







SURVEYOR'S OFFICE  
**Hamilton County**

*Kenton C. Ward, Surveyor*

*776-9626*

*942 Maple Avenue*

*Noblesville, Indiana 46060*

*April 5, 1989*

To: Hamilton County Drainage Board

Re: Bartholomew Irwin Drain

Attached are plans, calculations and a request for the reconstruction/relocation of the Bartholomew Irwin Drain. The proposed relocation will be paid for by Sunbeam Development who is the petitioner.

The relocation will begin at a point 70 feet north and 70 feet west of the SE corner of the NE $\frac{1}{4}$  of Section 31, Township 18 North, Range 5 East. This point is an outlet for a retention area for Exit Five. The new storm sewer then runs to the southeast 140 feet to a point in the southeast corner of the intersection of 121st Street and Cumberland Road. The new system runs thence east 1170 feet along the south right-of-way line of 121st Street. At that point the system will intercept the existing culvert under 121st Street in a manhole. The new system will then turn to the southeast and run 20 feet to the outlet of the new storm sewer system.

At the outlet of the new storm sewer system, an open drain will then be constructed as much as possible in the approximate location of the existing tile drain. The existing tile drain will also be located

at this point and outletted into the new open ditch. The open ditch will deviate from the tile location north of the Buckeye Pipeline and enter Sand Creek approximately 25 feet north of the Pipeline. At that point the tile will be plugged to prevent drainage entering the tile from the open ditch. All tile lines entering the open ditch shall have a 20' section of CMP one size larger than the tile and animal guard installed. Plan and profile of both the storm sewer and the open ditch are attached (See Weihe Engineers Job No. 85-2007 dated 7-19-88).

The new relocation shall consist of the following lengths:

24" RCP - 20 Feet  
12" RCP - 1310 Feet  
Open Ditch - 1800 Feet

The original Irwin Drain (1902) will be vacated from Station 0+00 to Station 5+00. The drain from Station 5+00 to Station 17+00 along with Arm 1 will remain as regulated Drain. Station 17 to Station 33 will be reconstructed as open ditch. Station 33 to Station 35+74 shall remain as regulated drain. The new length of the drain shall be 6346 feet.

Because the drainage area is rapidly becoming urbanized, I believe the drain now fits the criteria for urban drain classification as set out in IC 36-9-27-67. Therefore, I now classify the drain as an urban drain.

At this time the Irwin Drain has a balance of \$632.35. The annual assessment of \$2.00 per acre \$3.00 minimum brings in \$470.52 per year. I recommend this be increased to \$5.00 per acre with a \$25.00 minimum. This increase will bring into the Irwin Drain fund \$1,565.40 annually for maintenance.

The following tracts should be removed from the drainage shed  
for the Castetter Drain.

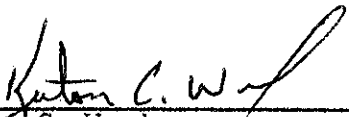
11-31-00-00-026, 1.70 Ac - 0.3 Ac assessed  
11-31-00-00-028, 183.518 Ac - 23.0 Ac assessed

These acreages assessed for the Castetter will now drain to the  
Irwin Drain because of the site grading and drainage plan for Exit  
Five.

The following tracts should have the current acres benefited to the  
Irwin Drain increased as indicated.

11-31-00-00-026, 1.70 Ac - 1.70 Ac assessed  
11-31-00-00-028, 183.518 Ac - 78.00 Ac assessed

I recommend a hearing be set for June 1989. If approved at the  
hearing, I recommend that the petitioner be given one (1) year from  
date of approval for completion and submit a performance bond or  
letter of credit for 100% of the estimate within thirty (30) days  
of approval. Said surity to run for a two (2) year period. The  
surity is to be released upon final inspection by the Surveyor and  
submittal of "As Built" drawings.

  
\_\_\_\_\_  
Kenton C. Ward,  
Hamilton County Surveyor

KCW/jh



be an eight (8") inch tile. Plan and profile of both the storm sewer and the open ditch are attached (See Weihe Engineers' Job NO. 85-2007, with latest revision, dated January 17, 1990).

The new relocation shall consist of the following lengths:

24"	RCP	20 feet
12"	RCP	1310 feet
Surface Water Swale		
with Subsurface Tile		2000 feet

The original Bartholomew Irwin Drain (1902) will be vacated from Station 0+00 to Station 5+00. The drain from Station 5+00 to Station 17+00 along with Arm #1 will remain as regulated drain. Station 17 to Station 33 will be reconstructed as a surface water swale and subsurface tile. Station 33 to Station 35+74 shall also be vacated as a regulated drain. The new length of the drain shall be 4672 feet.

Because the drainage area is rapidly becoming urbanized, I believe the drain now fits the criteria for urban drain classification as set out in IC 36-9-27-67. Therefore, I now classify the drain as an urban drain.

At this time the Irwin Drain has a balance of \$1594.15. The annual assessment of \$2.00 per acre, \$3.00 minimum brings in \$470.52 per year. I recommend this be increased to \$5.00 per acre, with a minimum of \$25.00. This increase will bring into the Irwin Drain fund \$1,565.40 annually.

The following tracts should be removed from the drainage shed for the Castetter and Randall Drain.

11-31-00-00-026,	1.70ac	0.3ac assessed ✓
11-31-00-00-028,	183.518ac	23.0ac assessed ✓

These acreages assessed for the Castetter and Randall Drain will now drain to the Bartholomew Irwin Drain because of the site grading and drainage plan for Exit Five project.

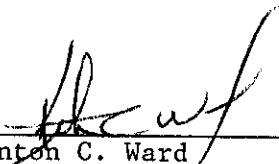
The following tracts should have the current acres benefited to the Irwin Drain increased as indicated.

14/11-31-00-00-026,	1.70ac	1.70ac assessed ✓
15/11-31-00-00-028,	183.518ac	78.0ac assessed ✓

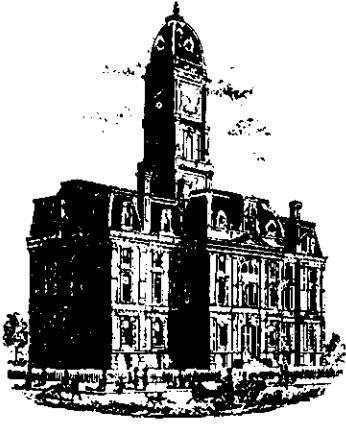
I recommend the continued hearing be set for March 19, 1990 and affected landowners be notified by mail. If approved at the hearing, I recommend that the petitioner be given six (6) months from date of approval for completion and submit a performance bond or letter of credit for 100% of

the estimate within thirty (30) days of approval. Said surity to run for a one (1) year period. The surity is to be released upon final inspection by the Surveyor and submittal of "As Built" drawings.

KCW/no

  
Kenton C. Ward  
Hamilton County Surveyor





SURVEYOR'S OFFICE  
**Hamilton County**

*Kenton C. Ward, Surveyor*

*Phone (317) 776-8495*

*Fax (317) 776-9628*

*Suite 146*

*One Hamilton County Square*

*Noblesville, Indiana 46060-2230*

To: Hamilton County Drainage Board

June 11, 1997

**Re: Bartholomew Irwin Drain-Sunbeam  
Relocation**

Attached are as-builts, certificate of completion & compliance, and other information for Sunbeam Relocation. An inspection of the drainage facilities for this section has been made and the facilities were found to be complete and acceptable.

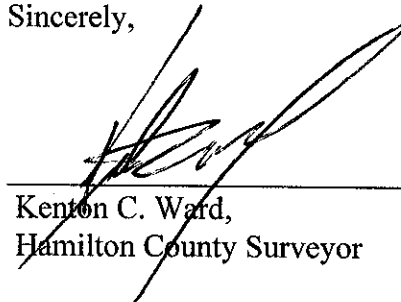
During construction of the drain there were not any significant changes made to the drain. Subsequently, there were not any significant changes made to the plans submitted with my report dated February 22, 1990. Therefore, the length of the drain remains at **4,672 feet**.

A non-enforcement was not submitted.

The bond or letter of credit from Sunbeam development was not obtained. All costs were paid for by the petitioner.

I recommend the Board approve the drains construction as complete and acceptable.

Sincerely,



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Kenton C. Ward,  
Hamilton County Surveyor

KCW/slm

### Asbuilt Structures

Project: IRWIN BARTHOLOMEW - Sunbeam Reloc.

Structure:      T.C.:    I.E.:    Pipe:    Length: Original Plans: Difference:

MES	-	812.43				
STR 1		812.50	24"	20'		
STR 1		814.0				
STR 2	822.7	814.62	12"	170'		
STR 2	822.7	814.62				
STR 3	826.0	816.32	12"	500'		
STR 3	826.0	816.32				
STR 4	826.2	818.02	12"	500'		
STR 4	826.2	818.02				
MES	-	818.5	12"	140'		

6" SSD Streets:


Total: \_\_\_\_\_

6" SSD Lots:


Total: \_\_\_\_\_

RCP Pipe Totals:

12"	1310'
24"	20'

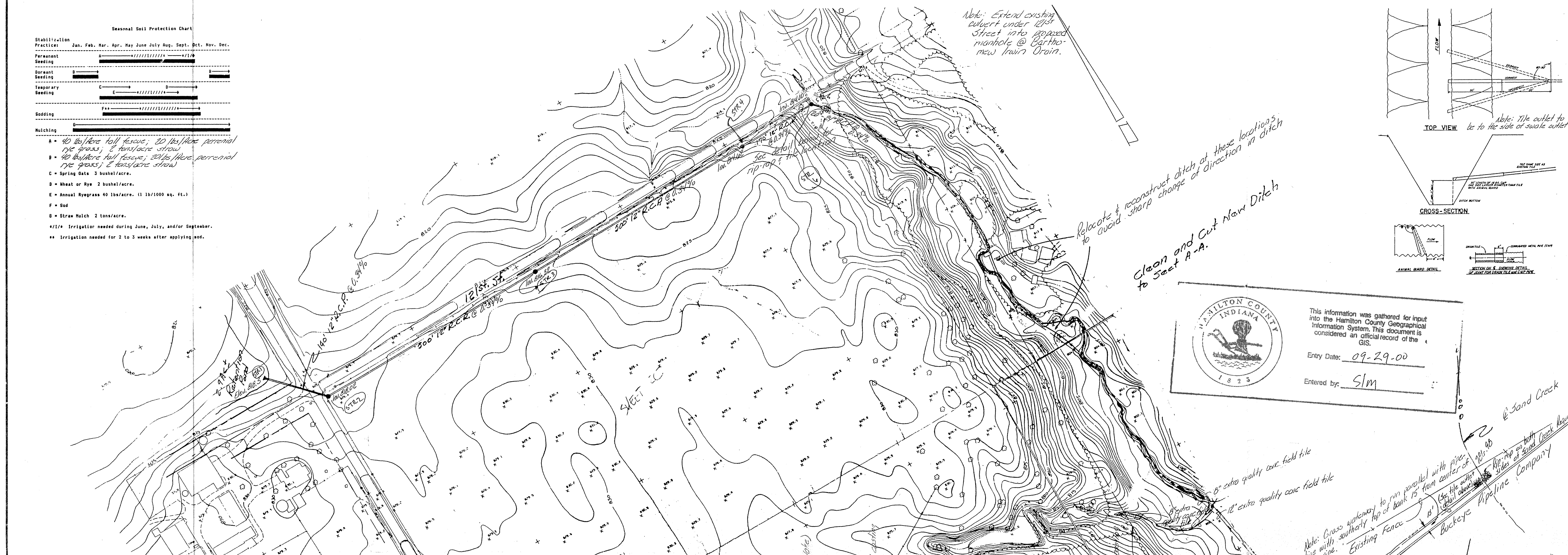
Other Drain:	

Total Length of Drain: 1330'

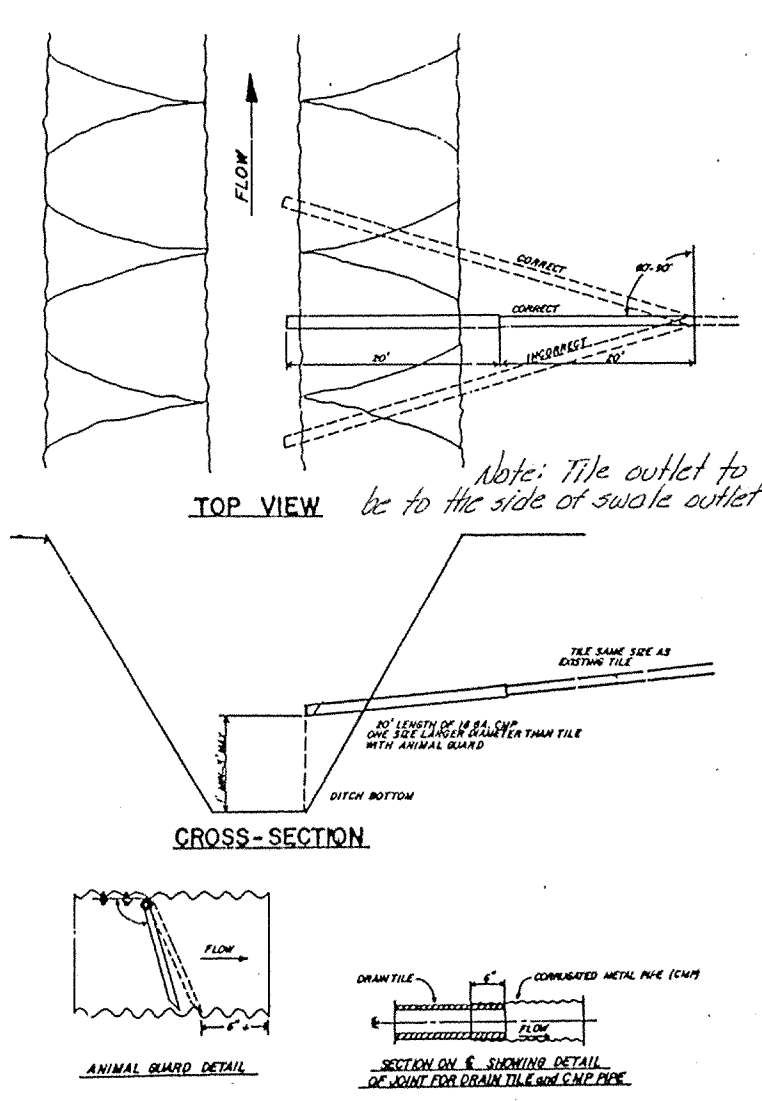
Seasonal Soil Protection Chart

Stabilization	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Permanent Seeding	[Bar chart showing coverage from Jan to Dec]											
Temporary Seeding	[Bar chart showing coverage from Feb to Oct]											
Mulching	[Bar chart showing coverage from Jan to Dec]											

- A = 40 lbs/acre fall rye grass, 20 lbs/acre perennial ryegrass, 2 tons/acre straw
- B = 40 lbs/acre fall rye grass, 20 lbs/acre perennial ryegrass, 2 tons/acre straw
- C = Spring Oats 3 bushel/acre.
- D = Wheat or Rye 2 bushel/acre.
- E = Annual Ryegrass 40 lbs/acre. (1 lb/1000 sq. ft.)
- F = Sod
- G = Straw Mulch 2 tons/acre.
- \*1/2" Irrigation needed during June, July, and/or September.
- \*\* Irrigation needed for 2 to 3 weeks after applying seed.



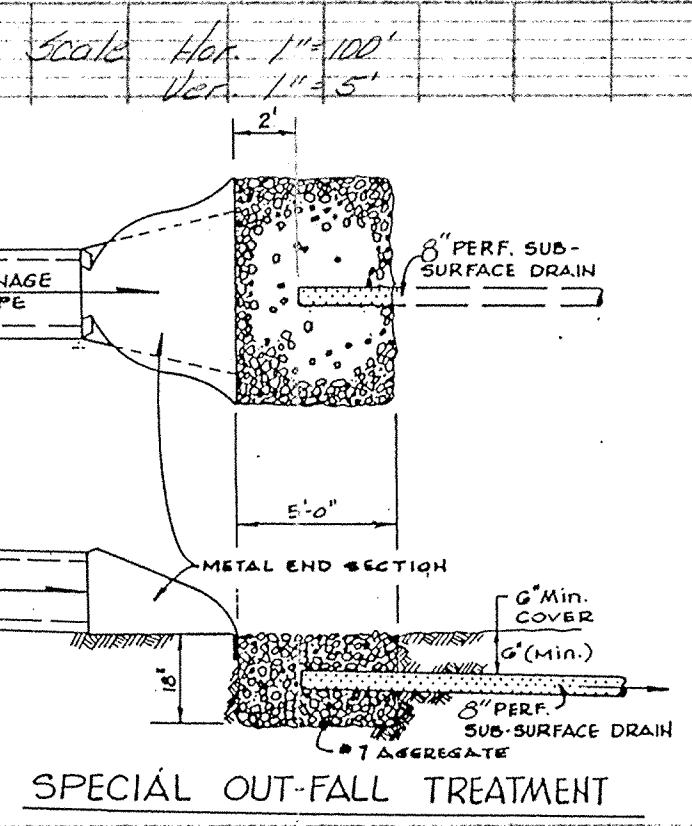
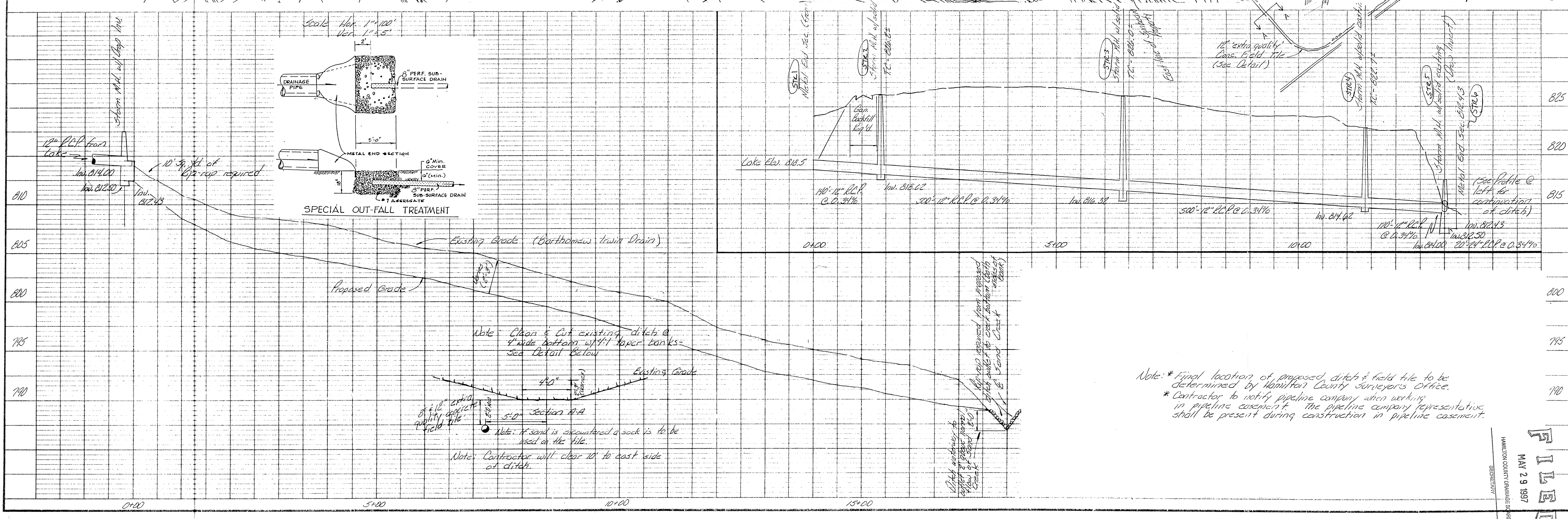
Note: Extend existing culvert under 12th Street into proposed manhole @ Barthomew Drain.



Clean and Cut New Ditch to Sect A-A.

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: 09-29-00  
 Entered by: SIM

WEIHE ENGINEERS INC.  
 10505 NORTH COLLEGE AVENUE  
 INDIANAPOLIS, INDIANA 46280  
 (317) 846-6611  
 LAND PLANNERS  
 LAND SURVEYORS  
 CIVIL ENGINEERS



Note: Clean & Cut existing ditches @ 4' wide bottom with 1' higher banks. See Detail Below.

Note: \* Final location of proposed ditch & field tile to be determined by Hamilton County Surveyors Office.  
 \* Contractor to notify pipeline company when working in pipeline easement. The pipeline company representative shall be present during construction in pipeline easement.

REVISIONS	DATE	BY	DATE	BY
1. Add 12" RCP from Lake to 10' Sp. Yt. of 12" RCP required.	09/29/00	SM	09/29/00	SM

Prepared For: Sand Creek Pipeline Company  
 Location: Development Indianopolis, Indiana  
 Relocation & Reconstruction of Barthomew Drain  
 SHEET NO. OF  
 FILED  
 MAY 29 1997  
 HAMILTON COUNTY SURVEYORS OFFICE