

Drain: RICHARD MOFFIT DRAIN **Drain #:** 229
Improvement/Arm: LEXINGTON FARMS-SECTION 1
Operator: JDM **Date:** 4-21-04
Drain Classification: Urban/Rural **Year Installed:** 1987

GIS Drain Input Checklist

- Pull Source Documents for Scanning JDM 4-22
- Digitize & Attribute Tile Drains N/A
- Digitize & Attribute Storm Drains JDM 4-22
- Digitize & Attribute SSD JDM 4-22
- Digitize & Attribute Open Ditch N/A
- Stamp Plans JDM 4-22
- Sum drain lengths & Validate JDM 4-22
- Enter Improvements into Posse JDM 4-22
- Enter Drain Age into Posse JDM
- Sum drain length for Watershed in Posse JDM
- Check Database entries for errors JDM 4-22



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

-775-6410 Ext. 49---
776-9626

Noblesville, Ind. 46060

FILED
November 4, 1987
JAN 11 1988

TO: Hamilton County Drainage Board

RE: Lexington Farms Arm Richard Moffitt Drain

HAMILTON COUNTY DRAINAGE BOARD

Attached is a petition, non-enforcement request, plans, calculations, ~~SECRETARY~~ Summary and assessment roll for the Lexington Farms Arm-Richard Moffitt Drain.

I have reviewed the submittals and petition and have found each to be in proper form. I have made a personal inspection of the land described in the petition. Upon doing so, I believe that the drain is practicable; will improve the public health; benefit a public highway and be of public utility; and that the costs, damages and expenses of the proposed drain will probably be less than the benefits accruing to the owners of land likely to be benefitted. The drain will consist of the following:

✓ 6" SSD	950ft	✓ 12" RCP	396ft	✓ 15" RCP	870ft	✓ 18" RCP	370ft
✓ 24" RCP	597ft	✓ 30" RCP	398ft	✓ 36" RCP	190ft		

The total length of the drain will be 3771 feet.

Only the main subsurface Drain (SSD) will be maintained as part of the regulated drain. The branches for each individual lot will not be maintained as part of the drain. The 4" SSD along 106th Street at rear of Lots 2,3 and 4 will not be part of the regulated drain.

I have reviewed the plans and believe the drain will benefit each lot equally. Therefore, I recommend each lot be assessed equally. I recommend a maintenance assessment of \$30.00 per lot, \$5.00 per acre for roadways, with a \$30.00 minimum. With this assessment the total annual assessment for the drain/this section will be \$967.20.

The retention areas shown on the attached plan (lake #1, #2, and #3) will not be maintained as part of the regulated drain. These are to be maintained by the Homeowners Association with only the inlets and outlet maintained as part of

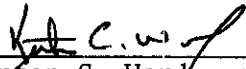
the regulated drain.

The 24" RCP at Lot 2 which runs South out of STR 611 shall be considered part of the regulated drain for only 14 feet South of STR 611. Therefore, the existing pipe under 106th Street shall not be considered part of the regulated drain.

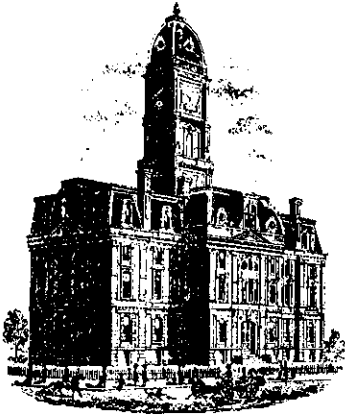
At this time a portion of the tract is assessed to the Home Place Drain. Block A along with Lots 1,2,3,4, and 5 should now be assessed to the Home Place Drain along with the assessment for the Lexington Farms Arm to the Richard Moffitt Drain.

I recommend a hearing be set for January 1988.

KCW/no



Kenton C. Ward
Hamilton County Surveyor



SURVEYOR'S OFFICE
Hamilton County

Kenton C. Ward, Surveyor

Suite 146

776-8495

One Hamilton County Square

Noblesville, Indiana 46060-2230

July 8, 1994

TO: Hamilton County Drainage Board

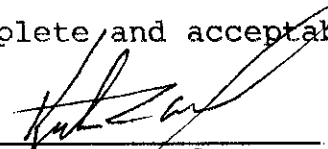
RE: Richard Moffitt Drain-Lexington Farms Section 1 Arm

Attached are as-builts, certificates of completion and Compliance and other information for Lexington Farms Section 1 Arm. 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 plans submitted with my report date November 4, 1987. Therefore, the length of the drain remains at 3,771 feet.

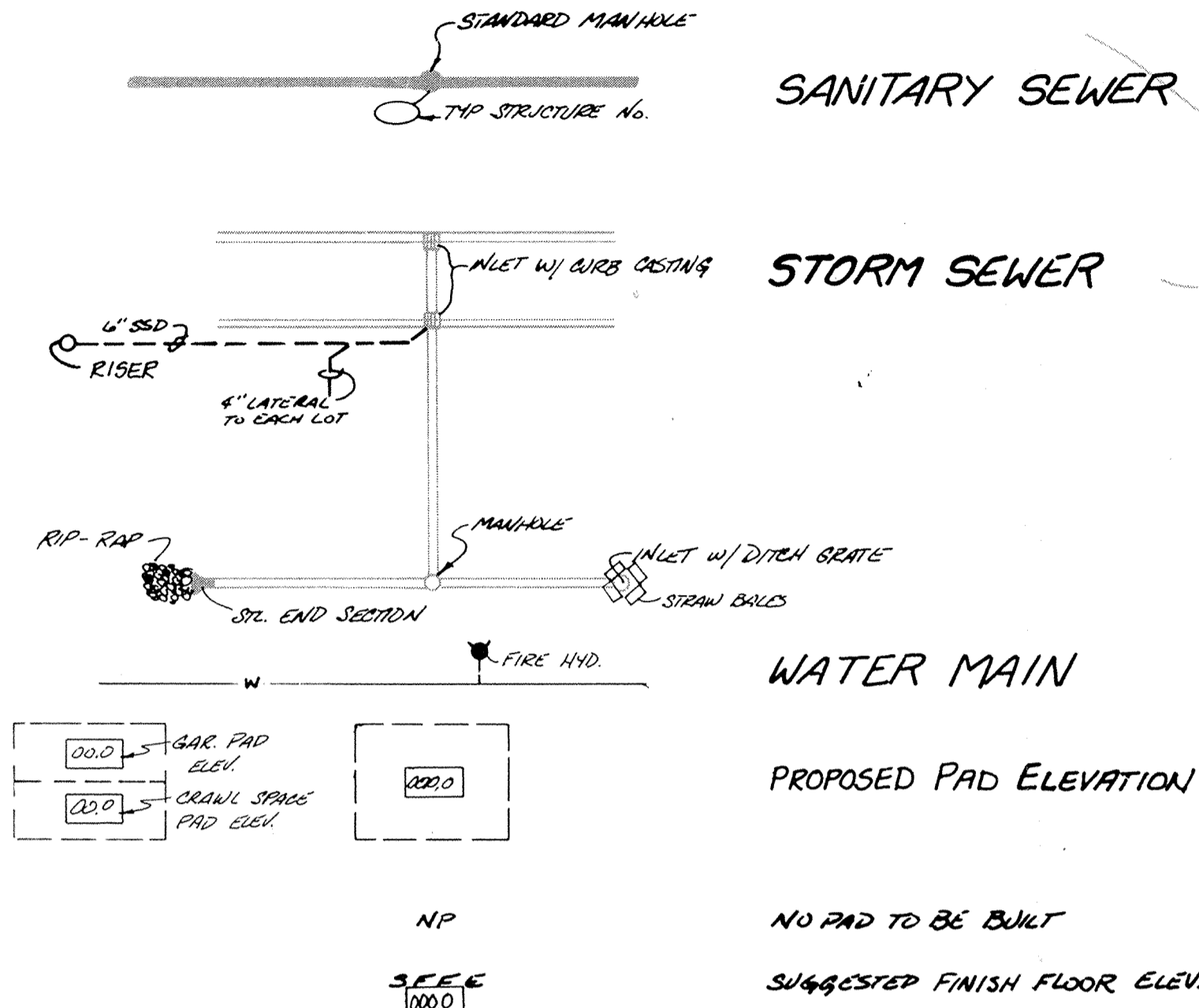
The bond or letter of credit from Bank One, number S-2884-G dated October 8, 1987, in the amount of \$89,103.00 has been released.

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



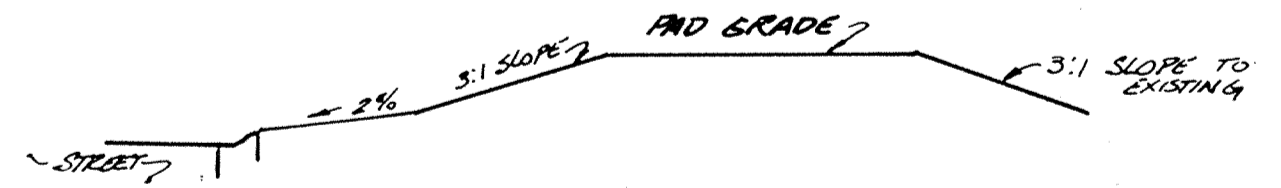
Kenton C. Ward
Hamilton County Surveyor

LEGEND

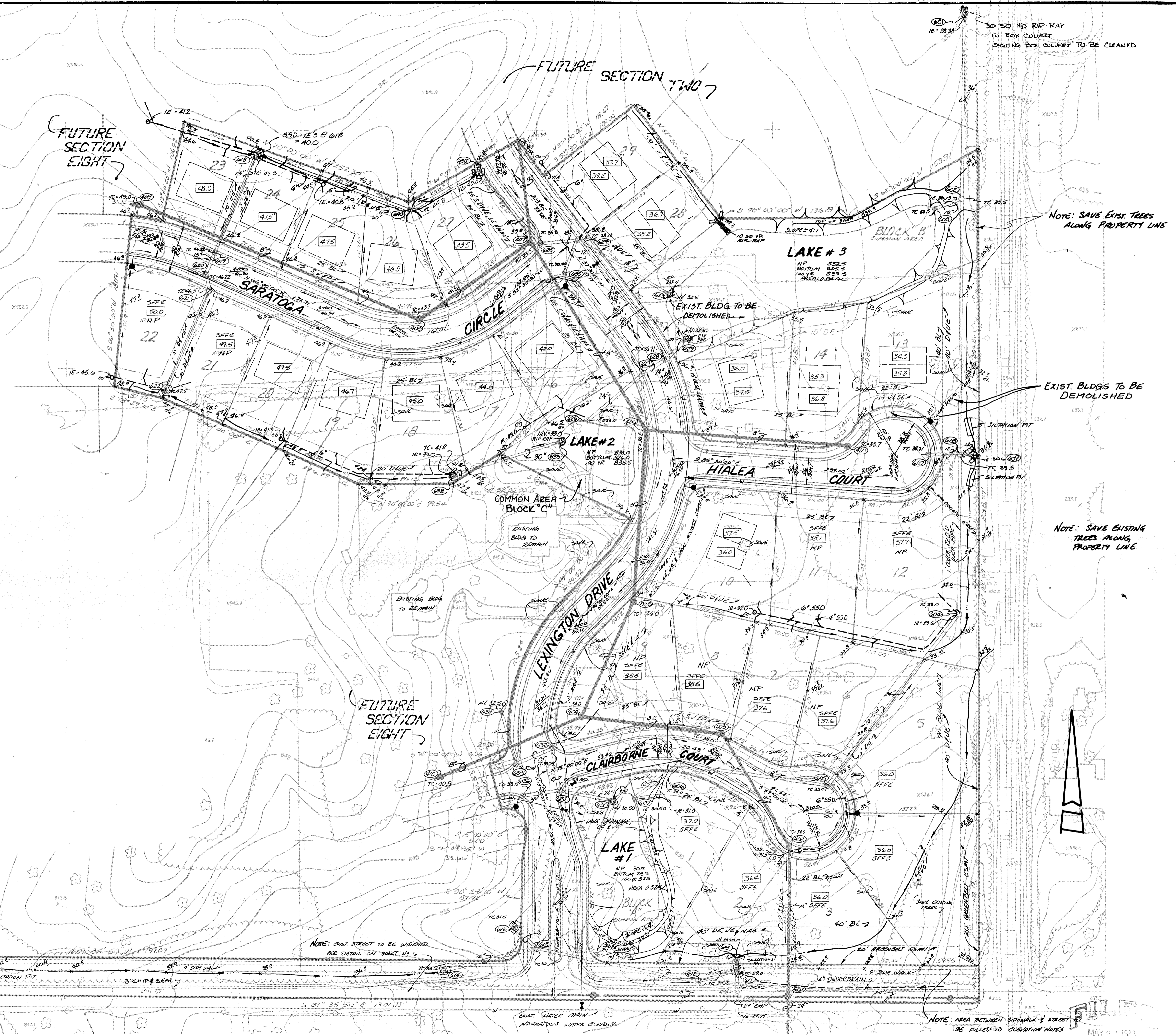


NOTES:

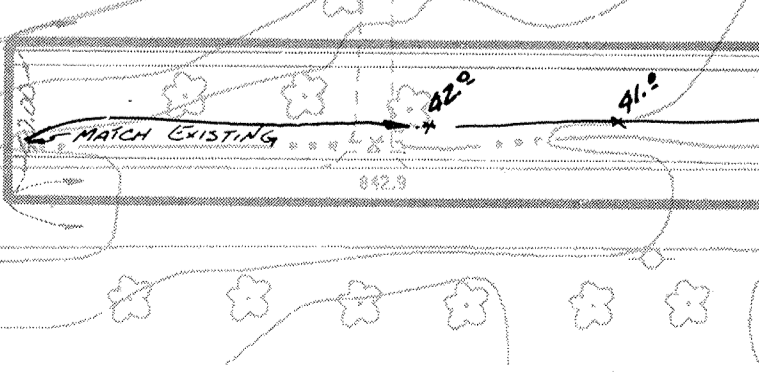
1. BEARINGS, DIMENSIONS, AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY AND DO NOT NECESSARILY DEPICT ACTUAL RECORDED INFORMATION. SEE RECORDED PLAT FOR EXACT INFORMATION.
2. UNLESS A NATURAL OUTLET EXISTS, EACH LOT IS TO BE PROVIDED A 4" SSD LATERAL FOR FOUNDATION DRAINS ONLY. GUTTERS OR OTHER DRAINAGE STRUCTURES ARE NOT TO BE CONNECTED TO THE SSD SYSTEM.
UNLESS NOTED ON PLAN, SSD IS TO BE:
6" PERFORATED PVC MAINLINE SERVING 2 OR MORE LOTS, ALONG SWALES & STREETS.
4" NON PERFORATED PVC LATERAL TO EACH LOT (MINIMUM SLOPE @ 1%).
3. ELEVATIONS SHOWN AT CENTERLINE OF STREET ARE TOP OF CURB ELEVATIONS AT THAT RESPECTIVE STATION.
4. WATER MAINS ARE SHOWN FOR REFERENCE ONLY. TO BE DESIGNED AND INSTALLED BY INDIANAPOLIS WATER CO.
5. FOR IMPROVEMENTS ALONG THE NORTHSIDE OF EAST 106TH STREET, SEE DETAIL SHEET.
6. NO WATER SHALL BE PERMITTED TO FLOW INTO THE SANITARY SEWER PIPE WHILE UNDER CONSTRUCTION.
7. EXISTING BUILDINGS SHALL BE DEMOLISHED WHERE NOTED AS DIRECTED BY OWNER.



TYPICAL LOT GRADING

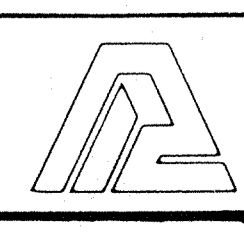


E 106TH STREET



CERTIFIED BY
No. 20491
DATE 10-11-97

REVISIONS	DATE
6-24-87 REV. PER. FAC., ADD STORM, SSD, AEROWS	3-29-88 REV. PAD GRADES ON LOTS 1-15, 28, 29
9-30-87 REV. PER. DEPARTING CX.	
0-28-87 REV. LOT LINES @ 4, 23, 14, 15	



PAUL I. CRIFE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
317-842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

TECH. CHK.
DFTNG. CHK.

DRAWN BY SM
DRAWING TITLE

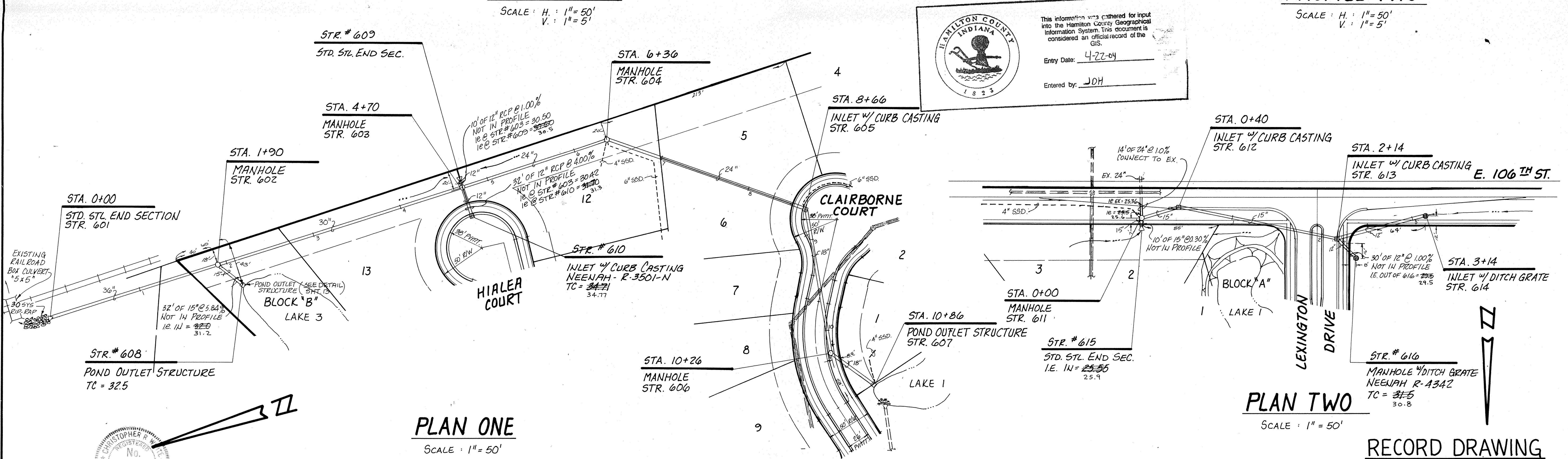
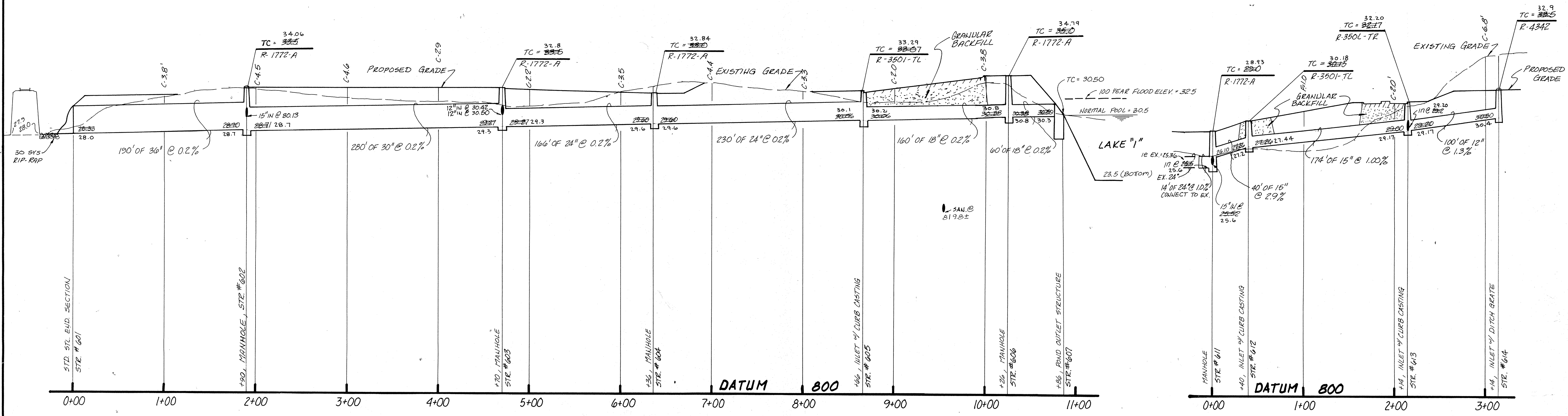
SCALE 1"=50'
DATE 5-27-87

CLIENT LEXINGTON FARMS - 1
SITE DEVELOPMENT PLAN

DWG. TYPE	FILE NO.	NUMBER	SHEET
		10000	2
		87339	OF 16

MAY 2, 1988

NOTE: CUTS SHOWN ARE APPROXIMATE, TAKEN FROM EXISTING GRADE TO INVERT OF PROPOSED PIPE. ALL CASTING NUMBERS WERE TAKEN FROM NEENAH CO. CATALOG.



HAMILTON COUNTY INDIANA 1823

This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.

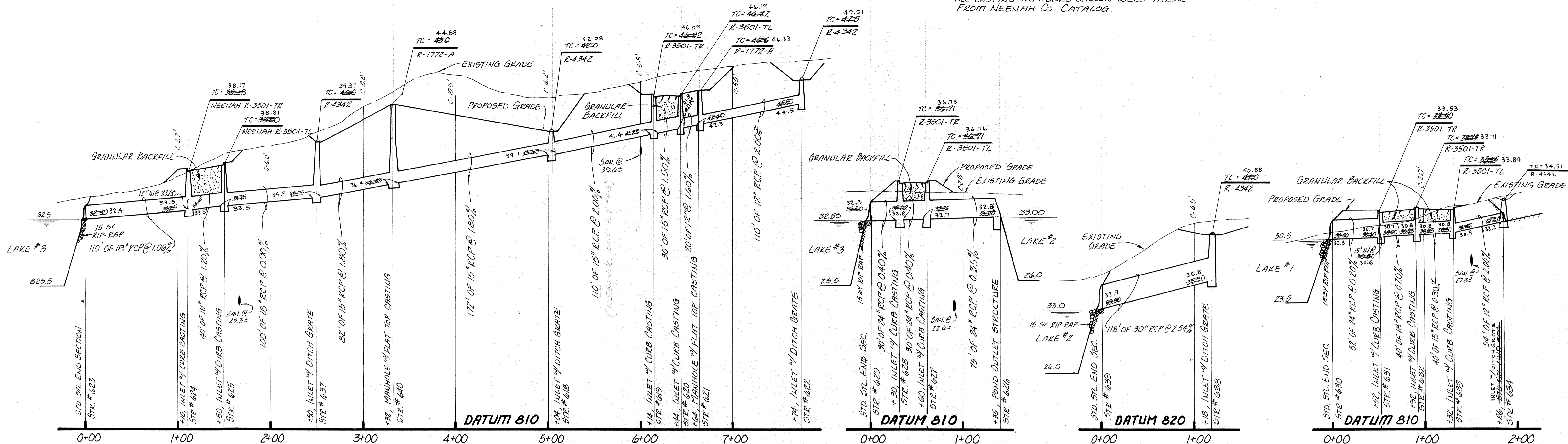
Entry Date: 4-22-84

Entered by: JDH



CERTIFIED BY <i>Christopher R. White</i> 10-1-87 DATE	REVISIONS	PAUL I. CRIFE, INC. 7172 GRAHAM ROAD INDIANAPOLIS, INDIANA 46250 (317) 842-6777	TECH. CHK.	DRAWN BY	SCALE	DATE	CLIENT	DWG. TYPE	FILE NUMBER	SHEET
	6-24-87 REV. PER TAC 9-30-87 REV. PER DRAFT CL.		DFTNG. CHK.	GSD	AS NOTED	5-27-87	LEXINGTON FARMS - 1			9
DRAWING TITLE STORM ~ PLANS & PROFILES			JOB NUMBER 87339-10000		IN FIELD = 1-20-88		OF 16			

NOTE: CUTS SHOWN ARE APPROXIMATE, TAKEN FROM EXISTING GRADE TO INVERT OF PROPOSED PIPE.
ALL CASTING NUMBERS SHOWN WERE TAKEN FROM NEENAH CO. CATALOG.

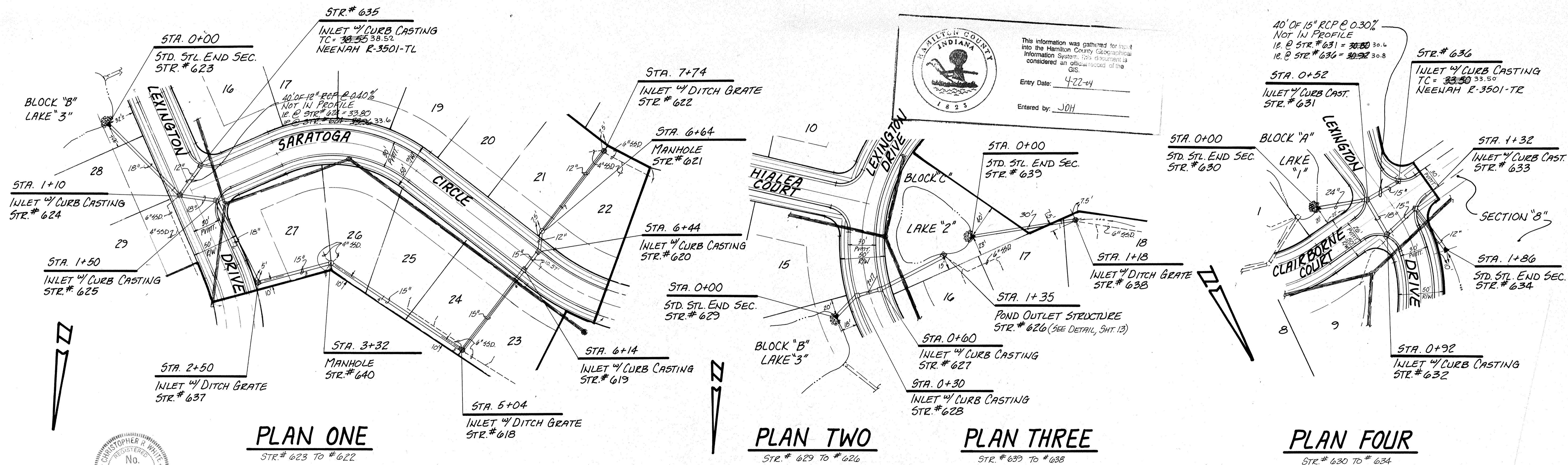


PROFILE ONE

PROFILE TWO

PROFILE THREE

PROFILE FOUR



PLAN ONE

PLAN TWO

PLAN THREE

PLAN FOUR



This information was gathered for input into the Hamilton County Geographic Information System. This document is considered an official record of the GIS.

Entry Date: 4-22-04

Entered by: JOH

RECORD DRAWING

CERTIFIED BY 10-1-87 DATE	REVISIONS 0-22-87 NEW SHEET - REVISE SLOPE & FINISH 0-30-87 REV. PER DEPT. OF PUBLIC WORKS 1-20-88 ADD STAINLESS STEEL MANHOLES & INLET TOP CASTINGS & INVERTS AND STEEL END SECTIONS TO THIS SHEET. INVERTS ADDED.	 PAUL I. CRIFE, INC. 7172 GRAHAM ROAD INDIANAPOLIS, INDIANA 46250 317-842-6777	• CIVIL ENGINEERING • LAND SURVEYING • ARCHITECTURE • LAND PLANNING	TECH. CHK. DFTNG. CHK.	DRAWN BY GSD	SCALE H: 1"=50' V: 1"=20'	DATE 5-27-87	CLIENT LEXINGTON FARMS - 1	DWG. TYPE FILE NUMBER JOB NUMBER 87339-10000	SHEET 10 OF 16
				STORM SEWER ~ PLAN & PROFILE						

SPECIFICATIONS

The standard specifications for the City of Carmel shall apply for all work and materials.

STORM

- Storm sewer pipes shall be reinforced concrete (R.C.P.) in accordance with ASTM-C-76. Where corrugated metal pipe is noted, the pipe shall be fully bituminous coated in accordance with ASTM SPEC. 11-36.
- Exceptional areas may require additional subsurface drainage. Street and storm sewer contractors shall include in their bids a unit cost per foot of installation of 4" dia. perforated plastic underdrain (see detail sheet 12). Location of such underdrain will be at the direction of the owner, or the engineer.
- Rip-rap shall be installed at pipe inlets or outlets as the owner/engineer directs. Contractor shall include unit price for rip-rap, min 1/3 c.f. rock size, installed.
- Storm sewer discharge areas and inverts are tentative and are subject to field modifications according to the unit prices submitted by the Contractor on the contract documents.
- The Contractor shall provide at least 2' of cover over all storm sewers.
- All drainage pipe and ditch outfalls to receiving streams shall be constructed in accordance with drawings, subject however, to any modification required by City of Carmel at the time installation is completed and to any adjustments needed for field conditions not adequately anticipated by the design drawings.
- Casting Elevations are set by plan. However, the casting elevations are to be adjusted in the field by the Engineer's representative should a discrepancy occur between plan grade and existing grade.
- All structures and all cuts under proposed paved areas shall be backfilled with granular material in addition to areas specifically noted on the plans. The granular material shall completely fill the trench in the area under the proposed pavement and shall extend at a one-to-one slope from the proposed pavement edge.
- The Contractor shall contact all utility companies before any construction is started. He shall obtain the exact location of any utility lines and shall protect these lines during construction.
- The Contractor shall be responsible for obtaining all State, Highway, City and County permits.
- The Contractor shall be required to furnish the Engineer with a set of prints, marked in red, showing actual sewer location and invert, to include lateral location, depth and length. Such "as built" prints must be received by the Engineer before the final contract payment can be authorized.
- The Contractor will be reimbursed for any additional labor and/or materials arising from the changes other than minor adjustments to manholes authorized by the Engineer. Reimbursement will be in accordance with unit prices submitted by the Contractor on the contract documents.

Sanitary Sewer Specifications

- Standard Specifications of the Indiana State Board of Health and the City Waste District shall apply for all work and materials.
- All sanitary sewer in this project may be any of the following, unless specifically designated:
 - Vitrified Clay (VCP) meeting requirements set forth in ASTM C-700
 - Polyvinyl Chloride (PVC) meeting requirements set forth in ASTM D-3034 (SPR-85)
 - Cast Iron (C.I.) meeting requirements set forth in ASTM A-74
 All joints and fitting shall conform to the same standards as the pipe. Bedding for flexible pipe shall BE AS DETAILED.
- Backfill around all structures and all cuts under paved area with granular material. Mechanically compact all granular fill to some percentage as street subgrade.
- The Contractor shall be responsible for obtaining all State, City and County permits.
- Alignment and grade changes in plan may be deviated from in field with Engineer's approval. Final plans furnished with maintenance bond and completed affidavit shall reflect "as built" conditions.
- All sewer shall be Air Tested per State Board of Health requirements. All "flexible" pipe shall have an approved "Mandrel" pulled thru each length. All tests shall be certified by a professional Engineer.
- NO WATER SHALL BE PERMITTED TO FLOW INTO THE SANITARY SEWER SYSTEM WHILE UNDER CONSTRUCTION. CONTRACTOR SHALL UTILIZE A PUMP TO KEEP THE WATER LEVEL BELOW THE PIPE. Sanitary sewers shall be required to pass a weir test in addition to a air test.

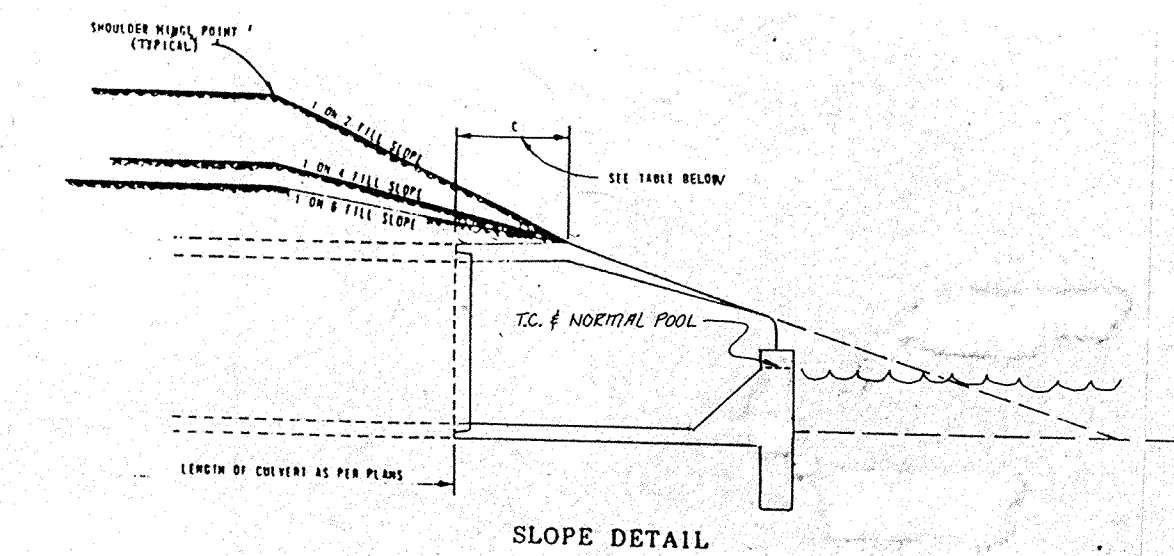
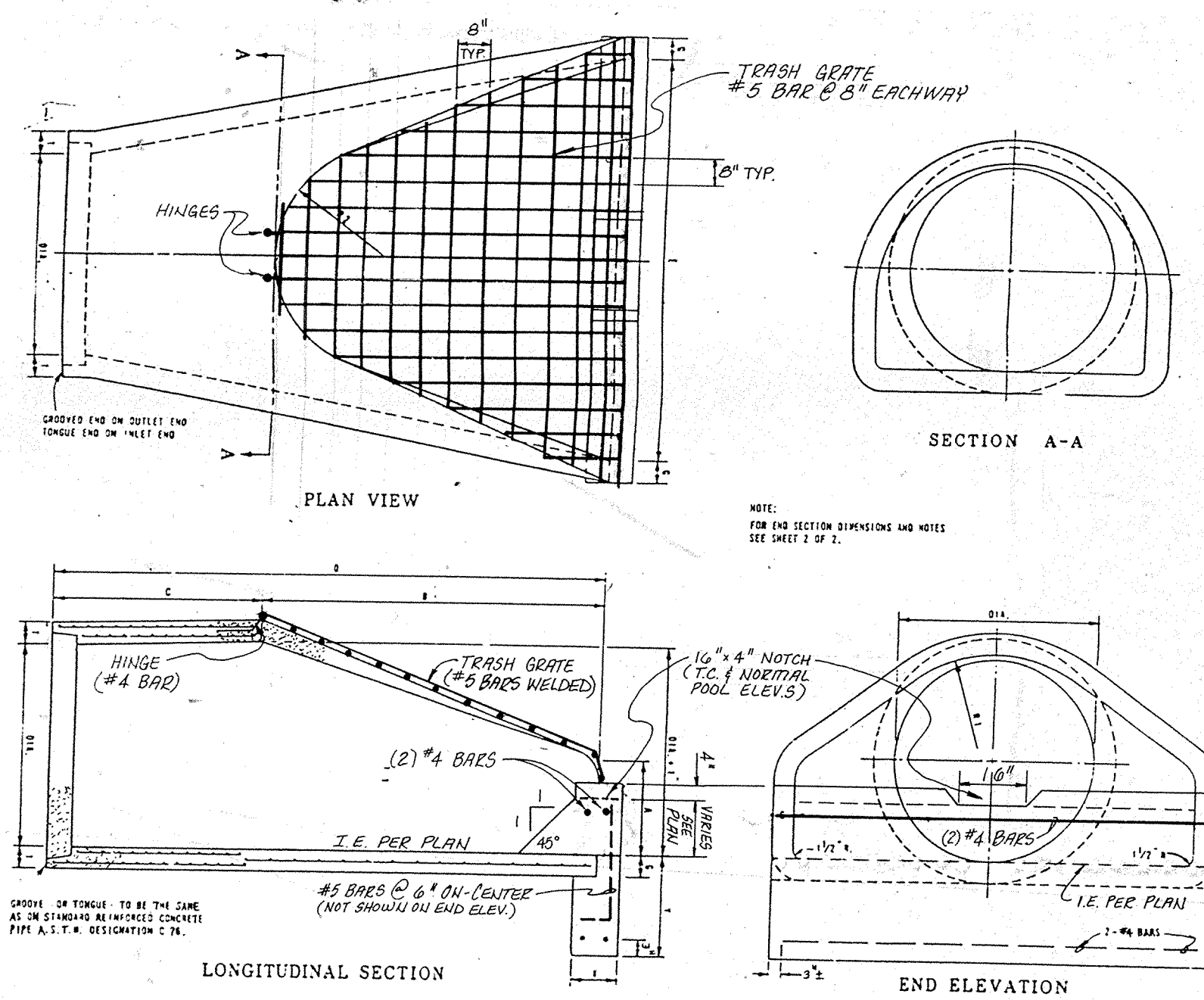
Soil Erosion Control Summary

The following is a list in sequence of construction activities to control soil erosion:

- Contractor shall install sediment traps and straw bale filters, as shown.
- grade the site (sides of swales, mounds and ponds to be seeded and mulched immediately upon completion). Temporary seeding shall be recommended for all swales and disturbed areas that cannot be final seeded within a time period that will prevent slope erosion. For temporary seeding the contractor shall utilize a fast growing seed of either oats, annual ryegrass, wheat or rye depending on time of year. Disturbed areas should be kept to a minimum at all times.
- Contractor shall control mud accumulation on all streets surrounding project by installing stone surface at all locations where construction traffic leaves the site. Dust shall be kept to a minimum by utilizing sprinkling, Calcium Chloride, Vegetative cover, spray on adhesives or other approved methods.
- Maintain all filters and traps during construction to prevent any blockages from accumulated sediment. Additional seeding and straw bales may be required during construction as specified by Engineer or Soil Conservation Service. Rip rap shall be placed in areas of high velocity stream flow (minimum size 1/3 cu. ft.). Payment for additional straw bales shall be at the Contractor's expense. Payment for additional rip rap (not shown on plans) and seeding shall be paid for on a unit basis.
- Contractor shall install all sanitary sewers, storm sewers, subsurface drains, and water mains. Straw bale filters shall be installed at all storm inlets (including street inlets).
- All proposed street areas shall be paved as soon as possible after subgrade is prepared.
- All disturbed areas shall be seeded and mulched as specified below. This shall include all building pad fill areas.
- Contractor shall remove all temporary erosion and sediment controls only when there is a sufficient growth of ground cover to prevent further erosion.

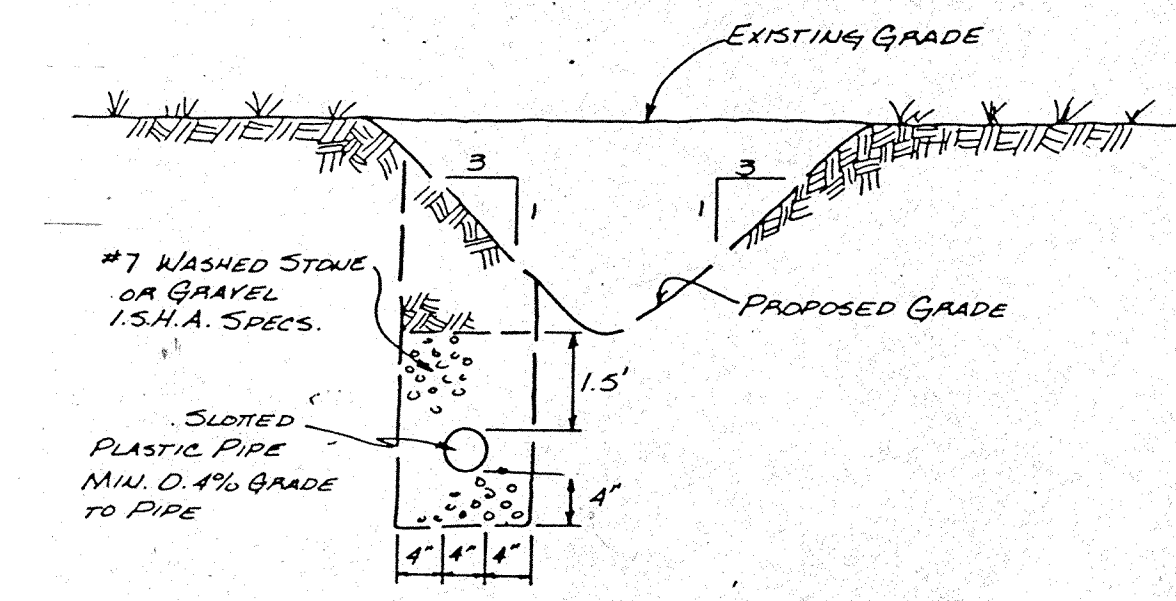
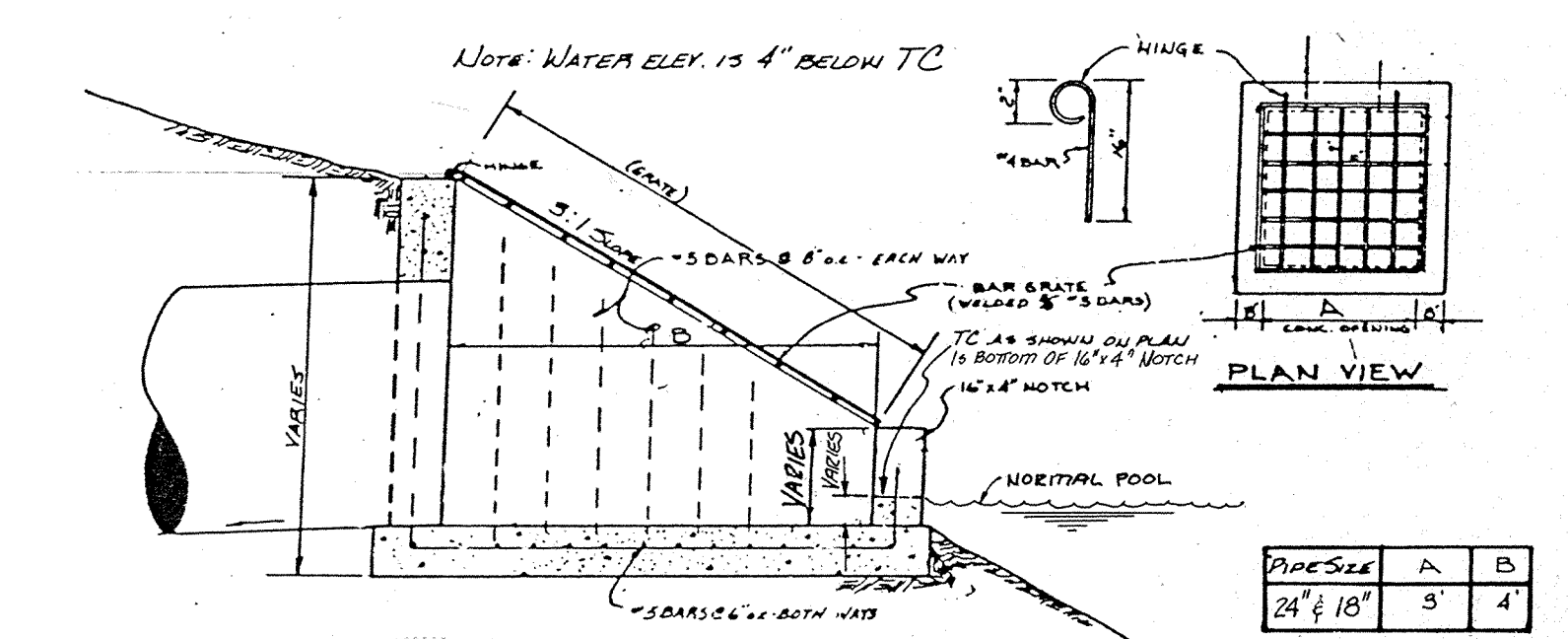
Seeding Specifications:

- Swales/Grassed Waterways: Permanent seeding shall take place between March 1 and May 15 or from August 10 to October 15 with the following per acre:
 - 25# Kentucky 31 Fescue
 - 15# Kentucky Blue Grass
 - 1000# 12-12 Fertilizer
 - 3000# Mulch (Straw)
- If grades are established between May 15 and August 10, a temporary seeding consisting of 40# of Annual Ryegrass shall be planted per acre.
- If grades are established between October 15 and December 30, either Rye (grain) or clover may be used at the rate of 2 bushels/Ac. Oats may be used for early spring planting at the rate of 3 bushels/Ac. All grains should be cut at time of permanent seeding. All grains should be cut prior to seed maturing.
- If temporary seeding is established prior to permanent seeding, the mulch may be eliminated except in "bare" areas.
- If grading occurs during December, January, or February, no seeding to take place till spring planting time; however, it is imperative that all sediment filters and traps are in place prior to bulk earthmoving or clearing.
- All areas along street (approximately 25 foot behind curb) shall be seeded the same as swales.
- All lots where grading has occurred, shall be seeded with the temporary seeding process.
- All dates shown are nominal, and may be varied with concurrence of the Engineer or the Local Soil Conservationist.
- SOILING OR EROSION NETTING WILL BE REQUIRED ON ALL SWALES GREATER THAN 2%.



STA.	INVERT	ELEVATION	INVERT	ELEVATION	INVERT	ELEVATION	INVERT	ELEVATION	INVERT	ELEVATION	INVERT	ELEVATION
12	12	5'	12	5'	12	5'	12	5'	12	5'	12	5'
13	13	5'	13	5'	13	5'	13	5'	13	5'	13	5'
14	14	5'	14	5'	14	5'	14	5'	14	5'	14	5'
15	15	5'	15	5'	15	5'	15	5'	15	5'	15	5'
16	16	5'	16	5'	16	5'	16	5'	16	5'	16	5'
17	17	5'	17	5'	17	5'	17	5'	17	5'	17	5'
18	18	5'	18	5'	18	5'	18	5'	18	5'	18	5'
19	19	5'	19	5'	19	5'	19	5'	19	5'	19	5'
20	20	5'	20	5'	20	5'	20	5'	20	5'	20	5'
21	21	5'	21	5'	21	5'	21	5'	21	5'	21	5'
22	22	5'	22	5'	22	5'	22	5'	22	5'	22	5'
23	23	5'	23	5'	23	5'	23	5'	23	5'	23	5'
24	24	5'	24	5'	24	5'	24	5'	24	5'	24	5'
25	25	5'	25	5'	25	5'	25	5'	25	5'	25	5'
26	26	5'	26	5'	26	5'	26	5'	26	5'	26	5'
27	27	5'	27	5'	27	5'	27	5'	27	5'	27	5'
28	28	5'	28	5'	28	5'	28	5'	28	5'	28	5'
29	29	5'	29	5'	29	5'	29	5'	29	5'	29	5'
30	30	5'	30	5'	30	5'	30	5'	30	5'	30	5'
31	31	5'	31	5'	31	5'	31	5'	31	5'	31	5'
32	32	5'	32	5'	32	5'	32	5'	32	5'	32	5'
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38	38	5'	38	5'	38	5'	38	5'	38	5'	38	5'
39	39	5'	39	5'	39	5'	39	5'	39	5'	39	5'
40	40	5'	40	5'	40	5'	40	5'	40	5'	40	5'
41	41	5'	41	5'	41	5'	41	5'	41	5'	41	5'
42	42	5'	42	5'	42	5'	42	5'	42	5'	42	5'
43	43	5'	43	5'	43	5'	43	5'	43	5'	43	5'
44	44	5'	44	5'	44	5'	44	5'	44	5'	44	5'
45	45	5'	45	5'	45	5'	45	5'	45	5'	45	5'
46	46	5'	46	5'	46	5'	46	5'	46	5'	46	5'
47	47	5'	47	5'	47	5'	47	5'	47	5'	47	5'
48	48	5'	48	5'	48	5'	48	5'	48	5'	48	5'
49	49	5'	49	5'	49	5'	49	5'	49	5'	49	5'
50	50	5'	50	5'	50	5'	50	5'	50	5'	50	5'

ALTERNATE POND OUTLET STRUCTURE



TYPICAL SWALE & UNDERDRAIN DETAIL

CERTIFIED BY

 DATE 10-1-97

NO.	REVISIONS
1	9-30-87 REV. PER DRAFT OK 1.5% POND OUTLET DETAIL
2	1-4-87 ADD ALTERNATE OUTLET STRUCTURE DETAIL

PAUL I. CRIFE, INC.
 7172 GRAHAM ROAD
 INDIANAPOLIS, INDIANA 46250
 (317) 842-6777

• CIVIL ENGINEERING
 • LAND SURVEYING
 • ARCHITECTURE
 • LAND PLANNING

TECH. CHK.	DRAWN BY	SCALE	DATE	CLIENT
	GSD	NONE	5-27-87	LEXINGTON FARMS - 1
DFTNG. CHK.	DRAWING TITLE			
	STANDARD SPECIFICATIONS & DETAILS			

DWG. TYPE	FILE NUMBER	SHEET
		13
JOB NUMBER	OF 10	
87339-10000		