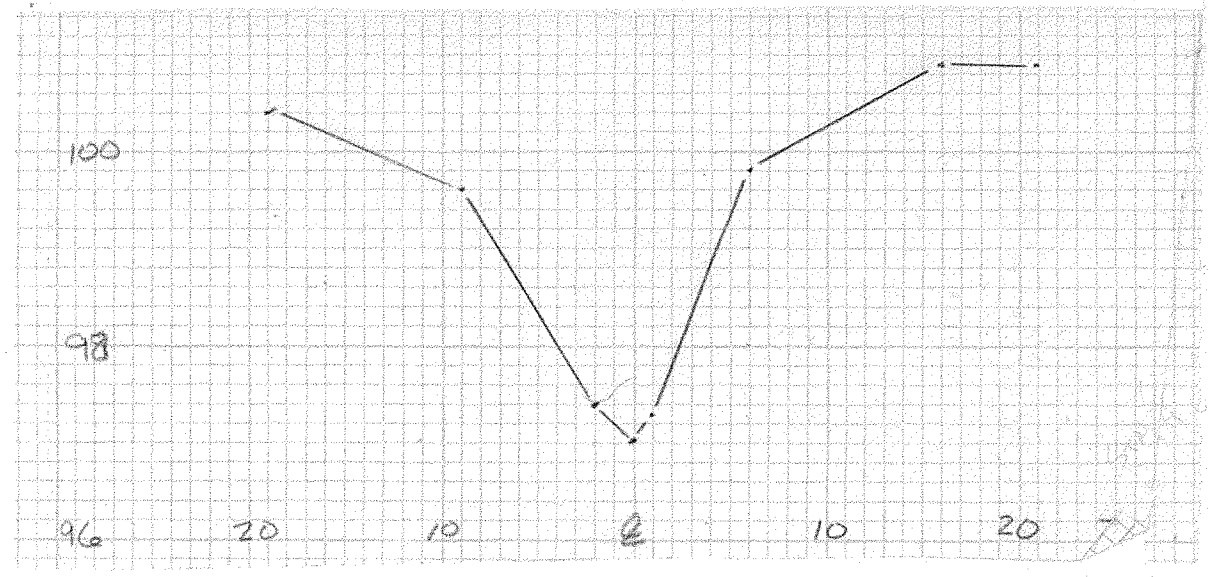
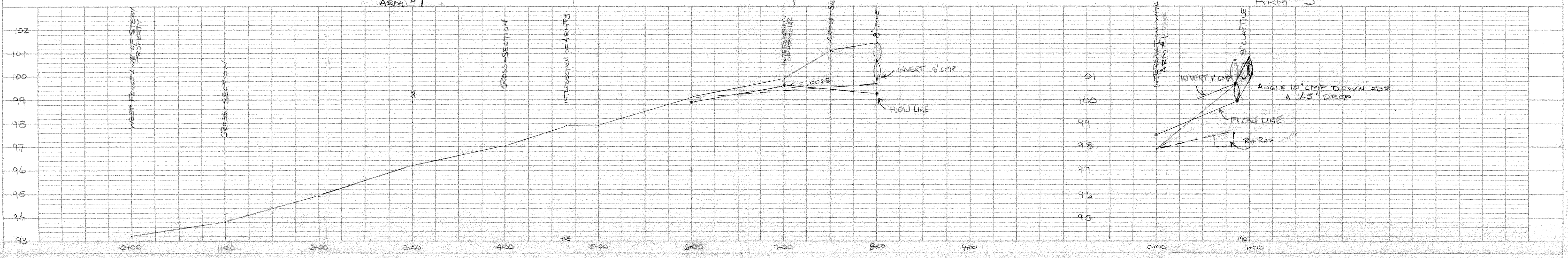
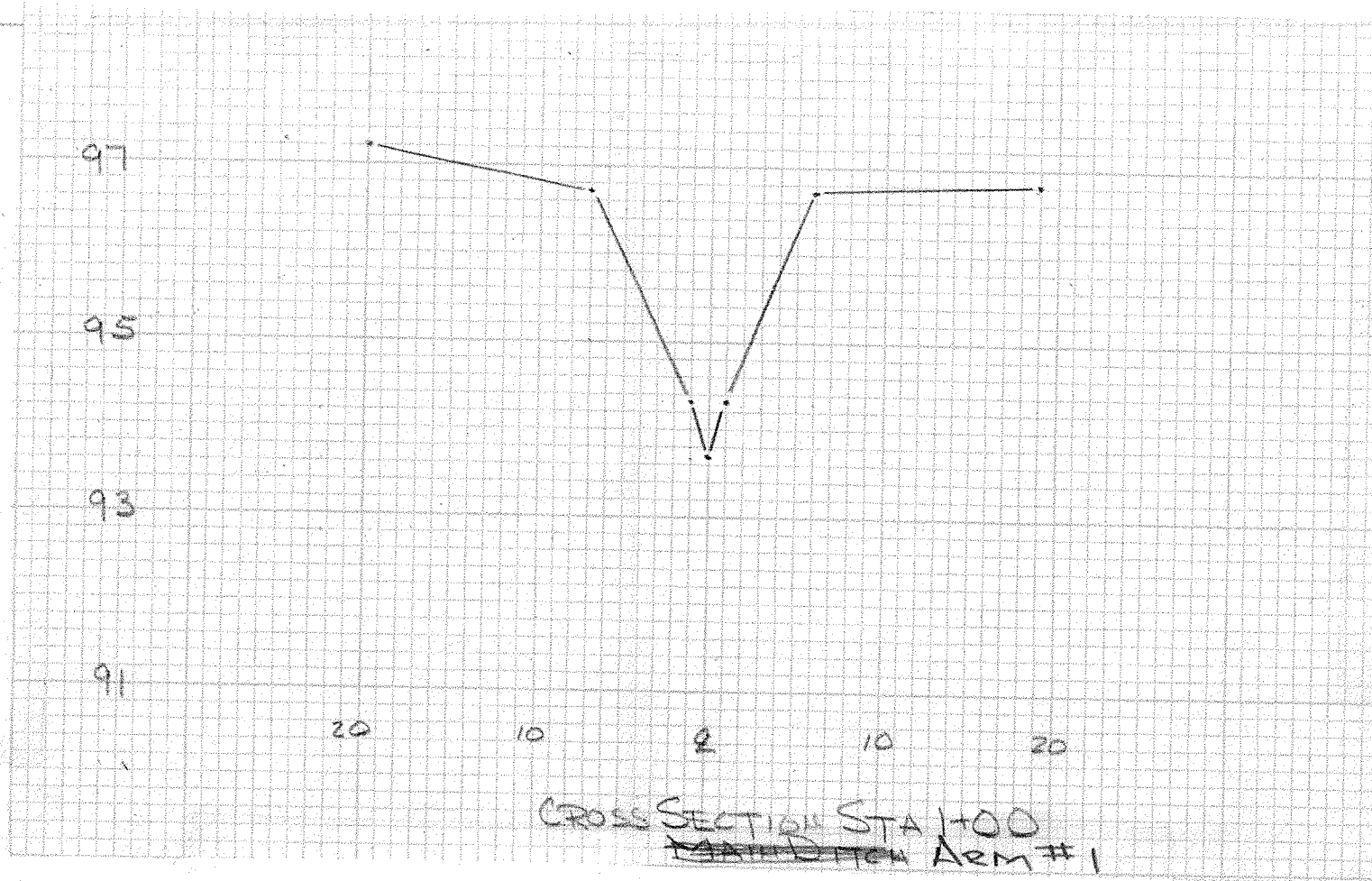
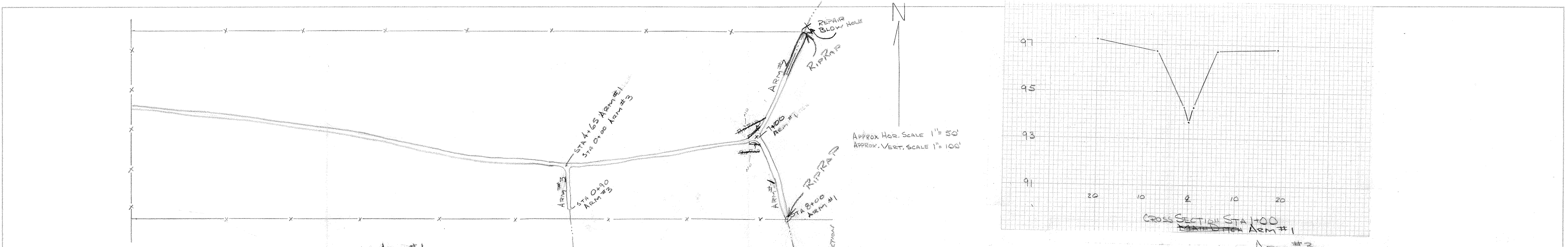
KCW/no

*Kenton C. Ward*  
Kenton C. Ward-County Surveyor

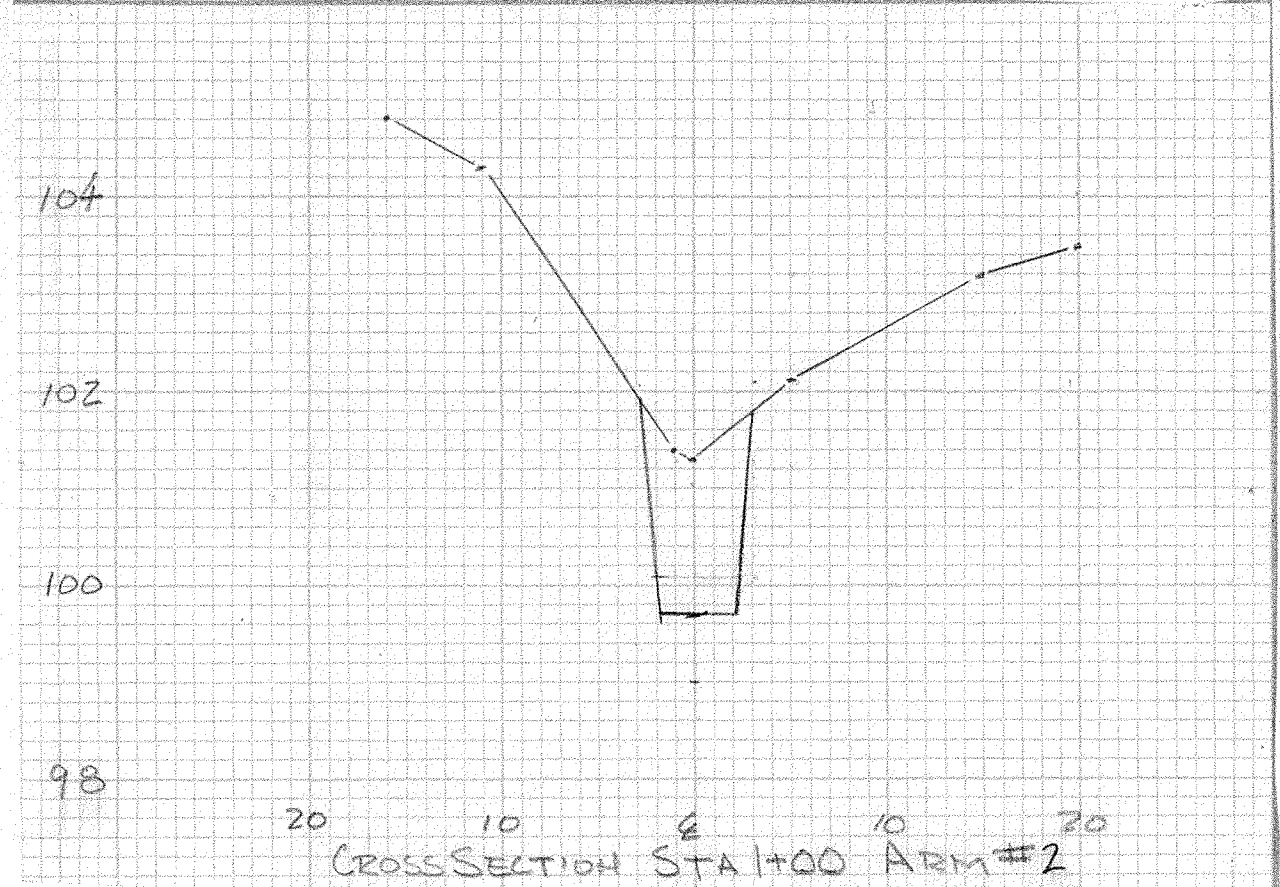


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 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
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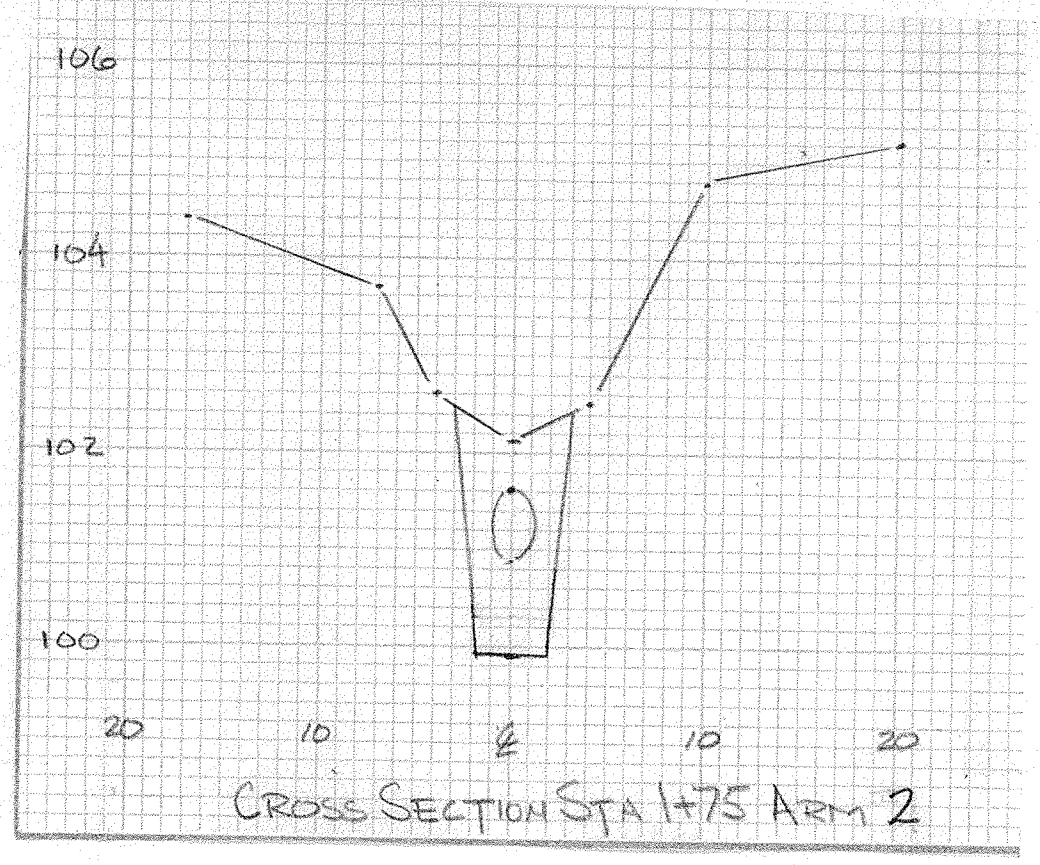
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 BY: KLV  
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 PLANNED: 12-22-90  
 NOTE BOOK: KLV  
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CROSS-SECTION STA 4+00 ARM #1 DITCH

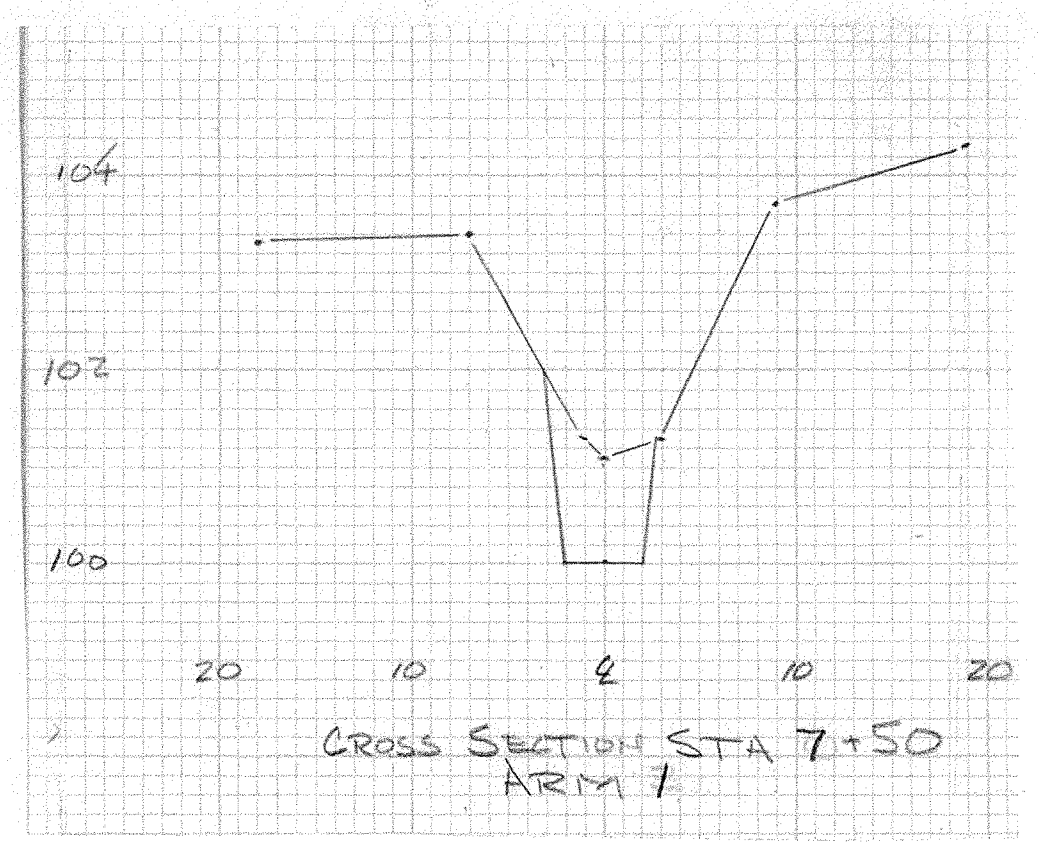


CROSS-SECTION STA 1+00 ARM #2

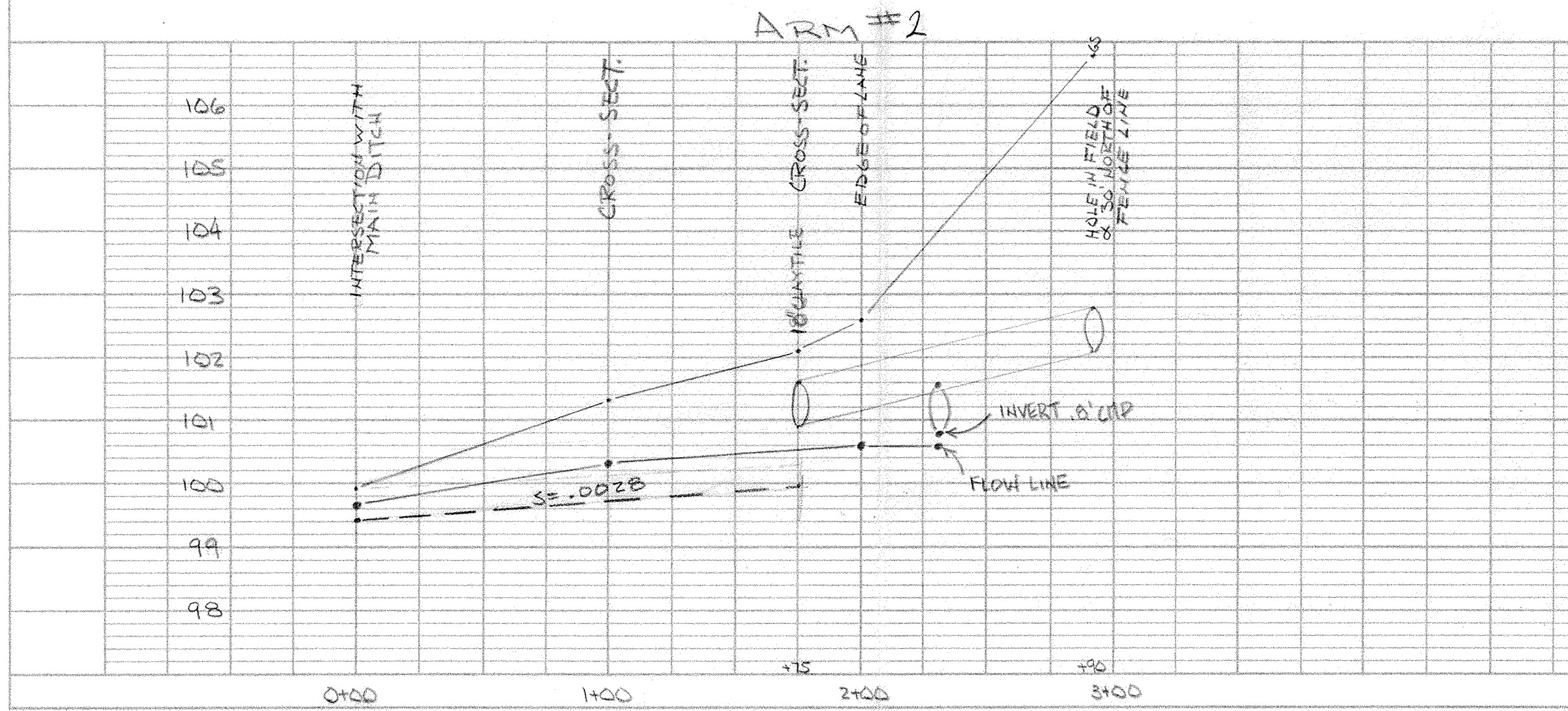


CROSS-SECTION STA 1+75 ARM #2

NOTE: NEW OPEN DITCH ON ARMS 1 AND 2 TO HAVE 4 FOOT BOTTOM WIDTHS AND 2:1 SIDE SLOPES. ARM 3 TO HAVE 4 FOOT BOTTOM WIDTH WITH SIDE SLOPES TO MATCH EXISTING.



CROSS-SECTION STA 7+50 ARM #3



ARM #2

STERN ARMS TO JACOB SCHNEIDER DRAIN  
 BM #1 - ELEV 100.00 - PK NAIL IN FENCE POST 100' NORTH STA 0+50 OF ARM #1  
 BM #2 - ELEV 105.8 - PK NAIL IN TREE EAST STA 1+50 OF ARM #2

JACOB SCHNEIDER DRAIN

This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.

Entry Date: 6-4-01

Entered by: *[Signature]*