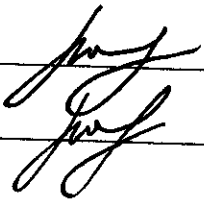




Drain: ELIZABETH LYNCH **Drain #:** 121
Improvement/Arm: RECONSTRUCTION/ARM 1 TO ARM 1
Operator: J. LIVINGSTON **Date:** 3-16-04
Drain Classification: Urban (Rural) **Year Installed:** 1993


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











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

RECONSTRUCTION /

Drain-Improvement: ELIZABETH LYNCH - ARM 1 TO ARM 1

Drain Type:	Size:	Length	Length (DB Query)	Length Reconcile	Price:	Cost:
TILE	6"		348'			
	8"		1182'			
SWALE 2605'	—		0'			
GRASS WATERWAY 750'			0'			
OPEN DITCH	—	1350'	1350'			

ARM 1 TO ARM 1

Sum: 2880' \$25,575.00

Final Report: _____

Comments:



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor
 776-9626 776-8495

One Hamilton County Square, Ste. 146
 972 Maple Avenue
 Noblesville, Indiana 46060

August 31, 1992

TO: Hamilton County Drainage Board

RE: Elizabeth Lynch Drain Revised Report

The following is a revision of my report to the Board dated June 10, 1992. This is being submitted based on the changes by the Board at the August 17, 1992 reconstruction hearing. Except as noted below, the report of June 10, 1992, shall remain as presented.

The first changes are to the cost estimate for the proposed Arm 1 to Arm 1. The size of the tile has been found to be an 8" instead of a 10" as shown in my original report. This will not, however, change the unit cost shown in my original estimate. Although not stated in the original report was the cleaning out of the culvert under State Road 19. This was originally included in the cost of waterway. However, this should be broken out of the estimate as a cost of \$200.00, lump sum. The revised cost estimate for this portion of the work is as follows:

2x2 Concrete Box	2	@ 800.00 each	\$1600.00
Waterway	850'	@ \$2.00/ft	1700.00
8" Concrete Tile	300'	@ \$10.00/ft	3000.00
Grass Swale	250'	@ 2.50/ft	625.00
Solid Manhole Lid	1	@ 300.00 each	300.00
Beehive Casting	1	@ 300.00 each	300.00
Repair of Driveway		LS	300.00
Seeding	1ac	@ 600.00/acre	600.00
Tile Location		LS	400.00
Clean out of Culvert		LS	200.00
		Sub Total	9025.00
		10% Cont.	903.00
		Total	\$9928.00

The change proposed on the new open ditch across the Beck property is the crushing of the existing tile. This shall be accomplished by excavating the existing tile. If a private drain is found the location will be marked and Mr. Beck notified. It will be Mr. Beck's responsibility to extend the tile to the new open ditch. I estimate this cost to be approximately 800 feet at \$2.00 per foot. The revised cost estimate for this section is as follows:

Dredging	1350ft @ \$5.00/ft	\$6750.00
Inline Structure	1 @ \$2000 each	2000.00
Rock Chute STR	1 @ \$2500.00	2500.00
Clearing	2ac @ \$1200.00/ac	2400.00
Seeding	3ac @ \$200.00/ac	600.00
15" CMP	20' @ \$21.00/ft	420.00
15" Animal Guard	1 @ \$40.00/each	40.00
10" CMP	20' @ \$18.00/ft	360.00
10" Animal Guard	1 @ \$30.00 each	30.00
Silt Traps	2 @ \$200.00 each	400.00
Crush Existing Tile	800ft@ \$2.00/ft	1600.00
	Sub Total	\$17,100.00
	10% Cont.	1,710.00
	Total	\$18,810.00

The revised cost estimate for the total project is as follows:

Section 1	9928.00
Section 2	18,810.00
	<u>28,738.00</u>

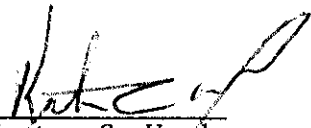
Maintenance costs per acre are to remain the same at \$2.00/ac. The minimum, instead of the proposed \$10.00, is to be set at \$5.00.

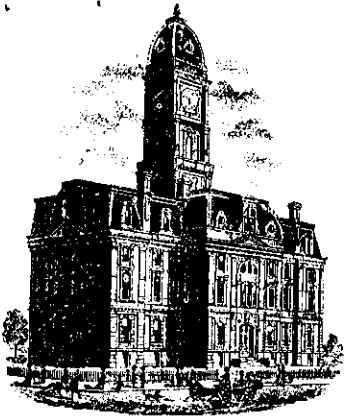
The reconstruction assessment is to remain the same at \$44.10 per acre. However the minimum assessment of \$500.00 is to change for each tract currently assessed the \$500.00 minimum. These tracts are to be assessed the additional cost plus have the minimum prorated for each tract based on the percentage of the number of acres benefited in tract versus the total number of acres in tract. A total of \$12,783.00 is assessed in acreage. This leaves a total of \$21,462.00 to be raised from the tracts originally assessed the \$500.00 minimum. I have also included those tracts which would be assessed below the new minimum. Therefore, the new minimum based on acreage factor of 23.8 is 902.00/acre.

I have also shown the Board two (2) other possibilities for assessment. The first is by assessing Bell and Davis at \$1000.00 each due to the additional benefits recieved, using the true benefited acreage for those other than Bell and Davis who were assessed at the \$500.00 minimum, leaving the acreage assessment as is the assessment is 193.00/ac without a minimum. The second is shown at a rate derived by taking all benefited acreage divided into total costs. This is shown as \$85.00 per acre without a minimum.

If the Davis and Bell properties are raised to \$2000.00 each the assessment will be \$168.00 per acre. If these properties are not assessed additional benefits then the assessment will be \$212.00 per acre.

If the Board has any SPECIFIC recommendation as to how this should be assessed, then I would be happy to revise the figures. Otherwise, I suggest a new hearing notice be sent out based on one of the above options.


Kenton C. Ward,
Hamilton County Surveyor



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

One Hamilton County Square, Ste. 146

776-9626 776-8495

942 Maple Avenue

Noblesville, Indiana 46060

June 10, 1992

TO: Hamilton County Drainage Board

RE: Elizabeth Lynch Drain

Attached is a petition for reconstruction, drainage shed map, plans and assessment schedule for the Elizabeth Lynch Drain. The plan consists of two (2) sections. The first section is the reconstruction of a portion of the main drain from tile to an open drain.

The first section of this project involves a new open ditch across the Beck property, 03-18-00-00-001.000 and 03-18-00-00-002.000. This work will abandon the existing tile and open ditch and re-route the regulated drain as an open ditch along the open South toe of slope to Big Cicero Creek. The new drain will begin at approximately STA 11+00 of the original ditch and that portion of the original drain between STA 11+00 to 23+86 will be abandoned. The new drain shall run from STA 11 (shown as STA 13 on plan) to Big Cicero Creek in 1350 feet of new open ditch.

The cost of this work is as follows:

Dredging	1350ft @ \$5.00/ft	\$ 6750.00
Inline Structure	1 @ \$2000.00 each	2000.00
Rock Chute STR	1 @ \$2500.00 each	2500.00
Clearing	2ac @ \$1200.00/ac	2400.00
Seeding	3ac @ \$200.00/ac	600.00
15" CMP	20' @ \$21.00/ft	420.00
15" Animal Guard	1 @ \$40.00/ea	40.00
10" CMP	20' @ \$18.00/ft	360.00

10" Animal Guard	1 @ \$30.00 ea	30.00	Silt
Traps	2 @ \$200.00 ea	400.00	
		SUBTOTAL	\$15500.00 10%
		Cont.	1550.00
		<u>TOTAL</u>	<u>\$17050.00</u>

The second portion is the extension of Arm #1.

Arm #1 of the drain as originally described in the 1909 report to the Commissioners will be extended by an existing tile. This tile appears to be in good condition and upon inspection it has been determined to have good flow. This tile appears to intersect Arm #1 at or near STA 3+50 of Arm #1, which is approximately STA 26+00 on the Attached Plan. The existing tile then runs in a Southwesterly direction crossing the South line of the NE 1/4 of Section 13, T 20N, R 4E at a point approximately 650 feet West of the SE Corner of said 1/4 section. The tile then runs in a SW direction to an existing 24x36 CMP culvert under State Road 19. This tile then crosses State Road 19, running in a Southwesterly direction, the tile now runs under the residence owned by Kenneth & Linda Bell, 02-13-04-01-003.000 and enters the property of Philip and LaVonne Etchinson, 02-13-00-00-018.000 at or near a point 100 feet South of the NW corner of the Bell property, said point being the end of this project.

Work to be done on this section involves the following:

Surface waterway to be constructed from STA 26+00 to STA 34+50, tile on West side of State Road #19 is to be located and a 2x2 Box Structure installed. This will be in the driveway of the Bell residence, the existing tile will flow into the structure and a new tile will be installed, running North out of the structure to the North property line of the Bell residence. This tile shall run West along the property line to the West line, thence South to the existing tile intersecting the tile at or near STA 37+57 of the attached plan. A 2x2 Structure shall be set at this point so that the downstream portion of the existing tile can be cut off, so that the tile will no longer flow under the Bell residence. A surface water swale shall be constructed along the Bell's North line to better handle the surface flow between the field to the West and the culvert under State Road #19.

This section shall become Arm #1 of Arm #1 and shall consist of approximately 1200 feet of new drain. The final description of this arm shall be set out in the final report. The cost of this arm shall be as follows:

2x2 Concrete Box	2 @ \$800.00 ea	\$1600.00
Waterway	850' @ \$2.00/ft	1700.00

10" Conc Tile	300' @ \$10.00/ft	3000.00
Grass Swale	250' @ 2.50/ft	625.00
Solid Manhole Lid	1 @ \$300.00 each	300.00
Beehive Casting	1 @ \$300.00 each	300.00
Repair of Driveway	LS	300.00
Seeding	1ac @ \$600.00/ac	600.00
Tile Location	LS	400.00
	Sub Total	<u>\$8825.00</u>
	10% Cont.	883.00
	TOTAL	\$9708.00

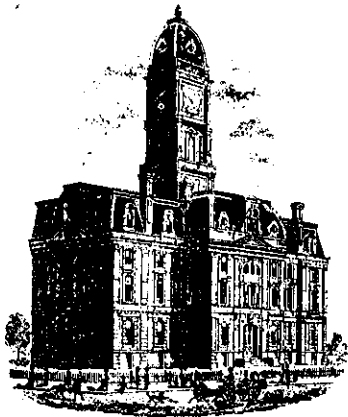
At this time the drain is set up on a maintenance program. This was done in 1980, at a rate of \$2.00/acre with a \$3.00 minimum. With 338.32 acres within the drainage shed the annual maintenance assessment is \$711.72. The current balance is \$5563.81. I recommend the dollar amount per acre remain the same with the minimum assessment increasing to \$10.00 per acre to be in line with the minimum now being established.

The total cost of this project is \$26,758.00. There are 338.32 acres within the drainage shed. Upon review of the tracts within the drainage shed and the plan, I believe each tract will benefit equally. Therefore, I recommend to the Board that the reconstruction costs be set at \$44.10 an acre with a \$500.00 minimum.

I recommend the Board set a hearing for this matter for August 1992.

Kenton C. Ward
Hamilton County Surveyor

KCW/no



SURVEYOR'S OFFICE
Hamilton County

Kenton C. Ward, Surveyor

Suite 146

776-8495

One Hamilton County Square

Noblesville, Indiana 46060-2230 September 26, 1993

TO: Hamilton County Drainage Board

RE: Elizabeth Lynch Drain

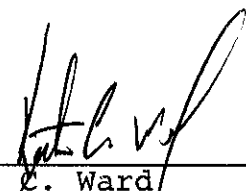
The final inspection of the reconstruction of the Elizabeth Lynch Drain has been done and the work has been found to be complete and acceptable. The work was done by John Hendricks.

One change order was sent to Hendericks on this job. It was dated May 27, 1993 and consisted of the addition of two (2) structures and elimination of Structure 2 and using material for ditch bank armoring.

The contract price was \$24,175.00 With the additional, the price increase \$1400.00 for a final cost of \$25,575.00. The cost estimate was \$28,738.00.

At this time all but the 15% retainage has been paid. This amount is \$3,836.25. Board meeting.

I recommend the Board accept the drain as complete and acceptable and approve the final payment. THE CONTRACTOR HAS SUBMITTED A STATEMENT FOR EXPENSES AND COSTS.

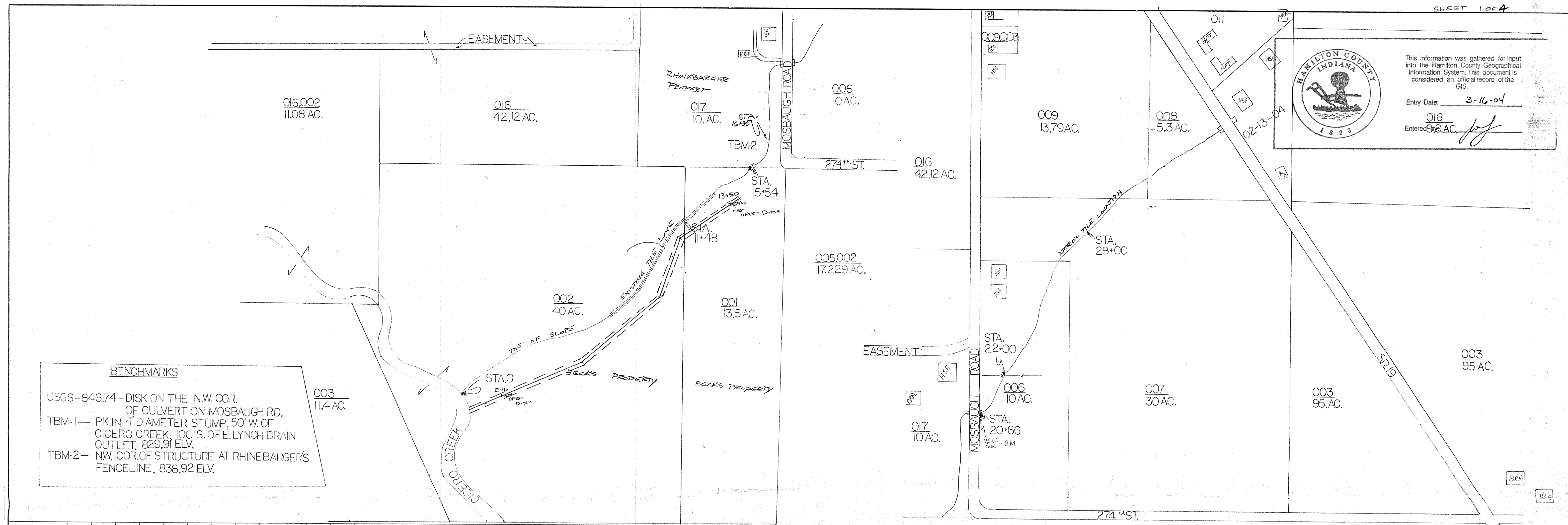


Kenton C. Ward
Hamilton County Surveyor



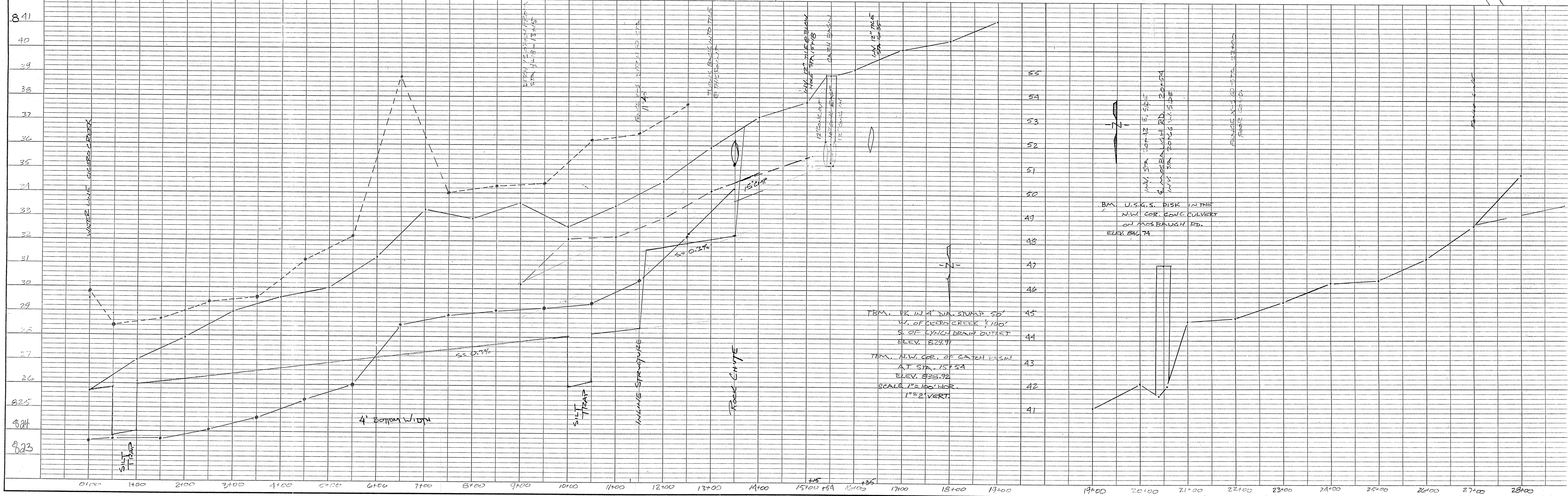
This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.
 Entry Date: 3-16-04
 Entered: [Signature]


PLAN	DATE
NOTE BOOK	BY
NO.	DATE
	BY
	DATE
	BY
	DATE



BENCHMARKS
 USGS-846.74 - DISK ON THE N.W. COR. OF CULVERT ON MOSBAUGH RD.
 TBM-1 - PK IN 4" DIAMETER STUMP, 50' W. OF CICERO CREEK, 100' S. OF E. LYNCH DRAIN OUTLET, 829.91 ELEV.
 TBM-2 - NW COR. OF STRUCTURE AT RHINEBARGER'S FENCELINE, 838.92 ELEV.

PROFILE	DATE
NOTE BOOK	BY
NO.	DATE
	BY
	DATE
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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: 3-16-04

Entered by: *[Signature]*



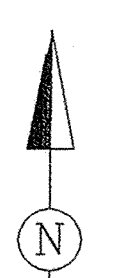
ELIZABETH LYNCH DRAIN #121

INDEX

- STORM MANHOLE (S)
- CATCH BASIN (CB)
- BREATHING (B)
- GRASS WATERWAY (---)

DATE: 8-18-98

APPROVED BY:



SCALE: 1" = 200'

[Signature]
KENTON C. WARD