Drain: DEERFIELD DRAIN **Drain #:** 213
Improvement/Arm: DEERFIELD - SECTION 1
Operator: JDH **Date:** 2-5-04
Drain Classification: **Urban/Rural** **Year Installed:** 1986

GIS Drain Input Checklist

- Pull Source Documents for Scanning — JA 2-5
- Digitize & Attribute Tile Drains — N/A
- Digitize & Attribute Storm Drains — JA 2-5
- Digitize & Attribute SSD — JA 2-5
- Digitize & Attribute Open Ditch — JA 2-5
- Stamp Plans — JA 2-5
- Sum drain lengths & Validate — JA 2-5
- Enter Improvements into Posse — [illegible]
- Enter Drain Age into Posse — [illegible]
- Sum drain length for Watershed in Posse — [illegible]
- Check Database entries for errors — JA 2-5

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SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

776-9626

Noblesville, Ind. 46060 February 24, 1986

Nancy Ellen Oldham

To: Hamilton County Drainage Board

Re: Deerfield

Attached is a petition for a drain within the Deerfield Subdivision. I have examined the petition and believe it to be in proper form. The petition represents 33 of the 44 lots within the subdivision and approximately 75% of the drainage shed.

I believe the attached plan will eliminate the existing drainage problems experienced in the Deerfield Subdivision. The project will consist of cleaning out and repairing the existing storm sewer system which consists of the following approximate quanities for structures 1 to 30 on the existing as built print.

12" RCP	541 feet
36" CMP	40 feet
15" CMP	73 feet
43"x 27" CMPA	46 feet
12" CMP	104 feet
30" RCP	270 feet
21" RCP	404 feet
18"/21" RCP	875 feet (Sta 12 to 18)
18" RCP	227 feet

The total existing storm sewer system is 2580 feet. Also included in this project is the extention and expansion of the current system in order to improve the drainage conditions. This will involve the following quanities.

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6" SSD	3033 feet	
6" CMP	60 feet	
Open ditch	120 feet	(Between Sta 13 and Ditch Rd.)
12" CMP	140 feet	
12" RCP	185 feet	
18" CMP	350 feet	
18" RCP	40 feet	
21" CMP	311 feet	

The total system to be added is 4239 feet. The total length for the regulated drain will be 5613 (67) feet. In addition to this will be an existing tile drain running from Ditch Road to Sta 81, 77 and 84. The size of the tile and its location is unknown at this time. The length involved with this tile will be added to the total when located during construction. At this time the regulated drain will end at Ditch Road even though both open and tile drains continue to the east.

The cost estimate for the construction and rehabilitating of the drain is $83,481.95. The Board should note that only the landowners within Deerfield and two tract owners which signed the petition are assessed along with the County Highway Department. The construction assessment is $426.00 per acre for highway and $1500.00 per lot and for tracts 13-09-04-03-018 and 13-09-04-05-007. The entire drainage shed in Hamilton County is assessed for maintenance. The maintenance assessment is $2.00 per acre and $20.00 minimum or per lot which will total $1308.00 annually. A bank note for the financing of construction will be arranged at a later date.

I recommend a hearing be set for April 14, 1986.

Kenton C. Ward,
Hamilton County Surveyor

KCW/jh

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Hamilton County Council Polly Pearce, Auditor Hamilton County Courthouse Noblesville, In. 46060 **BORROWER'S NAME AND ADDRESS** "I" includes each borrower above, jointly and severally.	**Ameritrust National Bank, Central Indiana** P.O. Box 40 Noblesville, IN 46060 **LENDER'S NAME AND ADDRESS** "You" means the lender, its successors and assigns.	Loan Number 41524 Date December 13, 1989 Maturity Date January 15, 1992 Loan Amount $ 42,000.00 Renewal Of

I promise to pay to you, or your order, at your address listed above the

PRINCIPAL sum of Forty Two Thousand and 00/100 Dollars $ 42,000.00

☐ **Single Advance:** I have received all of this principal sum. No additional advances are contemplated under this note.

☒ **Multiple Advance:** The principal sum shown above is the maximum amount of principal I can borrow under this note. As of today I have received the amount of $ 42,000.00 and future principal advances are contemplated.

Conditions: The conditions for future advances are in writing, by telephone or in person

☐ **Open End Credit:** You and I agree that I may borrow up to the maximum amount of principal more than one time. This feature is subject to all other conditions and expires no later than _____, _____.

☒ **Closed End Credit:** You and I agree that I may borrow up to the maximum only one time (and subject to all other conditions).

PURPOSE: The purpose of this loan is Construction Deerfield Drain

INTEREST: I agree to pay interest (calculated on a 360 basis) on the principal balance(s) owing from time to time as stated below.

☐ **Fixed Rate:** I agree to pay interest at the fixed, simple rate of _____ % per year.

☒ **Variable Rate:** I agree to pay interest at the initial simple rate of 7.50 % per year. This rate may change as stated below.

☒ **Index Rate:** The future rate will be 60.0% the following index rate: Ameritrust N. B. Central Indiana Base Rate

☐ **No Index:** The future rate will not be subject to any internal or external index. It will be entirely in your control.

☒ **Frequency and Timing:** The rate on this note may increase as often as semi-annually

An increase in the interest rate will take effect January 1 and July 1, 1990, 1991

☐ **Limitations:** The rate on this note will not at any time (and no matter what happens to any index rate used) go above or below these limits:

☐ **Maximum Rate:** The rate will not go above _____

☐ **Minimum Rate:** The rate will not go below _____

Post Maturity Rate: I agree to pay interest on the unpaid balance owing after maturity, and until paid in full, as stated below:

☒ on the same fixed or variable rate basis in effect before maturity (as indicated above).

☐ at a rate equal to _____

☐ **ADDITIONAL CHARGES:** In addition to interest, I ☐ have paid ☐ agree to pay the following additional charges _____

PAYMENTS: I agree to pay this note as follows:

☒ **Interest:** I agree to pay accrued interest on January 15, 1990, July 15, 1990, Jan. 15, 1991, July 15, 1991 final Jan. 15, 1992

☒ **Principal:** I agree to pay the principal 5 semi-annual @ $8400.00 each, on Jan. 15, 1990, July 15, 1990, Jan. 15, 1991, July 15, 1991, final on Jan. 15, 1992.

☐ **Installments:** I agree to pay this note in _____ payments. The first payment will be in the amount of $ _____ and will be due _____, _____. A payment of $ _____ will be due on the _____ day of each _____ thereafter. The final payment of the entire unpaid balance of principal and interest will be due _____, _____.

☒ **Effect of Variable Rate:** An increase in the interest rate will have the following effect on the payments:

☐ The amount of each scheduled payment will be increased.

☐ The amount of the final payment will be increased.

☐ Amount of increase [illegible]

ADDITIONAL TERMS:

SECURITY: This note is secured by _____

Signed _____ For Lender

Title _____

SIGNATURES: I AGREE TO THE TERMS OF THIS NOTE (INCLUDING THOSE ON THE OTHER SIDE). I have received a copy on today's date.

HAMILTON COUNTY COUNCIL

Polly Pearce, Auditor

Polly Pearce, Auditor

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TAX EXEMPT

Hamilton County Board of Commissioners Hamilton County Courthouse Noblesville, In 46060 **BORROWER'S NAME AND ADDRESS** "I" includes each borrower above, jointly and severally.	THE AMERICAN NATIONAL BANK P.O. BOX 40 NOBLESVILLE, IN **LENDER'S NAME AND ADDRESS** "You" means the lender, its successors and assigns.	Loan Number 41524 Date JAN. 6, 19 87 Maturity Date JAN. 15, 19 92 Loan Amount $ 84,000.00 Renewal Of —

I promise to pay to you, or your order, at your address listed above the **PRINCIPAL** sum of Eighty-four Thousand and 00/100 Dollars $ 84,000.00

☐ **Single Advance:** I have received all of this principal sum. No additional advances are contemplated under this note.

☒ **Multiple Advance:** The principal sum shown above is the maximum amount of principal I can borrow under this note. As of today I have received the amount of $ _____ and future principal advances are contemplated.

Conditions: The conditions for future advances are A WRITTEN OR AN IN-PERSON REQUEST FOR AN ADVANCE

☐ **Open End Credit:** You and I agree that I may borrow up to the maximum amount of principal more than one time. This feature is subject to all other conditions and expires no later than _____ 19 ____.

☐ **Closed End Credit:** You and I agree that I may borrow up to the maximum only one time (and subject to all other conditions).

PURPOSE: The purpose of this loan is DRAINAGE PROTECT

INTEREST: I agree to pay interest on the principal balance(s) owing from time to time as stated in this section.

☐ **Fixed Rate:** I agree to pay interest at the fixed, simple rate of _____ % per year.

☒ **Variable Rate:** I agree to pay interest at the initial simple rate of 6.45 % per year. This rate may change as stated below.

☐ **Index Rate:** The future rate will be 60% OF the following index rate: ANB'S BASE RATE

☐ **No Index:** The future rate will not be subject to any internal or external index. It will be entirely in your control.

☒ **Frequency and Timing:** The rate on this note may increase as often as SEMI-ANNUALLY

An increase in the index will take effect JANUARY 1ST AND JULY 1ST.

☐ **Limitations:** The rate on this note will not at any time (and no matter what happens to any index rate used) go above or below these limits:

☐ **Maximum Rate:** The rate will not go above _____

☐ **Minimum Rate:** The rate will not go below _____

Post Maturity Rate: I agree to pay interest on the principal owing after maturity, and until paid in full, as stated below:

☒ on the same fixed or variable rate basis in effect before maturity (as indicated above).

☐ at a rate equal to _____

☐ **ADDITIONAL CHARGES:** In addition to interest, I ☐ have paid ☐ agree to pay the following additional charges _____

PAYMENTS: I agree to pay this note as follows:

☒ **Interest:** I agree to pay accrued interest WITH THE PRINCIPAL ON JULY 15 1987; JAN. 15 AND JULY 15, 1988, 1989, 1990, 1991, AND JAN. 15, 1992

☒ **Principal:** I agree to pay the principal PAYMENT OF $8400.00 ON JULY 15, 1987; JAN. 15 AND JULY 15, 1988, 1989, 1990, 1991; AND JAN 15, 1992

☐ **Installments:** I agree to pay this note in ____ payments. The first payment will be in the amount of $ _____ and will be due _____, 19 ____. A payment of $ _____ will be due on the _____ day of each _____ thereafter. The final payment of the entire unpaid balance of principal and interest will be due _____, 19 ____.

☒ **Effect of Variable Rate:** An increase in the interest rate will have the following effect on the payments:

☐ The amount of each scheduled payment will be increased.

☐ The amount of the final payment will be increased.

☒ AMOUNT OF ACCRUED INTEREST PAID.

ADDITIONAL TERMS:

☐ **SECURITY:** This note is secured by : _____

☐ If checked, no agreement was signed today securing this note.

(This section is for your internal use. It may not include every agreement or item of collateral securing this note. You will not lose any security by omitting it from this section.)

SIGNATURES: I AGREE TO THE TERMS OF THIS NOTE (INCLUDING THOSE ON THE OTHER SIDE). I have received a copy on today's date.

HAMILTON COUNTY BOARD OF COMMISSIONERS

x Jere Roudebush

x George F. Stevens

x [illegible]

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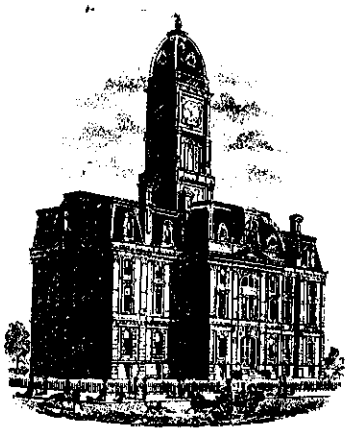

SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

776-9626

Noblesville, Ind. 46060

January 8, 1987

TO: Hamilton County Drainage Board

RE: Deerfield Drain

On November 12, 1986, I made the final inspection on the construction of the Deerfield Drain by Sweeney Construction. At that time I found the project to be complete and acceptable.

During the course of the project quite a bit of extra work was ordered. This was necessary because of the number of additional tiles found and various problems encountered. THe extra work ordered can be found in the change orders to Sweeney Construction dated, July 2, 1986, July 14, 1986, July 22, 1986, July 31, 1986, August 18, 1986, August 22, 1986, August 29, 1986, Sepptember 12, 1986, September 16, 1986, September 19, 1986, October 21, 1986, and October 28, 1986. The total cost of these additions is $16,786.40.

The contract cost was $68,115.00. With the additional work the final cost is $84,902.40.

The original estimate was $83,481.95. However, with the additional costs paid by the Foits and Lumengs (hearing held for additiona on October 14, 1986) of $1,837.50, the estimate increases to $85,319.45. Therefore, the project is within budget. At this time the contractor has been paid $81,591.34. The remainder will be paid with the February claims. The bank load from ANB for $84,000.00 has been credited to the Deerfield Drain account in the Auditors Office.

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Additional lenght to the drain is as follows:

1. 250 feet of 8" on West side of Culpepper Drive to STR. 33
2. 225 feet of 6" from Str. 4 for Lot 2
3. 240 feet of 6" across the Foit and Lumeng properties
4. 250 feet of 6" for Lot 34
5. 200 feet of 6" for Lot 21

With the additional footage of 1165 feet, the total length for the drain is 6778 feet. A mylar is now being preparded showing the regulated drain.

Kenton C. Ward
Hamilton County Surveyor

KCW/no

FILED
JUL 12 [illegible]
HAMILTON COUNTY DRAINAGE BOARD

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DEERFIELD, SECTIONS ONE AND TWO

A SUBDIVISION OF HAMILTON COUNTY, INDIANA

Renovation and Improvement of Existing Storm Drainage System

Sheet No.	Description
1	Cover Sheet
2	Site Plan and Topographic Map
3	Profile Sheet
4	Profile and Detail Sheet
5	Listing of Recommended Improvements

Prepared for:
Deerfield Civic Association
9733 Deerfield Mall
Carmel, Indiana 46032

Prepared by:
David B. H. Best, R.L.S.
5402 Washington Boulevard
Indianapolis, Indiana 46220

HAMILTON COUNTY INDIANA

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: 2-5-04

Entered by: JOH

David B. H. Best

DAVID B. H. BEST
8568
STATE OF INDIANA
LAND SURVEYOR

8-22-85

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TBM: CROSS CUT IN SOUTH SIDE OF MANHOLE RIM OF STR. NO. 5 LOCATED AT INTERSECTION OF THE MALL AND WOODFORD DRIVE. ELEV. = 834.75 (U.S.G.S. DATUM). — BM#1

BM#2 - [X] CUT IN CURB SOUTH SIDE OF INTERSECTION DEERFIELD CIR. & THE MALL ELEV 845.29

BM#3 - [X] CUT IN CONC DRIVE ON WEST SIDE OF CULDESAC ON BRANDON CT. ELEV 845.41

BM#4 - X IN CONC LAMPPOST ON SOUTH SIDE OF CULPEPPER CIR. & DEERFIELD CIR. ELEV 852.71

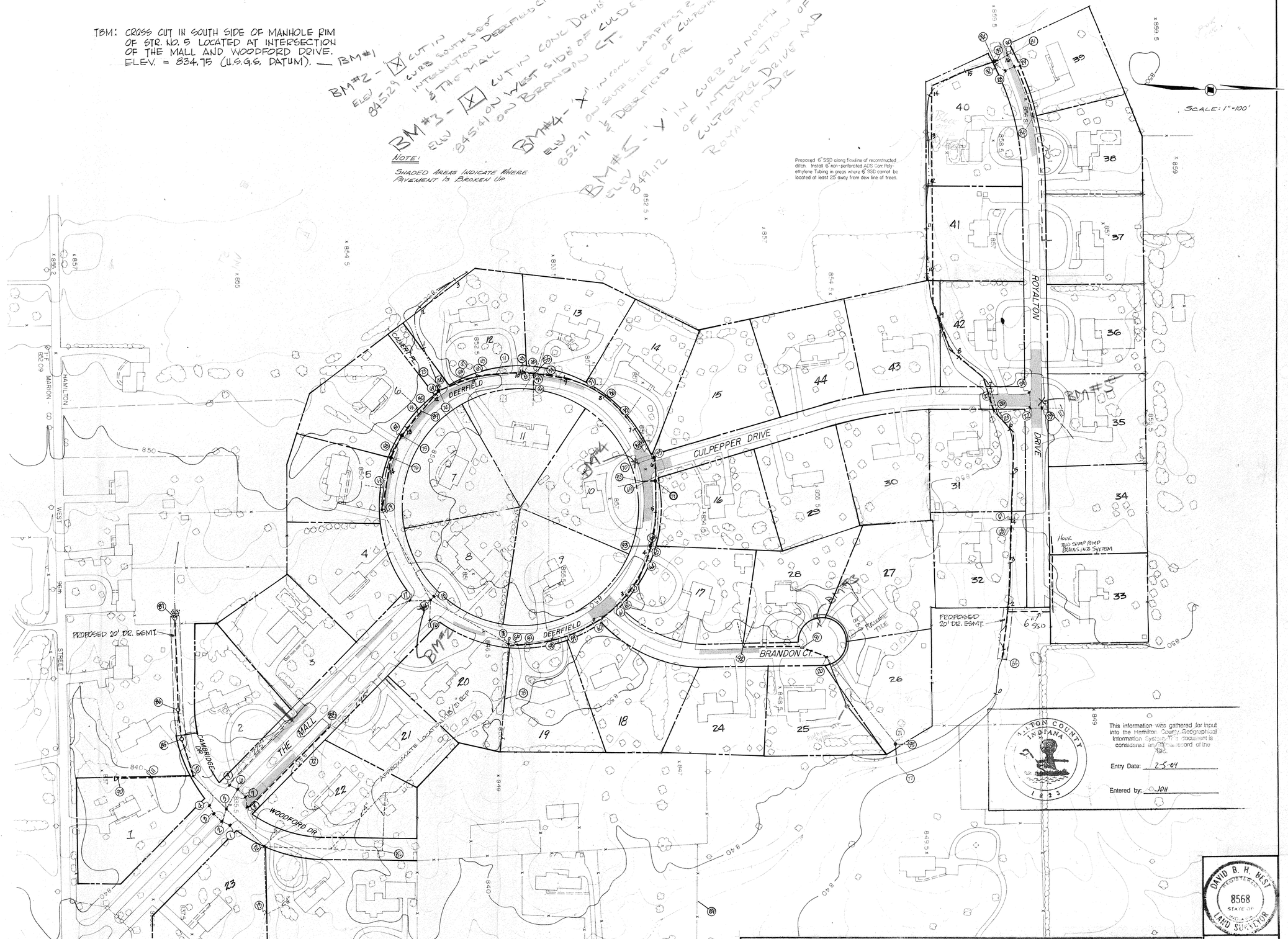
BM#5 - X IN CURB ON NORTH SIDE OF INTERSECTION OF CULPEPPER DRIVE AND ROYALTON DR ELEV 849.12

NOTE:

SHADED AREAS INDICATE WHERE PAVEMENT IS BROKEN UP.

Proposed 6" SSD along flowline of reconstructed ditch. Install 6" non-perforated ADS Corr. Polyethylene Tubing in areas where 6" SSD cannot be located at least 25' away from dew line of trees.

SCALE: 1" = 100'



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Entry Date: 2-5-04

Entered by: JDH

DAVID B. H. BEST REGISTERED 8568 STATE OF INDIANA LAND SURVEYOR

SITE PLAN & TOPOGRAPHIC MAP

DEERFIELD, Sections One and Two

HAMILTON COUNTY, INDIANA

Certified By	Scale	Dwn. By	Ckd. By:	Date:
David B. H. Best	1" = 100'	D.B.		8-22-85

REVISIONS

SHEET NO. 2 OF 5

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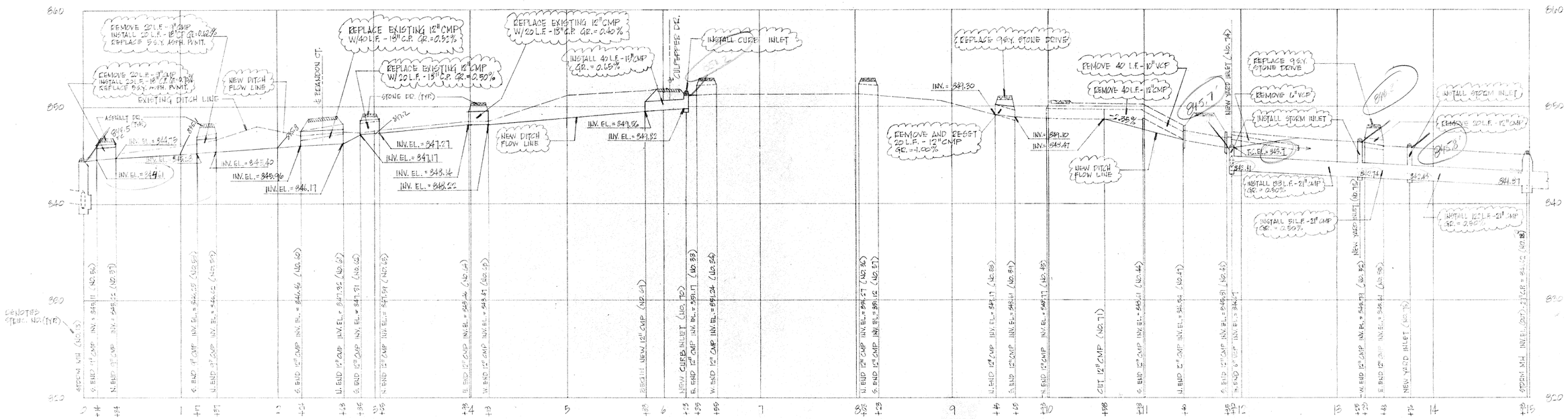
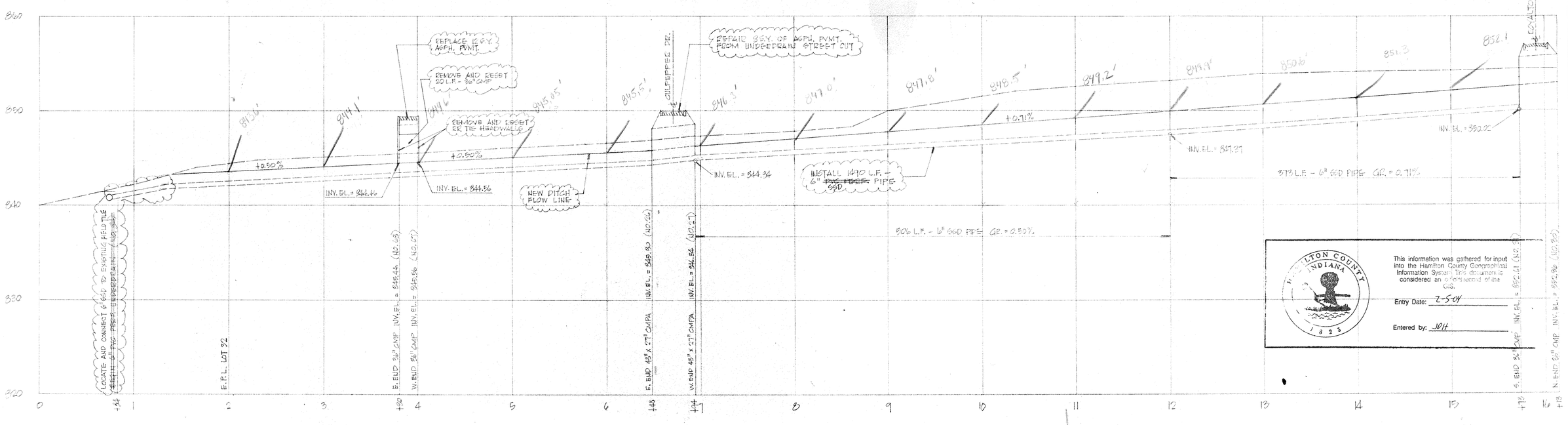
NOTE: SEE SHEET 2 OF 5 FOR PLAN.



PROFILE OF DEERFIELD CIRCLE SIDE DITCH

SCALE: HORI. 1" = 50'
VERT. 1" = 5'



PROFILE OF DRAINAGE DITCH IN EASEMENT THROUGH LOTS 32, 31, 42, 41, 40 AND 39

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Entry Date: 2-5-04
Entered by: JOH

PROFILE SHEET

DEERFIELD, Sections One and Two
HAMILTON COUNTY, INDIANA

Certified By	Scale	Dwn. By	Ckd. By	Date
David B. H. West	50 & 5	D.B.		8-22-85

REVISIONS

10-27-86	DEERFIELD CIRCLE CULVERT LENGTH
1-27-86	REPLACE 18" CP WITH 18" CMP & 12" CMP WITH 18" CMP
6-11-86	REVISED CULVERT LENGTHS
6-11-86	REVISED CULVERT LENGTHS
	ADD 18" CMP TO CULDESPEE DR.

DAVID B. H. WEST 8568 STATE OF INDIANA

SHEET NO 3 OF 5

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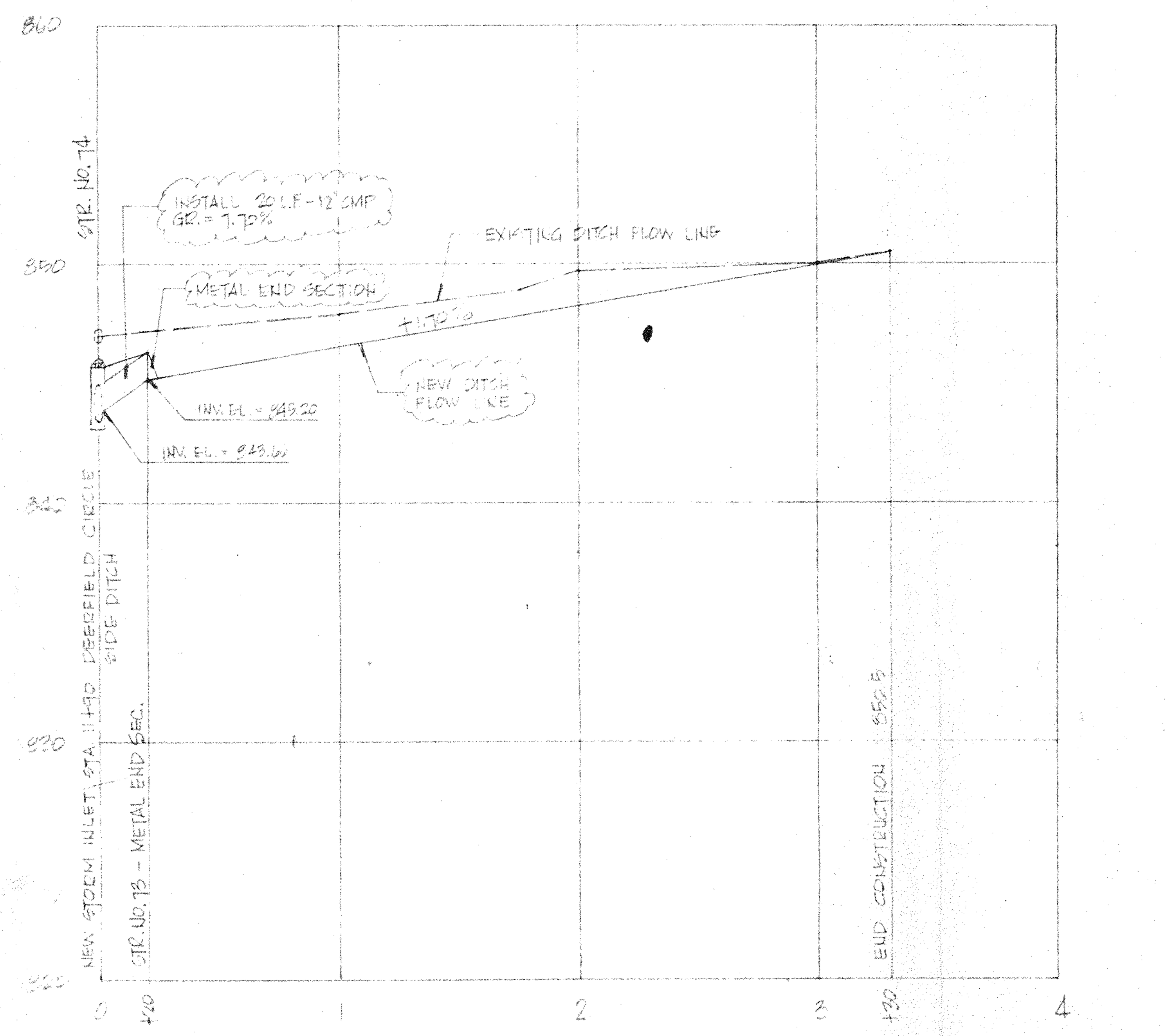
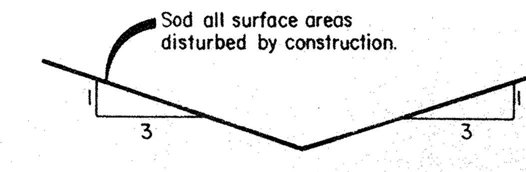


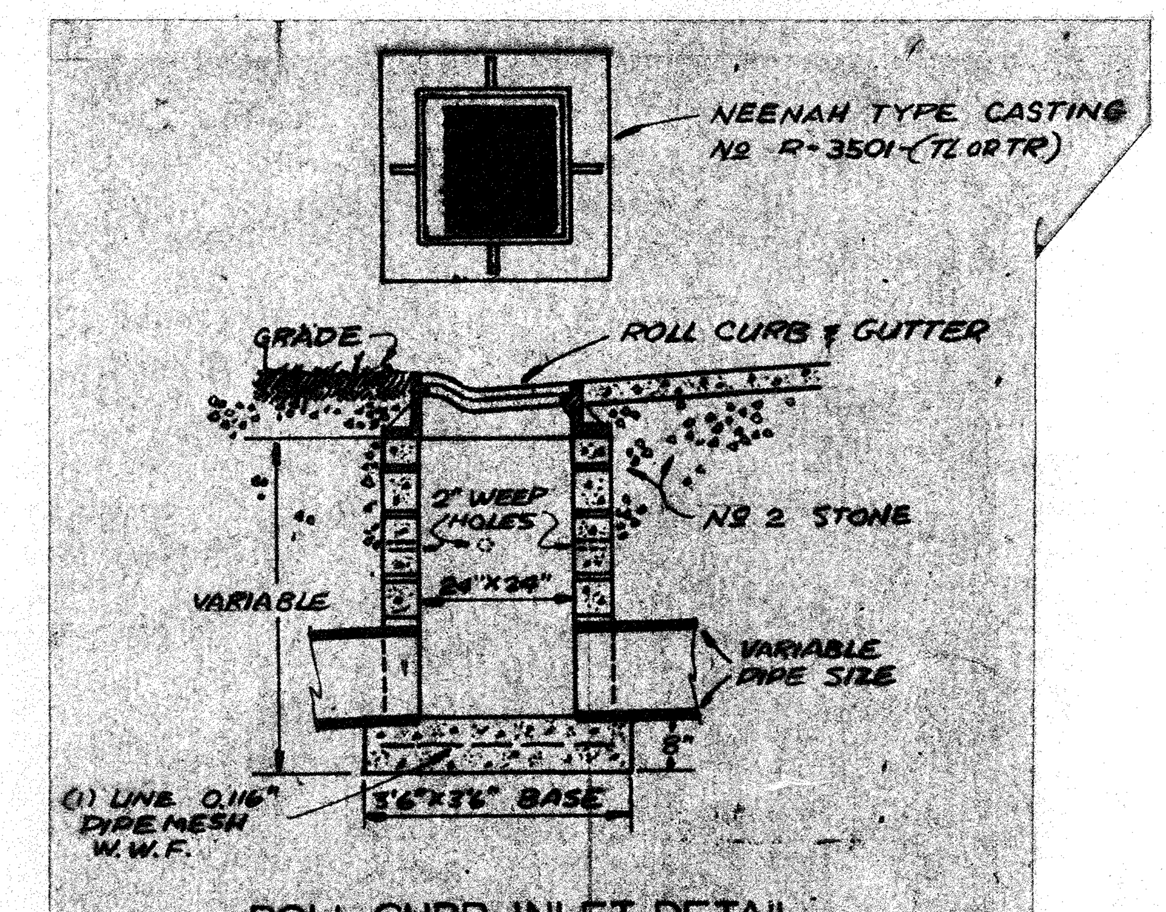
PROFILE OF CALVERT STREET DRAINAGE SWALE

SCALE: HORI. 1" = 50'
VERT. 1" = 5'

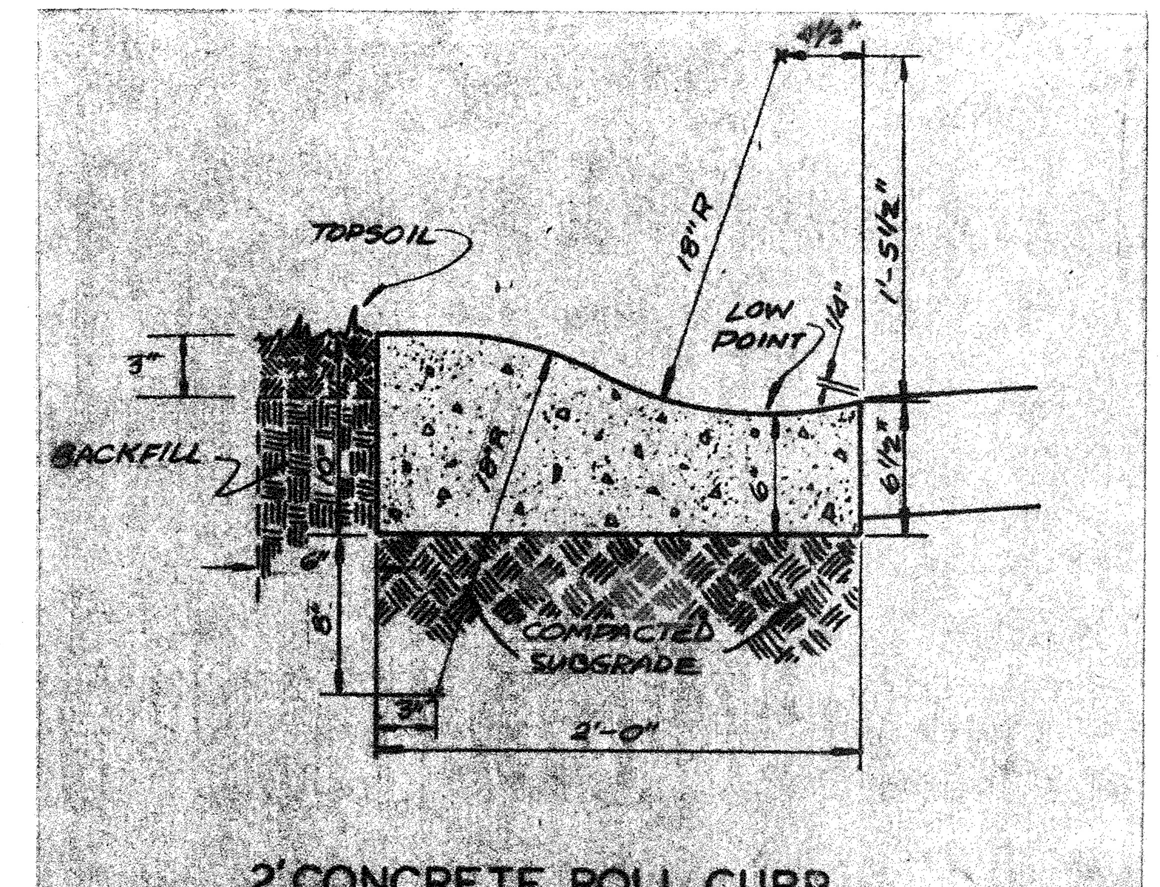


DEERFIELD CIRCLE SIDE DITCH X-SECTION

No scale.



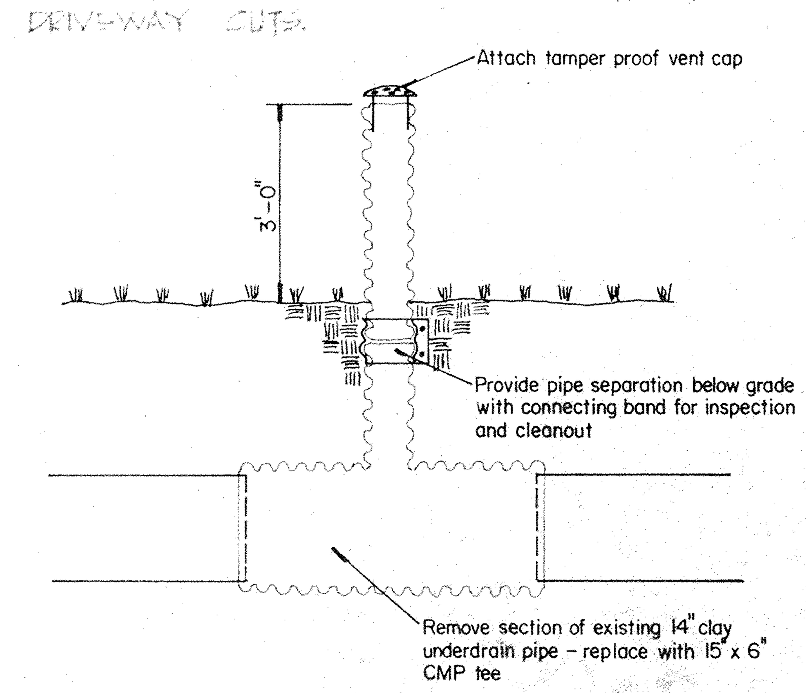
ROLL-CURB INLET DETAIL



2' CONCRETE ROLL CURB AND GUTTER TYPE 1

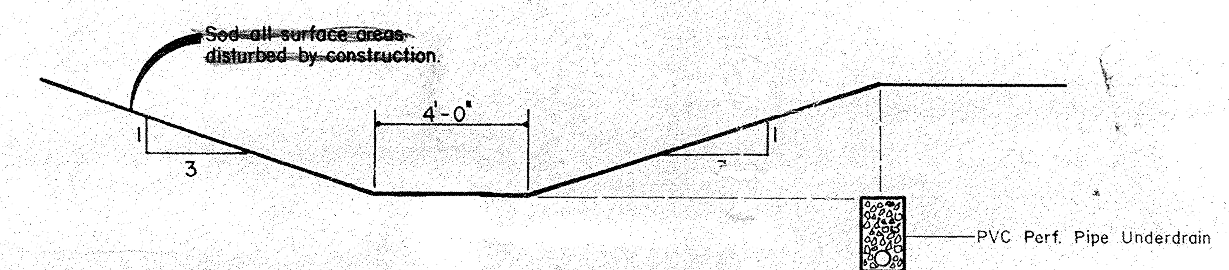
∘GENERAL NOTES∘

1. ALL WORK TO BE DONE IN ACCORDANCE WITH SPECIFICATIONS AND REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS OF HAMILTON COUNTY, INDIANA.
2. CONTRACTOR RESPONSIBLE FOR VERIFYING LOCATION OF ALL UNDERGROUND UTILITY LINES WITHIN LIMITS OF CONSTRUCTION.
3. SAND BACKFILL REQUIRED IN ALL STREET AND DRIVEWAY CUTS.



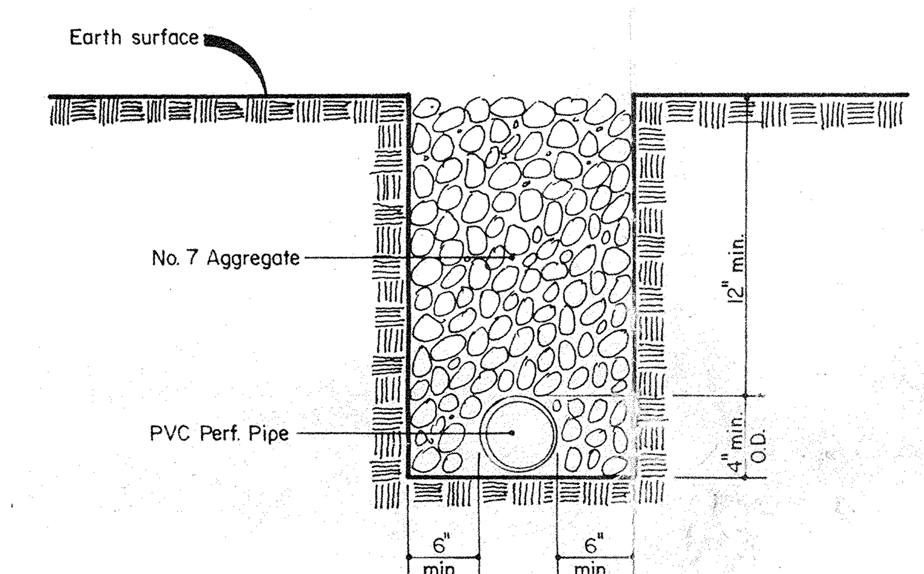
DETAIL OF VENT PIPE AT DRAINAGE POINT 81

No scale



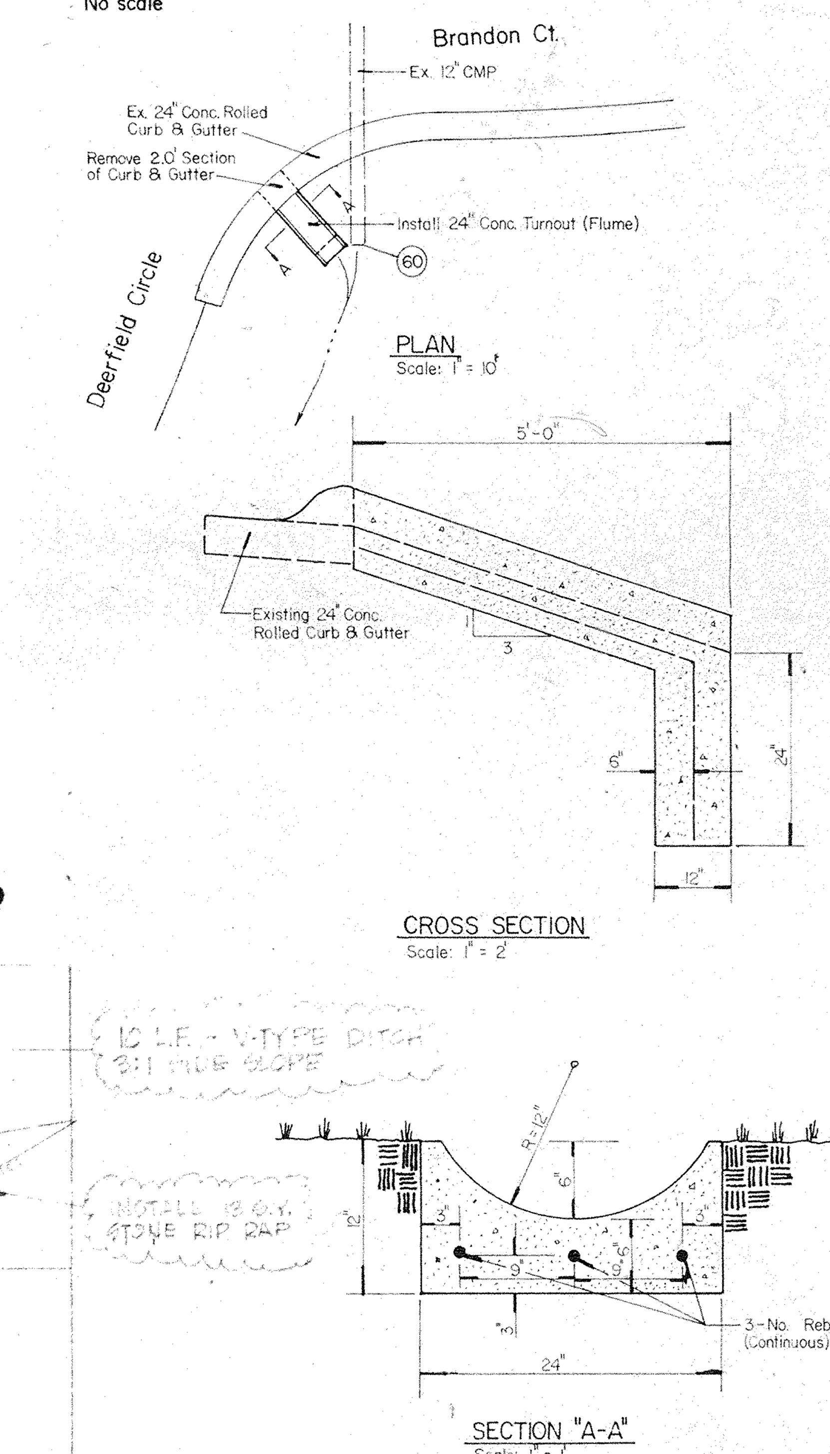
X-SECTION OF DRAINAGE DITCH THRU LOTS 32, 31, 42, 41, 40 and 41.

No scale.

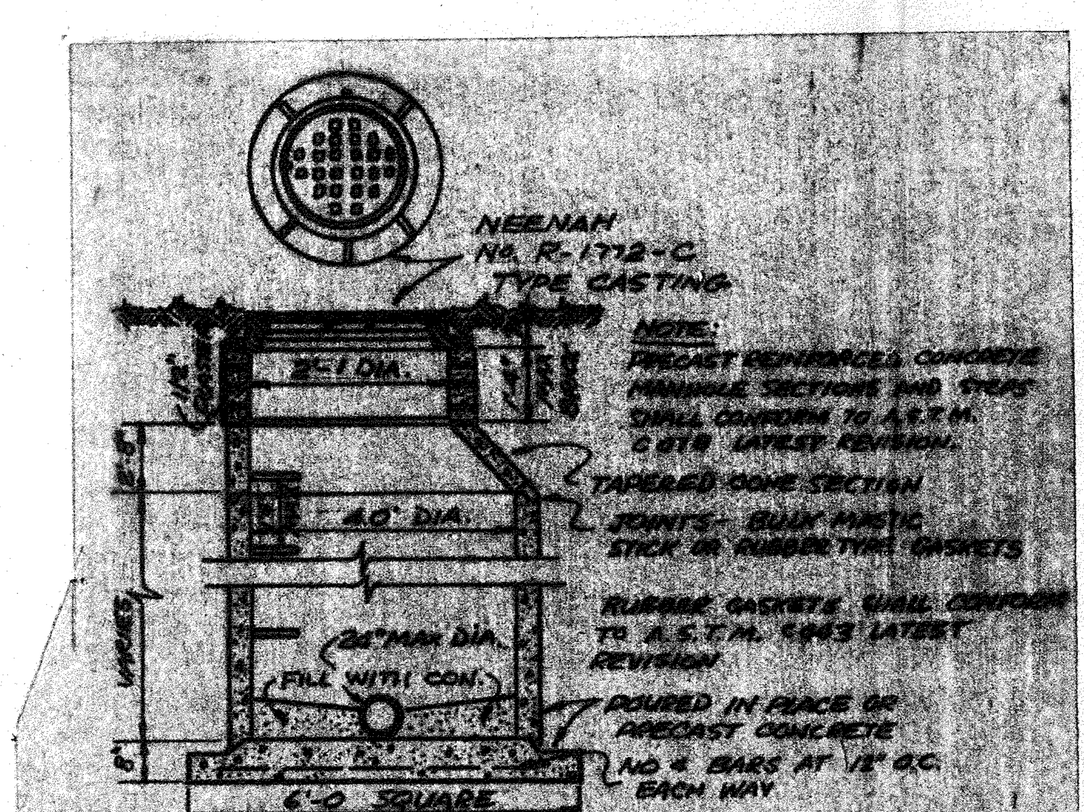


PIPE UNDERDRAIN

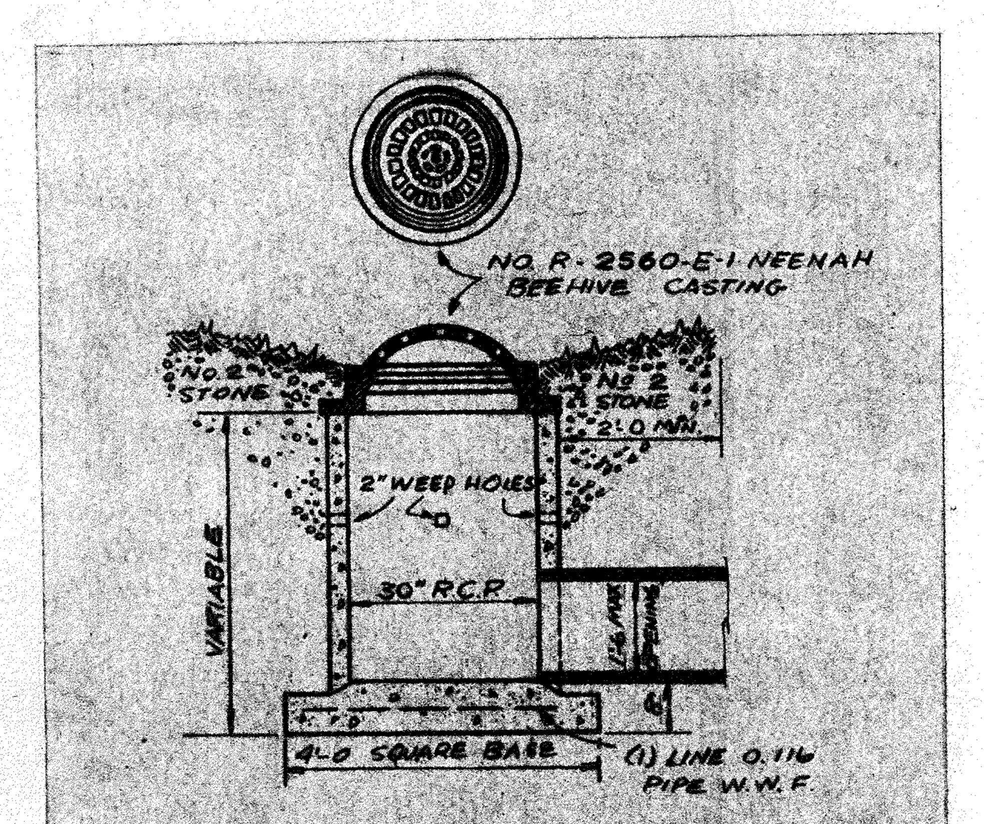
No scale.



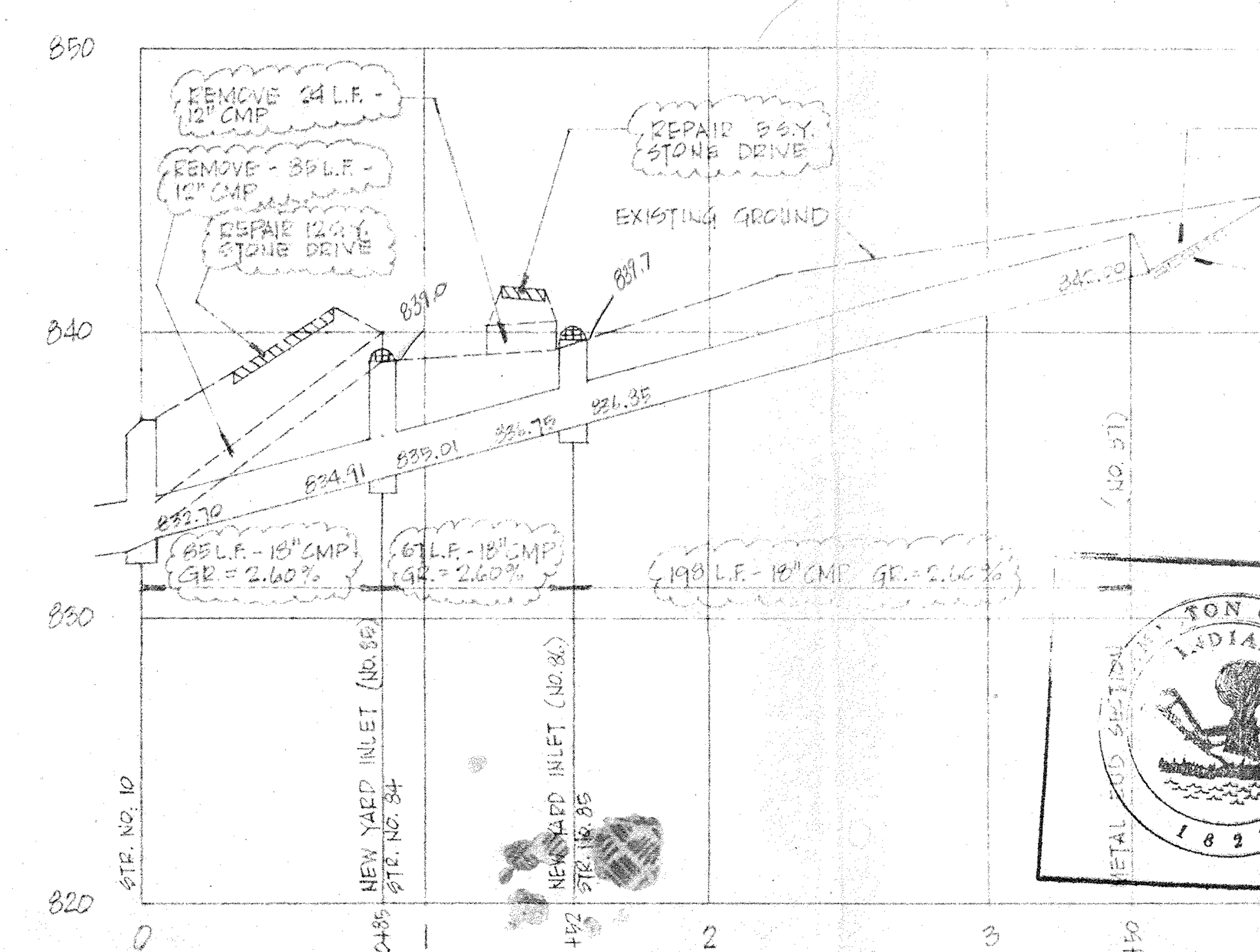
DETAIL OF TURNOUT AT DRAINAGE POINT 60



PRECAST REINFORCED CONCRETE MANHOLE FOR SANITARY SEWER



INLET DETAIL with BEEHIVE TYPE CASTING YARD AREA



PROFILE OF STORM SEWER FROM STR. NO. 10 TO STR. NO. 87

SCALE: HORI. 1" = 50'
VERT. 1" = 5'

HAMILTON COUNTY INDIANA 1823

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Entry Date: 2-5-04

Entered by: JDH

DAVID B. H. BEST 8568 LAND SURVEYOR

PROFILE AND DETAIL SHEET

DEERFIELD, Sections One and Two
HAMILTON COUNTY, INDIANA

REVISIONS	
9-27-85	Pipe size Str. 73 to Str. 74.
1-10-86	X-sec. of Dr. Ditch thru Lots 32, 31, 42, 41 and 40.

Certified By:	Scale:	Dwn. By	Ckd. By:	Date:
David B. H. Best	As noted.	D.B.		8-22-85

SHEET NO 4 OF 5

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DEERFIELD, Sections One and Two
A subdivision of Hamilton County, Indiana

The following is a study of the existing storm drainage system of this subdivision with recommendations to upgrade the system to meet the standards of the Board of County Commissioners of Hamilton County, Indiana, and to qualify for acceptance by the Commissioners as a regulated drain. Refer to Sheet No. 2 of 5 for structure locations.

Structure Number	Structure No. Stationing or Location	Descriptive Comments and Recommendations
1	The Mall at Woodford Dr.	Existing curb inlet. Acceptable condition. No work required. (AC/NWR)
2	"	Existing curb inlet. Remove small branches from inlet bottom.
3	"	Existing curb inlet. AC/NWR.
4	"	Existing curb inlet. Silted full. Remove silt from inlet. Clean out silt from 24 L.F. of 12" RCP from Str. No. 3 to Str. No. 4.
5	"	Existing storm manhole. AC/NWR.
6	"	Existing curb inlet. AC/NWR
7	"	Existing curb inlet. Remove gravel from inlet bottom.
8	"	Existing curb inlet. Remove gravel from inlet bottom. Clean out gravel from 28 L.F. of 12" RCP from Str. No. 8 to Str. No. 7. Connect new 6" SSD to Str. No. 8 from Str. No. 72.
9	"	Existing curb inlet. AC/NWR.
10	Cambridge Dr.	Existing storm manhole. Remove existing 12" CMP located within existing 18"RCP stub out located at west side of manhole. Connect new 18"CMP to 18"RCP stub out. Lower manhole casting to meet existing ground.
11	W. line Lot 1	Existing storm inlet. Tap new 12"CMP into Str. No. 11 from Str. No. 90. Inv. el. (in) = 834.50. See Str. No. 90 notes.
12	NW/c Lot 23	Existing storm manhole. AC/NWR.
13	N. line Lot 23	Downstream end of existing 21"RCP. AC/NWR.
14	The Mall and Deerfield Cir.	Existing storm manhole. AC/NWR.
15	"	Existing curb inlet. AC/NWR.
16	"	Existing curb inlet. Remove broken conc. and gravel from inlet bottom.
17	"	Existing curb inlet. AC/NWR.
18	Sta. 0+00 Deerfield Cir. (D.Cir.)	Existing storm manhole. Tap new 6"SSD into north side of Str. No. 18. Install 570 L.F. of new 6"SSD from Str. No. 18 to Str. No. 79. STR. 18 LOWERED APPROX. 1'?
19	Sta. 14+98 D. Cir.	Existing storm manhole. Place and compact No. 2 stone between Str. No. 19 and edge of pavement. Tap new 21"CMP into west side of manhole. See Sheet 3 of 5 for details.
20	SW/c Lot 25	Existing curb inlet. Remove gravel from inlet bottom. Tap new 12" C-1411 CP into west side of inlet. See Str. No. 91 notes. Replace 222 L.F. of existing 12"CMP with 15"RCP @ 0.62% from Str. No. 20 to Str. No. 21. Upstream el. = 842.66. Downstream el. = 841.24.
21	SE/c Lot 26	Downstream end of existing 12"CMP from Str. No. 20. Remove existing headwall. See Str. No. 20 notes. Install 50 L.F. of 6"SSD from Str. No. 21 to Str. No. 77. Construct V-type ditch above 6"SSD w/3:1 side slopes. Install French drain.
22	Royalton Dr. & Culpepper Dr.	Existing curb inlet. Remove gravel and silt from inlet bottom. Clean out silt from 73 L.F. of 15"CMP from Str. No. 22 to Str. No. 25. Remove and replace 15 L.F. of 24" conc. rolled curb and gutter at curb radius adjacent to Str. No. 24. Lower Str. No. 24 casting.
23	"	Existing curb inlet. Remove gravel and silt from inlet. Clean out gravel and silt from 24 L.F. of 12"CMP from Str. No. 23 to Str. No. 22.
24	"	Existing curb inlet. Remove gravel and silt from inlet. Clean out gravel and silt from 24 L.F. of 12"CMP from Str. No. 24 to Str. No. 22. Remove and replace 15 L.F. of 24" conc. rolled curb and gutter at curb radius adjacent to Str. No. 24. Lower casting on Str. No. 24.
25	W. line Lot 31	Downstream end of existing 15"CMP filled with 12" of silt. See Str. No. 22 notes.
26	W. line Lot 31	Downstream end of existing 43"x27"CMPA with 12" of silt. Clean out 40 L.F. of 43"x27"CMPA from Str. No. 26 to Str. No. 27.
27	E. line Lot 42	Upstream end of existing 43"x27"CMPA with 12" of silt. See Str. No. 26 notes.
28	Royalton Dr. at Lot 40	Existing curb inlet. Remove silt from inlet. Clean out silt from 25 L.F. of 12"CMP from Str. No. 28 to Str. No. 32.
29	Royalton Dr. at Lot 39	Existing curb inlet. Remove silt from inlet. Clean out silt from 24 L.F. of 12"CMP from Str. No. 29 to Str. No. 28.
30	Royalton Dr. at Lot 39	Upstream end of existing 36"CMP. Clean out 18" of silt from 40 L.F. of 36"CMP from Str. No. 30 to Str. No. 31.
31	Royalton Dr. at Lot 40	Downstream end of existing 36"CMP with 21" of silt. See Str. No. 30 notes. Upstream end of new 6"SSD from Str. No. 84 ends at Str. No. 31. Install French drain.
32	Royalton Dr. at Lot 40	Downstream end of existing 12"CMP with 6" of silt. See Str. No. 28 notes. Install French drain.
33	Sta. 6+35 D. Cir.	Downstream end of existing 12"CMP. AC/NWR.
34	Sta. 6+55 D. Cir.	Upstream end of existing 12"CMP. AC/NWR.
35	Sta. 7+40	Downstream end of existing 4" clay tile.
36	Sta. 8+03 D. Cir.	Upstream end of existing 12"CMP. AC/NWR.
37	Sta. 8+23 D. Cir.	Downstream end of existing 12"CMP. Correct mashed down end of pipe.
38	Sta. 9+45 D. Cir.	Upstream end of existing 12"CMP. Remove, clean out and reset 20 L.F. of existing 12"CMP from Str. No. 38 to Str. No. 39. Repair 9 S.Y. of stone drive. See Sheet 3 of 5 for details. PIPE WAS RUSTED OUT, WAS REPLACED.
39	Sta. 9+65 D. Cir.	Downstream end of existing 12"CMP with 2" of silt. See Str. No. 38 notes.
40	Sta. 9+65 D. Cir.	Downstream end of existing 4" clay tile. Connect to new 6"SSD.
41	Sta. 9+70 D. Cir.	Downstream end of 2"PVC pipe. Connect to new 6"SSD.
42	Sta. 9+67 D. Cir.	Downstream end of existing 6"PVC pipe. See Str. No. 55 notes.
43	Sta. 9+98 D. Cir.	Upstream end of existing 12"CMP. AC/NWR.
44	Sta. 10+98 D. Cir.	Downstream end of existing 12"CMP. See Str. No. 71 notes.
45	Sta. 10+98 D. Cir.	Upstream end of existing 10"VCP. Remove 40 L.F. of existing 10"VCP from Str. No. 45 to Str. No. 46. See Sheet 3 of 5 for details.
46	Sta. 11+40 D. Cir.	Downstream end of existing 10"VCP. See Str. No. 45 notes.
47	Sta. 11+40 D. Cir.	Conc. headwall at upstream end of existing 12"CMP silted full. Clean out silt from 18L.F. of existing 12"CMP from Str. No. 47 to Str. No. 48.
48	Sta. 11+85 D. Cir.	Conc. headwall at downstream end of existing 12"CMP with 10" of silt. See Str. No. 47 notes.
49	Sta. 11+90 D. Cir.	Upstream end of existing 6" clay tile. Remove tile.
50	Sta. 12+45 D. Cir.	Top of existing 6" clay tile. Remove tile.
51	Sta. 12+65 D. Cir.	Top of existing 6" clay tile. Remove tile.
52	Sta. 13+28 D. Cir.	Upstream end of existing 12"CMP. Remove 20 L.F. of 12"CMP from Str. No. 52 to Str. No. 53. See Sheet 3 of 5 for replacement of pipe details.
53	Sta. 13+48 D. Cir.	Downstream end of existing 12"CMP. See Str. No. 52 notes.
54	Sta. 14+48 D. Cir.	Downstream end of existing 4" clay tile. CONNECT TO STR. NO. 19 WITH 6"SSD.
55	SE/c Lot 13	Downstream end of new 6"CMP. Install 30 L.F. of new 6"CMP. Connect to existing 6" pipe at Str. No. 42. Connect downstream end of new 6"CMP to new 6"SSD at Str. No. 55.
56	Sta. 0+14 D. Cir.	Downstream end of existing 9"CMP. Remove 20 L.F. of existing 9"CMP from Str. No. 56 to Str. No. 57. Replace with 20 L.F. of new 18"RCP. Repair 5 S.Y. of asphalt pavement. See Sheet 3 of 5 for details.
57	Sta. 0+34 D. Cir.	Upstream end of existing 9"CMP. See Str. No. 56 notes.
58	Sta. 1+17 D. Cir.	Downstream end of existing 9"CMP. Remove 20 L.F. of existing 9"CMP from Str. No. 58 to Str. No. 59. Replace with 20 L.F. of new 18"RCP. Repair 5 S.Y. of asphalt pavement. See Sheet 3 of 5 for details.
59	Sta. 1+37 D. Cir.	Upstream end of existing 9"CMP. See Str. No. 58 notes.
60	Sta. 2+24 D. Cir.	Downstream end of existing 12"CMP with 6" of silt. See Str. No. 61 notes. Install curb turn out at Str. No. 60.
61	Sta. 2+68 D. Cir.	Replace existing 12"CMP with 40 L.F. of 18"RCP from Str. No. 61 to Str. No. 60. See Sheet 3 of 5 for details.
62	Sta. 2+85 D. Cir.	See Str. No. 63 notes.
63	Sta. 3+05 D. Cir.	Replace existing 12"CMP with 20 L.F. of 18"RCP from Str. No. 63 to Str. No. 62. See Sheet 3 of 5 for details.
64	Sta. 3+98 D. Cir.	See Str. No. 65 notes.
65	Sta. 4+18 D. Cir.	Replace existing 12"CMP with 20 L.F. of 18"RCP from Str. No. 65 to Str. No. 64. See Sheet 3 of 5 for details.
66	Sta. 4+25 D. Cir.	Downstream end of existing 4"PVC pipe.
67	Lot 32	Upstream end of existing 36"CMP with RR tie headwall. Remove and reset 20L.F. of existing 36"CMP from Str. No. 67 to Str. No. 68. Rebuild RR tie headwalls. See Sheet 3 of 5 for details.
68	Lot 32	Downstream end of existing 36"CMP with RR tie headwall. See Str. No. 67 notes.
69	Sta. 5+83 D. Cir.	Downstream end of new 12"CMP. Install 40 L.F. of new 12"CMP from Str. No. 69 to Str. No. 70. See Sheet 3 of 5 for details.
70	Sta. 6+23 D. Cir.	Install new yard inlet at end of existing conc. rolled curb and gutter. See Sheet 3 of 5 for details.
71	Sta. 10+58 D. Cir.	Cut existing 12"CMP. Remove 40 L.F. of existing 12"CMP from Str. No. 71 to Str. No. 44. See Sheet 3 of 5 for details.
72	Wly/c Lot 22	Connect existing sump pump drain to new 6"SSD. Install 180 L.F. of new 6"SSD from Str. No. 8 to Str. No. 72. Tap new 6"SSD into Str. No. 8. See Sheet 2 of 5.
73	Sta. 0+20 Calvert Pl.	Upstream end of new 12"CMP with metal end section. Install 30 L.F. of new 12"CMP from Str. No. 74 to Str. No. 73. See Sheet 4 of 5 for details.
74	Sta. 0+00	Install new yard inlet. See Sheet 4 of 5 for details. Install 450 L.F. of new 6"SSD from Str. No. 74 to Str. No. 85.
75	Sta. 13+25 D. Cir.	Install new yard inlet. See Sheet 3 of 5 for details.
76	Sta. 13+75 D. Cir.	Install new yard inlet. See Sheet 3 of 5 for details.
77	NE from SE/c Lot 26	Broken existing field tile. Unearth tile for inspection. Consult with surveyor for remedial action to be taken.
78	S. line Lot 19	Sinkhole at approximate location of connection of existing 18" and 21" pipes. Unearth pipes for inspection. New storm manhole with Neenah R-2502-B casting w/type "B" grate or approved equal at Str. No. 78. Consult with surveyor for remedial action to be taken.
79	Sta. 5+70 D. Cir.	Install 30 L.F. of new 6"CMP from Str. No. 79 to Str. No. 83. Connect to existing 4"VCP at Str. No. 83. Repair 5 S.Y. of asphalt pavement. New yard inlet.
80	SW/c Lot 38	Downstream end of existing sump pump drain. Inspect for size. Connect new pipe ~~of same size~~ and install 120 L.F. of ~~same size~~ 6"PVC pipe along north side of Royalton Drive curb to Str. No. 29. Tap into Str. No. 29. Repair 5 S.Y. of asphalt pavement in Lot 39 driveway.
81	335' east of Lot 24	Install breather in existing 14" underdrain.
82	SE from NE/c Lot 22	Approximate location of angle point in existing storm sewer from Str. No. 12 to Str. No. 13. Unearth pipe for inspection. New storm manhole proposed at this location. See Str. No. 78 notes for casting designation.
83	Sta. 5+70 D. Cir.	Downstream end of existing 4"VCP sump pump drain. See Str. No. 79 notes.
84	Sta. 0+84 Existing Dr. Ditch	Downstream end of new 6"SSD. Install 1490 L.F. of new 6"SSD from Str. No. 84 to Str. No. 31. See Sheets 2 of 5, 3 of 5 and 4 of 5 for details. Connect Str. No. 84 to existing drain tile.
85	South of S. line Lot 2	Install new yard inlet. Remove 85 L.F. of existing 12"CMP. Install 85 L.F. of new 18"CMP from Str. No. 10 to Str. No. 85. See Sheets 2 of 5 and 4 of 5 for details.
86	South of S. line Lot 2	Install new yard inlet. Remove 24 L.F. of existing 12"CMP. Install 57 L.F. of new 18"CMP from Str. No. 85 to Str. No. 86. See Sheets 2 of 5 and 4 of 5 for details.
87	SW from SW/c Lot 2	Upstream end of new 18"CMP with metal end section. Install 198 L.F. of new 18"CMP from Str. No. 85 to Str. No. 87. See Sheets 2 of 5 and 4 of 5 for details.
88	Sly/c Lot 21	Connect existing sump pump drain to new 6"SSD. Install 80 L.F. of new 6"SSD from Str. No. 72 to Str. No. 88.
89	N. line Lot 5	Connect existing sump pump drain to new 18"RCP.
90	W. line Lot 1	Install metal end section at upstream end of new 12"CMP. Install 80 L.F. of new 12"CMP from Str. No. 11 to Str. No. 90. Downstream el. = 834.50. Upstream el. = 836.00. Gr. = 1.88%. Tap new 12"CMP into Str. No. 11.
91	E. line Lot 28	Install new curb inlet with Neenah R-3875 casting or approved equal. Install 55 L.F. of new 12"RCP. Downstream el. = 842.70. Upstream el. = 842.98. Gr. = 0.50%. Tap new 12"RCP into Str. No. 20.
92	SE/c Lot 28	Connect two existing sump pump drains to new yard inlet at Str. No. 92. Install 130 L.F. of new 12"RCP from Str. No. 91 to Str. No. 92.
93	SW/c Lot 1	Install French drain in new 6"SSD adj. to Str. No. 66.
94	NW/c Lot 40	Install French drain in 6"SSD.
95	Ely/c Lot 25	Install French drain in 6"SSD east of Str. No. 21.

REVISIONS	
1-21-86	GENERAL REVISIONS
1-10-86	STR. NOS. 54 & 80.

LISTING OF RECOMMENDED IMPROVEMENTS
DEERFIELD, Sections One and Two
HAMILTON COUNTY, INDIANA

Certified By: [signature] | Scale: | Dwn. By: | Ckd. By: | Date: 8-22-85

SHEET NO. 5 OF 5

HAMILTON COUNTY INDIANA 1823
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Entry Date: 2-5-04
Entered by: JDH

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TELEDYNE POST N20462

EXISTING STRUCTURE SCHEDULE/STORM SEWER SCHEDULE

Struc. No.	Type of Struc.	Top Casting Elev.	Invert Elev.	Notes
1	Curb Inlet	834.85	832.06 - out	24 L.F. of 12" RCP from Str. No. 1 to Str. No. 2. Gr. = 0.67%
2	" "	834.97	831.90 - in NE 831.90 - in SW 831.82 - out	30 L.F. of 12" RCP from Str. No. 2 to Str. No. 5. Gr. = 1.07%
3	" "	834.96	832.10 - in 832.00 - out	24 L.F. of 12" RCP from Str. No. 3 to Str. No. 2. Gr. = 0.42%
4	" "	834.87	- out	24 L.F. of 12" RCP from Str. No. 4 to Str. No. 3. Gr. =
5	Manhole	834.75	831.50 - in SE 830.75 - in SW 831.00 - in NW 829.80 - out	120 L.F. of 30" RCP from Str. No. 5 to Str. No. 12. Gr. = 0.66%
6	Curb Inlet	835.32	831.66 - in SW 831.66 - in NE 831.66 - out	50 L.F. of 12" RCP from Str. No. 6 to Str. No. 5. Gr. = 1.32%
7	" "	835.17	832.13 - in 832.03 - out	24 L.F. of 12" RCP from Str. No. 7 to Str. No. 6. Gr. = 1.54%
8	" "	835.09	832.37 - out	20 L.F. of 12" RCP from Str. No. 8 to Str. No. 7. Gr. = 1.20%
9	" "	835.10	832.25 - out	20 L.F. of 12" RCP from Str. No. 9 to Str. No. 6. Gr. = 2.95%
10	Manhole	836.93	832.82 - in S 832.98 - in W 832.73 - out	105 L.F. of 21" RCP from Str. No. 10 to Str. No. 5. Gr. = 1.89%
11	Beehive Inlet	836.28	834.19 - out	95 L.F. of 21" RCP from Str. No. 11 to Str. No. 10. Gr. = 1.44%
12	Manhole	835.53	829.01 - in SW 830.96 - in NW 829.86 - in N 829.01 - out	150 L.F. of 30" RCP from Str. No. 12 to Str. No. 13. Gr. = 2.59%
13	Headwall	—	825.12 - out	
14	Manhole	845.55	840.78 - in E 840.86 - in S 840.31 - in SW 840.75 - in NW 840.08 - out	204 L.F. of 21" RCP from Str. No. 14 to Str. No. 18. Gr. = 0.21%
15	Curb Inlet	845.71	842.89 - out	13 L.F. of 12" RCP from Str. No. 15 to Str. No. 14. Gr. = 16.46%
16	" "	845.29	843.02 - out	45 L.F. of 12" RCP from Str. No. 16 to Str. No. 14. Gr. = 4.98%
17	" "	845.28	842.88 - out	45 L.F. of 12" RCP from Str. No. 17 to Str. No. 14. Gr. = 4.49%
18	Manhole	845.03	839.65 - in SW 840.01 - in W 839.39 - in NW 839.49 - out	18" RCP/21" RCP from Str. No. 18 to Str. No. 12
19	"	845.12	843.21 - in W 841.62 - out	227 L.F. of 18" RCP from Str. No. 19 to Str. No. 14. Gr. = 0.58%
20	Curb Inlet	844.78	842.66 - out	222 L.F. of 12" RCP from Str. No. 20 to Str. No. 21. Gr. = 0.95%
21	Headwall	—	841.53	
22	Curb Inlet	848.59	846.17 - in NW 846.17 - in W 846.22 - out	73 L.F. of 15" CMP from Str. No. 22 to Str. No. 25. Gr. = 6.42%
23	" "	848.43	846.31 - out	26 L.F. of 12" CMP from Str. No. 23 to Str. No. 22. Gr. = 0.54%
24	" "	849.20	846.49 - out	32 L.F. of 12" CMP from Str. No. 24 to Str. No. 22. Gr. = 1.00%
25	Downstream end of 15" CMP	—	841.53	
26	Downstream end of 27" x 43" CMPA	—	845.80	
27	Upstream end	—	846.34	46 L.F. of 27" x 43" CMPA from Str. No. 27 to Str. No. 26. Gr. = 1.17%
28	Curb Inlet	856.49	854.04 - in 853.89 - out	23 L.F. of 12" CMP from Str. No. 28 to Str. No. 32. Gr. = 2.26%
29	" "	856.60	854.57 - out	23 L.F. of 12" CMP from Str. No. 29 to Str. No. 28. Gr. = 2.30%
30	Upstream end of 36" CMP	—	852.86	40 L.F. of 36" CMP from Str. No. 30 to Str. No. 31. Gr. = 0.63%
31	Downstream end of 36" CMP	—	852.61	
32	Downstream end of 12" CMP	—	853.37	
33	Downstream end of 12" CMP	—	851.17	
34	Upstream end of 12" CMP	—	851.24	20 L.F. of 12" CMP from Str. No. 34 to Str. No. 33. Gr. = 0.35%
35	Downstream end of 4" VCP	—	851.85	
36	Upstream end of 12" CMP	—	851.27	20 L.F. of 12" CMP from Str. No. 36 to Str. No. 37. Gr. = 0.75%
37	Downstream end of 12" CMP	—	851.12	
38	Upstream end of 12" CMP	—	849.17	20 L.F. of 12" CMP from Str. No. 38 to Str. No. 39. Gr. = 2.80%
39	Downstream end of 12" CMP	—	848.61	
40	Downstream end of 4" VCP	—	850.06	
41	Downstream end of 2" PVCP	—	849.33	
42	Downstream end of 6" PVCP	—	850.70	
43	Upstream end of 12" CMP	—	848.77	100 L.F. of 12" CMP from Str. No. 43 to Str. No. 44. Gr. = 1.61%
44	Downstream end of 12" CMP	—	847.16	
45	Upstream end of 10" VCP	—	847.16	52 L.F. of 10" VCP from Str. No. 45 to Str. No. 46. Gr. = 0.71%
46	Downstream end of 10" VCP	—	846.79	
47	Headwall - upstream end of 12" CMP	—	846.54	45 L.F. of 12" CMP from Str. No. 47 to Str. No. 48. Gr. = 1.82%
48	Headwall - downstream end of 12" CMP	—	845.81	
49	Upstream end of 6" VCP	—	846.67	
50	6" VCP	—	—	
51	6" VCP	—	—	
52	Upstream end of 12" CMP	—	845.79	20 L.F. of 12" CMP from Str. No. 52 to Str. No. 53. Gr. = 0.90%
53	Downstream end of 12" CMP	—	845.61	
54	Downstream end of 4" VCP	—	844.62	
55	—	—		
56	Downstream end of 9" CMP	—	845.11	
57	Upstream end of 9" CMP	—	845.22	20 L.F. of 9" CMP from Str. No. 57 to Str. No. 56. Gr. = 0.55%
58	Downstream end of 9" CMP	—	846.25	
59	Upstream end of 12" CMP	—	846.62	20 L.F. of 9" CMP from Str. No. 59 to Str. No. 58. Gr. = 1.85%
60	Downstream end of 12" CMP	—	846.46	
61	Upstream end of 12" CMP	—	847.32	44 L.F. of 12" CMP from Str. No. 61 to Str. No. 60. Gr. = 1.95%
62	Downstream end of 12" CMP	—	847.31	
63	Upstream end of 12" CMP	—	847.59	20 L.F. of 12" CMP from Str. No. 63 to Str. No. 62. Gr. = 1.40%
64	Downstream end of 12" CMP	—	848.46	
65	Upstream end of 12" CMP	—	848.47	20 L.F. of 12" CMP from Str. No. 65 to Str. No. 64. Gr. = 0.05%
66	Downstream end of 4" PVCP	—	848.70	
67	Upstream end of 36" CMP	—	845.56	20 L.F. of 36" CMP from Str. No. 67 to Str. No. 66. Gr. = 0.60%
68	Downstream end of 36" CMP	—	845.44	

NOTE:
SHADED AREAS INDICATE WHERE PAVEMENT IS BROKEN UP

HAMILTON COUNTY INDIANA 1823

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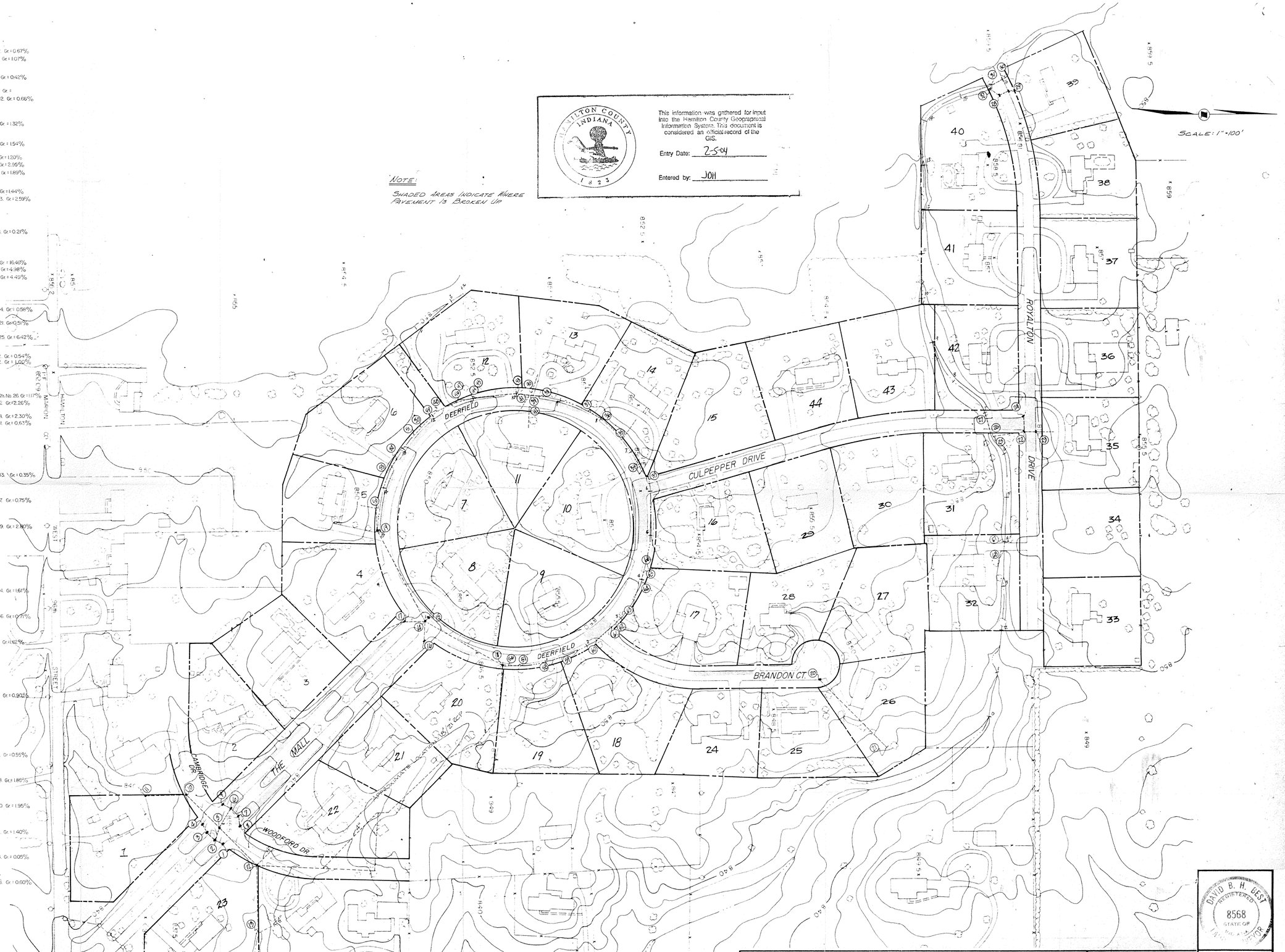
Entry Date: 2-5-04

Entered by: JOH



DAVID B. H. GEST REGISTERED 8568 STATE OF INDIANA PROFESSIONAL ENGINEER

"AS BUILT" STORM SYSTEM

DEERFIELD, Sections One and Two

HAMILTON COUNTY, INDIANA

Certified By:	Scale:	Dwn. By	Ckd. By:	Date:
David B. H. Gest	1" = 100'	D.B.		8-22-85

REVISIONS

SHEET NO. 1 OF 1

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SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, CFM
Surveyor of Hamilton County
Phone (317) 776-8495
Fax (317) 776-9628

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

Map Correction-Field Verification

Drain Number: 213

Drain Length: 6778'

Drain Name: Deerfield

Change + / - : 685'

Date: 07-09-2009

New Length: 7463'

Verified By: SLM, SAB, GRH

Notes & Sketch:

The source documents the office had on file were unclear as to the exact materials, sizes, and footages of the drain. Our office recently conducted a field investigation to clear up these details. The footages were obtained from GIS and GPS measurements. Pipe sizes and materials were verified by pulling manhole lids. It should be noted that between Str. 15 to 18 that the pipe sized is labeled as an 18". However, the upstream end is a 21" with the downstream end being an 18". The other point of interest is that upstream of Str. 78 the pipe is a 21" and downstream of Str. 78 it is an 18". Although, a mystery as to this type of instillation. This was field verified and was installed this way. Finally, it should also be clarified that there is no RCP or CMP enclosing the swale around the right of way for Deerfield Circle. The only pipes are those under the drive ways and those we have represented on the attached map. See the attached map and materials list for further details.

Suzanne L. Mills
GIS Specialist

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Gasb 34 Asset Price & Drain Length Log

Drain-Improvement: Deerfield Drain

Drain Type:	Size:	Length	Length (DB Query)	Length Reconcile	If Applicable Price:	If Applicable Cost:
CMP	12"	210	210			
VCP	12"	50	50			
RCP	12"	664	664			
CMP	15"	73	73			
RCP	15"	484	484			
RCP	18"	1373	1373			
RCP	21"	525	525			
RCP	24"	104	104			
RCP	33"	290	290			
CMPA	24X36	40	40			
CMPA	27X43	46	46			
SSD	8"	240	240			
SSD	6"	3244	3244			
OPEN DITCH	N/A	120	120			
	Sum:	7463	7463			*126,000.0

Final Report: 6778*

Comments:

*The documents used to write the final report were not very detailed or complete. These pipe sizes, materials, and footages were collected during a field inspection to verify these details. This project was bonded - so the value of this asset will remain the same.

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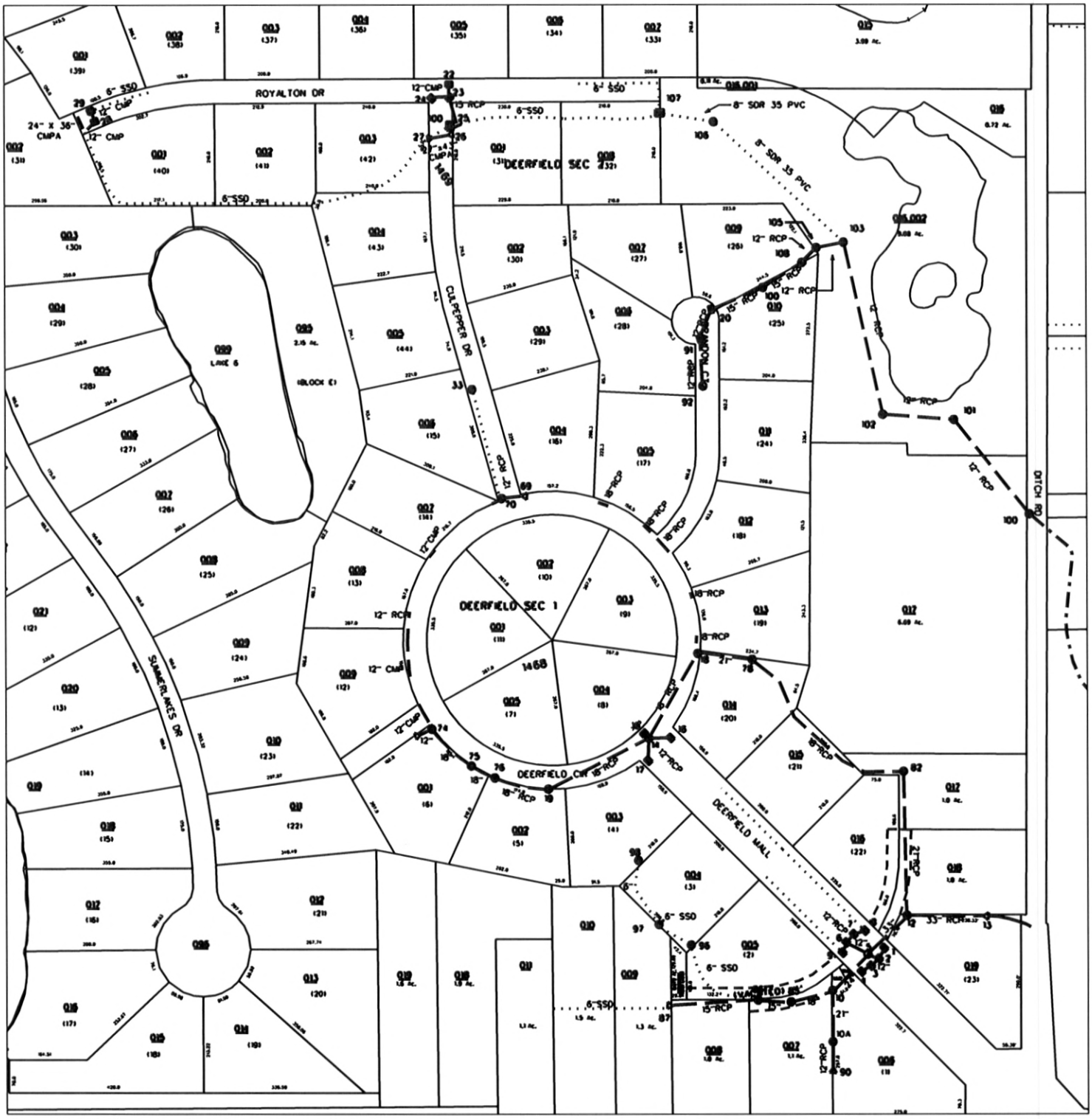
1" = 300'

N



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96th ST

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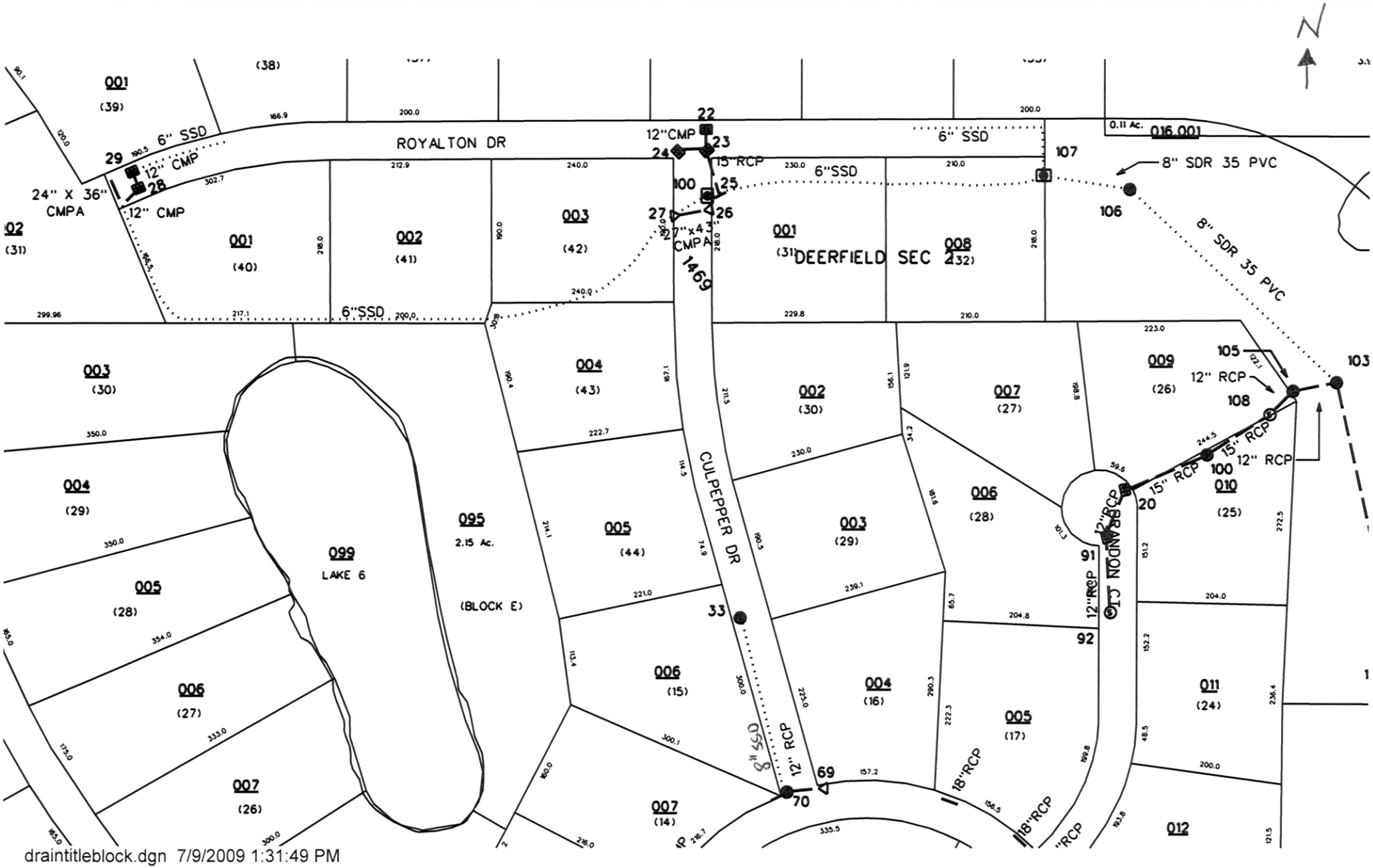
*No Scale



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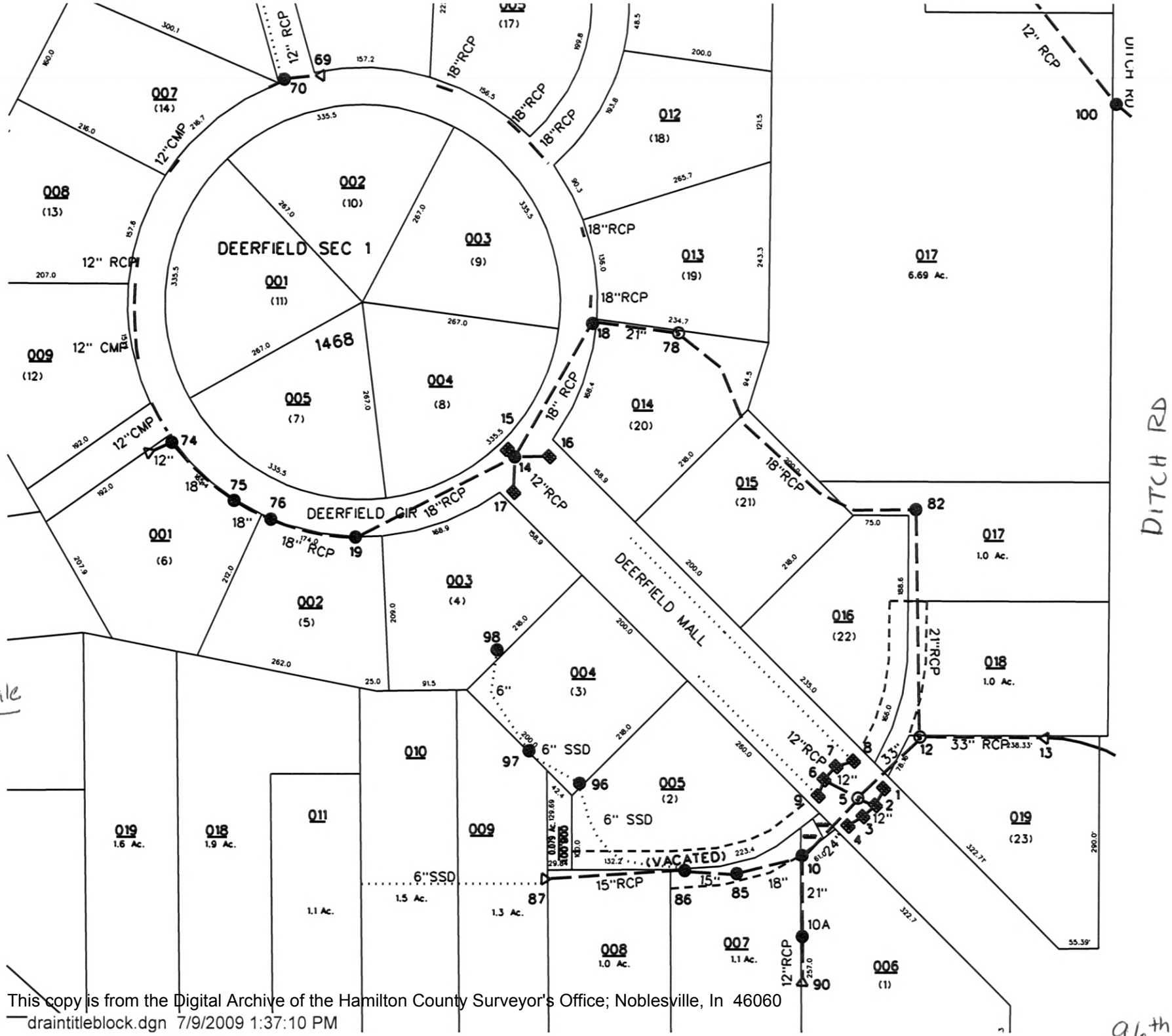

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