

Drain: DEERFIELD **Drain #:** 213
Improvement/Arm: RECONSTRUCTION PHASE I
Operator: J. LIVINGSTON **Date:** 2-5-04
Drain Classification: Urban/Rural **Year Installed:** 2001

GIS Drain Input Checklist

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

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

Drain-Improvement: DEERFIELD-RECONSTRUCTION PHASE I

Drain Type:	Size:	Length	Length (DB Query)	Length Reconcile	Applicable	
					Price:	Cost:
RCP	15"	60'	60'			
*CMP	18"	20'	0'	-20'		
WIDENING 358' OF OPEN DITCH	—	0'	0'			
TOTAL	→					5736. ⁰⁰
TILE	12"	1620'	1620'		4. ⁰⁰ /lf	6480. ⁰⁰
OPEN DITCH	—	358'	358'		19. ⁵⁵ /lf	6998. ²⁰
PIPE UNKNOWN TYPE	12"	26'	26'		N/A	N/A

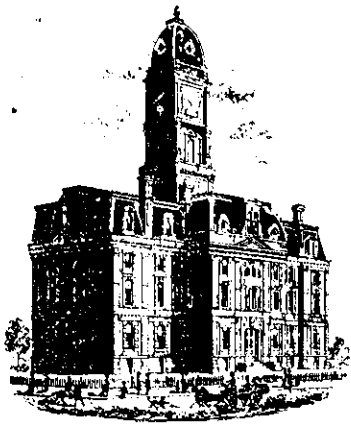
Sum: 2084' 2064' -20 \$19415.⁴⁰

Final Report: _____

Comments:

SOUTHERN

THE DISTANCE BETWEEN THE CATCH BASIN (WHICH IS VISIBLE ON THE ORTHO PHOTOS) AND THE OUTLET OF THE 15" RCP AS LOCATED ON PHOTOGRAPHS OF THE JOB SITE (SEE SOURCE LOG) IS NOT SUFFICIENT TO ALLOW FOR 80' OF PIPE. DUE TO THIS, THE 18" CMP WAS NOT INPUT INTO THE GIS. * CMP not installed. Replaced with concrete end section.



" Draft "

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

Date: October 9, 2000

Re: Deerfield Drain Petition for Reconstruction

Attached are plans, specifications, drain map, drainage-shed map, and schedule of assessments for the reconstruction of the Deerfield Drain. The drainage area is located in Clay Township in Hamilton County and benefits properties in sections 9 & 10, township 17 north, range 3 east, with a total acreage of approximately 127.47 acres.

A petition for reconstruction for the Deerfield Drain was received on July 15, 1999. The petition was filed for the purpose of extending the regulated drain to include the downstream portion of the drainage system that serves as the outlet for the Deerfield Drain. Currently the regulated portion ends at the west side of Ditch Road approximately 1286 feet north of the southeast corner of section 9-17-3. The downstream portion, which continues east of Ditch Road, is not regulated. The tile petitioned to be accepted as part of the regulated Deerfield Drain extends south and east to the Marion County-Hamilton County line at 96th Street

The Deerfield Drain was originally petitioned through The Hamilton County Drainage Board in 1986, and consisted of 5493 feet of tile and 120 feet of open ditch for a total length of 5613 feet. In 1997 the drainage board was petitioned to relocate and reconstruct a portion of the Deerfield Drain through the Lundeen property. The petition was approved and 630 feet of 10" concrete tile was installed and 480 feet of tile was vacated resulting in a net gain of 150 feet to the drain for a total length of 5763 feet. The benefited acreage for the watershed was 77.61 acres and 44 lots.

The proposed reconstruction of the Deerfield Drain will extend the regulated portion to include the downstream portion of the drainage system that serves as the outlet for the Deerfield Drain. The proposed extension will begin at the west side of Ditch Road approximately 1286 feet north of the southeast corner of section 9-17-3 at the point where the regulated drain currently ends. The tile then runs in a general southeasterly direction

entering the Cedar Point Subdivision near the north west corner of Lot #3 of Cedar Point Subdivision, at which point the tile outlets and becomes an open drain. The open ditch continues south under Cedar Point Drive and then southeast to a culvert under 96th Street. The proposed extension would end at the south end of the culvert under 96th Street approximately 980 feet east of the southwest corner of section 10-17-3 and includes approximately 1470 feet of tile and 325 feet of open ditch. This extension would increase the length of the Deerfield Drain to a total of 7558 feet. The additional benefited acreage would be 49.86 acres. Additionally, two catch basin structures on Cedar Point Drive located near the south east corner of Lot #3 of Cedar Point Subdivision and the 15" RCP which outlets into the open ditch from the two catch basins will be accepted as part of the regulated drain.

As an existing drainage easement 75' in width, south of Cedar Point Drive, will be sufficient for maintenance of the open portion of the drain, catch basins and associated drain pipe and existing drainage & utility easements and road right of way will be sufficient for maintenance access on the north side of Cedar Point Drive, no additional easement would be necessary within the Cedar Point Subdivision.

The proposed reconstruction includes clearing and dredging of the open portion of the drain south of Cedar Point Drive, the replacement of 60 feet of 15" RCP and the addition of a 20' CMP outlet pipe on the 15" RCP at the open ditch. The estimated cost of the reconstruction is \$5,968.50.

Reconstruction Estimate

15" RCP - 60' @ \$17.50 per foot	\$1050.00
18" CMP - outlet pipe 20' @ \$17.00 per foot	\$340.00
Armor Pipe ends with rip-rap - 2 locations @ \$450.00	\$900.00
Clearing	\$1,000.00
Seeding	\$100.00
Dredging - 325 feet @ \$4.00 per foot	\$1,300.00
Removal of spoils/debris	\$500.00
	Sub Total \$5,190.00
	+ 15 % contingencies \$778.50
	<hr/> Total \$5968.50

I have reviewed the plans and revised drainage shed for the Deerfield Drain of 127.47 acres and upon considering each parcel individually, I believe that each parcel within the

drainage shed will have equal benefits as provided by the drain. Therefore I recommend each tract be assessed on the same basis equally. I also believe that no damages will result to landowners by the reconstruction of this drain. I recommend a reconstruction assessment of \$32.52 per acre with a minimum assessment of \$32.52 per parcel.

I recommend the Board place the extended Deerfield Drain drainage area on a maintenance program as set out in IC 36-9-27-38. This drainage area is not presently under a maintenance program.

I have reviewed the revised drainage shed and believe that the drain will benefit each tract equally for the purpose of maintenance. Therefore I recommend each tract within the drainage shed be assessed for maintenance equally at a rate of \$2.00 per acre with a minimum assessment set at \$20.00 per tract. The annual maintenance collection will be \$1,785.80.

The nature of the maintenance work, which may be required, is as follows:

- a. Removal and/or prevention of brush within the drainage easement by hand, mechanical or spray methods.
- b. Re-excavating of open ditch to original grade line.
- c. Installation and /or repair of surface water structure as might be required.
- d. Bank erosion protection and/or seeding as might be required.
- e. Repair of private tile outlet ends as might be required.
- f. Repair of regulated tile outlet at drain end.
- g. Replacement of broken tile outlet ends as might be required.
- h. Cleaning and/or repair of existing catch basins as might be required.
- i. Installation of catch basins or inlets as may be required.
- j. Removal of debris and/or blockage from the existing tile drain including jetting or video work.
- k. Installation and/or repair of breather pipes.
- l. Removal of debris and/or blockage from the existing open drain.
- m. Maintain grass filter strips.
- n. Any other repairs necessary to restore the drain to it's original intended condition.

The frequency with which maintenance work should be performed annually is as required by the condition of the drain.

I recommend the Board set a hearing for this proposed reconstruction and maintenance project for November 27th, 2000.

Kenton C. Ward

Deerfield Drain Reconstruction Hearing-Analysis of Acreage and Assessment Represented by Remonstrators

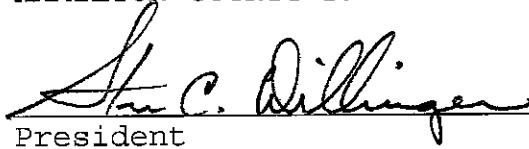
Acres in Shed=127.47		Lots in Shed=44.00		1 Lot=1 Acre		Total Acreage in Shed=171.47		Total Reconstruction Assessment=\$5,969.48		Total Annual Assessment=\$2,073.54	
Property Owner	Parcel Number	Acres	Acres Benefited	Percent Total Acres	Assessment (R)	Percent Total Assessment	Assessment (M)	Percent Total Assessment			
Charles M. Brown	17-13-09-04-01-006.000	1 Lot	1.00	0.49%	\$32.52	0.54%	\$20.00	0.96%			
Stephen & Debra Thrash	17-13-10-03-01-055.000	0.14	0.14	0.07%	\$32.52	0.54%	\$20.00	0.96%			
	17-13-10-03-01-056.000	0.68	0.68	0.33%	\$32.52	0.54%	\$20.00	0.96%			
	Totals	1.82	1.82	0.89%	\$97.56	1.63%	\$60.00	2.89%			

FINDINGS AND ORDER
CONCERNING THE MAINTENANCE OF THE
Deerfield Drain

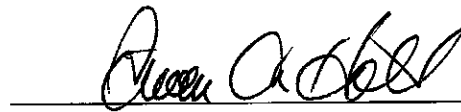
On this *27th day of November 2000*, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the *Deerfield Drain*.

Evidence has been heard. Objections were presented and considered. The Board then adopted the original/amended Schedule of Assessments. The Board now finds that the annual maintenance assessment will be less than the benefits to the landowners and issues this order declaring that this Maintenance Fund be established.


HAMILTON COUNTY DRAINAGE BOARD



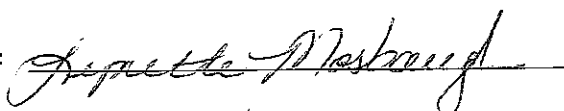
President



Member



Member

Attest: 

STATE OF INDIANA)
) ss:
COUNTY OF HAMILTON)

BEFORE THE HAMILTON COUNTY
DRAINAGE BOARD
NOBLESVILLE, INDIANA

IN THE MATTER OF THE
RECONSTRUCTION OF THE
Deerfield Drain

FINDINGS AND ORDER FOR RECONSTRUCTION

The matter of the proposed Reconstruction of *Deerfield Drain* came before the Hamilton County Drainage Board for hearing on *November 27, 2000*, on the Reconstruction Report consisting of the report and the Schedule of Damages and Assessments. The Board also received and considered the written objection of an owner of certain lands affected by the proposed Reconstruction, said owner being:

Mr. Charles M. Brown	Parcel #17-13-09-04-01-006.000
Mr. Stephen & Mrs. Debra Thrash	Parcel #17-13-10-03-01-055.000
	Parcel #17-13-10-03-01-056.000

Evidence was heard on the Reconstruction Report and on the aforementioned objections.

The Board, having considered the evidence and objections, and, upon motion duly made, seconded and unanimously carried, did find and determine that the costs, damages and expenses of the proposed Reconstruction will be less than the benefits accruing to the owners of all land benefited by the Reconstruction.


The Board having considered the evidence and objections, upon motion duly made, seconded and unanimously carried, did adopt the Schedule of Assessments as proposed, subject to amendment after inspection of the subject drain as it relates to the lands of any owners which may have been erroneously included or omitted from the Schedule of Assessments.

The Board further finds that it has jurisdiction of these proceedings and that all required notices have been duly given or published as required by law.

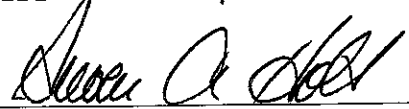
Wherefore, it is ORDERED, that the proposed Reconstruction of the *Deerfield Drain* be and is hereby declared established.

Thereafter, the Board made inspection for the purpose of determining whether or not the lands of any owners had been erroneously included or excluded from the Schedule of Assessments. The Board finds on the basis of the reports and findings at this hearing as follows:

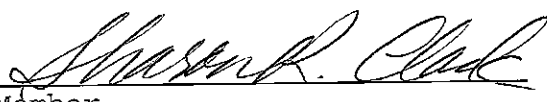
HAMILTON COUNTY DRAINAGE BOARD




PRESIDENT

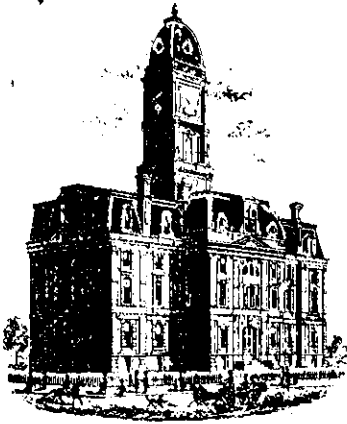


Member



Member

ATTEST: 
Acting Executive Secretary



SURVEYOR'S OFFICE

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Suite 188
 One Hamilton County Square
 Noblesville, Indiana 46060-2230

To: Hamilton County Drainage Board

March 11, 2002

Re: Deerfield Drain Phase I Reconstruction
 Final Inspection Report

FINAL INSPECTION REPORT

Please regard this letter as the inspector's final report on the, Deerfield Drain Phase I Reconstruction in Sections 9 & 10, Township 17 North, Range 3 East, in Hamilton County, Indiana. This project was approved by the board at hearing on November 27, 2000.

As of the date of this report, I hereby attest to and agree that the reconstruction was installed according to the specified plans and change orders. All inspections have been completed.

The Hamilton County Drainage Board awarded the contract on June 25th, 2001 to 2M Contracting Corporation.

Construction of the Deerfield Drain Phase I started July 23, 2001 and was completed on August 15, 2001. Final inspection was on August 17, 2001. Claim for retainage was paid on November 27, 2001.

Statement of All Incurred Expenses Paid signed by the contractor has been received.

Deerfield Drain Phase I added approximately 1620 feet of existing tile and 358 feet of reconstructed open ditch to the Deerfield Drain. The additional benefited acreage added 49.86 acres

The following claims have been paid to the contractor:

Claim #1	\$5148.50
15% Retainage withheld	-\$772.28
Check amount paid on 08/28/01-----	\$4376.22

Claim #2	\$788.00
15% Retainage withheld	<u>\$118.20</u>
Check amount paid on 11/14/01-----	\$669.80
 Claim #3	
Retainage withheld on Claims #1 & #2	<u>\$890.48</u>
Check amount paid on 11/27/01-----	\$890.48
 Claim #1 -----	\$4376.22
Claim #2 -----	\$669.80
Claim #3 -----	<u>\$890.48</u>
Total Claims -----	\$5,936.50
 Engineer's Estimate -----	\$5,968.50
Total Reconstruction Cost -----	<u>\$5,936.50</u>
Difference -----	\$32.00

The original reconstruction assessment for was based on the engineer's estimate of \$5,968.50 per the surveyor's report dated October 9, 2000.

The Collections for reconstruction began on May 10, 2001.

On February 9, 2001, Melvin Simon made a donation of \$4,000.00 to the maintenance fund to cover the additional funds to bring the maintenance fund to the required balance to avoid starting collections again. The maintenance fund had previously reached the balance that required collections to be suspended. The additional watershed area and corresponding additional maintenance funds that were added during the reconstruction would have required that collections for maintenance be started again. Mr. Simon volunteered to pay the additional funds to avoid inconvenience to the property owners that had previously paid the maintenance fund to the maximum balance. During the November 27, 2000 reconstruction hearing, Mr. Simon had initially agreed to make this contribution to expedite the reconstruction of the Deerfield Drain.

Respectfully,



Andrew Conover
Inspector
Hamilton County Surveyor's Office