Drain: BRIDLE WOOD DRAIN	Drain #:66
Improvement/Arm: BRIDLE WIGO - SECT	
Operator:	Date: /0-29-03
Drain Classification: Urban/Ru	

## **GIS Drain Input Checklist**

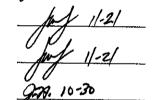
- Digitize & Attribute Tile Drains
- Digitize & Attribute Storm Drains
- Digitize & Attribute SSD
- Digitize & Attribute Open Ditch
- Sum drain lengths & Validate
- Enter Improvements into Posse
- Enter Drain Age into Posse
- Sum drain length for Watershed in Posse
- Stamp Plans
- Pull Source Documents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

974 10-29 074 10-30

<u>N|A</u>

10-30

10-30



27.10-30

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

					and the second	(((e.; e)):);;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
Drain Type:	Size:	Length SURVEYING (REMAT/ASONICTS)	Length	Length		
prain type:			(DB Query)	Reconcile	Price:	Cost:
<i>\$\$0</i>	6''	5506.84	5506.84	ø		
RCP	/2"	G17 '	617'	ø		
	15*	24'	24'	ø		
	18 "	841	84'	ø		
	Z1 #	/72'	172'	á		
OPEN DITCH		1,209.781	1,209.78'	ø		
			- 	<i>′</i>		
·						
					-	
······································						
	Sum:	7,613.62	7613.62'	_ø		·
Final Report:				·		

Drain-Improvement: <u>BRIDLE WOOD DRAIN - SECTION 3</u>

Comments:



TO: Hamilton County Drainage Board Noblesville, Indiana 46060.

RE: Bridlewood Drain- Section 3

Attached is a petition, non-enforcement request, plans, calculations, quanity summary and assessment roll for the Bidlewood Drain, Section 3.

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 accuring to the owners of land likely to be benefited. The drain will

consists:		\$17 +Q		
6" 12" 15" 18"	SSD RCP RCP RCP	945ft 617ft 24ft 84ft	RCP Ditch	172ft 1209.78ft

The total length of the drain will be 3051.78 feet.

#### The storm lines running between STRUCTURES

37,43A,43,44,45,46,47,48,49,50,51,52,53 and 54 were included with Section 2 and was listed with that section. Along with those lines the lines on the North side of Lots 106 and 107, South side of 106 and the open ditch between STR 54 and Cool Creek was included in the length for Section 2. Also not included in the above lengths, but included with Section 1 are the lengths of storm line between STR 19,20,21,22,22A,and 27.

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 \$50.00 per lot, \$5.00 per acre for roadways, with a \$50.00 minimum. With this assessment the total annual assessment for the drain/this section will be 2150.00 p2200 de

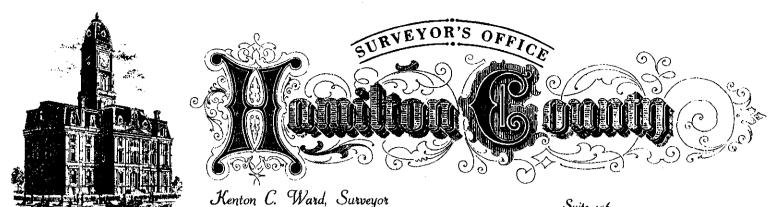
Included in the ablve lengths as open ditch is the portion of Cool Creek which borders the subdivision. The measurment begins at the South side of Section 1 and continues to the North side of future Section 4. The length will continue South when Section 4 is petitioned. Also included is the run of 6" SSD in the rear of Lots 119,120 and 121.

I recommend a hearing be set for November 1990. I also recommend the Board approve the non-enforcement request at such time the drain is approved at hearing.

Kenton &. Ward-County Surveyor KCW/no

	•		INB
		Date: August 6	
SWIFT Address: INBI US 44 Telex Number 205615 Phone: 266-6153	<u>sp 035238</u>	Credit Number Advising E	Bank No.
Advising Bank	Applicant Land Innovators Co., Limited Partnership 234 S. Franklin Road Indianapolis Indiana		
onation	Amount		
Beneficiary amilton County Commissioners, The estfield Town Board of Trustees, amilton County Drainage Broad	Amount U.S.D. \$101,000.00		
amilton County Courthouse	Expiration Date		
oblesville_Indiana_46060	September 1, 1991		N
le hereby issue in your favor this irrevocable letter of credit which is avai	- ·		- <u>`</u> ~
Prafts drawn atSight			
n INB National Bank	.'		
earing the clause; "Drawn under irrevocable letter of credit No. $old B$ () ther documents:	35238		
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Special Conditions:			
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We hereby engage with X You drawers and/or bona fide holders that drafts drawn and negotiated in conformity with the terms of this credit will be duly honored on presentation and that drafts accepted within the terms of this credit will be duly accepted within the terms of this credit will be duly accepted within the terms of this credit will be duly accepted within the terms of this credit will be duly accepted within the terms of this credit will be duly accepted within the terms of this credit will be duly accepted within the terms of this credit will be duly accepted within the terms of this credit will be duly accepted within the terms of the terms of the credit will be duly accepted within the terms of the credit will be duly accepted will be duly accepted w	Advising Bank's Notification		
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bh kh 5



Suite 146 One Hamilton County Square Noblesville, Indiana 46060-2230

Attached are As-Builts, Certificate of Completion and Compliance, and other information for Bridlewood Drain-Section 3. An inspection of the drainage facilities for this section has been made and the facilities were found to be complete and acceptable.

During construction, changes were made to the drain which will alter the plans submitted with my report for this drain dated August 31, 1990. The changes are as followed:

The correct total of 6" SSD is 5,506.84 feet

The length of the drain due to the changes described above is now 7,613.62 feet.

The non-enforcement request was approved by the Board at its meeting on July 26, 1993.

The Bond of Letter of Credit from Indiana National Bank, number SB 035238 dated August 6, 1990, in the amount of \$101,000.00 has expired. I recommend the Board approve the drains construction as complete and acceptable.

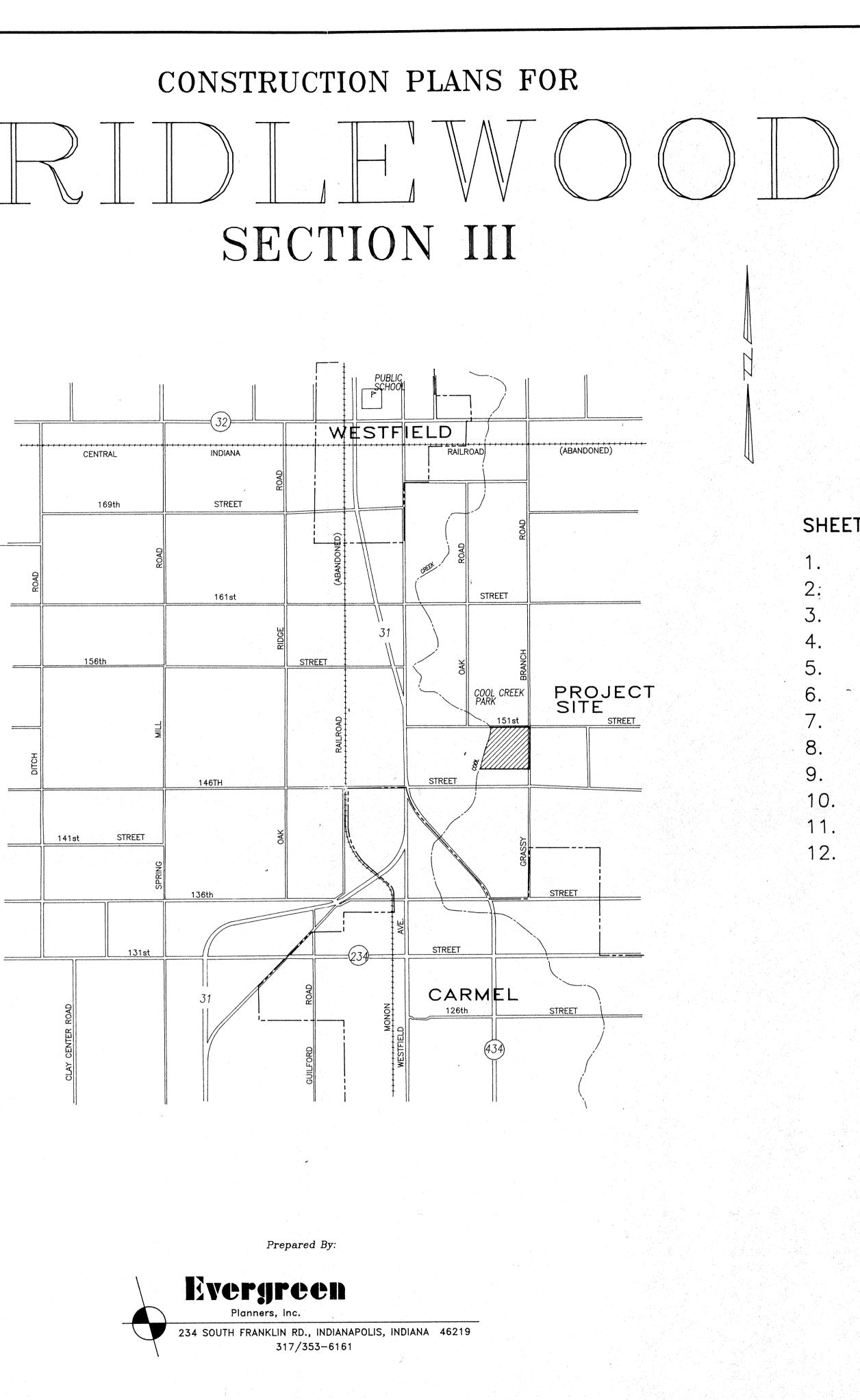
Katol

Kenton C. Ward Hamilton County Surveyor KCW/no

INDIANA DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS LATEST EDITION TO BE USED WITH THESE PLANS.

DESIGN DATA: No. OF LOTS = 43 AREA = 23.978

BRIDLEWOOD DRIVE	= 789.80 ft	0.150mi.
CURRY LANE	= 1077.37 ft	0.204mi.
HORSESHOE DRIVE	= 464.09 ft	0.088mi.
TOTAL	= 2331.26 ft	0.442mi,



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# SHEET INDEX

COVER SHEET FINAL PLAT MASTER SEWER AND WATER PLAN SITE GRADING PLAN BRIDLEWOOD DRIVE CURRY LANE HORSESHOE DRIVE, STORM STR'S. 55, 56, 59 & 60 SANITARY SEWER 151st STREET INTERSECTION DETAILS – STR. CHART – MH CHART EROSION CONTOL PLAN SPECIFICATIONS MISC. STANDARD DETAILS

THESE PLANS PREPARED BY:

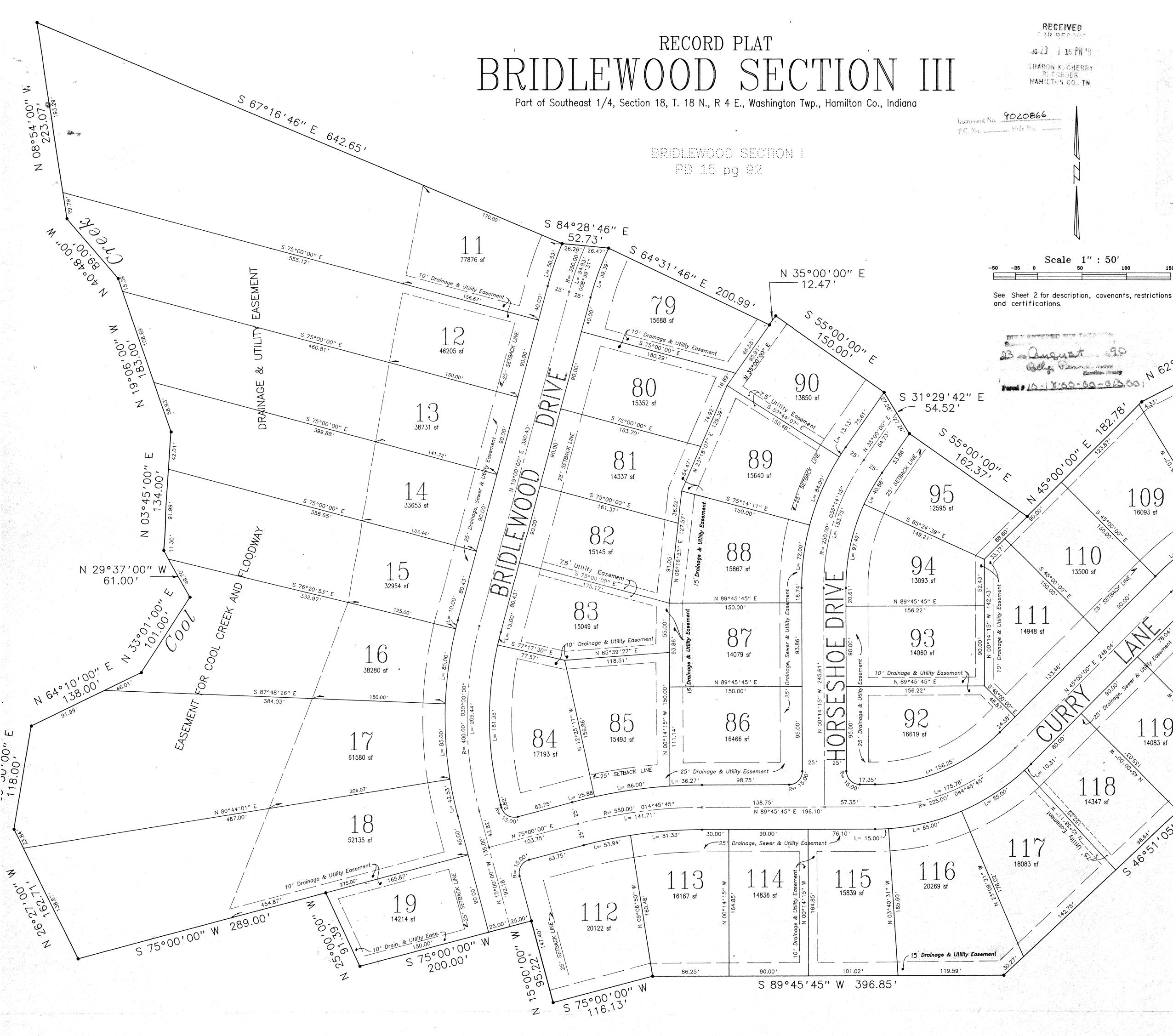


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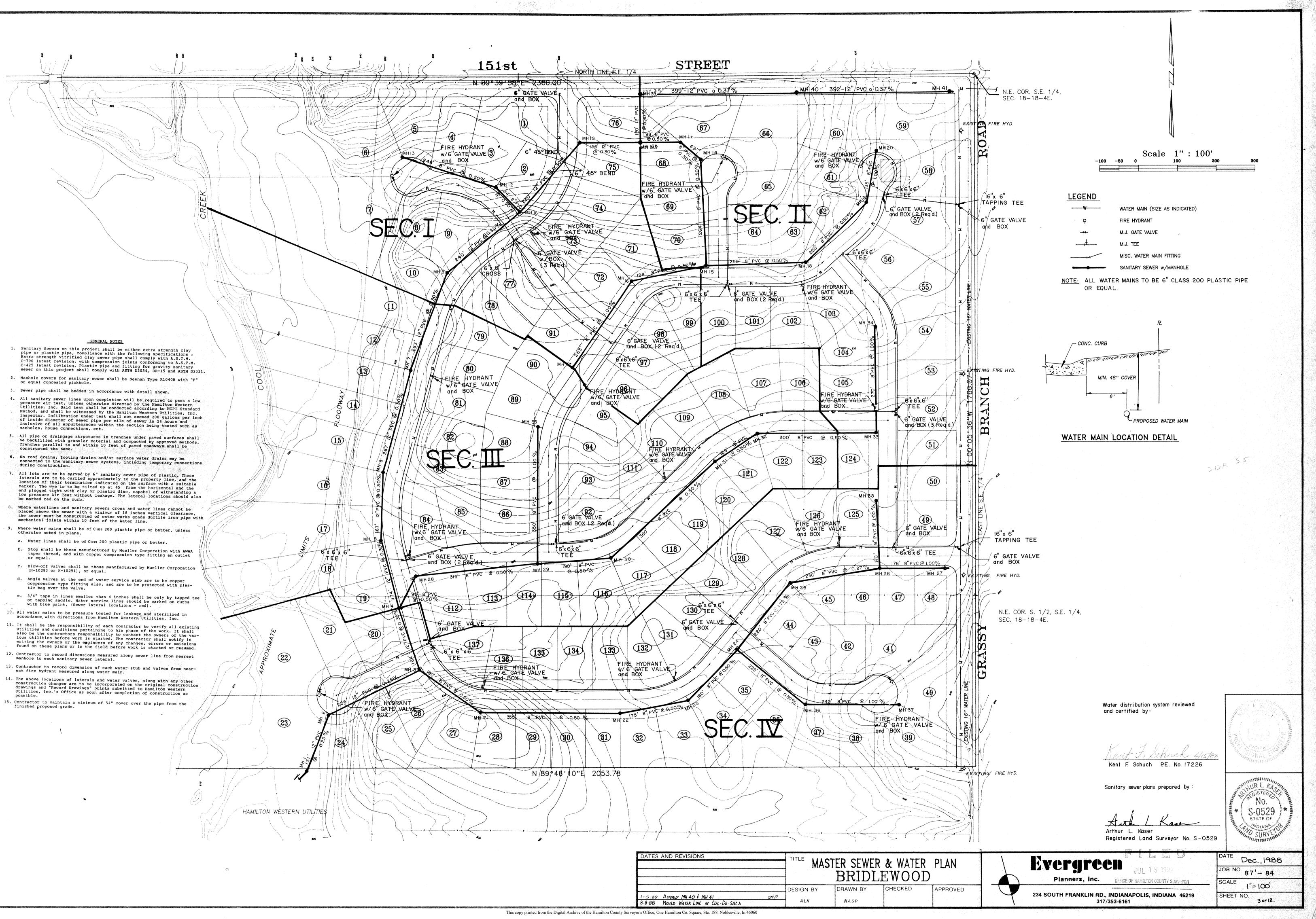
Arth L. Kan ARTHUR L. KASER

REGISTERED LAND SURVEYOR NO. S052

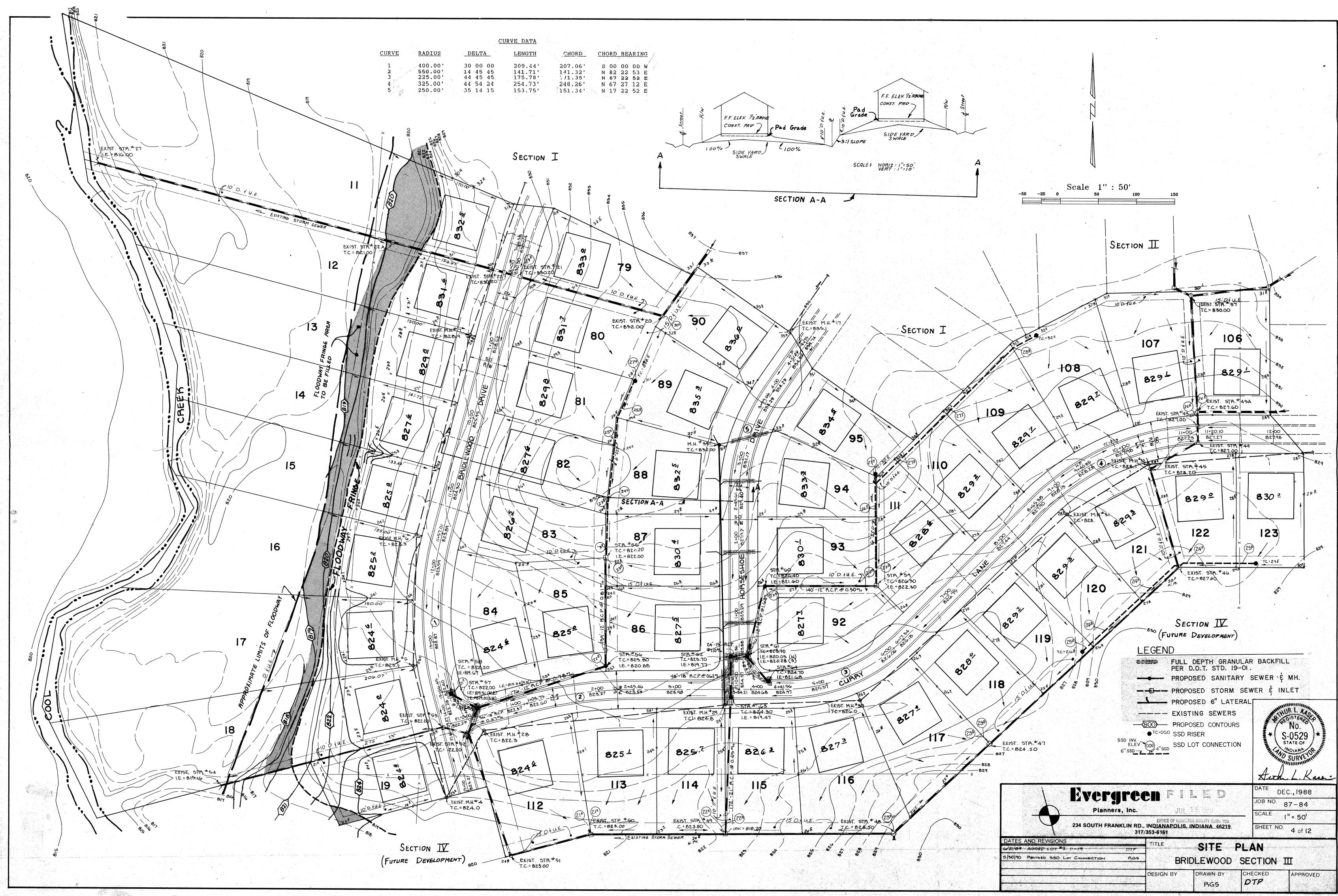
SHEET I OF 12

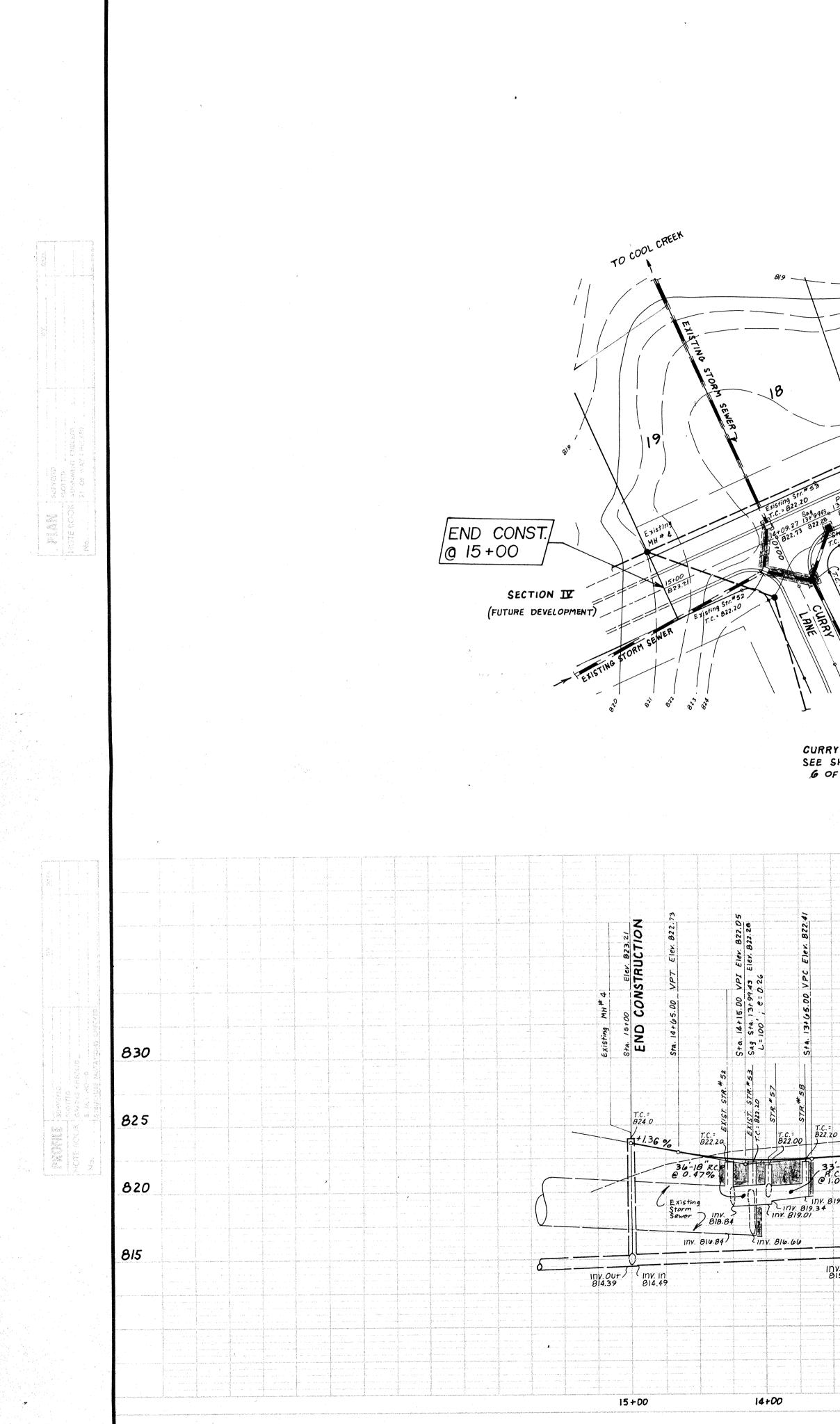


PLAN COMMISSION CERTIFICATE UNDER AUTHORITY PROVIDED BY TITLE 36, ARTICLE 7, CHAPTER 4, ENACTED BY THE GENERAL ASSEMBLY OF THE STATE OF INDIANA, AND ALL ACTS AMENDATORY THERETO, AND AN ORDINANCE ADOPTED BY THE TOWN BOARD OF TRUSTEES OF THE TOWN OF WESTFIELD, INDIANA AS FOLLOWS : APPROVED BY THE WESTFIELD-WASHINGTON TOWNSHIP PLAN COMMISSION AT A MEETING HELD , 1989. WESTFIELD-WASHINGTON TOWNSHIP PLAN COMMISSION -toun PRESIDENT SECRETARY Angela H. Preston John C. White BRIDLEWOOD SECTION II N.E. COR., S.E. 1/4 SEC. 18-18-4 E. 188 118 pg 92 N 89°39'58" E 215.05' 104.61' 15 <u>Prainage & Utility Easement</u> 110.45 0' Drainage & Utility Easement 00°05'3( 159.47' 106 15964 sf 107 108 17664 sf ( )17646 sf Utility Easement L= 19.32' 1.9 76.48' 109 Drainage N 89°54'24" 16093 sf 98.98' R= 325.00, 6 L= 254.72 90.00 6 00°05'36 150.00' 5 00 KK L ん し 13500 sf 14211 sf LA 14922 sf S Drainage & Utility Easement 75.23' 90.00' 120S 89°54'24" W \$ 89 54'24" W 165.23' 14775 sf 14083 sf COUNTY COMMISSIONERS' CERTIFICATE UNDER AUTHORITY PROVIDED BY TITLE 36, ARTICLE 7, CHAPTER 3, ENACTED BY THE GENERAL ASSEMBLY OF THE STATE OF INDIANA, AND ALL ACTS AMENDATORY OR SUPPLEMEMTARY THERETO. THIS PLAT WAS GIVEN APPROVAL BY THE BOARD OF COMMISSIONERS OF COUNTY OF HAMILTON, AT A MEETING HELD ON <u>8/20/90</u>. 30. Steven A. Ho NO ATTEST Steven C. Dillinger Polly Pearce County Auditor This Instrument Prepared By Arthur L. Kaser  $L.S_{res}$ LED Evergreen JUL 19 OFFICE OF HAMILTON COUNTY SURVEYOR Planners, Inc. 234 SOUTH FRANKLIN RD., INDIANAPOLIS, INDIANA 46219 -317/353-6161



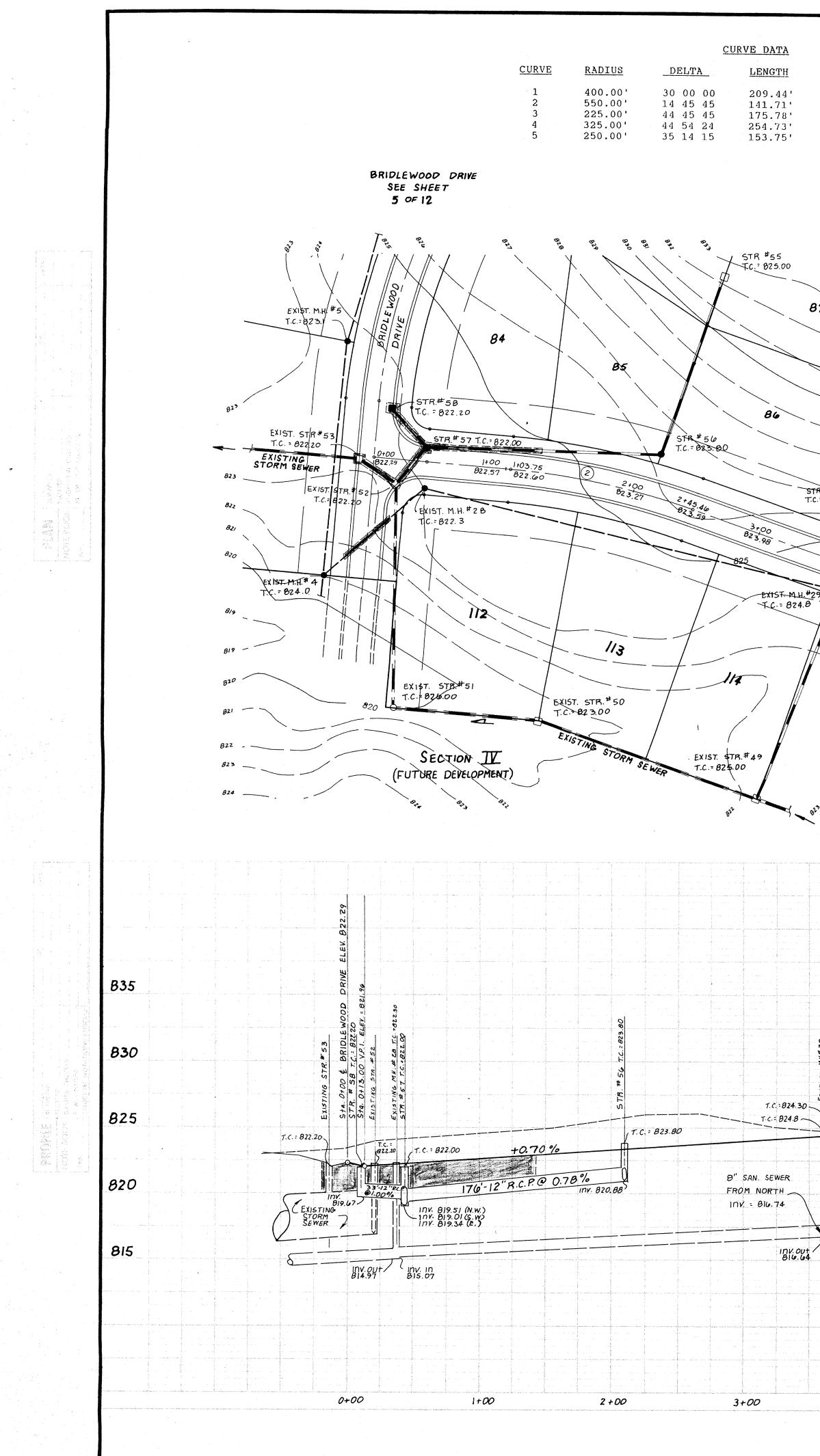
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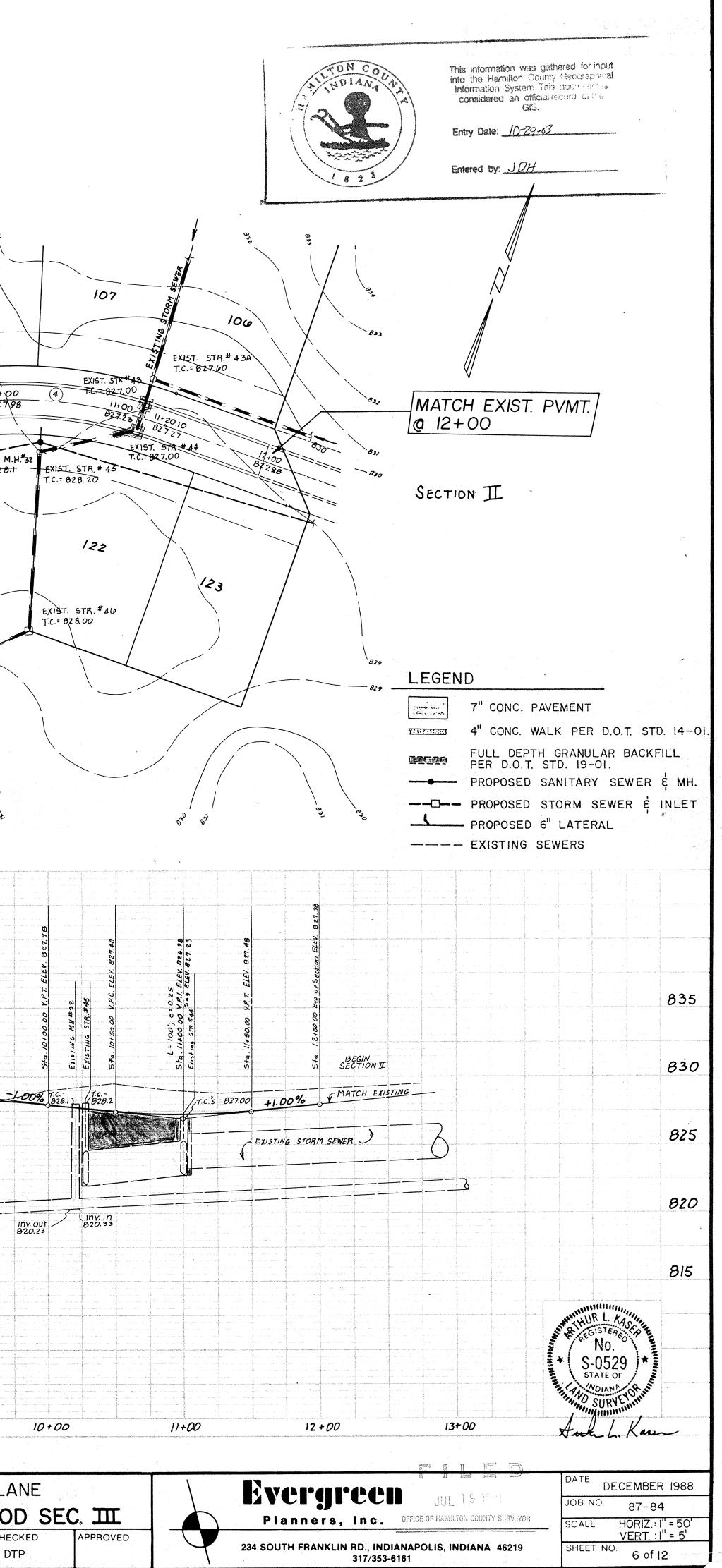
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		e19		TO COOL CREEK		
				Existing Str #2214 82000		
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			ALK/[	DTP HASP/DTP DTP	234 SOUTH FRANKLIN RD., INDIANAFOLIS, IN 317/353-6161	Shiel 100 5 of 12

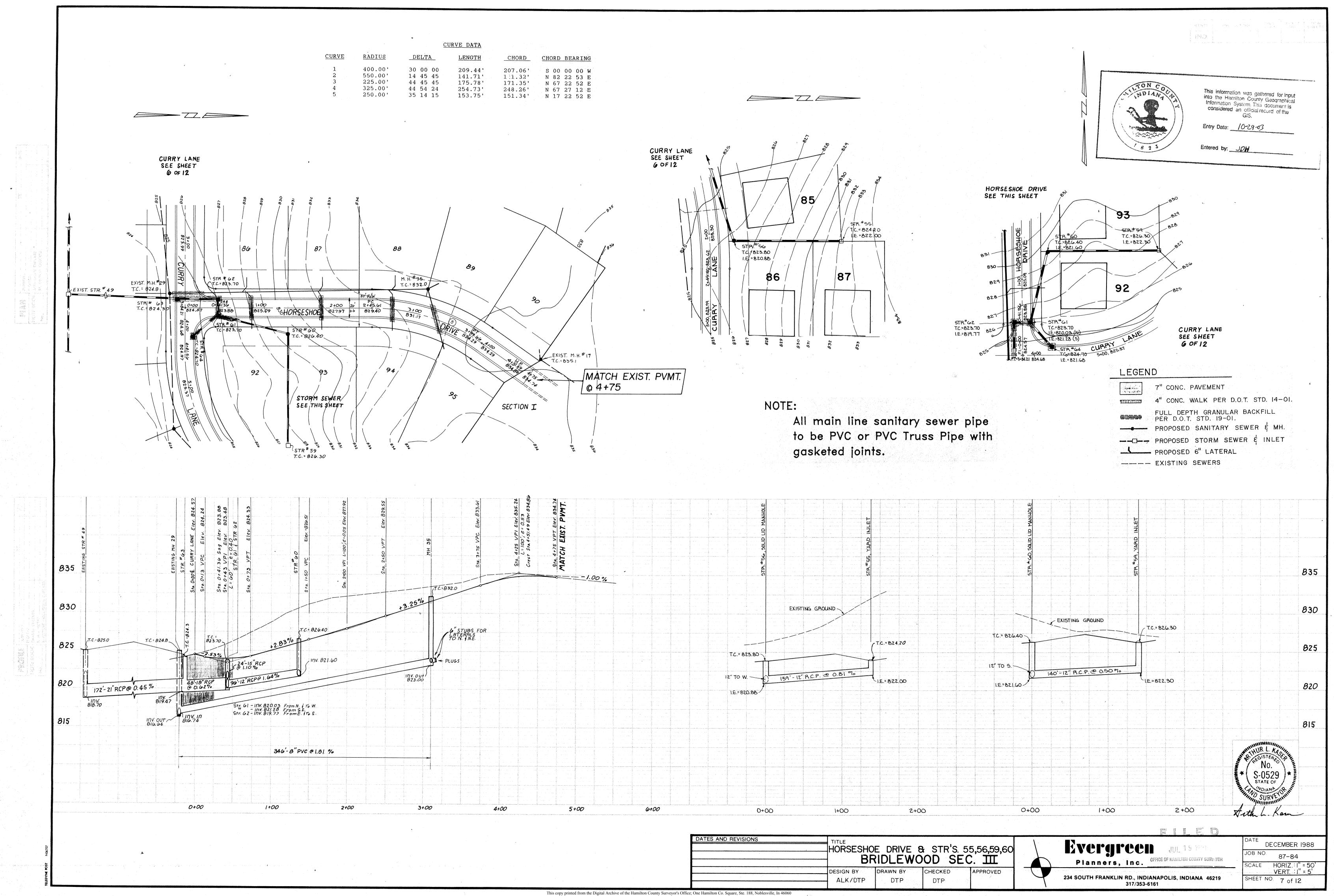
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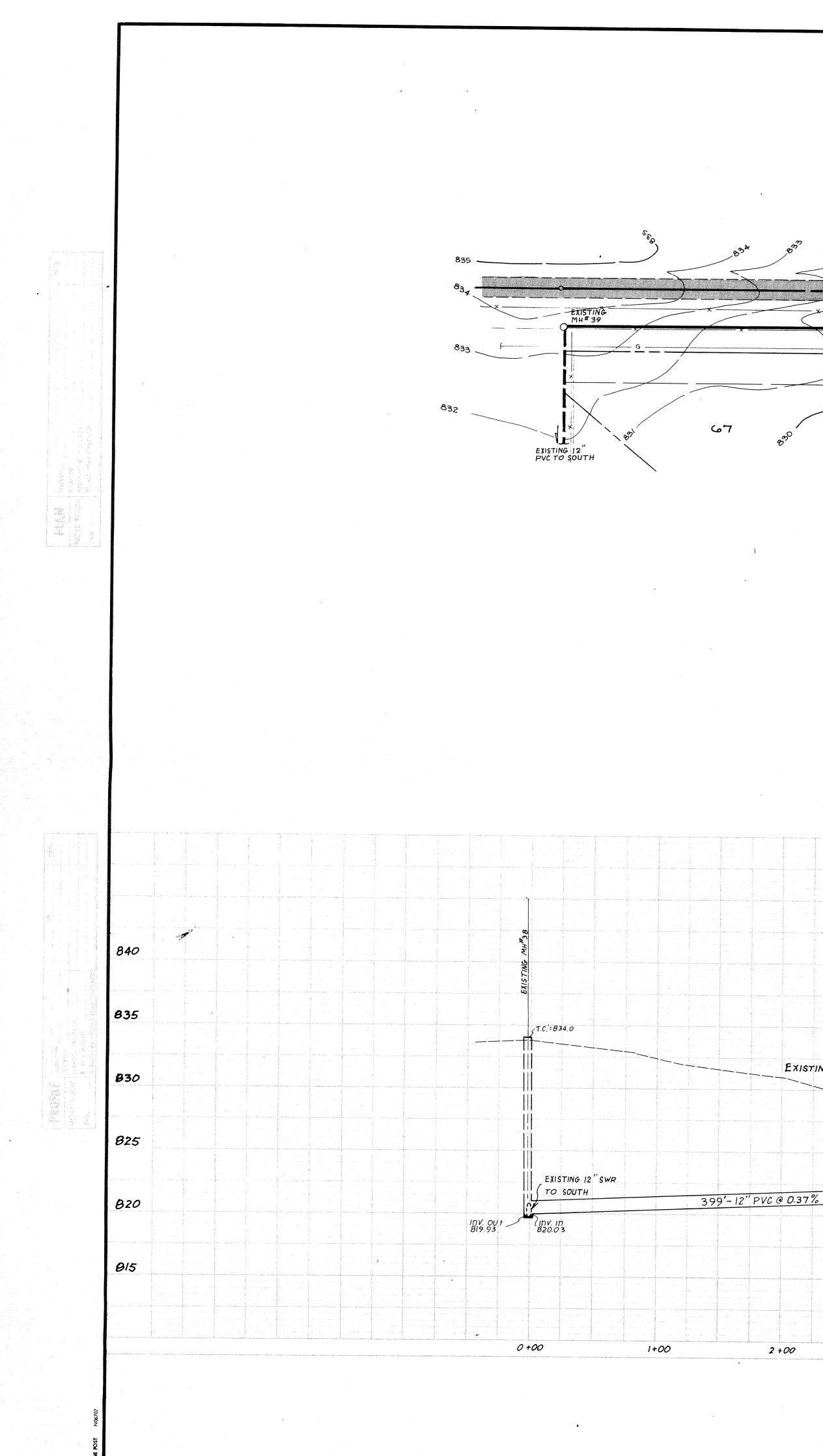
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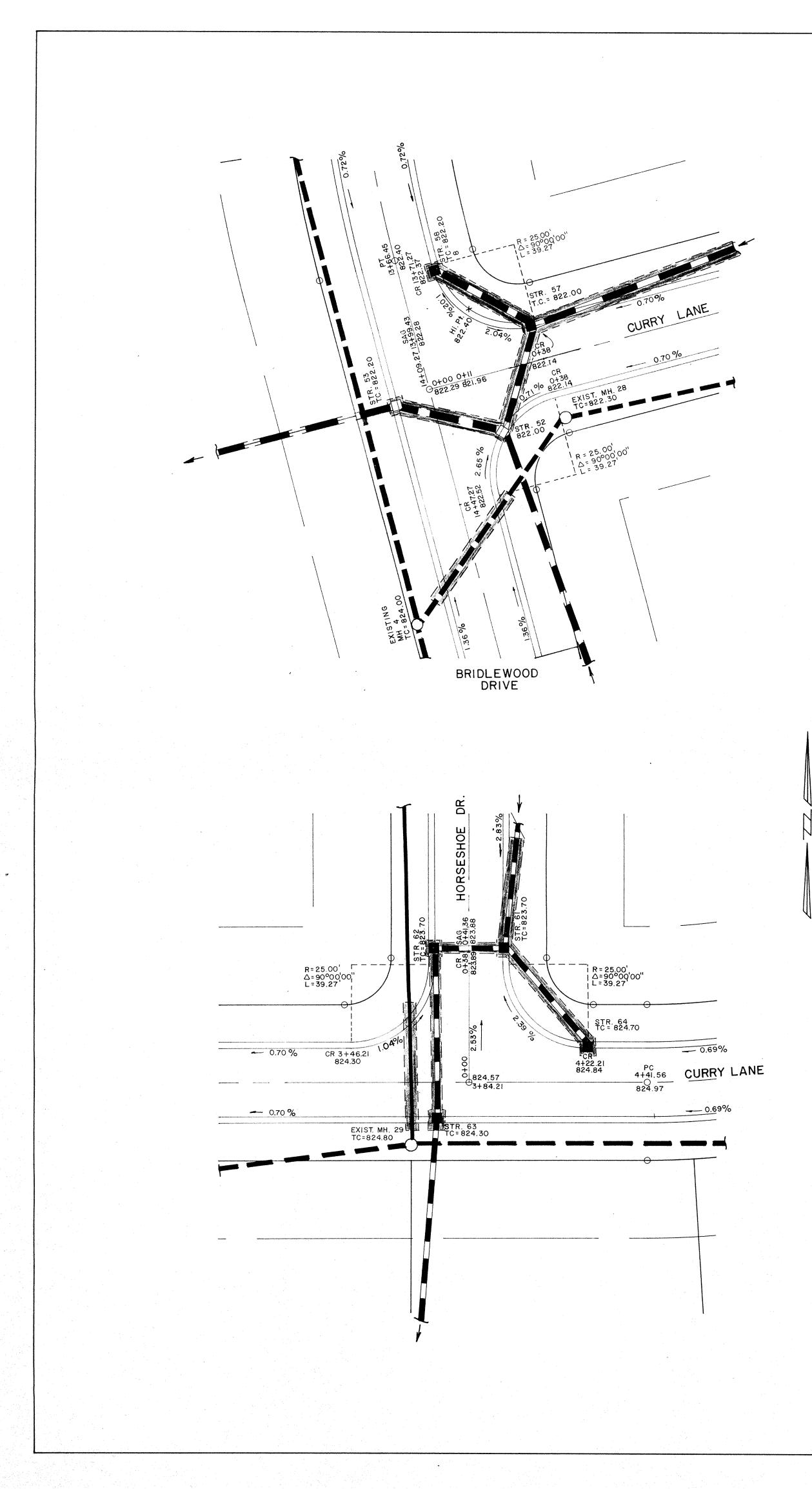


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# STRUCTURE DATA CHART

				1				
STR.	STRUCTURE	NEENAH	TOP OF	INV.	INV.	CASTING	IN-FLOW	AREA
No.	TYPE	CSTG.No.	CASTING	IN	OUT	CAPACITY	(CFS)	(ACRES)
55	YARD INLET	R-4343-C	824.20		822.00	4.39	3.16	1.58
56	SOLID LID MH	R-1077-A	823.80	820.88	820.88	·		
57	CURB INLET	R-3501-N	822.20	819.51	819.01	3.00	2.02	1.01
58	CURB INLET	R-3501-N	822.20		819.67	3.00	2.06	1.03
59	YARD INLET	R-4 <b>3</b> 43-C	826.30		822.30	4.39	1.56	0.78
60	SOLID LID MH	R-1077-A	826.40	821.60	821.60			
61	CURB INLET	R-3501-N	823.70	820.28	820.03	3.00	1.48	0.74
62	CURB INLET	R-3501-N	823.70	819.77	819.77	3.00	1.44	0.72
63	CURB INLET	R-3501-N	824.70	819.47	819.47	3.00	2.40	1.20
64	CURB INLET	R-3501-N	824.30		821.68	3.00	3.88	1.94

MANHOLE CHART

 MH.
 TOP OF
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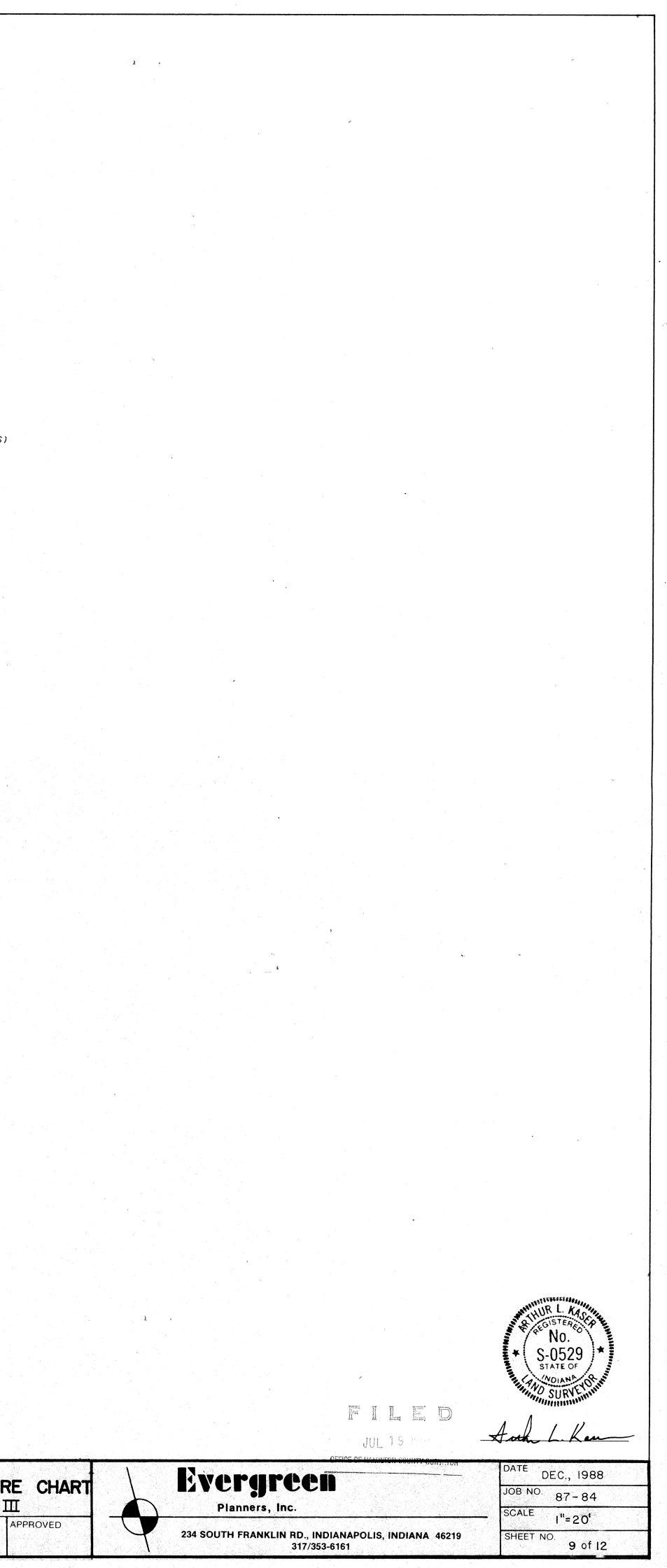
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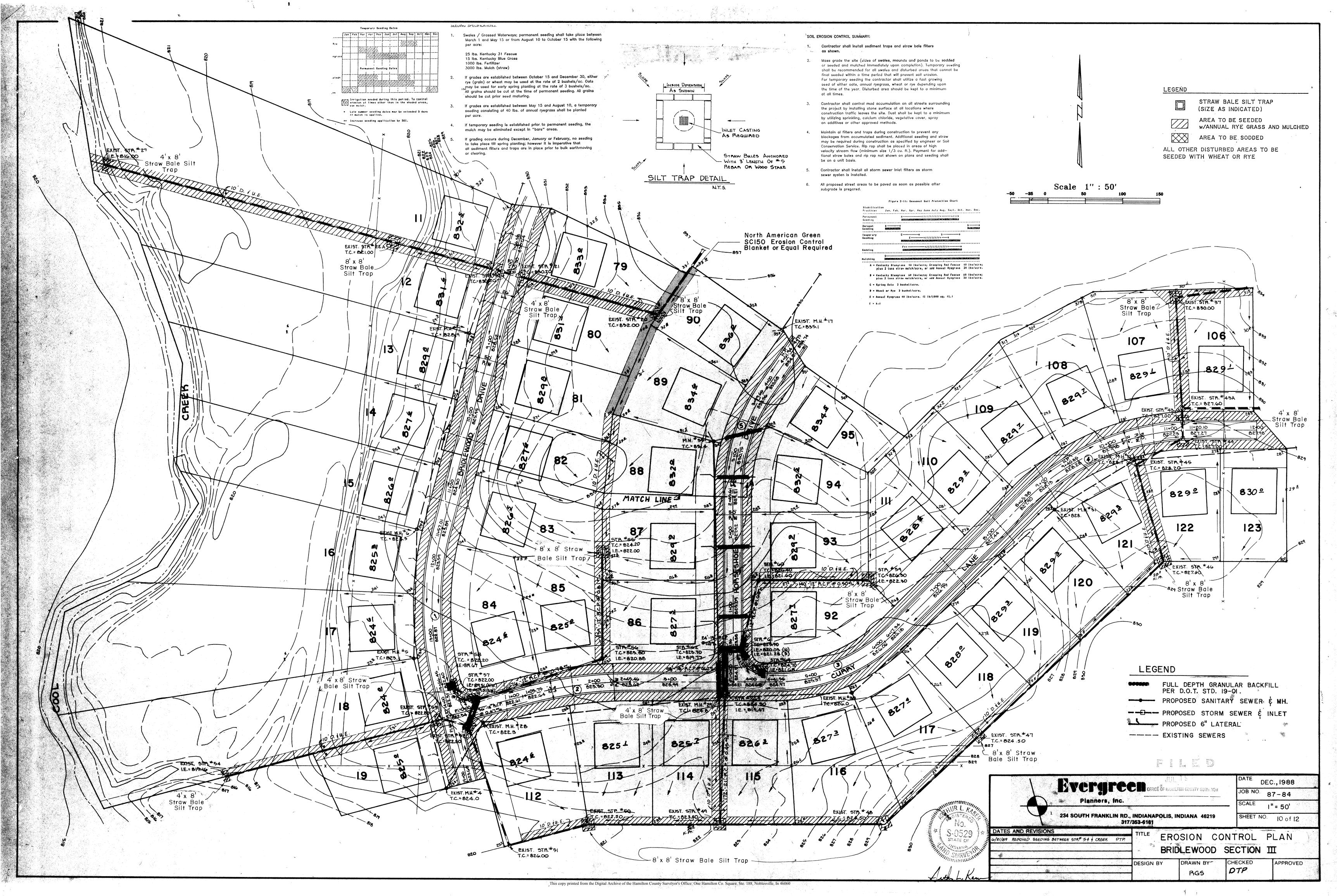
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# GENERAL SITE WORK NOTES

1. All construction work and material shall meet the specifications of the Indiana Department of Highways 1988.

- 2. All trenches under or within five (5) feet of the street pavement shall be backfilled to the subgrade with granular material as directed by the engineer. Backfill shall be compacted per Section 211.
- 3. Before earthwork is commenced, the contractor shall remove the topsoil in the area of the street and house pads that require fill. This topsoil shall be stockpiled as directed by the engineer in sufficient quantity so as to allow for the placement of at least three (3) inches over all disturbed areas before mulch seeding. The remainder of the Lopsoil shall be distributed in the front and rear yards.
  - per fills alloca under paved areas and nouse pada are to be an use from spectraely standard proctor (ASIM 0-698) ÷. 计分子 化合同聚合物合合医合合体合合 化合合体
- $\ast$  Minimum elevation for the top of the slab of slab type structures or  $\ast$ \* if a crawl space or basement is used; the flood protection grade \* \* would pertain to the lowest land grade around the exterior of the \* \* building, is two (2) feet above the 100-year flood elevation. \*
- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*
- Temporary silt settlement basins, two feet in depth shall be excavated at the entrance to storm structures, as directed by the engineer.
- 6. Storm and Sanitary sewer material and installation shall be in direct accordance with the STANDARD SPECIFICATIONS FOR STORM AND SANITARY SEWER CONSTRUCTION IN MARION COUNTY, INDIANA as approved on the 20th day of June, 1974. The sanitary sewer contractor shall furnish to the owner certified infiltration tests showing that the leakage outward or inward (exfiltration or infiltration), by an air test (ASTM C828 preferred) shall not exceed 200 gallons per inch of pipe diameter per mile per day and deflection tests for PVC or Truss pipe for 100% of the project and any other tests required for acceptence of sewers by the Department of Public Works.
- 7. Pavement is to be placed on a prepared subgrade with no traffic on the subgrade prior to paving, as per 1988 I.D.O.H. Specifications, Section 207.
- 8. Concrete pavement to be placed as per 1988 I.D.O.H. Specifications, Section 500.
- Asphalt pavement to be placed as per 1988 I.D.O.H. Specifications, Section 400. For additional information see Street Detail Sheet.
- 9. All construction within the dedicated right of way or in areas dedicated to the public shall conform to the City of Indianapolis, Department of Transportation's STANDARDS for STREET & BRIDGE DESIGN and CONSTRUCTION
- as adopted on the 17th day of May 1972 and its periodic revisions.
- 10. All natural areas which are disturbed by site development construction shall be seeded with a mixture of 60 pounds per acre of Perrenial Rye grass and 60 pounds per acre of Kentucky 31 Fescue or Alta Fescue.
- Driveways and sidewalks, unless otherwise noted, are not to be unstalled as part of these plans and are the responsibility of the 11. -idual home builder.
- rior to start of construction, a pre-construction conference be scheduled on site with Contractor, Subcontractor, Developer, Engineer for the Developer, or City Engineer (844-8900). and Utilities Department.
- 13. All City of Lawrence permits shall be obtained prior to start of construction.

ELECTRIC AND TELEPHONE

- 1. Conduct shall be required for all crossings under pavement areas.
- 2. Granular backfill shall be required for all crossings under pavement areas.
- and compacted per Section 211. 3. Concrete pads for electric and telephone transformers shall be set at the approximate ground grade as shown on the Site Development Grading Plans for the respective locations.

#### CONCRETE CURB AND WALKS

- 1. See Dotail Sheet for type and details. Curbs and walks within existing or proposed right of way shall be constructed in accordance with General ordinance No. 49, 1972.
- 2. Concrete shall be ready mix Portland cement conforming to A.S.T.M. C-150, and water. Aggregate shall conform to A.S.T.M. C-33. Compressive strength of concrete at 28 days shall be 4000 p.s.i. Where required, reinforcement shall be welded steel wire fabric conforming to A.S.T.M. A-185.

## 3. Application

- A. Place concrete only on a moist; compact subgrade or base free from loose material. Place no concrete on muddy or frozen subgrade.
- B. Concrete shall be deposited so as to require as little rehandling as practical. When concrete is to be placed at an atmospheric temperature of 35 F. or less, Paragraph 702.10 of the I.D.O.H. Specifications, 1985 edition, shall apply.
- C. Except as otherwise specified, cure all concrete by one of the methods described in Section 501.17 of the I.D.O.H. Specifications, 1985 edition.

#### SANITARY SEWER SPECIFICATIONS

- 1. Current City of Indianapolis Sanitary Sewer District, County and State specifications shall prevail as to materials and methods of construction.
- 2. Sanitary sewers shall be installed in accordance with the Indiana State Board of Health requirements.
- 3. Sanitary sewers shown on the construction plans may be Poly-Vinyl Chlorine Pipe in accordance with A.S.T.M. D-3034 (S.D.R. 35),
- or A.B.S. Truss Pipe, where applicable, in accordance with A.S.T.M. D-2680 (8"-15" pipe and fittings), D-2751 (6" pipe and fittings).
- 4. Construction of the sanitary sewers will not be allowed to commence until a valid SPC-15 permit is obtained from the Department of Environmental Management. 5. Sanitary manholes shall be precast concrete in accordance with
- A.S.T.M. C-478. Manhole joints shall be O-RING type.
- 6. Plastic sanitary sewers shall be marked for easy identification. 7. Water and sewer line crossings and separations shall be in accor-
- dance with Ten States Standards and local codes. a. Where water lines and sewer lines cross and the water line
- cannot be placed above the sewer line a minimum of 18" with a minimum cover of 48", the sewer line shall be constructed of waterworks grade cast iron pipe with mechanical joints.
- b. Where water lines and sanitary sewer lines run parallel with one another, a minimum of 10 horizontal separation shall be maintained.
- 8. Buildings shall be serviced by a 6" minimum sanitary sewer lateral. The sewer laterals' termination shall be indicated on the surface with a post set immediately above said termination point. The ends shall be plugged and sealed with a water tight clay or plastic disc. Wyes are to be tilted up to 45 degrees from the horizontal, with suitable fittings for all changes in direction. Identified with locator tape.
- 9. The Contractor shall provide the Engineer with "as-built" locations and information for all sanitary sewers and laterals including elevations within ten days after completion.

DATES AND REVISIONS

-6-88- Rev. Notes 3,4 \$ 10-San Sewer Spers Hay

20-08 Rev. Notes 4,5 to San Sever Spece OTP

10-10-83 Per. Notes 24,78 11,18 13 - General Site Lox ; See

10. Manhole sections shall have "O" rings. In case of wet conditions, larger stone shall be used for bedding.

Truss Pipe To Hove Gasket Type Joints, No. Glue Joints Allowed.

#### TITLE Specifications Note " 2 on Electric & Telephone; Ber. Storm Sever " (BT.P) DESIGN BY DRAWN BY CHECKED HASP

## STORM SEWERS

- 1. Storm sewer structures shall comply with minimum specifications of the City, County and all agencies in respect to design and quality of construction.
- 2. All storm sever construction inside public right of way, either existing or to be dedicated, shall be in accordance with General Ordinance 49. 1972. Contractor shall notify the Indianapolis Department of Transportation fourty-eight hours prior to commencement of storm sever construction.

- 3. Where reinforced concrete pipe is shown on the construction plans it shall be in accordance with A.S.T.M. C-76 Class III Wall "B", unless otherwise specified on the plans.
- 4. Where corrugated metal pipe is shown on the construction plans, it shall be 16 guage unless otherwise specified and shall have the connecting bands and seals as specified by the manufacturer. C.M.P. may be either aluminant pipe or zinc coated steel shoets in accordance with A.S.T.M. A-444.
- 5. Manholes, catchbasins, and inlets may be precast concrete, brick or block.
- 6. Precast concrete and steel for manholes and inters shall be in accordance with A.S.T.M. C-478.
- 7. Castings shall be as shown on the Structure Data Table for the manufacturer, type, and model masher.
- 8. Granular Backfill shall be required for all crossings under povement areas per D.O.T. Standard 19-01. Granular Backfill shall be compacted per Section 211.

NOTE: Section References refer to 1988 IDOH Standard Specifications.

# FILED 15

OFFICE OF HAMILTON COUNTY SURVEYOR

# APPROVED

Kwergreen

**Development** Corporation

234 SOUTH FRANKLIN RD., INDIANAPOLIS, INDIANA 46219

317/353-6161

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