

Source Document Log
Source Document Discrepancy Log

Drain: EE CORNTHWAITE DRAIN

Main/Arm Name	Document Name	Document ID	Info From Document	If Applicable	
				Document w/ Discrepancy	Description of Discrepancy
	VIEWERS' REPORT	6-5-1919			
	SURVEYORS REPORT	5-14-2001	DRAIN CLASSIFICATION - URBAN		

Drain: EE CORNTHWAITE **Drain #:** 64
Improvement/Arm: _____
Operator: J. LIVINGSTON **Date:** 11-19-03
Drain Classification: Urban/Rural **Year Installed:** 1919

GIS Drain Input Checklist

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

✓ 12-31-03 OK slm

Gasb 34 Footages for Historical Cost
Drain Length Log

Drain-Improvement: EE CORNTHWIKTE DRAIN

Drain Type:	Size:	Length ()	Length (DB Query)	Length Reconcile	Price:	Cost:
TILE	10"	1500'	1500'		3.00/lf	4500.00
	12"	1700'	1700'		4.00/lf	6800.00
	14"	2780'	2780'		4.25/lf	11815.00
	15"	2394'	2394'		5.00/lf	11970.00
	24"	226'	226'		11.00/lf	2486.00

Sum: 8600' 8600' \$37571.00

Final Report: 8600'

Comments:

Report of Viewers
on
C.C. Cornthwaite
Drain.

Recorded in
Book No 4
on Page 154-157

30802

STATE OF INDIANA)
HAMILTON COUNTY) SS

IN HAMILTON *Circuit* COURT.

IN THE MATTER OF THE PETITION
OF *E.C. Couthwaite*
FOR DRAINAGE

Report of the drainage commissioners and Engineer,
To the honorable *Judge of the Circuit Court of* Hamilton County.

We the undersigned Commissioners and Engineer to whom the
above entitled petition for drainage of certain lands, in
Jackson T.P., Hamilton County, Indiana, was referred:

We would respectfully report that we met on the line of said proposed
repair of said *Couthwaite*, drain, on the 5 day of *June*
1919, qualified and proceeded to view said drain and lands affected
thereby.

After a careful investigation of the conditions of said
drain we are of the opinion that said drain should be repaired,
and in a manner set out below in this report and that the same
when completed will improve the public health and will reclaim
certain lands, and will be of public utility, and will benefit
several highways, also that the cost of construction and repair,
damages and expense of effecting said drain will be less than the
benefits to the lands effected by said drainage

That we have definitely determined the best and cheapest
method of effecting the drainage of such lands, we have fixed the
same by metes and bounds, courses, distances, descriptions and guides
and bench marks, including arms and branches so as to provide for a
complete outlet for the drainage of said lands effected by said
proposed work; that we have divided the ditch ~~into~~ and branches into
sections of not more than 100 feet in length by setting stakes at
each 100 feet.

LOCATION.

Said drain to begin 300 feet north and 75 feet west of the southeast corner of the southwest quarter of the northwest quarter of Section 6, Township 19 north, Range 4⁶ east; run thence south 23 degrees 30' west, from station 0 to station 2+70; thence south 16 degrees east, from station 2+70 to station 9; thence south 26 degrees east, from station 9 to station 15; thence south 51 degrees east, from station 15 to station 16; thence south 69 degrees east, from station 16 to station 24+65; thence east from station 24+65 to station 47; thence south 55 degrees east, from station 47 to station 48; thence south 47 degrees east, from station 48 to station 53+32; thence south 42 degrees east, from station 53+32 to station 57; thence south 33 degrees east, from station 57 to station 60+10; thence south 10 degrees east, from station 60+10 to station 65+65; thence south 29 degrees east, from station 65+65 to station 72; thence south 38 degrees east, from station 72 to station 73; thence south 44 degrees east, from station 73 to station 75; thence south 59 degrees east, from station 75 to station 76; thence south 74 degrees east, from station 76 to station 76+90; thence east from station 76+90 to station 83+75; thence north 45 degrees east, from station 83+75 to station 86; ending 140 feet north and 725 feet west of the southeast corner of the north $\frac{1}{2}$ of the north west quarter of Section 8, Township 20 north, Range 4 east.

Said ditch to consist of ,

One row of 10 inch tile from Sta. 0 to Sta. 15,

" " " 12 " " " " 15 " " 32,

" " " 14 " " " " 32 " " 59+80

" " " 15 " " " " 59+80 " " 83+74

" " " 24 " " " " 83+74 " " 86 or terminus.

Also to have a catch Basin at station 83+74 and a stone wall at Sta. 86. Said catch Basin to be built circular in form and to have 42 walls and bottom, and to be covered with a grated iron top of the alwood pattern or its equal. Connecting box to have 6" walls and a four inch bottom and to be covered with a four inch concrete slab, and to be built in form and dimensions to properly receive the inlet and outlet tiles at their proper grades.

The inlet and outlet tiles for a distance of 25' measured from said box, shall be laid on and covered around with 4" of concrete.

The retaining walls shall be 40' long and 2' wide at the bottom and 1' wide at the top and 9' high at each end and taper to 6' high at the center. The base of which shall be at a point 2' below the bottom of the tile. Said wall to have an apron 5' x 12' x 1' thick, the center of said apron to be 3" below the grade of the tile, the outer ends raised to a point level to top of tile.

Said catch Basin and connecting Wall including apron shall be built of concrete in accordance with concrete specifications herein written.

At the point where the Kepner drain intersects this drain at the connecting Box, said Kepner drain shall be taken up for a distance of 100' and graded from said point on a grade to conform with the grade of this drain at said ~~XXXXXXXXXXXXXXXXXXXX~~ connecting box, the tile from said Kepner drain to be replaced to the new grade and new tile furnished to supply all broken tile in said portion of said Kepner drain.

CONCRETE WORK

Unless otherwise specified all concrete work included in these specifications shall be a mixture of 1-2-3; one part Portland Cement, two parts sand, and three parts gravel. The sand gravel to be free from dirt, loam, and other foreign matter.

The cement, sand, and gravel to be thoroughly mixed while dry until it presents an even shade of coloring throughout, then made into a moderately wet mortar, and placed immediately in the forms for moulding the concrete into shape.

The forms for all concrete work to be neatly constructed from strong materials, and shall be true to lines, dimensions, and shape given for the different structures.

The work will be staked out by the Engineer and his stakes must be carefully preserved and followed. The digging of each and every portion of the ditch must begin at its outlet or its junction with another tile drain and proceed toward its upper end.

The ditch to be dug along one ~~line-of-the~~ side of the line of survey stakes and sufficient distance from them to not disturb them, and shall be out in a straight and neat manner. In taking out the last draft the blade of the spade must not go deeper-deeper than the grade line. The ditch must be dug accurately and true to grade at the depth ~~given-by-the-~~ indicated by the figures given by the Engineer, measured from the grade stakes.

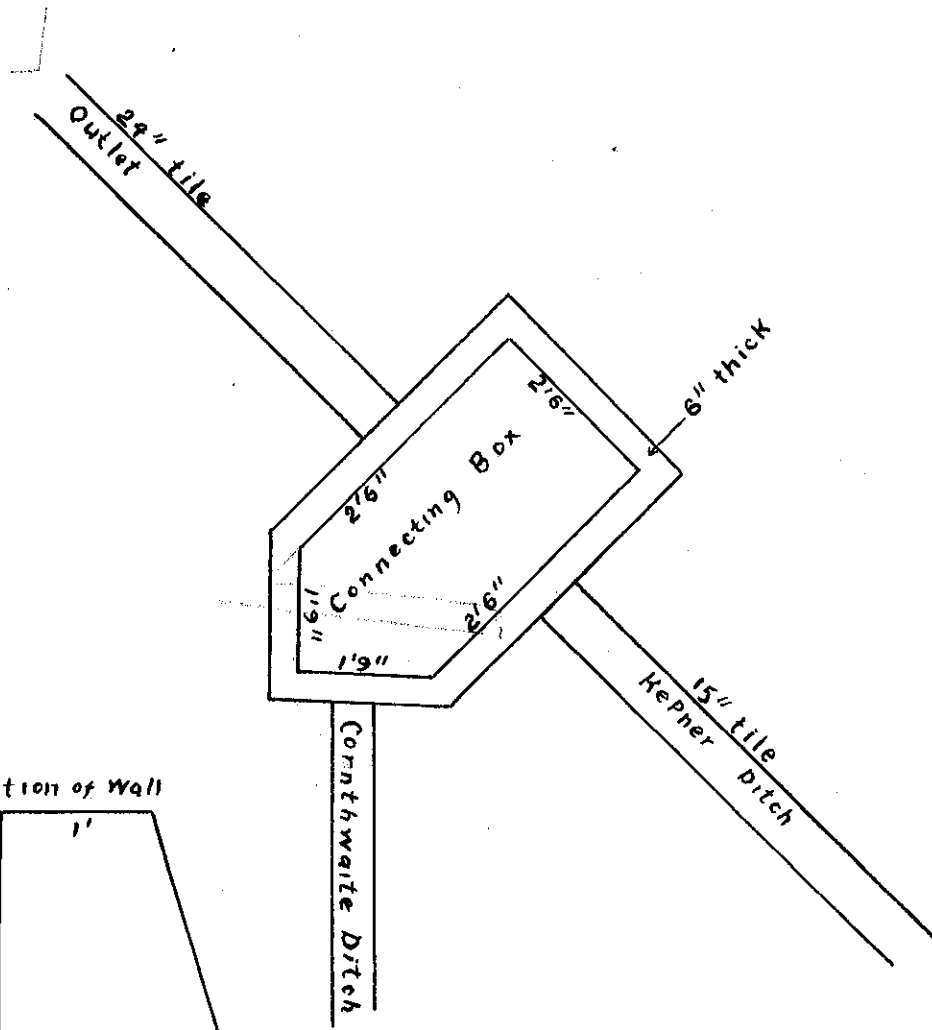
The laying of the tile must begin at the lower end and proceed up stream. The tile must be laid as closely as practicable ~~and~~ and in a line free from irregular crooks, the piece being turned about until the upper closes ~~er~~, unless there is sand or fine silt which is likely to run into the tile, in which case the lower edge is to be laid close and the upper side covered with clay or other material. When making turns or by other unavoidable reasons, a crack of one fourth inch or more is necessarily left it must be securely covered with broken pieces of tile or with other indestructible material. Junctions with branch lines must be carefully and securely made. After the tile have been laid and inspected by the Engineer or his representative, they must be covered with the earth excavated from the trench or with borrowed clay or soil, ~~where~~ said trench does not afford sufficient material, and in no case less than two feet in depth over the tile in new cuts.

And where said drain is an open channel the filling shall be to a depth of not less than two feet above the top of the tile for the full width of said channel, in no case will- must the tile be covered with sand without other materials being first used and in no case will boulders or heavy rock that may in time come in contact with the tile be allowed in the filling. The ditch contractor must assume all risk from caving-in of the ditch, and when each drain is completed it must be free from sand and mud before it will be received and paid for in full. In case it is found impracticable, by reason of bad weather or other unlocked for trouble in digging the ditch or properly laying the tile to complete the work in the time specified in the contract, the time may be extended as may be mutually agreed upon by the Contractor and Engineer. The Contractor shall use all necessary precaution to secure his work from injury while he is constructing the drain. All tile and other material used ~~is~~ in the construction of this drain and its tributaries thereto, included in the specifications requirements of these specifications, shall be first class in every respect and subject to rigid inspection by the Engineer.

The Engineer shall have authority to layout and direct the work, to inspect and supervise the same during the construction, and completion to see that it is properly done in accordance with the specifications and contract, and his instructions shall be fully carried out.

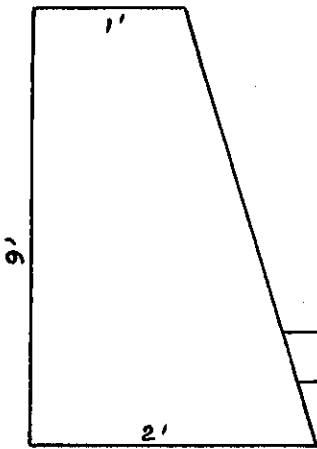
**PROFILE OF E. E. CORNTHWAITE
DRAIN.**

Station	Hub Cut	Cubic Yards.	Station	Hub Cut	Cubic Yards.
0	5.00		54	4.20	29
1	2.83	16	55	6.00	38
2	2.78	16	56	6.85	48
3	3.83	18	57	3.91	40
4	4.36	23	58	4.17	30
5	4.21	24	59	3.22	27
6	3.08	20	60	3.93	26
7	3.11	17	61	4.39	30
8	3.38	18	62	4.58	36
9	3.58	20	63	4.44	34
10	3.80	21	64	4.97	35
11	4.15	22	65	5.01	37
12	3.93	23	66	4.93	37
13	4.45	23	67	4.96	37
14	4.47	25	68	4.41	35
15	4.32	25	69	4.47	33
16	4.15	25	70	4.90	35
17	3.85	26	71	4.38	34
18	3.85	25	72	4.23	32
19	4.90	29	73	4.72	33
20	4.40	30	74	4.32	34
21	4.02	30	75	4.15	31
22	4.40	30	76	3.60	29
23	3.68	26	76+90		30
24	3.83	25	77		
25	3.81	24	78	5.85	35
26	4.01	25	79	5.15	41
27	4.04	25	80	5.35	39
28	3.76	25	81	4.74	37
29	3.71	24	82	5.57	38
30	3.58	24	83	5.70	42
31	4.01	24	84	7.42	49
32	4.01	26	85	6.28	52
33	4.96	33	86	6.32	53
34	5.86	39			
35	5.61	42			
36	3.71	35			
37	4.21	30			
38	4.48	32			
39	4.76	34			
40	4.36	34			
41	4.28	32			
42	4.21	32			
43	3.83	30			
44	3.41	29			
45	3.69	27			
46	5.36	34			
47	4.02	35			
48	3.69	29			
49	4.02	29			
50	4.40	31			
51	4.23	36			
52	3.89	30			
53	3.54	28			
				TOTAL

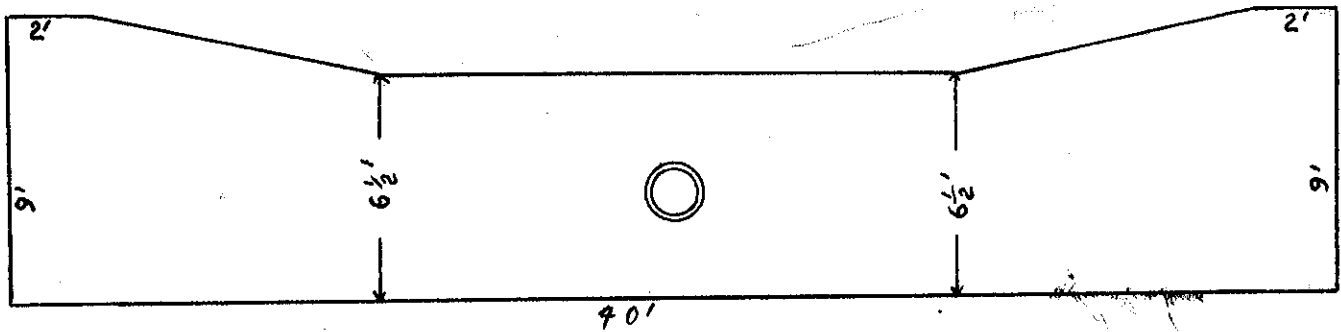
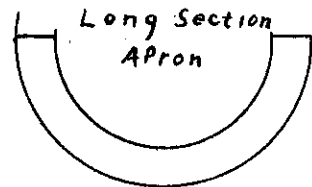


11
10
9
8
7
6
5
4
3
2
1

Cross Section of Wall



Thru & of Apron



Estimated cost of Construction Including,
 Material, Labor, Hauling, etc.,
 Necessary for completion of the work in
 Accordance with the Plans and Specifications,

Station 0 to
 Station to
 Station to
 Station to⁸⁶.....

Estimated Expenses, Including, Total \$4091.37.....

Attorneys Fee
 Recording & Releasing
 Legal Printing
 Superintendent of Construction
 Court Expenses etc.....
 Contingency fund

Total \$547.58.....

We claim for services, expenses & mileage, to date for

Clark Coffin
Drainage Commissioner,^{12.00}.....
C.C. Carson
Viewer^{12.00}.....
J.S. Shannon
Engineer & Helpers^{37.00}.....

Total 61.00.....

GRAND TOTAL^{4699.95}.....

4091.37
608.58

1177.8
61.00
608.58

No.	NAMES	DESCRIPTION OF LANDS	Section	Township	Range	Acres Assessed		Acres Benefited		Amt. of Assessm't		Totals	
						A	Hun	A	Hun	\$	Cts	\$	Cts
	Carrie M. Roudebush	Pt. S $\frac{1}{2}$ NW $\frac{1}{4}$	6	19	5	80.00		X 36.00		X 556.20		556.20	
	Wesley Smalley	NW SW	6	19	5	40.00		34.00		414.80			
	"	NE SW	6	19	5	40.00		40.00		488.00		902.80	
	John Leaming	W Pt. N $\frac{1}{2}$ SE $\frac{1}{4}$	6	19	5	45.50		32.00		390.40		390.40	
	William Overdorf	E pt. NE SE	6	19	5	35.00		4.00		48.80		48.80	
	E. E. Cornthwaite	SE SW	6	19	5	40.00		25.00		297.00			
	"	SW SE	6	19	5	40.00		40.00		315.00			
	"	SE SE	6	19	5	40.00		40.00		586.00		1198.00	
	Daniel Overdorf	Pt. N SW SW	5	19	5	20.00		6.00		73.20		73.20	
	George M. Roudebush	S side SW SW	5	19	5	15.00		8.00		97.60			
	"	Pt. N $\frac{1}{2}$ NW $\frac{1}{4}$	8	19	5			36.00		577.20		674.80	
	Charles Roudebush	S side SW SW SW	5	19	5	1.00		1.00		20.20			
	"	Pt. N $\frac{1}{2}$ NW NW	8	19	5	10.73		10.73		216.75		236.95	
	Fred Mosebaugh	SE NW	8	19	5	40.00		17.00		70.40			
		SW NW	8	19	5	40.00		40.00		81.00		151.40	
	John Yansel	E $\frac{1}{2}$ NE NE	7	19	5	20.00		20.00		68.00		68.00	
	Jacob E. Kepner	SE NE	7	19	5	40.00		40.00		48.00		48.00	

No.	NAMES	DESCRIPTION OF LANDS	Section	Township	Range	Acres Assessed		Acres Benefitted		Amt. of Assessm't		Totals	
						A	Hun	A	Hun	\$	Cts	\$	Cts
	Emma Kelly ✓	Pt. NE SW	8	19	5	40.00		6.00		7	20	7	20
	Harriet Lockwood ✓	N $\frac{1}{2}$ NW SW	8	19	5	20.00		12.00		14	40		
	Emma Kelly	N $\frac{1}{2}$ NE SE	7	19	5	20.00		12.00		14	40	28	80
	Emma Hiesser ✓	SW NE	7	19	5	40.00		39.00		46	80		
	"	Pt. SE NW	7	19	5	40.00		8.00		9	60	56	40
	C. F. Bardoner ✓	W $\frac{1}{2}$ NE NE	7	19	5	20.00		20.00		24	00		
	"	E $\frac{1}{2}$ NW NE	7	19	5	30.00		30.00		36	00	60	00
	M. Cornthwaite ✓	W $\frac{1}{2}$ NW NE	7	19	5	10.00		10.00		12	00		
	"	NE NW	7	19	5	40.00		10.00		12	00	24	00
	White River Township ✓												
	road	E & W thru Center of	8	19	5					10	00		
		N & S between 7 & 8		19	5					18	00		
		N & S between 5 & 6		19	5					37	50		
		CTW SW	5	19	5					30	00	87	50
	Jackson Township												
		N & S between 5 & 6		19	5					37	50		
		N & S between 7 & 8		19	5					10	00		
		E & W Thru Center of	7	19	5					10	00		
		E & W between 6 & 7		19	5					10	00		
		Range Line	6	19	5					20	00	87	50
			1	19	4								
										Total 4699.75			

STATE OF INDIANA)
HAMILTON COUNTY)

We the undersigned Viewers and Engineer to whom was referred the above entitled petition for report, after being duly sworn, upon oath say that we have examined the whole line and route of said proposed ditch, that the assessments herein made and reported are correct, just and equitable to all parties herein named as interested, that no other lands will be benefitted or injured by said proposed drain, and that the above ~~and~~ and foregoing report is true in substance and in fact as we verily believe.

Clark Coffin
.....
Viewer

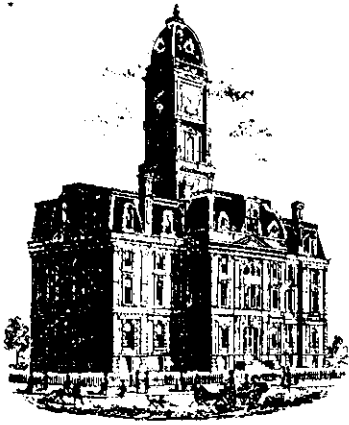
C. C. Carson
.....
Viewer

.....Engineer

Subscribed and sworn to before me thisday of.....19

.....
Auditor of Hamilton Co.

(Copy)



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

Phone (317) 776-8495

Fax (317) 776-9628

Suite 188

One Hamilton County Square

Noblesville, Indiana 46060-2230

To: Hamilton County Drainage Board

May 14, 2001

Re: E. E. Cornthwaite Drain

Upon review of the maintenance fund for the E. E. Cornthwaite Drain, I found that the drain is currently in the red by \$249.57. Therefore, the Board should consider increasing the assessment rate for this drain.

This drain was certified for assessment on July 10, 1972 at a rate of \$1.00 per acre, \$3.00 minimum. This assessment has remained at this rate since that time. With 287.67 acres and 9 lots in the drainage shed the current annual assessment is \$333.40.

Over the last 9 years the drain has had the following work orders:

92-061	\$3,687.70	92-161	\$164.58
96-069	\$248.00	97-100	\$268.50
99-100	\$141.00	Total	\$4,509.78

Based on the above the present average annual cost for maintenance is \$501.09. I recommend the Board consider increasing the assessment rate for this drain to the following:

1. Maintenance assessment for roads and streets be set at \$10.00 per acre. Also, Indiana Department of Transportation 0.6 ac of the Right of Way for S. R. 19 should be added to the assessment.
2. Maintenance assessment for agricultural tracts to increase to \$2.00 per acre-the minimum should increase from the Statutory \$5.00 to \$10.00 minimum.
3. Maintenance assessment for nonplatted residential tracts be set at \$2.00 per acre with an increase to a \$10.00 minimum.

4. Maintenance assessment for future commercial, multifamily residential, and institutional tracts be set at \$10.00 per acre with a \$50.00 minimum. The assessments for 03-07-06-52-00-001.001 (Gas America), 03-07-06-52-00-001.002 (Gas America) and 03-07-06-52-00-001.003 (Golden Arch Limited) shall be set at \$10.00 per acre with and increase to a \$50.00 minimum.

I also recommend that the following tracts be added to the assessment for this drain at the commercial rate. These tracts should be removed from the Ingerman Drain assessment:

05-07-06-13-01-002.001 - Gas America
05-07-06-13-01-002.002 - Gas America
05-07-06-13-01-002.000 - Golden Arch Limited

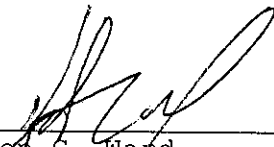
5. Maintenance assessment for future platted lots in subdivisions whose drainage systems will not be part of the regulated drain (those systems maintained by the Town of Cicero) shall be set at \$35.00 per lot/minimum. Common areas within non-regulated drain subdivisions shall be assessed at \$5.00 per acre with a \$35.00 minimum.
6. Maintenance assessment for platted lots within a subdivision whose drainage system will be part of the regulated drain shall be set at \$65.00 per lot/minimum. Common areas within regulated drain subdivisions shall be set at \$10.00 per acre with a \$65.00 minimum.

This will create an annual maintenance assessment of \$1073.86.

I recommend these rates due to the development pressure in this area.

Upon review of the drainage shed for the E. E. Cornthwaite Drain, I believe that the drain meets the requirements for Urban Drain Classification as set out in IC 36-9-27-67 to 69. Therefore, the E. E. Cornthwaite Drain should be designated as an Urban Drain.

I recommend the Board set a hearing for this item for June 25, 2001.



Kenton C. Ward
Hamilton County Surveyor