

Drain: RESERVE AT SPRINGMILL DRAIN **Drain #:** 273
Improvement/Arm: RESERVE AT SPRINGMILL-SECTION 2
Operator: JOH **Date:** 2-24-04
Drain Classification: Urban/Rural **Year Installed:** 1995

GIS Drain Input Checklist

- Pull Source Documents for Scanning JA 2-24
- Digitize & Attribute Tile Drains N/A
- Digitize & Attribute Storm Drains JA 2-24
- Digitize & Attribute SSD JA 2-24
- Digitize & Attribute Open Ditch JA 2-24
- Stamp Plans JA 2-24
- Sum drain lengths & Validate JA 2-24
- Enter Improvements into Posse JA 2-24
- Enter Drain Age into Posse JA 3-1
- Sum drain length for Watershed in Posse JA 3-1
- Check Database entries for errors JA 2-24



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

Suite 146

776-8495

One Hamilton County Square

Noblesville, Indiana 46060-2230

February 5, 1996

TO: Hamilton County Drainage Board

RE: The Reserve @ Springmill Drain, Section 2 Arm

Attached is a petition, non-enforcement request, plans, calculations, quantity summary and assessment roll for the The Reserve @ Springmill Drain, Section 2 Arm. 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 benefited. The drain will consist of the following:

6"	SSD	4,364 feet	18"	RCP	167 feet
12"	RCP	359 feet	21"	RCP	59 feet
15"	RCP	1,056 feet	Open Ditch		230 feet

The total length of the drain will be 6235 feet.

The retention pond (lake) located to the West of Lot 74 is not to be considered part of the regulated drain. Only the inlet and outlet will be maintained as part of the regulated drain. The maintenance of the pond (lake) will be the responsibility of the Homeowners Association. The Board will however, retain jurisdiction for ensuring the storage volume for which the lake was designed will be retained. Thereby, allowing no fill or easement encroachments.

The subsurface drains (SSD) to be part of the regulated drain are those located under the curbs. Only the main SSD lines

which are located within the Right-of-Way are to be maintained as regulated drain. Laterals for individual lots will not be considered part of the regulated drain. The open ditch listed above is the section between structures 108 and 109 located in the rear of Lots 62 to 67. The length of open ditch behind lots 40 to 42 was included with the length for Section 1.

I have reviewed the plans and believe the drain will benefit each lot equally. Therefore, I recommend each lot be assessed equally. I also believe that no damages will result to landowners by the construction of this drain. 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 this drain/this section will be \$ 1387.50.

Parcels assessed for this drain may be assessed for the Collins-Osborn or Williams Creek at sometime in the future.

I believe this proposed drain meets the requirements for Urban Drain Classification as set out in IC 36-9-27-67 to 69. Therefore, this drain shall be designated as an Urban Drain.

I recommend that upon approval of the above proposed drain that the Board also approve the attached non-enforcement request. This request is for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for The Reserve at Springmill, Section 2 as recorded in the office of the Hamilton County Recorder.


I recommend the Board set a hearing for this proposed drain for March 1996.

Kenton C. Ward
Hamilton County Surveyor
KCW/no

FINDINGS AND ORDER
CONCERNING THE MAINTENANCE OF THE
Reserve @ Springmill DRAIN
Section 2

On this 25th day of March 1996-1995, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the Section 2 Reserve @ Springmill 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 assessments 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: 

Administrative Secretary
Revised 12/95

STANDBY LETTER OF CREDIT

Letter of Credit No. 44425

Date: September 15, 1995

COPY

BENEFICIARY

HAMILTON COUNTY BOARD
OF COMMISSIONERS
One Hamilton County Square
Noblesville, IN 46060

APPLICANT

THE RESERVE AT SPRING MILL, L.P.
P.O. Box 554
Carmel, IN 46032

We hereby establish our Irrevocable Letter of Credit in your favor, for the account indicated above, for the sum or sums not exceeding an aggregate amount of USD78,939.00 (Seventy Eight Thousand Nine Hundred Thirty Nine U.S. Dollars).

Funds are available by your drafts at sight drawn on National City Bank, Indiana Indianapolis, Indiana.

Drafts are to be accompanied by:

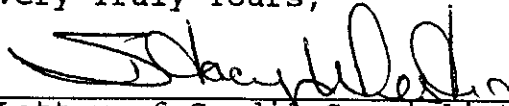
1. The original of this Letter of Credit No. 44425.
2. Beneficiary's signed statement stating that "The Reserve at Spring Mill, L.P. has failed to complete subsurface drains (\$22,286), storm sewers (\$47,153) and/or erosion control (\$9,500) in The Reserve at Spring Mill, Section 2."

All drafts drawn under this Letter of Credit are to be endorsed hereon and shall bear the clause: "Drawn under National City Bank, Indiana Indianapolis, Indiana Letter of Credit No. 44425", and must be drawn and presented at this office on or before September 24, 1996.


We hereby agree with you that all drafts drawn under and in compliance with the terms of this Letter of Credit will be duly honored upon proper presentation.

Except as otherwise expressly stated herein, this credit is subject to the Uniform Customs and Practice for Documentary Credits (1993 Revision), International Chamber of Commerce, Publication No. 500.

Very Truly Yours,



Letter of Credit Specialist I



Assistant Vice President and
International Operations Manager

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: The Reserve At Springmill Section 2

I hereby certify that:

1. I am a Registered Land Surveyor or Engineer in the State of Indiana .
2. I am familiar with the plans and specifications for the above referenced subdivision .
3. I have personally observed and supervised the completion of the drainage facilities for the above referenced subdivision .
4. The drainage facilities within the above referenced subdivision to the best of my knowledge , information and belief have been installed and completed in conformity with all plans and specifications .

Signature:



Date:

3/23/96

Type or Print Name: Paul C. Claire, P.E.

Business Address: Schneider Engineering Corporation
3020 N. Post Road
Indianapolis, IN 46226

Telephone Number: (317) 898-8282

SEAL



INDIANA REGISTRATION NUMBER

890267

FILED

MAR 29 1996

Revised 10/95



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

Phone (317) 776-8495

Fax (317) 776-9628

Suite 146

One Hamilton County Square

Noblesville, Indiana 46060-2230

October 11, 1996

TO: Hamilton County Drainage Board

RE: Reserve at Springmill Drain-Section 2 Arm

Attached are As-Builts, Certificate of Completion and Compliance, and other information for Reserve at Springmill Drain-Section 2 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, changes were made to the drain which will alter the plans submitted with my report for this drain dated February 5, 1996. The changes are as follows:

STR 119 to 118	12" RCP	shortened	from 53'	to 51 feet
STR 117 to 116	15" RCP	shortened	from 136'	to 128 feet
STR 116 to 115	15" RCP	shortened	from 258'	to 255 feet
STR 114 to 113	15" RCP	shortened	from 121'	to 120 feet
STR 113 to 109	18" RCP	lengthened	from 8'	to 12 feet
STR 105 to 104	21" RCP	shortened	from 59'	to 57 feet
STR 112 to 101	15" RCP	lengthened	from 56'	to 58 feet
STR 101 to 102	15" RCP	shortened	from 42'	to 40 feet
STR 102 to 103	15" RCP	shortened	from 59'	to 57 feet
STR 110 to 113	12" RCP	shortened	from 142'	to 131 feet.

This structure was incorrectly noted as 15" RCP on the original

The total length of the drain due to the changes described above is now 6,219 feet.

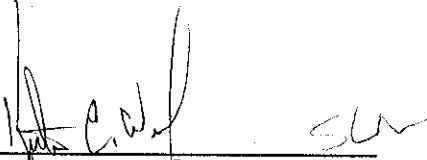
6,079

The bond or letter of credit from National City Bank, number 44425, dated September 15, 1995, in the amount of \$78,939.00, has been released.

The non-enforcement was approved by the Board at its meeting on March 26, 1996.

Page #2

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

Handwritten signature of Kenton C. Ward and initials SLW.

Kenton C. Ward
Hamilton County Surveyor

KCW/no

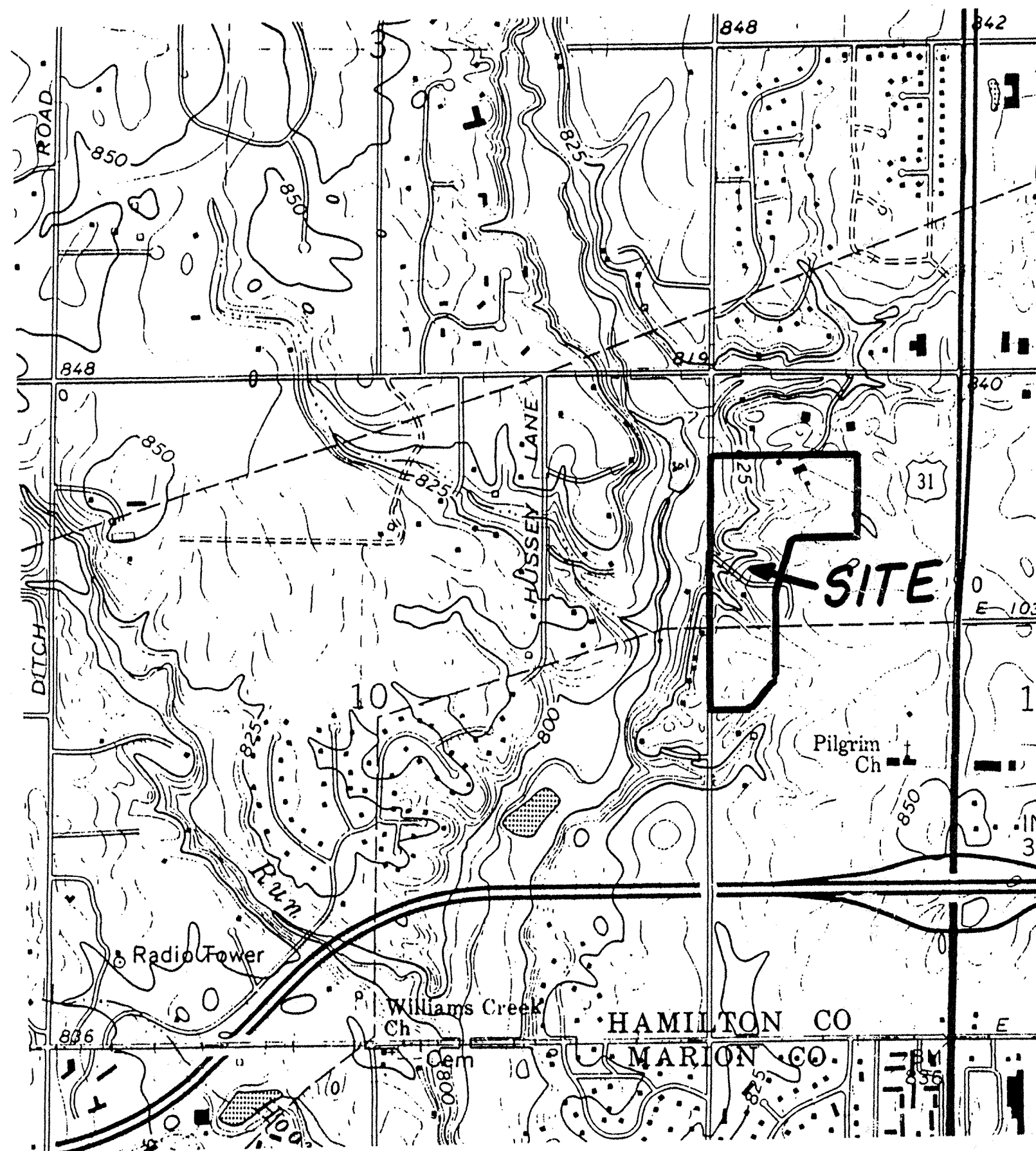
-SECTION 11-T17N-R3E-

THE RESERVE AT SPRINGMILL SECTION 2 (CONSTRUCTION PLANS) HAMILTON COUNTY CARMEL, INDIANA

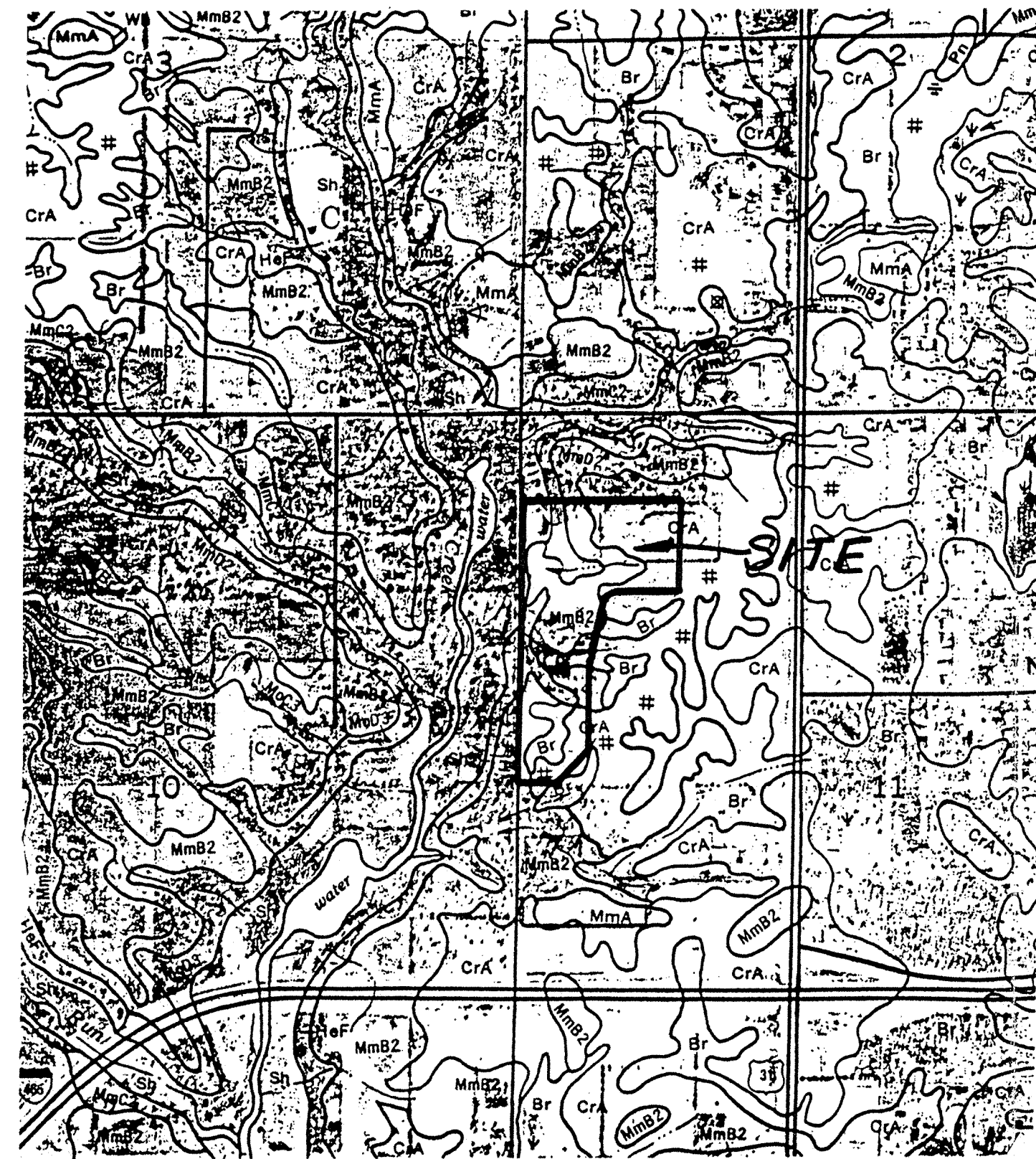
DEVELOPER:

PITTMAN PARTNERS

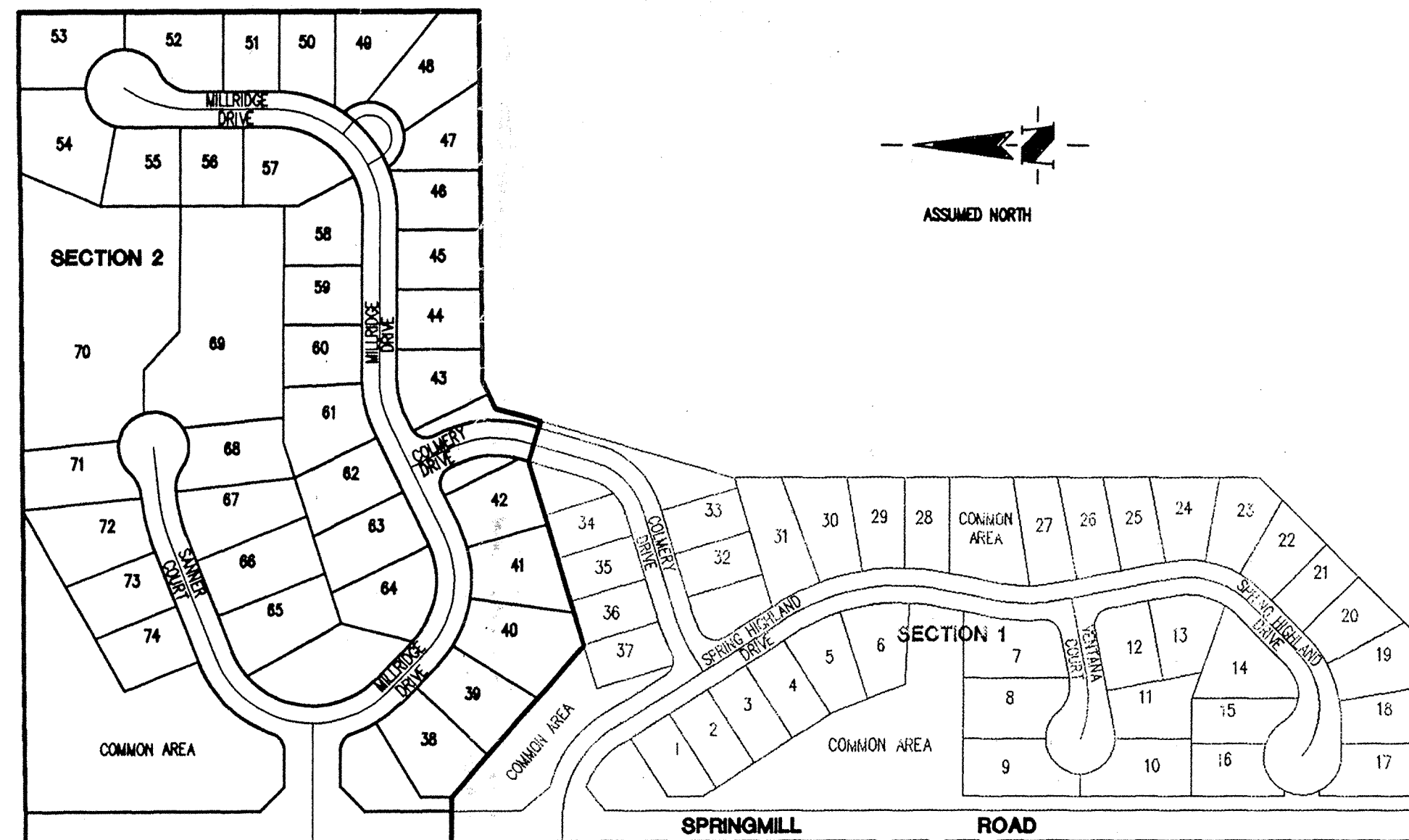
P.O. BOX 554
CARMEL, INDIANA 46032
(317) 580-9693



AREA MAP
NOT TO SCALE



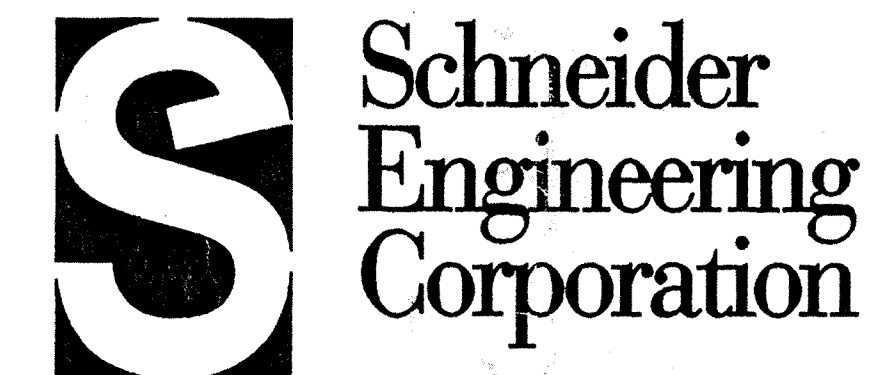
SOILS MAP
NOT TO SCALE



SITE MAP
SCALE: 1" = 200'

INDEX	
SHEET No.	DESCRIPTION
S-1	TITLE SHEET
S-2	TOPOGRAPHY
S-3	DEVELOPMENT PLAN
S-4	EROSION CONTROL PLAN
S-5	ENTRANCE PLAN
S-6,S-7	STREET PLANS
S-8,S-9	SANITARY SEWER PLANS
S-10,S-11	STORM SEWER PLANS
S-12	CUL-DE-SAC & INTERSECTION DETAILS
S-13	STREET DETAILS
S-14	SANITARY SEWER DETAILS
S-15	STORM SEWER DETAILS
S-16	SPECIFICATIONS

STORM SEWER RECORD DRAWING



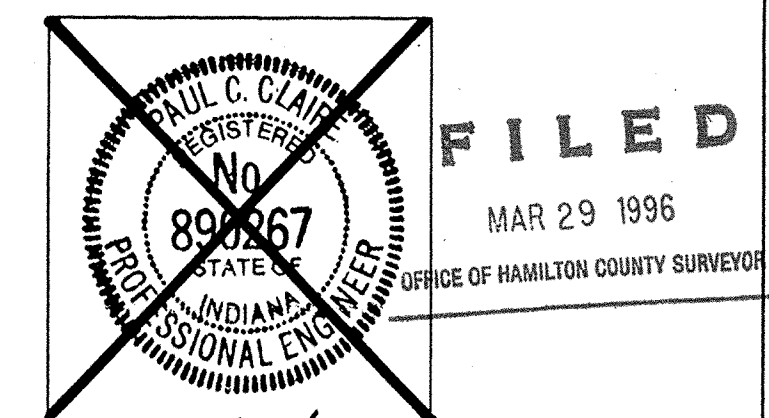
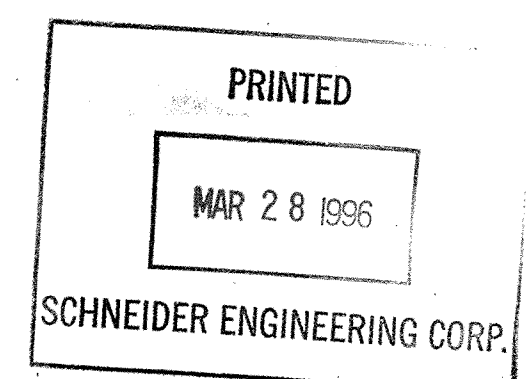
**Schneider
Engineering
Corporation**

3020 North Post Road
Indianapolis, Indiana
46226-0068
317-898-8282
317-899-8010 Fax

Engineering
Surveying
GIS • LIS
Geology

A Partnered Entity with Bohlen, Meyer, Gibson & Associates, Incorporated

Paul C. Claire
CERTIFIED BY: PAUL C. CLAIRE, P.E.

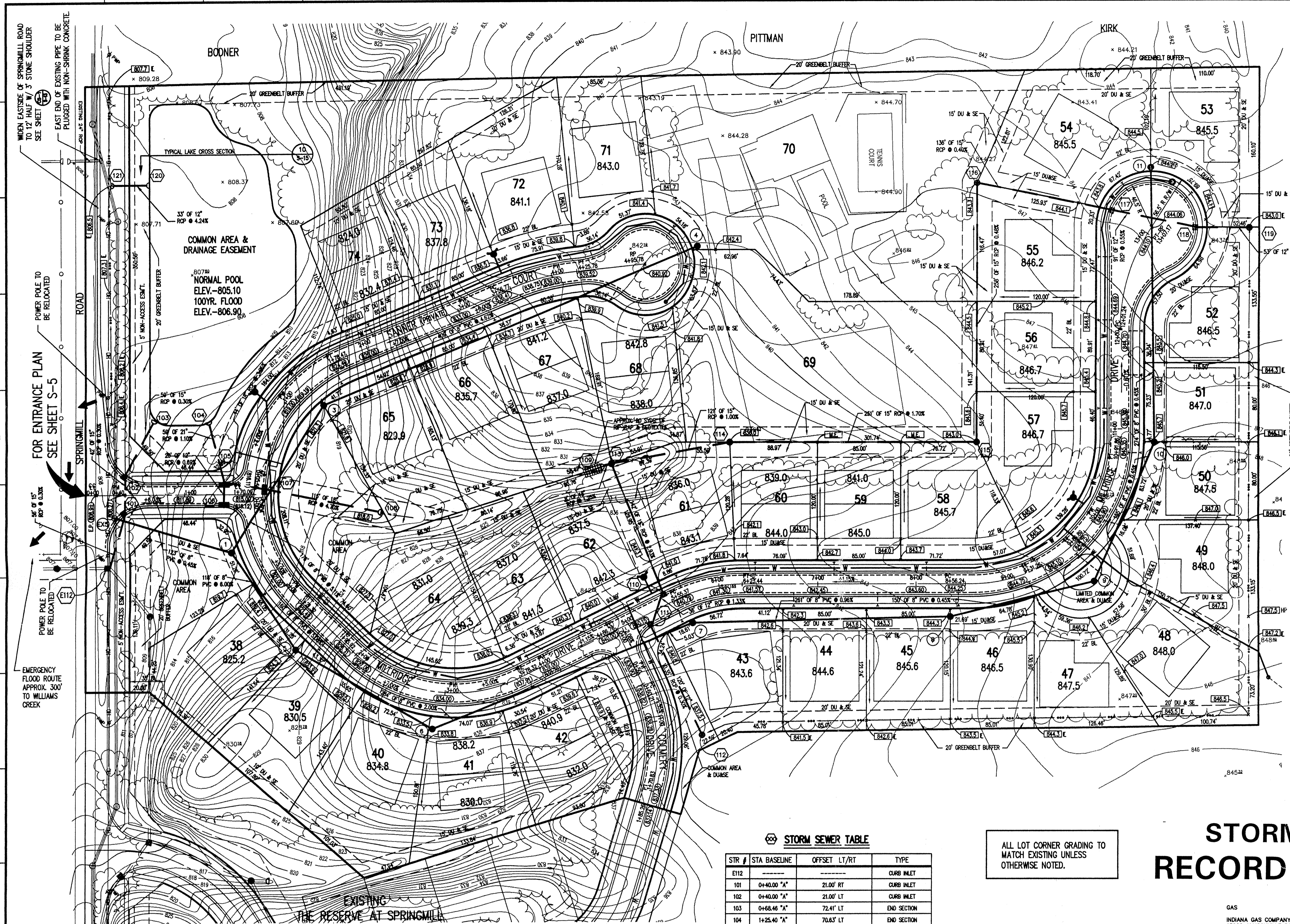


DATE: 4/19/95

SHEET
S-1
OF
16

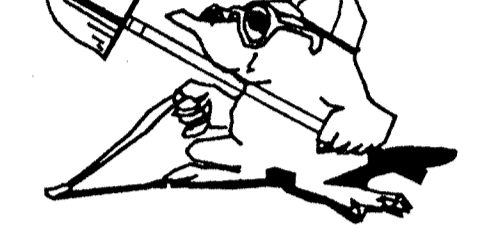
PROJECT ENGINEER: _____
CHECKED BY: _____ DATE CHECKED: _____

(JOB No. 897.02)



ASSUMED NORTH
SCALE: 1"=50'

**HOLEY MOLEY SAYS
"DON'T
DIG
BLIND"**



**1-800-382-5544
CALL TOLL FREE
1-800-428-5200
FOR CALLS OUTSIDE OF INDIANA**
PER INDIANA STATE LAW IS-69-1991,
IT IS AGAINST THE LAW TO EXCAVATE
WITHOUT NOTIFYING THE UNDERGROUND
LOCATION SERVICE TWO (2) WORKING
DAYS BEFORE COMMENCING WORK.

LEGEND

- Existing Storm Sewer
- New Storm Sewer
- Existing Sanitary Sewer
- New Sanitary Sewer
- Existing Contour
- Existing Elevation
- New Pavement Elevation
- All Other Finish Elevations
- Corrected Elevations
- Storm Structure Number
- Sanitary Structure Number
- Flow Arrow
- Denotes Approximate Pad Size and Finished Floor Elevation
- Subsurface Drain w/4" Lateral Connection
- Swale (E)
- Swale Elevation (Flow Line)
- Waterline (Waterline to be designed & installed by the I.W.C.)
- Emergency Flood Routing

- GENERAL NOTES:
- ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES.
 - IT SHALL BE THE RESPONSIBILITY OF EACH SUBCONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO HIS PHASE OF WORK. IT SHALL ALSO BE THE SUBCONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES FOR PROPER STAKE LOCATION OF EACH UTILITY BEFORE WORK IS STARTED. THE SUBCONTRACTOR SHALL NOTIFY IN WRITING THE OWNER OR THE ENGINEER OF ANY CHANGES, OMISSIONS, OR ERRORS FOUND ON THESE PLANS OR IN FIELD BEFORE WORK IS STARTED OR RESUMED.
 - STANDARD SPECIFICATIONS FOR THE CLAY TOWNSHIP REGIONAL WASTE DISTRICT, SHALL APPLY FOR ALL SANITARY SEWERS.
 - ANY PART OF THE SANITARY OR STORM SEWER TRENCHES RUNNING UNDER PAVED AREAS TO BE BACKFILLED WITH GRANULAR MATERIAL.
 - THE SIZE AND LOCATION OF EXISTING UTILITIES SHOWN ARE PER INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES. ALL UTILITY COMPANIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION FOR FIELD LOCATION OF SERVICES.
 - SERVICE WALKS SHALL BE NON-REINFORCED CONCRETE 4" THICK AND 4' IN WIDTH.
 - EXPANSION JOINTS ARE TO BE PLACED AT ALL WALK INTERSECTIONS AND BETWEEN WALKS AND PLATFORMS. SIDEWALK SPACES ARE TO BE EQUALLY SPACED BETWEEN EXPANSION JOINTS. CONTRACTION JOINTS AND PERPENDICULAR SIDEWALKS AT 5' INTERVALS OR LESS WITH A CONTRACTION JOINT EVERY 20' OR LESS.
 - 4" CONCRETE SERVICE WALK ACROSS FRONTAGE OF EACH LOT TO BE CONSTRUCTED BY OTHERS.
 - TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
 - ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
 - CONTRACTOR SHALL MINIMIZE DAMAGE TO EXISTING TREES.

BENCH MARK INFO.

- TBM TOP OF CASTING OF EXISTING SANITARY MANHOLE No. 4, EAST SIDE OF SPRINGMILL RD. ELEV.-807.85
- TBM 1 TOP OF CASTING OF EXISTING SANITARY MANHOLE No. 11, EAST PROPERTY LINE ELEV.-839.49

Revisions
8/22/95-DW-REVERSE STREET LENGTH OF MILLROAD DRIVE, GRADES, STATIONS, & UTILITIES PER CLIENT REQUEST.
9/15/95-DCC-REMOVED SSD FROM BEHIND LOTS 48-52 & ADDED SSD BEHIND IN FRONT OF LOTS 48-52 & 48 AND REVERSED SOME GRADING ADDED 33' OF STORM SEWER AT WEST SIDE OF LAKE AND STRUCTURE NUMBERS 120 AND 121 AND REMOVED SIDEWALK DRAIN ADDED 4' CONCRETE CURB AT THE BEGINNING OF THE PRIVATE DRIVE
10/10/95-DW-REVERSE NOTE FOR EXISTING STORM PIPE CROSSING SPRINGMILL ROAD.

PAUL C. CLAY
REGISTERED PROFESSIONAL SURVEYOR
No. 890267
STATE OF INDIANA
SINCE 1988
CERTIFIED BY: *[Signature]*
NOT PUBLISHED
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EXCEPT FOR USES EXPRESSLY PERMITTED IN WRITING, INFORMATION SHOWN OR INCLUDED IN THIS DOCUMENT IS SOLELY THE PROPERTY OF SCHNEIDER ENGINEERING CORPORATION.

STORM SEWER TABLE

STR #	STA BASELINE	OFFSET LT/RT	TYPE
E112			CURB INLET
101	0+40.00 "A"	21.00' RT	CURB INLET
102	0+40.00 "A"	21.00' LT	CURB INLET
103	0+68.46 "A"	72.41' LT	END SECTION
104	1+25.40 "A"	70.63' LT	END SECTION
105	1+40.00 "A"	13.00' LT	DOUBLE CURB INLET
106	1+40.00 "A"	13.00' RT	DOUBLE CURB INLET
107	0+05.56 "B"	13.00' RT	DOUBLE CURB INLET
108	0+95.85 "C"	119.30' LT	END SECTION
109	5+48.48 "C"	155.65' LT	END SECTION
110	5+45.12 "C"	13.00' LT	CURB INLET
111	5+19.76 "C"	13.00' RT	CURB INLET
112	1+17.23 "D"	45.87' LT	BEDWHE INLET
113	5+55.88 "C"	154.54' LT	MANHOLE
114	6+16.89 "C"	145.28' LT	BEDWHE INLET
115	9+74.05 "C"	142.93' LT	BEDWHE INLET
116	12+78.94 "C"	172.03' LT	BEDWHE INLET
117	13+01.57 "C"	40.75' LT	CURB INLET
118	13+33.85 "C"	38.15' RT	CURB INLET
119	13+84.08 "C"	81.07' RT	BEDWHE INLET
120	0+82.06 "A"	310.39' LT	END SECTION
121	0+29.06 "A"	310.39' LT	END SECTION

ALL LOT CORNER GRADING TO MATCH EXISTING UNLESS OTHERWISE NOTED.

STORM SEWER RECORD DRAWING

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: 2-24-04
Entered by: JDA

- GAS
INDIANA GAS COMPANY
15900 ALLISONVILLE ROAD
NOBLESVILLE, IN 46060
(317) 252-0430
- TELEPHONE
INDIANA BELL TELEPHONE CO.
5855 NORTH COLLEGE AVENUE
INDIANAPOLIS, IN 46204
(317) 252-5878
- CABLE TV
JONES INTERCABLE
516 EAST CARMEL DRIVE
CARMEL, IN 46032
(317) 844-8877
- WATER
INDIANAPOLIS WATER CO.
1225 WATERWAY BLVD.
INDIANAPOLIS, IN 46226
(317) 263-6319
- UTILITY HOTLINE: WITHIN INDIANA 1-800-382-5544
OUTSIDE INDIANA 1-800-428-5200
- The size and location of utilities are per plans and locations provided by the respective utility companies. All utility companies shall be notified prior to any excavation for field location of services.
- ELECTRIC
INDIANAPOLIS POWER & LIGHT CO.
25 MONUMENT CIRCLE
INDIANAPOLIS, INDIANA 46206
(317) 261-5285
- STORM SEWER
HAMILTON COUNTY SURVEYOR
ONE HAMILTON COUNTY SQUARE
NOBLESVILLE, IN 46060
(317) 776-8495
- STREETS
HAMILTON COUNTY HIGHWAY DEPARTMENT
1717 PLEASANT STREET
NOBLESVILLE, INDIANA 46060
(317) 773-7770
- SANITARY SEWER
CLAY TOWNSHIP REGIONAL WASTE DISTRICT
12755 NORTH COLLEGE
INDIANAPOLIS, IN 46240
(317) 844-9200

SANITARY SEWER TABLE

STR #	STA BASELINE	OFFSET LT/RT	TYPE
E05			MANHOLE
1	0+48.63 "C"	32.52' RT	MANHOLE
2	STRUCTURE DELETE		
3	1+27.23 "B"	29.50' RT	MANHOLE
4	5+48.84 "B"	12.18' LT	MANHOLE
5	1+52.25 "C"	38.68' RT	MANHOLE
6	2+81.53 "C"	37.55' RT	MANHOLE
7	5+60.00 "C"	27.77' RT	MANHOLE
8	8+34.56 "C"	32.72' RT	MANHOLE
9	9+61.31 "C"	42.67' RT	MANHOLE
10	10+87.87 "C"	35.01' RT	MANHOLE
11	13+55.40 "C"	36.61' LT	MANHOLE

Schneider Engineering Corporation
3020 North Post Road
Indianapolis, Indiana 46226-0068
317-898-8282
317-899-8010 Fax
Engineering Surveying GIS • IIS Geology

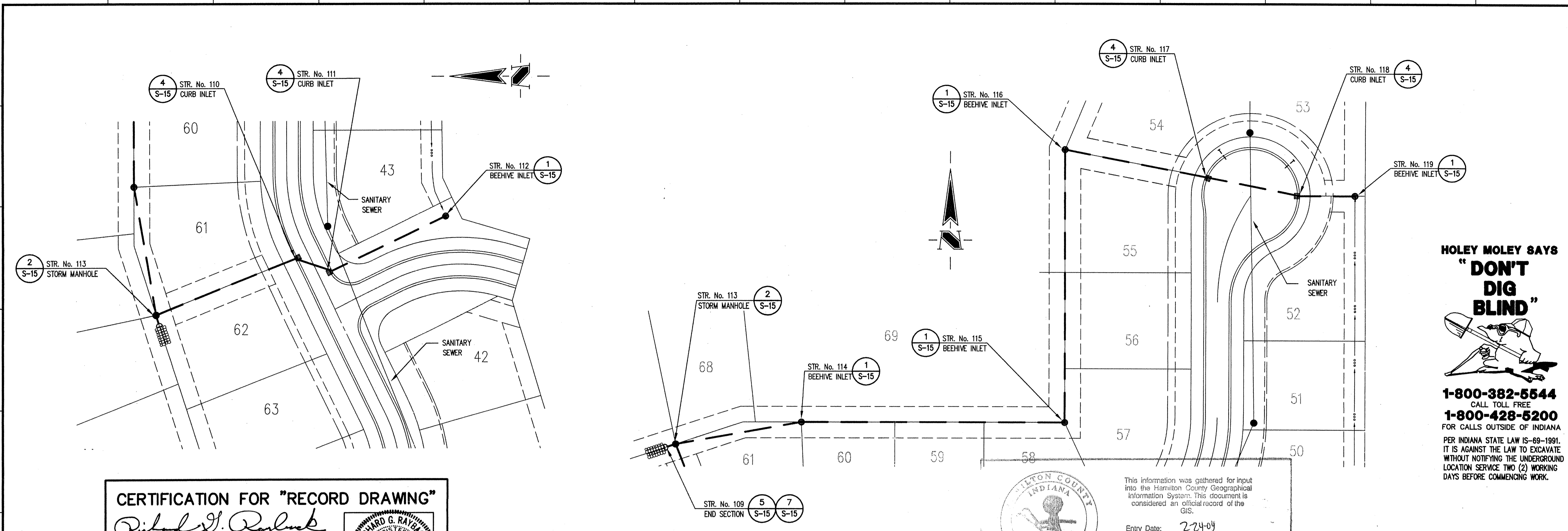
A Partnered Entity with Bohlen, Meyer, Gibson & Associates, Incorporated
PITTMAN PARTNERS
THE RESERVE AT SPRINGMILL SECTION 2
CARMEL, INDIANA
MAR 29 1996

DEVELOPMENT PLAN

Date	Project No.	Drawn	Approx.
4/19/95	897.02	DW	

Computer Files	Sheet No.
89720E/DWG 39E2-89720E/DWG 39E2-89720E/DWG	S-3

Of 16



HOLEY MOLEY SAYS
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 FOR CALLS OUTSIDE OF INDIANA

PER INDIANA STATE LAW 15-1891, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

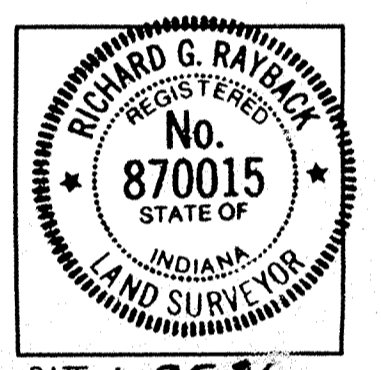
- GENERAL NOTES:**
- ALL CUTS ARE TAKEN FROM THE EXISTING GRADE TO THE PIPE INVERT.
 - ALL STATIONING IS TAKEN FROM THE NEAREST DOWNSTREAM STRUCTURE.
 - IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL UTILITY LOCATIONS BEFORE CONSTRUCTION BEGINS.
 - TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
 - ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
 - CONTRACTOR SHALL MINIMIZE DAMAGE TO EXISTING TREES.
- BENCH MARK INFO.**
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- TBM 1 TOP OF CASTING OF EXISTING SANITARY MANHOLE No. 11, EAST PROPERTY LINE ELEV.-839.49

CERTIFICATION FOR "RECORD DRAWING"

Richard J. Raybank
 CERTIFIED BY:
SCHNEIDER ENGINEERING CORPORATION
 3020 NORTH POST ROAD
 INDIANAPOLIS, INDIANA 46226-0068
 (317) 898-8282 FAX (317) 899-8010

NOTE:
 Record drawing certification only for top of casting, invert elevations and lengths of pipe. Slope percentage represents a calculated figure and is for general information only.

DATE: 1-25-96



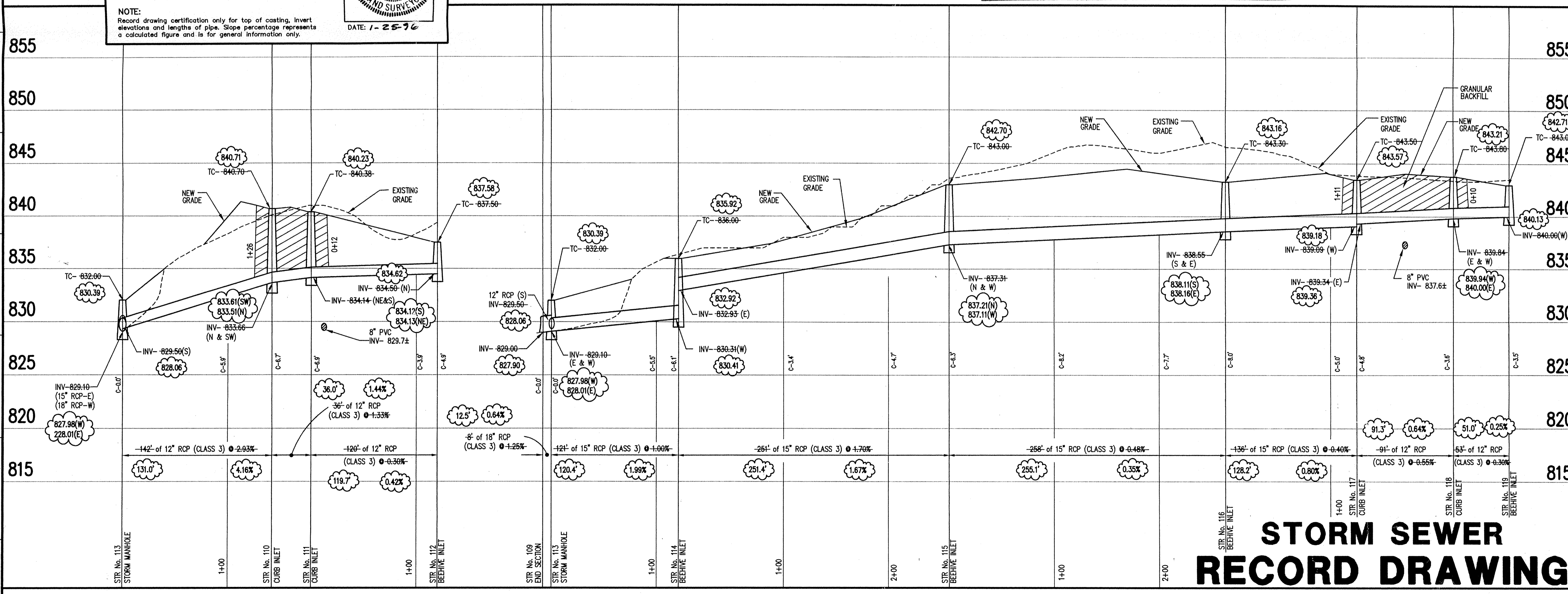
STORM SEWER PLAN

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: 2/24/04
 Entered by: JDH

SCALE: 1"=50'

Revisions
 25 JAN 96 - T1 - STORM SEWER RECORD DRAWING.



STORM SEWER RECORD DRAWING

STORM SEWER PROFILE

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

FILED
 MAR 29 1996
 OFFICE OF HAMILTON COUNTY SURVEYOR

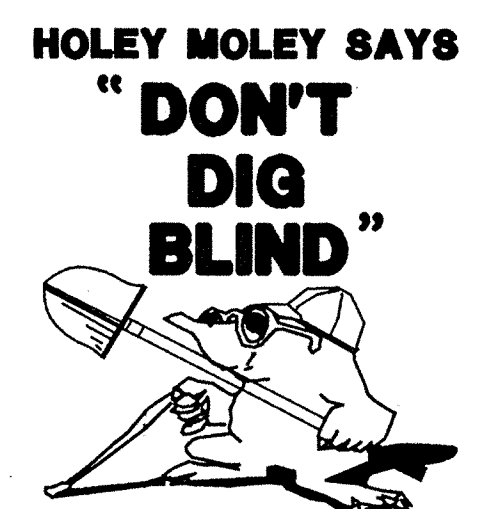
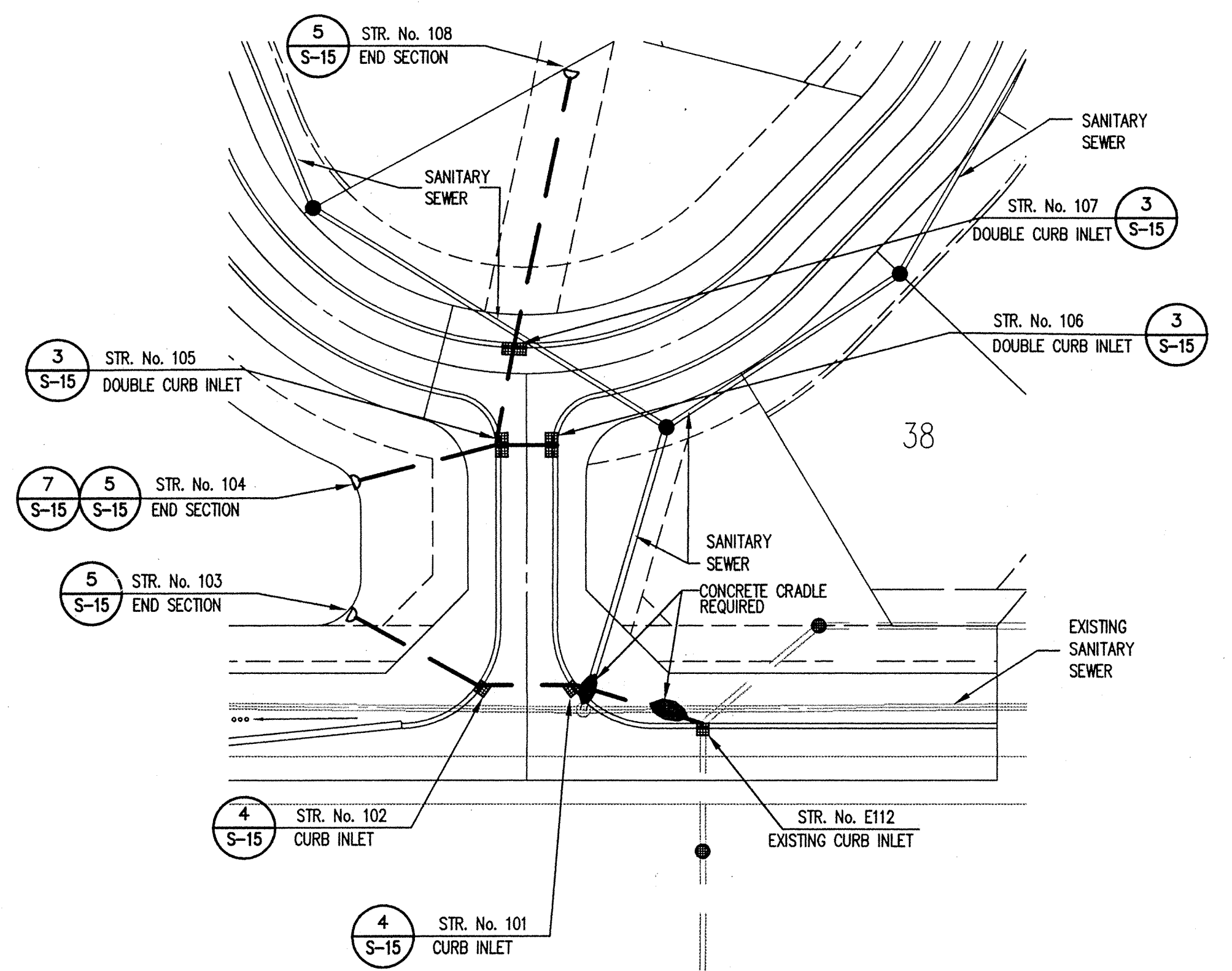
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 3020 North Post Road
 Indianapolis, Indiana 46226-0068
 Engineering Surveying
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 Geology
 317-898-8282
 317-899-8010 Fax

A Partnered Entity with Bohlen, Meyer, Gibson & Associates, Incorporated

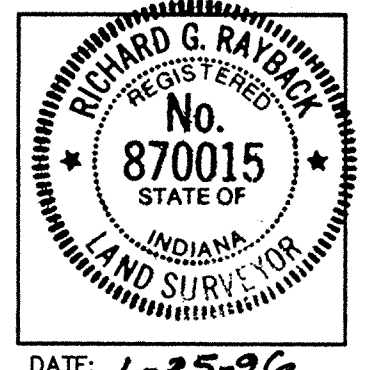
PITTMAN PARTNERS
 THE RESERVE AT SPRINGMILL SECTION 2
 CARMEL, INDIANA

Date	Project No.	Drawn	Apprv.
4/19/95	897.02	DCC	
Computer Files	Sheet No.		
897251W1 XREF: 89702PLWG	S-10		
Of 16			



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PER INDIANA STATE LAW IS-69-1991,
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DAYS BEFORE COMMENCING WORK.

CERTIFICATION FOR "RECORD DRAWING"
CERTIFIED BY: *Richard J. Rayburn*
SCHNEIDER ENGINEERING CORPORATION
3020 NORTH POST ROAD
INDIANAPOLIS, INDIANA 46226-0068
(317) 898-8282 FAX (317) 899-8010
NOTE:
Record drawing certification only for top of casting, invert
elevations and lengths of pipe. Slope percentage represents
a calculated figure and is for general information only.
DATE: 1-25-96



- GENERAL NOTES:
1. ALL CUTS ARE TAKEN FROM THE EXISTING GRADE TO THE PIPE INVERT.
 2. ALL STATIONING IS TAKEN FROM THE NEAREST DOWNSTREAM STRUCTURE.
 3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL UTILITY LOCATIONS BEFORE CONSTRUCTION BEGINS.
 4. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
 5. ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
 6. CONTRACTOR SHALL MINIMIZE DAMAGE TO EXISTING TREES.

BENCH MARK INFO.

TBM TOP OF CASTING OF EXISTING SANITARY MANHOLE No. 4, EAST SIDE OF SPRINGMILL RD. ELEV.-807.85

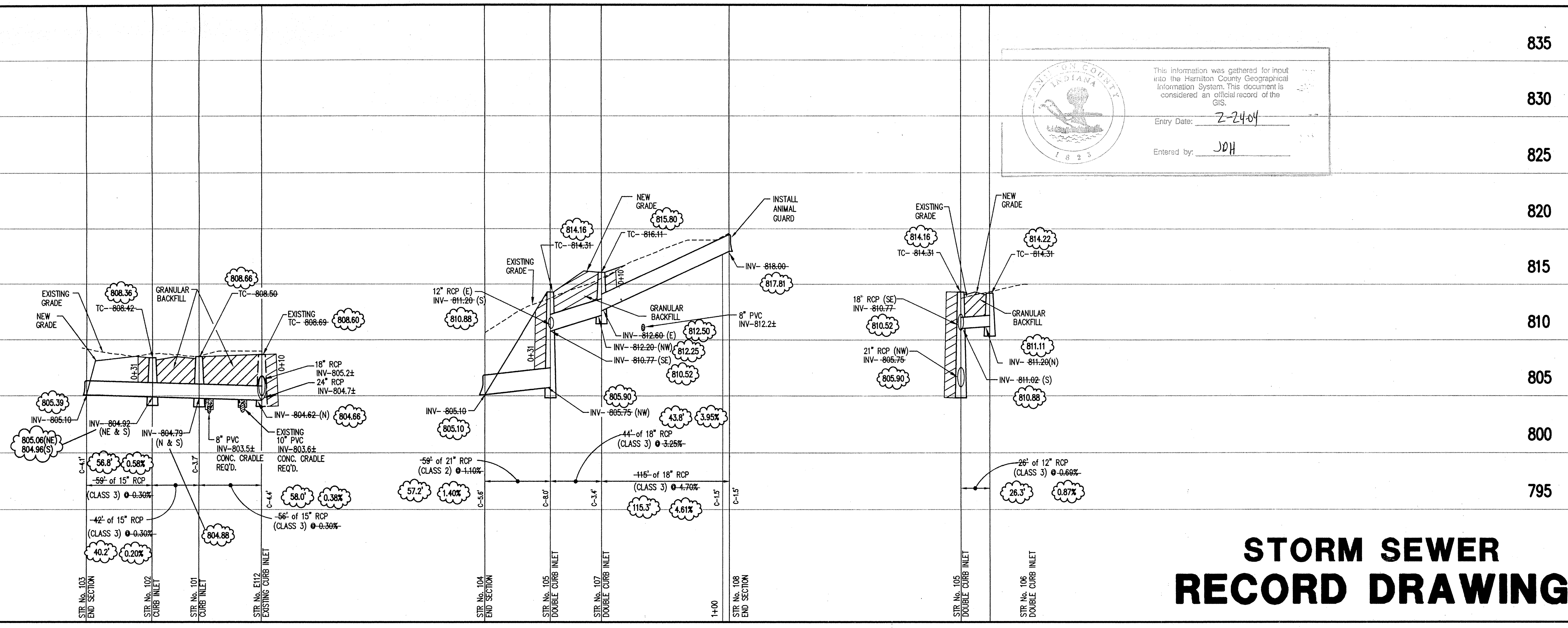
TBM 1 TOP OF CASTING OF EXISTING SANITARY MANHOLE No. 11, EAST PROPERTY LINE ELEV.-839.49

Revisions
25 JAN 96 - TJ - STORM SEWER RECORD DRAWING.

STORM SEWER PLAN

SCALE: 1"=50'

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: 2-24-04
Entered by: JDH



**STORM SEWER
RECORD DRAWING**

STORM SEWER PROFILE

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

FILED
MAR 29 1996
OFFICE OF HAMILTON COUNTY SURVEYOR

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Schneider Engineering Corporation
3020 North Post Road
Indianapolis, Indiana 46226-0068
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Engineering
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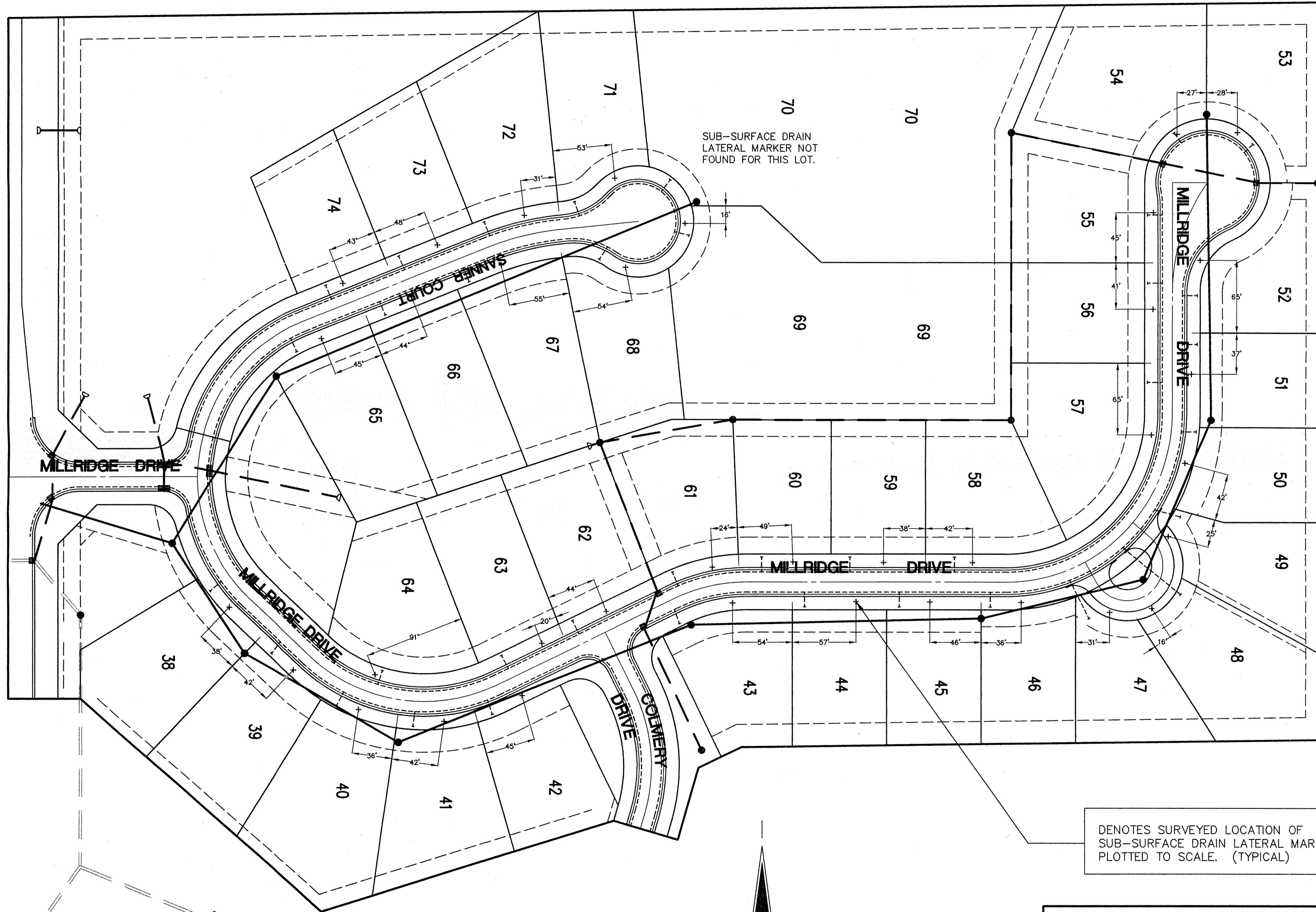
A Partnered Entity with Bohlen, Meyer, Gibson & Associates, Incorporated
PITTMAN PARTNERS
THE RESERVE AT SPRINGMILL SECTION 2
CARMEL, INDIANA

STORM SEWER PLAN

Date 4/19/95	Project No. 897.02	Drawn DCC	Apprv.
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Computer Files
89725TM2
XREF: 89702PLDWG
Sheet No.
S-11
Of 16

THE RESERVE AT SPRINGMILL SECTION 2



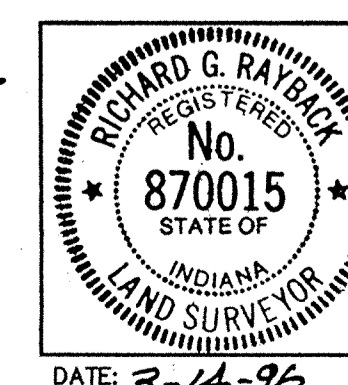
SUB-SURFACE DRAIN RECORD DRAWING

ASSUMED NORTH
SCALE 1" = 50'

DENOTES SURVEYED LOCATION OF
SUB-SURFACE DRAIN LATERAL MARKER
PLOTTED TO SCALE. (TYPICAL)

CERTIFICATION FOR "RECORD DRAWING"

CERTIFIED BY:
Richard G. Rayback
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3020 NORTH POST ROAD
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NOTE:
Record drawing certification for sub-surface drain
lateral marker location only.

DATE: 3-14-96

FILED
MAR 29 1996
OFFICE OF HAMILTON COUNTY SURVEYOR

Entry Date: 2-24-96
Entered by: JPH

Revisions

No.	Description

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MAR 29 1996
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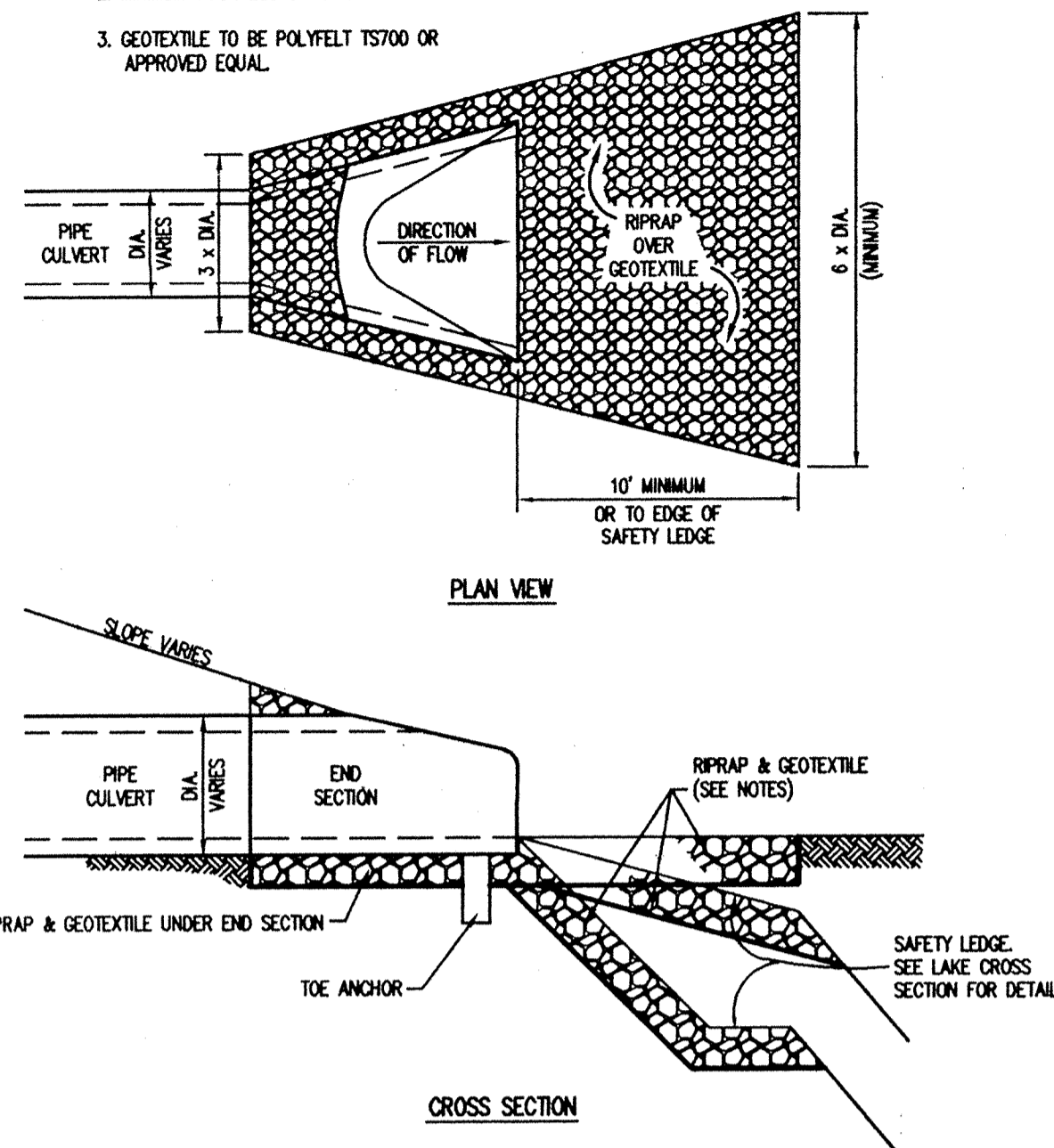
A Partnered Entity with Bohlen, Meyer, Gibson & Associates, Incorporated

PITTMAN PARTNERS
THE RESERVE AT SPRINGMILL SECTION 2
CARMEL, INDIANA

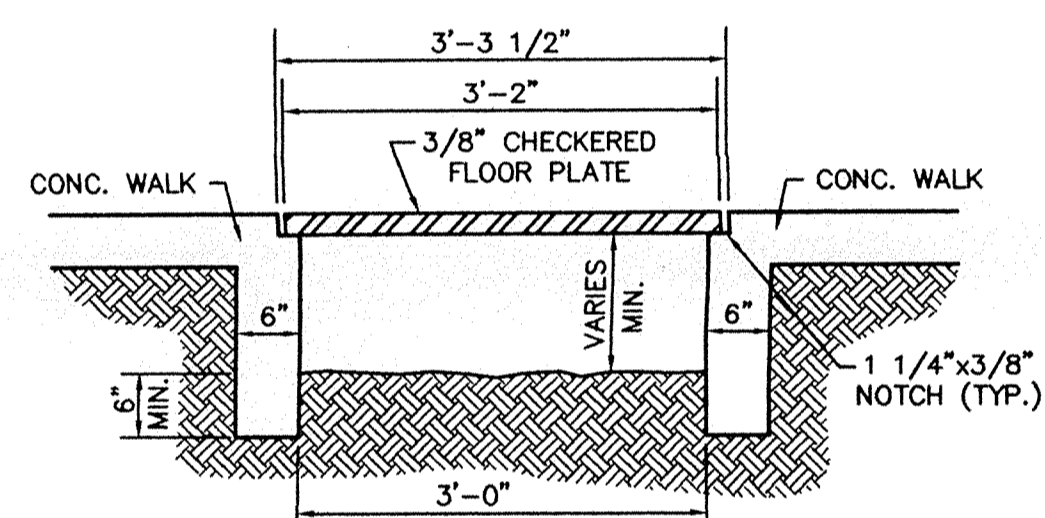
SUB-SURFACE DRAIN RECORD DRAWING

Date 13 MAR 96	Project No. 897.02	Drawn TJ	Approv.
Computer Files J:\897\DWG\SURVEY\89702ASB.DWG XREF & 897\DWG\SURVEY\89702PL.DWG		Sheet No. 11 OF 1	

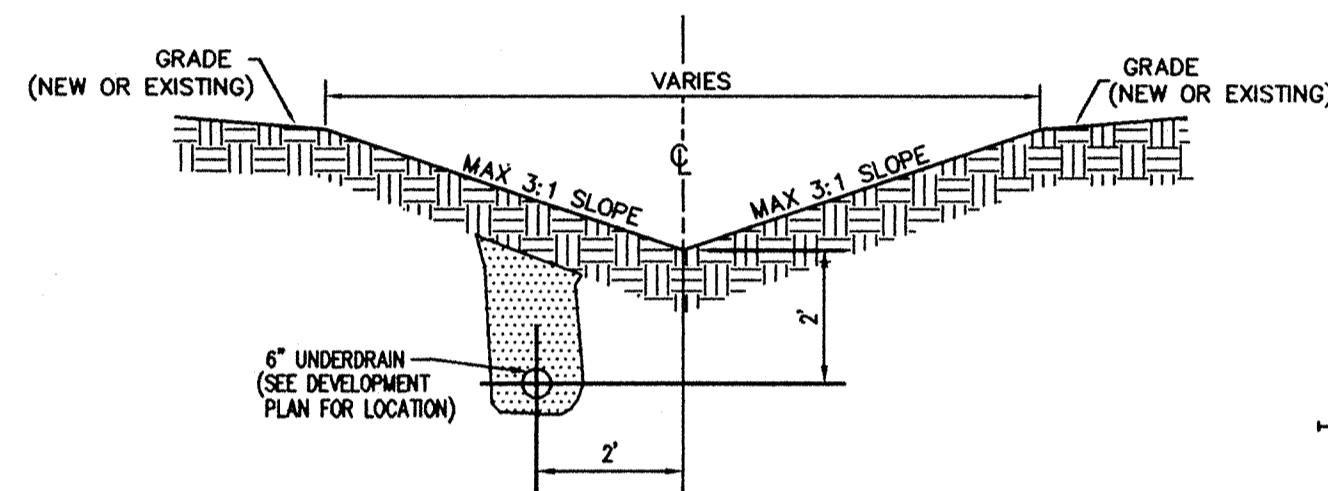
- NOTES
1. AVERAGE STONE SIZE FOR RIPRAP TO BE 6".
 2. MINIMUM THICKNESS OF RIPRAP TO BE 12".
 3. GEOTEXTILE TO BE POLYFELT T5700 OR APPROVED EQUAL.



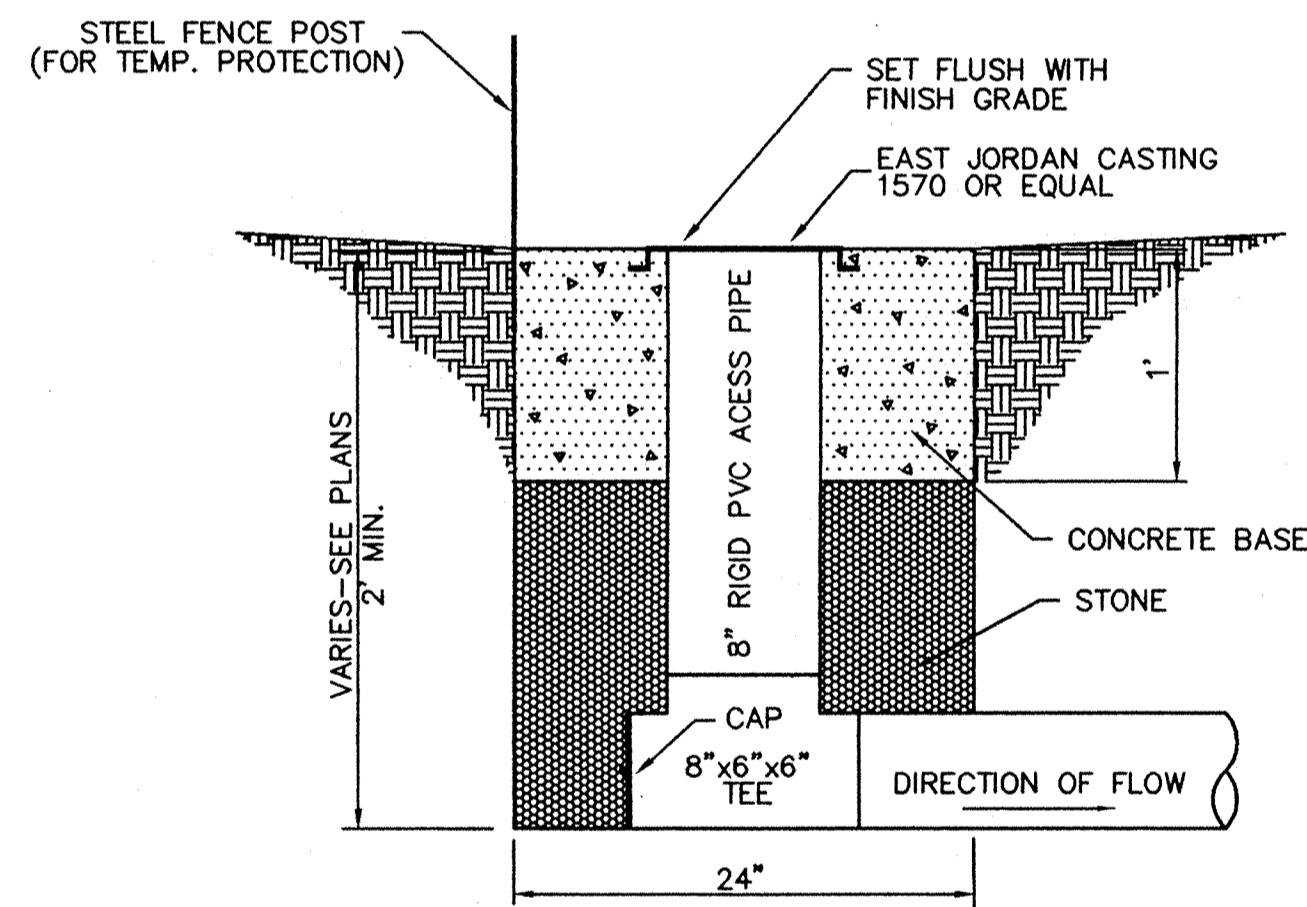
RIPRAP DETAIL END SECTION 7 S-15



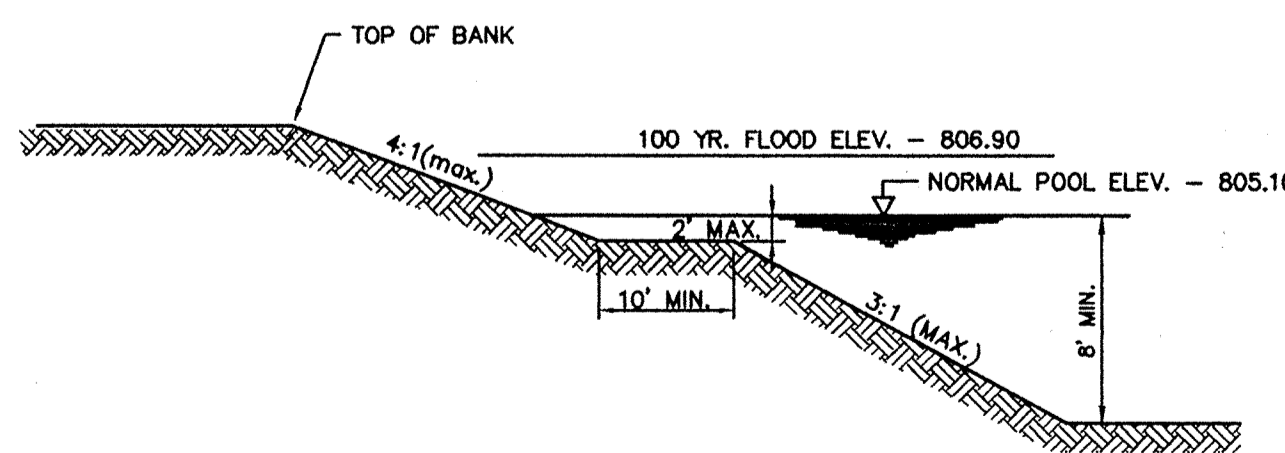
UNDER SIDEWALK DRAIN 11 S-15



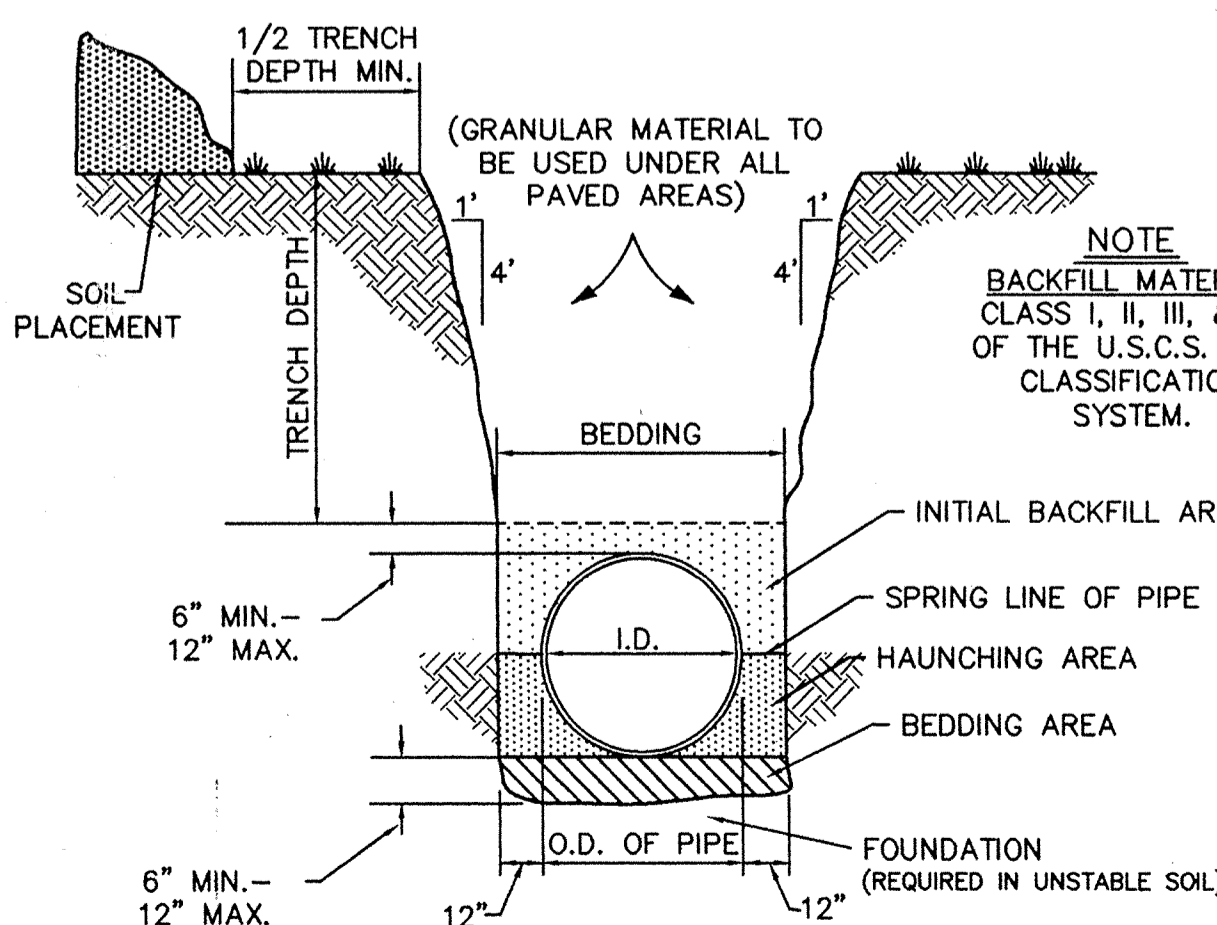
TYPICAL DITCH DETAIL 8 S-15



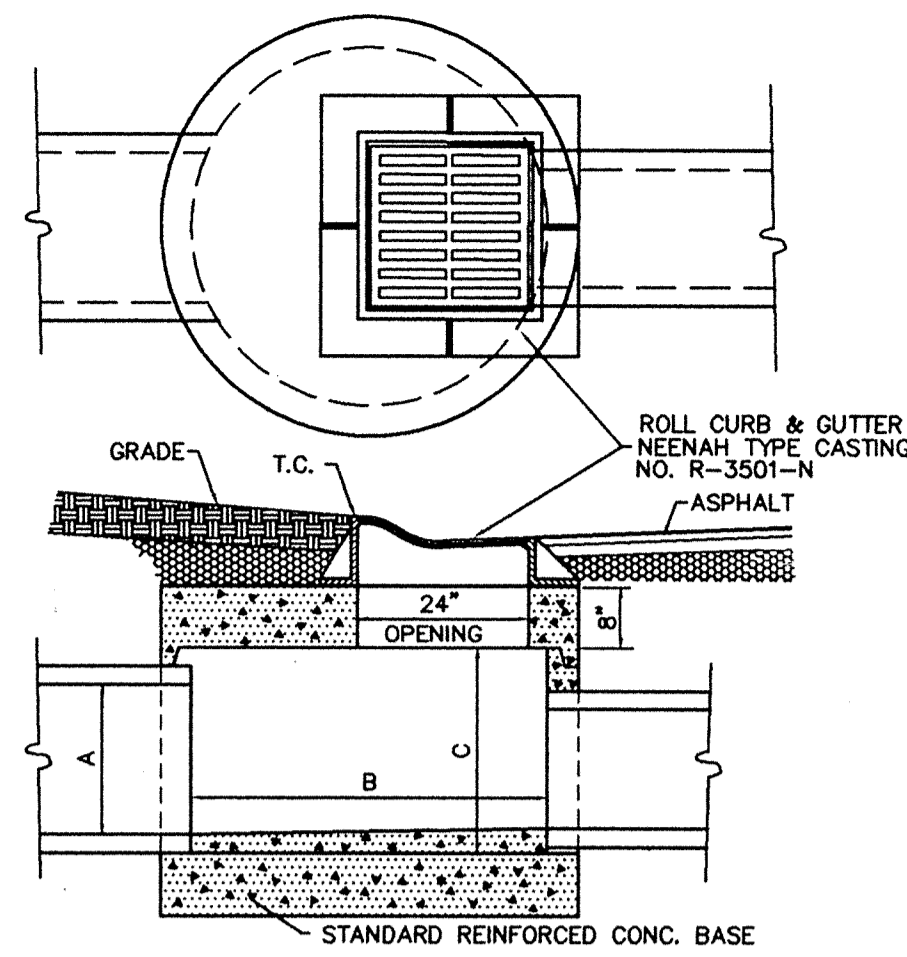
SUBSURFACE DRAIN RISER DETAIL 9 S-15



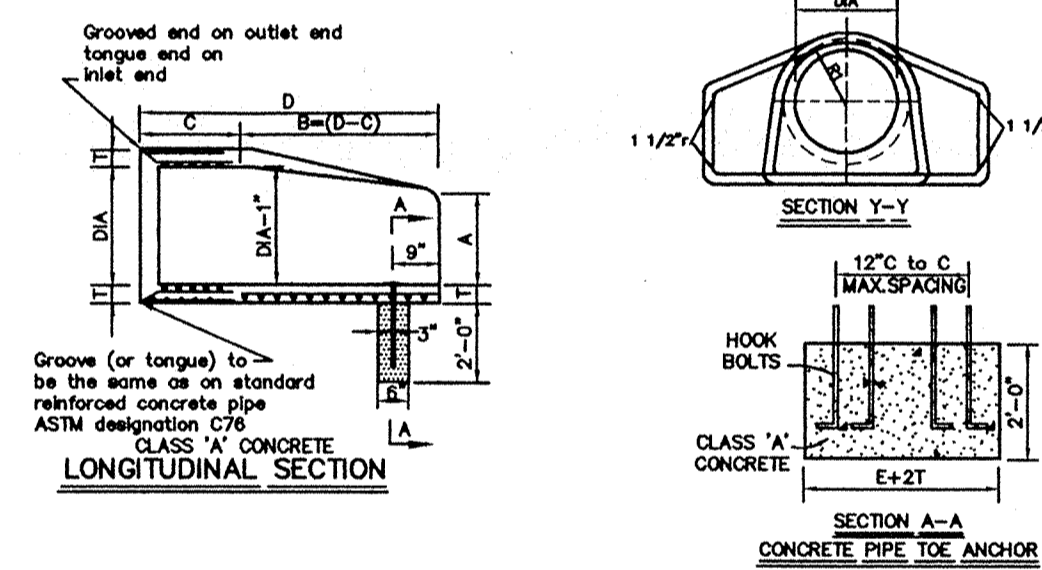
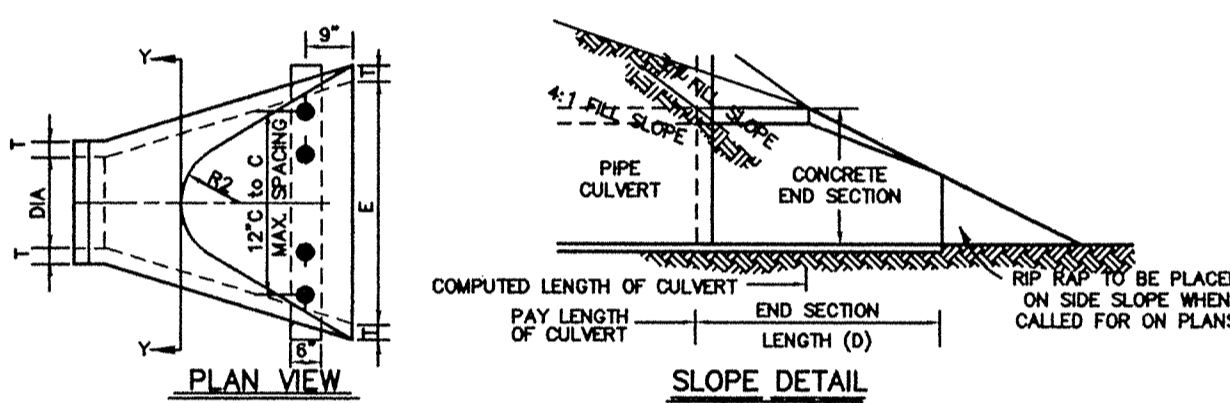
LAKE CROSS SECTION 10 S-15



TRENCH AND BEDDING DETAIL 6 S-15



ROLL CURB INLET DETAIL 4 S-15

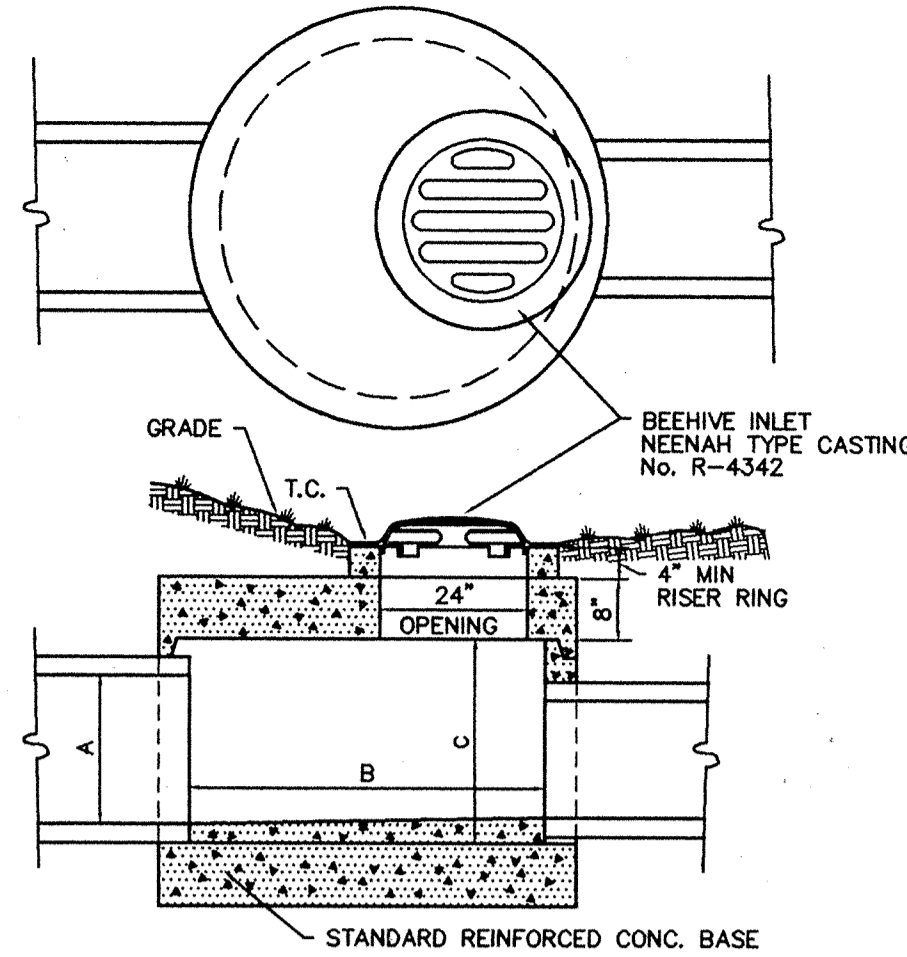


DIMENSIONS OF CONCRETE END SECTIONS FOR ROUND PIPE

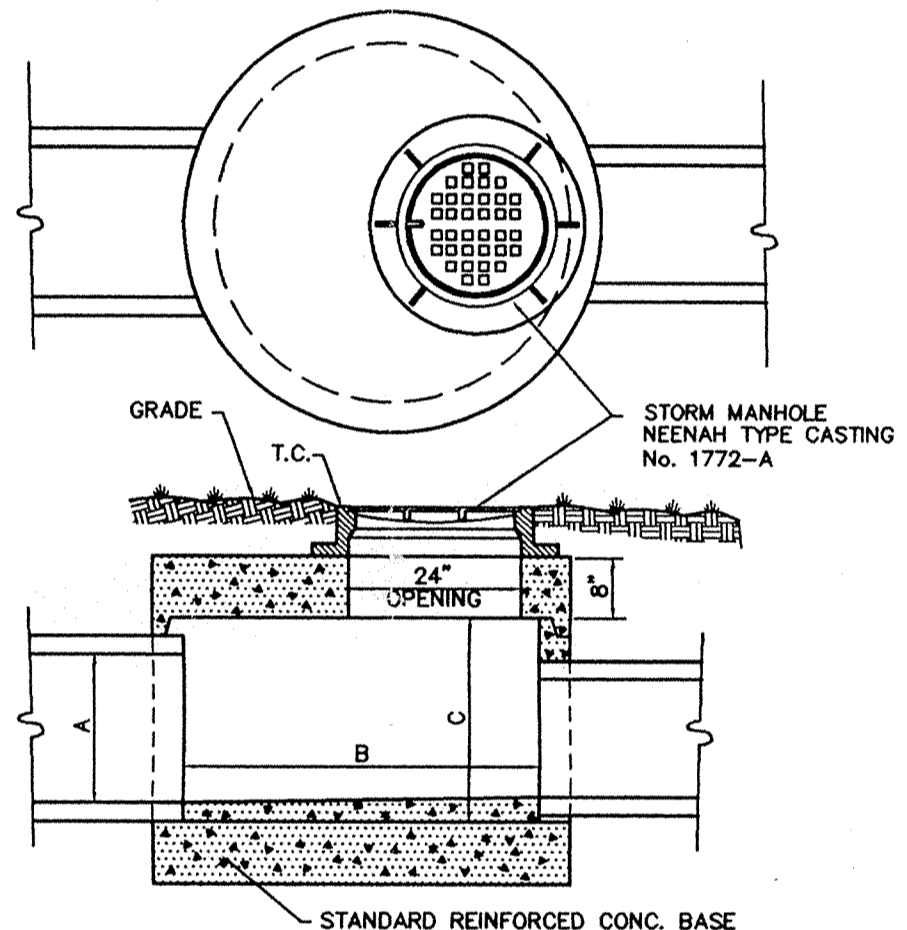
DIA. (MIN)	A*	C*	D*	E*	K	R ₁	R ₂	APPROX. WEIGHT	
12"	2"	5"	4'-3"	6'-2"	2'-0"	1.3	10 1/8"	9"	800
15"	2 1/4"	7"	4'-0"	6'-3"	2'-6"	1.5	12 1/2"	11"	1,100
18"	2 1/2"	11"	4'-1"	6'-2"	3'-0"	1.8	15 1/2"	12"	1,300
21"	2 3/4"	11"	3'-6"	6'-5"	3'-6"	2.1	18 1/8"	13"	1,500
24"	3"	11'-0"	2'-6"	6'-3"	4'-0"	2.3	18 3/16"	14"	1,800
27"	3 1/4"	1'-1"	2'-5"	6'-3"	4'-6"	2.6	18 1/2"	14 1/2"	2,100
30"	3 1/2"	1'-2"	1'-10"	6'-3"	5'-0"	2.9	18 3/16"	15"	2,400
33"	3 3/4"	1'-3"	3'-8"	6'-3"	5'-6"	3.1	18 1/2"	17 1/2"	4,100
36"	4"	1'-5"	3'-1"	6'-3"	6'-0"	3.4	23 3/4"	20"	4,200

* TOLERANCE +/- 1"

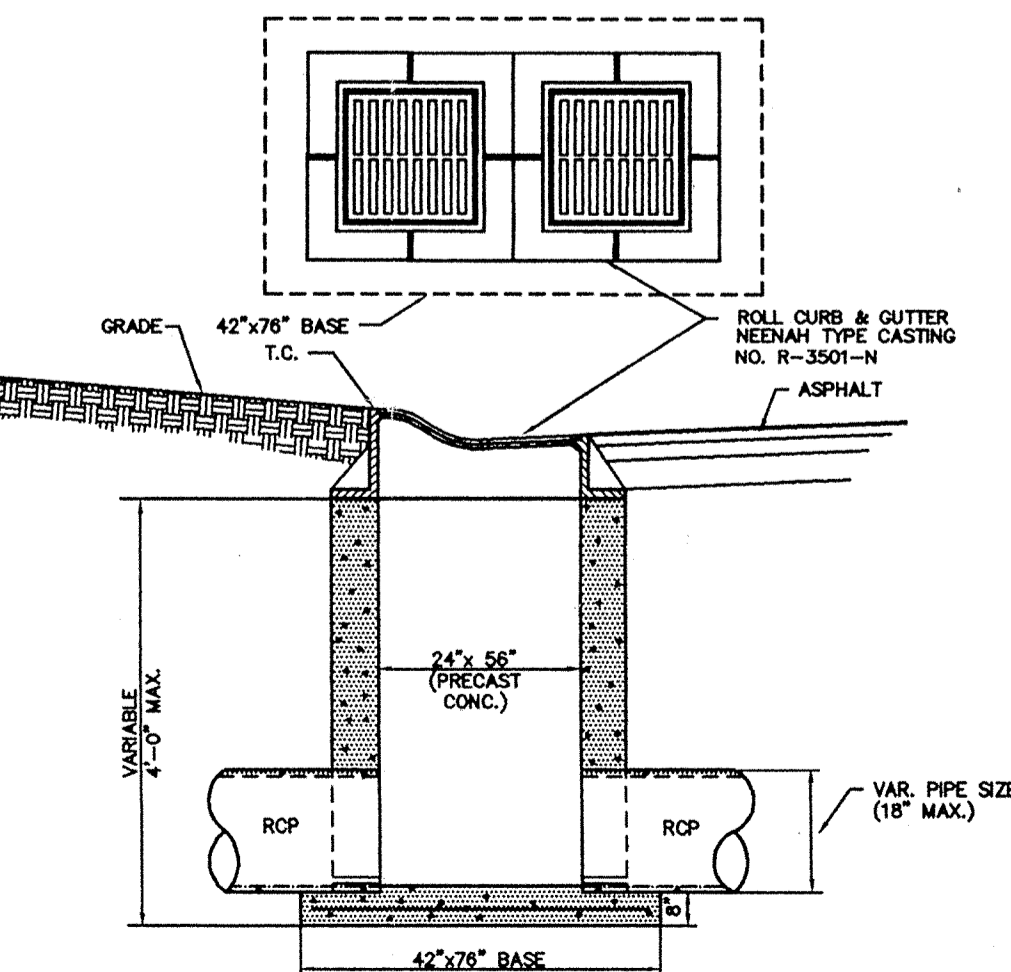
END SECTION DETAIL 5 S-15



BEEHIVE INLET DETAIL 1 S-15



MANHOLE DETAIL 2 S-15



DOUBLE ROLL CURB INLET 3 S-15

DIMENSIONS (INCHES)

A (MAX)	B (L.D.)	C (MIN)
12	36	18
15	36	21
18	48	25
21	48	28
24	48	31
27	60	34
30	60	38
33	60	41
36	60	44
42	60	50

NOTE: FOR STRUCTURES THAT ARE DEEPER THAN 3' STEPS SHALL BE REQUIRED. THE TOP STEP TO BE APPROXIMATELY 18" BELOW THE T.C. ELEVATION & SPACED AT 16" APART THEREAFTER.

DIMENSIONS (INCHES)

A (MAX)	B (L.D.)	C (MIN)
12	36	18
15	36	21
18	48	25
21	48	28
24	48	31
27	60	34
30	60	38
33	60	41
36	60	44
42	60	50

NOTE: FOR STRUCTURES THAT ARE DEEPER THAN 3' STEPS SHALL BE REQUIRED. THE TOP STEP TO BE APPROXIMATELY 18" BELOW THE T.C. ELEVATION & SPACED AT 16" APART THEREAFTER.

Revisions
4/6/95 - DCC - ADDED UNDER SIDEWALK DRAIN

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CARMEL, INDIANA

STORM SEWER DETAILS

Date 4/19/95	Project No. 897.02	Drawn DCL	Approved
Computer Files 8972SMOT	Sheet No. S-15		Of 16