**Drain:** SAIL PLACE DRAIN **Drain #:** 298

**Improvement/Arm:** SAIL PLACE - SECTION 1

**Operator:** JDH **Date:** 4-27-04

**Drain Classification:** Urban/Rural **Year Installed:** 1997

## GIS Drain Input Checklist

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

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

**Drain-Improvement:** SAIL PLACE DRAIN – SECTION 1

| Drain Type: | Size: | Length SURVEYORS REPORT | Length (DB Query) | Length Reconcile | If Applicable Price: | If Applicable Cost: |
|---|---|---|---|---|---|---|
| RCP | 12" | 634' | 634' | Ø | | |
| | 15" | 15' | 15' | Ø | | |
| | 18" | 722' | 722' | Ø | | |
| | 24" | 199' | 199' | Ø | | |
| CMP | 24" | 42' | 42' | Ø | | |
| OPEN DITCH | | 1,290' | | Ø | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| **Sum:** | | 2,902' | 2,902' | Ø | | |

Final Report: _____

Comments:

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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

May 6, 1997

TO: HAMILTON COUNTY DRAINAGE BOARD

RE: Sail Place Drain

Attached is a petition, plans, non-enforcement request, calculations, quantity summary and assessment roll for the Sail Place 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 benefited. The drain will consist of the following:

| | | | | | |
|---|---|---|---|---|---|
| Open Ditch | 1,290 feet | | 21" | RCP | ~~646~~ 62' feet |
| 12" | RCP | 653 feet | 24" | RCP | 263 feet |
| 15" | RCP | 15 feet | | | |
| 18" | RCP | 646 feet | | | |

The total length of the drain will be ~~3,513~~ 2,929 feet.

The subsurface drains (SSD) under curbs are not to be part of the regulated drain. The open ditch is that across Lot 30 and 21 from the outlet Structures 721 and 701. Also included is that open ditch beginning at the South endof the 24" pipe under Fall Road, which is part of the Tamenend Drain, per my report dated May 30, 1986. This open ditch runs to the reservoir along Lots 45 to 51 in Bridgewater and Lots 23-30 and 19-21 in Sail Place. The existing platted easement in Bridgewater will remain as platted.

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I have reviewed the plans and believe the drain will benefit each of the lots 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 $50.00 per lot, $5.00 per acre for roadways, with a $50.00 minimum. With this assessment the total annual assessment for this section will be $~~2000.00~~ $1950.00.

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 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 **Sail Place**, as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for June 1997.

Kenton C. Ward
Hamilton County Surveyor
KCW/no

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PERFORMANCE BOND NO. 77803

Frontier INSURANCE COMPANY

ROCK HILL, NEW YORK 12775-8000
(A Stock Company)

BOARD OF COMMISSIONERS
OF THE COUNTY OF HAMILTON

DATE 2/14/97

KNOW ALL MEN BY THESE PRESENTS:

That The Marina Limited Partnership

(hereinafter called Principal), as Principal, and the FRONTIER INSURANCE COMPANY, a corporation of the State of New York, with its Executive Office in Rock Hill, New York, (hereinafter called Surety), as Surety, are held and firmly bound unto

Hamilton County Board of Commissioners (hereinafter called Obligee), in the full and just sum of Twelve Thousand---------- Dollars ($ 12,000.00 ).

To the payment of which sum, well and truly to be made, the Principal and Surety bind themselves, their and each of their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Signed, sealed and dated this 20th day of February , 19 97 .

WHEREAS, the Principal has entered into a certain written contract, dated the day of

Sail Place Development Sub-Surface Drainage , A.D. 19 , with the Obligee for

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, That, if the Principal shall indemnify the Obligee against any and all loss or damage directly arising by reason of the failure of the Principal to faithfully perform said contract, then this obligation shall be void; otherwise to remain in full force and effect.

This bond is executed and accepted upon the following express conditions precedent:

1. That the Obligee shall faithfully and punctually perform all the terms and conditions of said contract to be performed by the Obligee.

2. That if the Principal shall abandon said contract or be lawfully compelled by reason of a default to cease operations thereunder, the Surety shall have the right at its option to complete said contract or to sublet the completion thereof.

3. That the Obligee shall notify the Surety by registered letter, addressed and mailed to it at its Executive Office, of any breach of said contract within a reasonable time after such breach shall have come to the knowledge of the Obligee, or the Architect, or Engineer.

4. That the Surety shall not be liable for any provisions of the contract or specifications respecting guarantees of efficiency or wearing qualities, or for maintenance or repairs, nor is the Surety obligated to furnish any other bond covering such provisions of the contract or specifications.

5. All suits at law or proceedings in equity to recover on this bond must be instituted within twleve months after the completion of said contract, and in any event within twelve months from the date fixed in said contract for its completion.

The Marina Limited Partnership
PRINCIPAL

WITNESS _____

By _____ (Seal)
General Partner
Title

FRONTIER INSURANCE COMPANY

By Stan Riegel
Stan Riegel
Attorney-in-fact

ATTEST: Jon M Ogle
HAMILTON COUNTY AUDITOR

RELEASE OF MAINTENANCE/PERFORMANCE BOND
RELEASE OF LETTER OF CREDIT
HAMILTON COUNTY BOARD OF COMMISSIONERS
BY: _____
BY: _____
BY: _____

ATTEST: _____
HAMILTON COUNTY AUDITOR

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ATTEST: Jon M Ogle
HAMILTON COUNTY AUDITOR

PERFORMANCE BOND NO. 77802

Frontier INSURANCE COMPANY

ROCK HILL, NEW YORK 12775-8000
(A Stock Company)

BOARD OF COMMISSIONERS
OF THE COUNTY OF HAMILTON

DATE

KNOW ALL MEN BY THESE PRESENTS:

That The Marina Limited Partnership

(hereinafter called Principal), as Principal, and the FRONTIER INSURANCE COMPANY, a corporation of the State of New York, with its Executive Office in Rock Hill, New York, (hereinafter called Surety), as Surety, are held and firmly bound unto

Hamilton County Board of Commissioners (hereinafter called Obligee), in the full and just sum

of Sixty Six Thousand Five Hundred----------Dollars ($66,500.00 ).

To the payment of which sum, well and truly to be made, the Principal and Surety bind themselves, their and each of their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Signed, sealed and dated this 20th day of February , 1997 .

WHEREAS, the Principal has entered into a certain written contract, dated the day of

Sail Place Development Storm Sewers , A.D. 19 , with the Obligee for

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, That, if the Principal shall indemnify the Obligee against any and all loss or damage directly arising by reason of the failure of the Principal to faithfully perform said contract, then this obligation shall be void; otherwise to remain in full force and effect.

This bond is executed and accepted upon the following express conditions precedent:

1. That the Obligee shall faithfully and punctually perform all the terms and conditions of said contract to be performed by the Obligee.

2. That if the Principal shall abandon said contract or be lawfully compelled by reason of a default to cease operations thereunder, the Surety shall have the right at its option to complete said contract or to sublet the completion thereof.

3. That the Obligee shall notify the Surety by registered letter, addressed and mailed to it at its Executive Office, of any breach of said contract within a reasonable time after such breach shall have come to the knowledge of the Obligee, or the Architect, or Engineer.

4. That the Surety shall not be liable for any provisions of the contract or specifications respecting guarantees of efficiency or wearing qualities, or for maintenance or repairs, nor is the Surety obligated to furnish any other bond covering such provisions of the contract or specifications.

5. All suits at law or proceedings in equity to recover on this bond must be instituted within twleve months after the completion of said contract, and in any event within twelve months from the date fixed in said contract for its completion.

The Marina Limited Partnership
PRINCIPAL

By [signature] (Seal)
General Partner Title

FRONTIER INSURANCE COMPANY

By Stan Riegel
Stan Riegel Attorney-in-fact

WITNESS

RELEASE OF MAINTENANCE/PERFORMANCE BOND
RELEASE OF LETTER OF CREDIT
HAMILTON COUNTY BOARD OF COMMISSIONERS
BY: [signature]
BY: [signature]
BY: Sharon R. Clark

ATTEST: [signature]
HAMILTON COUNTY AUDITOR

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PERFORMANCE BOND NO. 77804

# Frontier INSURANCE COMPANY

ROCK HILL, NEW YORK 12775-8000
(A Stock Company)

KNOW ALL MEN BY THESE PRESENTS:

That The Marina Limited Partnership,

(hereinafter called Principal), as Principal, and the FRONTIER INSURANCE COMPANY, a corporation of the State of New York, with its Executive Office in Rock Hill, New York, (hereinafter called Surety), as Surety, are held and firmly bound unto

Hamilton County Board of Commissioners (hereinafter called Obligee), in the full and just sum of Eleven Thousand Five Hundred---------- Dollars ($ 11,500.00 ).

To the payment of which sum, well and truly to be made, the Principal and Surety bind themselves, their and each of their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Signed, sealed and dated this 20th day of February , 19 97 .

WHEREAS, the Principal has entered into a certain written contract, dated the day of

Sail Place Development Erosion Control , A.D. 19 , with the Obligee for

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, That, if the Principal shall indemnify the Obligee against any and all loss or damage directly arising by reason of the failure of the Principal to faithfully perform said contract, then this obligation shall be void; otherwise to remain in full force and effect.

This bond is executed and accepted upon the following express conditions precedent:

1. That the Obligee shall faithfully and punctually perform all the terms and conditions of said contract to be performed by the Obligee.

2. That if the Principal shall abandon said contract or be lawfully compelled by reason of a default to cease operations thereunder, the Surety shall have the right at its option to complete said contract or to sublet the completion thereof.

3. That the Obligee shall notify the Surety by registered letter, addressed and mailed to it at its Executive Office, of any breach of said contract within a reasonable time after such breach shall have come to the knowledge of the Obligee, or the Architect, or Engineer.

4. That the Surety shall not be liable for any provisions of the contract or specifications respecting guarantees of efficiency or wearing qualities, or for maintenance or repairs, nor is the Surety obligated to furnish any other bond covering such provisions of the contract or specifications.

5. All suits at law or proceedings in equity to recover on this bond must be instituted within twleve months after the completion of said contract, and in any event within twelve months from the date fixed in said contract for its completion.

The Marina Limited Partnership
PRINCIPAL

WITNESS _____

By _____ (Seal)
General Partner
Title

FRONTIER INSURANCE COMPANY

WITNESS _____

By _____
Stan Riegel
Attorney-in-fact

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Frontier INSURANCE COMPANY

ROCK HILL, NEW YORK 12775-8000

(A Stock Company)

No. 64722 - A

# POWER OF ATTORNEY

**Know All Men By These Presents:** That FRONTIER INSURANCE COMPANY, a New York Corporation, having its principal office in Rock Hill, New York, pursuant to the following resolution, adopted by the Board of Directors of the Corporation on the 4th day of November, 1985:

"RESOLVED, that the Chairman of the Board, the President, or any Vice President be, and hereby is, authorized to appoint Attorneys-in-Fact to represent and act for and on behalf of the Company to execute bonds, undertakings, recognizances and other contracts of indemnity and writings obligatory in the nature thereof, and to attach thereto the corporate seal of the Company, in the transaction of its surety business;

"RESOLVED, that the signatures and attestations of such officers and the seal of the Company may be affixed to any such Power of Attorney or to any certificate relating thereto by facsimile, and any such Power of Attorney or certificate bearing such facsimile signatures or facsimile seal shall be valid and binding upon the Company when so affixed with respect to any bond, undertaking, recognizance or other contract of indemnity or writing obligatory in the nature thereof;

"RESOLVED, that any such Attorney-in-Fact delivering a secretarial certification that the foregoing resolutions still be in effect may insert in such certification the date thereof, said date to be not later than the date of delivery thereof by such Attorney-in-Fact."

This Power of Attorney is signed and sealed in facsimile under and by the authority of the above Resolution.

DOES HEREBY MAKE, CONSTITUTE AND APPOINT: STAN RIEGEL

of Carmel, in the State of Indiana,
its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred in its name, place and stead to sign, execute, acknowledge and deliver in its behalf, and as its act and deed, without power of redelegation, as follows:

Bonds guaranteeing the fidelity of persons holding places of public or private trust; guaranteeing the performance of contracts other than insurance policies; and executing or guaranteeing bonds and undertakings required or permitted in all actions or proceedings or by law allowed; IN AN AMOUNT NOT TO EXCEED ONE MILLION FIVE HUNDRED THOUSAND ($1,500,000.00) DOLLARS; and to bind FRONTIER INSURANCE COMPANY thereby as fully and to the same extent as if such bond or undertaking was signed by the duly authorized officers of FRONTIER INSURANCE COMPANY, and all the acts of said Attorney(s)-in-Fact pursuant to the authority herein given are hereby ratified and confirmed.

**In Witness Whereof,** FRONTIER INSURANCE COMPANY of Rock Hill, New York, has caused this Power of Attorney to be signed by its President and its Corporate seal to be affixed this 1st day of February, 19 95.

FRONTIER INSURANCE COMPANY

FRONTIER INSURANCE COMPANY CORPORATE SEAL 1982 NEW YORK

BY: _____
WALTER A. RHULEN, President

State of New York
County of Sullivan ss.:

On this 1st day of February, 19 95, before the subscriber, a Notary Public of the State of New York in and for the County of Sullivan, duly commissioned and qualified, came WALTER A. RHULEN of FRONTIER INSURANCE COMPANY to me personally known to be the individual and officer described herein, and who executed the preceding instrument, and acknowledged the execution of the same, and being by me duly sworn, deposed and said, that he is the officer of the Company aforesaid, and that the seal affixed to the preceding instrument is the Corporate Seal of the Company, and the Corporate Seal and signature as an officer were duly affixed and subscribed to the said instrument by the authority and direction of the Corporation, and that the resolution of the Company, referred to in the preceding instrument, is now in force.

**In Testimony Whereof,** I have hereunto set my hand, and affixed my official seal at Rock Hill, New York, the day and year above written.

CHRISTINE I. LANE NOTARY PUBLIC STATE OF NEW YORK

_____
CHRISTINE I. LANE
Notary Public State of New York
Sullivan County Clerk's No. 1996
Commission Expires May 2, 1996

# CERTIFICATION

I, JOSEPH P. LOUGHLIN, Secretary of FRONTIER INSURANCE COMPANY of Rock Hill, New York, do hereby certify that the foregoing Resolution adopted by the Board of Directors of this Corporation and the Powers of Attorney issued pursuant thereto, are true and correct, and that both the Resolution and the Powers of Attorney are in full force and effect.

**In Witness Whereof,** I have hereunto set my hand and affixed the facsimile seal of the corporation this _____ day of _____, 19

FRONTIER INSURANCE COMPANY CORPORATE SEAL 1982 NEW YORK

_____
JOSEPH P. LOUGHLIN, Secretary

FM 19-5002-A (4/94)

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FILED

JAN 15 1999

OFFICE OF HAMILTON COUNTY SURVEYOR

# CERTIFICATE OF COMPLETION AND COMPLIANCE

TO: HAMILTON COUNTY SURVEYOR

RE: Sail Place Subdivision
Fall Creek Road at Brooks School Road

I hereby certify that:

1.) I am a Registered Land Surveyor 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, and

4.) To the best of my knowledge, information and belief, the Drainage Facilities within the subdivision has been installed and completed in conformity with all plans and specifications.

Signature: Joseph A. Sharp Date: 1.14.99

Type or Printed Name: Joseph A. Sharp

Business Address: 7172 Graham Road

Indianapolis, IN 46250

Telephone: 317-842-6777

INDIANA REGISTERED NUMBER

15179

JOSEPH A. SHARP REGISTERED No. 15179 STATE OF INDIANA PROFESSIONAL ENGINEER

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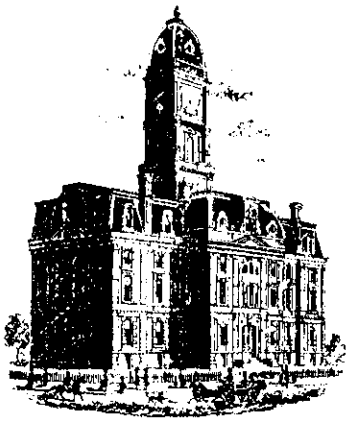

SURVEYOR'S OFFICE

# Hamilton County

Kenton C. Ward, Surveyor
Phone (317) 776-8495
Fax (317) 776-9628

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

To: Hamilton County Drainage Board

January 22, 1999

**Re: Sail Place Drain: Sec. 1 Arm**

Attached are as-builts, certificate of completion & compliance, and other information for Sail Place Sec. 1. 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 May 5, 1997. The changes are as follows:

| Structure: | T.C.: | I.E.: | Pipe: | Length: | Original Plans: | Difference: |
|---|---|---|---|---|---|---|
| 701 | | 790.99 | | | | |
| 701a | 797.12 | 791.72 | 24 | 27 | 27 | -1 |
| 701a | 797.12 | 791.77 | | | | |
| 702 | 805.42 | 796.42 | 24 | 152 | 153 | -1 |
| 702 | 805.42 | 796.42 | | | | |
| 703 | 803.06 | 798.41 | 18 | 82 | 62 - 21" RCP | 1 |
| 703 | 803.06 | 790.99 | | | | |
| 704 | 812.02 | 803.12 | 18 | 162 | 168 | -6 |
| 704 | 812.02 | 803.22 | | | | |
| 705 | 814.58 | 807.18 | 18 | 237 | 238 | -1 |
| 705 | 814.58 | 807.28 | | | | |
| 706 | 815.99 | 808.34 | 18 | 49 | 44 | 5 |
| 706 | 815.99 | 808.34 | | | | |
| 708 | | 810.34 | 24 cmp | 26 | 30 | -4 |
| 702 | 805.42 | 796.42 | | | | |
| 720 | 800.55 | 796.85 | 12 | 25 | | |
| 720 | 800.55 | 796.85 | | | | |
| 719 | 800.42 | 797.32 | 12 | 30 | | |
| 705 | 814.58 | 807.38 | | | | |
| 730 | 814.65 | 808.45 | 12 | 22 | | |

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| | | | | | | |
|---|---|---|---|---|---|---|
| 703 | 803.06 | 799.24 | | | | |
| 718 | 803.59 | 799.24 | 12 | 29 | 28 | 1 |
| 718 | 803.59 | 799.24 | | | | |
| 717 | 803.74 | 799.24 | 12 | 22 | | |
| 723 | | 785.48 | | | | |
| 724 | 795.87 | 788.22 | 18 | 136 | 146 | -10 |
| 724 | 795.87 | 788.22 | | | | |
| 727 | 796.67 | 789.27 | 12 | 49 | 48 | 1 |
| 727 | 796.67 | 789.47 | | | | |
| 728 | 798.57 | 792.27 | 12 | 167 | 168 | -1 |
| 728 | 798.57 | 792.32 | | | | |
| 729 | 796.95 | 794.2 | 12 | 67 | 65 | 2 |
| 724 | 795.87 | 788.22 | | | | |
| 725 | 794.94 | 788.27 | 15 | 15 | | |
| 725 | 794.94 | 788.64 | | | | |
| 726 | 796.51 | 790 | 12 | 65 | 63 | 2 |
| 711 | 816.02 | 813.14 | | | | |
| 710 | 811.66 | 807.66 | 24" cmp | 16 | 29 | -13 |
| | | | 24" rcp | 20 | | |
| 704 | 812.02 | 803.22 | | | | |
| 710 | 811.66 | 804.21 | 18 | 56 | 51 | -5 |
| 710 | 805.74 | 805.74 | | | | |
| 713 | 811.69 | 805.74 | 12 | 21 | 20 | 1 |
| 713 | 811.69 | 805.74 | | | | |
| 714 | 811.53 | 806.03 | 12 | 18 | | |
| 721 | | 795.45 | | | | |
| 722 | 803.42 | 799.22 | 12 | 119 | 124 | -5 |
| | | | | | | |

**RCP Pipe Totals:**

| | |
|---|---|
| 12 | 634 |
| 15 | 15 |
| 18 | 722 |
| 24 | 199 |
| | |
| | |
| | |
| | |

| | |
|---|---|
| | |
| | |
| | |
| **Other Drain:** | |
| 24" cmp | 42 |
| open ditch | 1,290 |
| | |
| | |

The length of the drain due to the changes described above is now **2,902 feet**.

The non-enforcement was approved by the Board at its meeting on June 23, 1997 and recorded under instrument #9709737332.

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The bond or letter of credit from Frontier Insurance Co., number 77802 for Storm Sewers, 77803 for ssd, & 77804 for erosion control ; in the amount of $66,500.00, $12,000.00 & $11,500.00; was released September 14, 1998 and October 12, 1998.

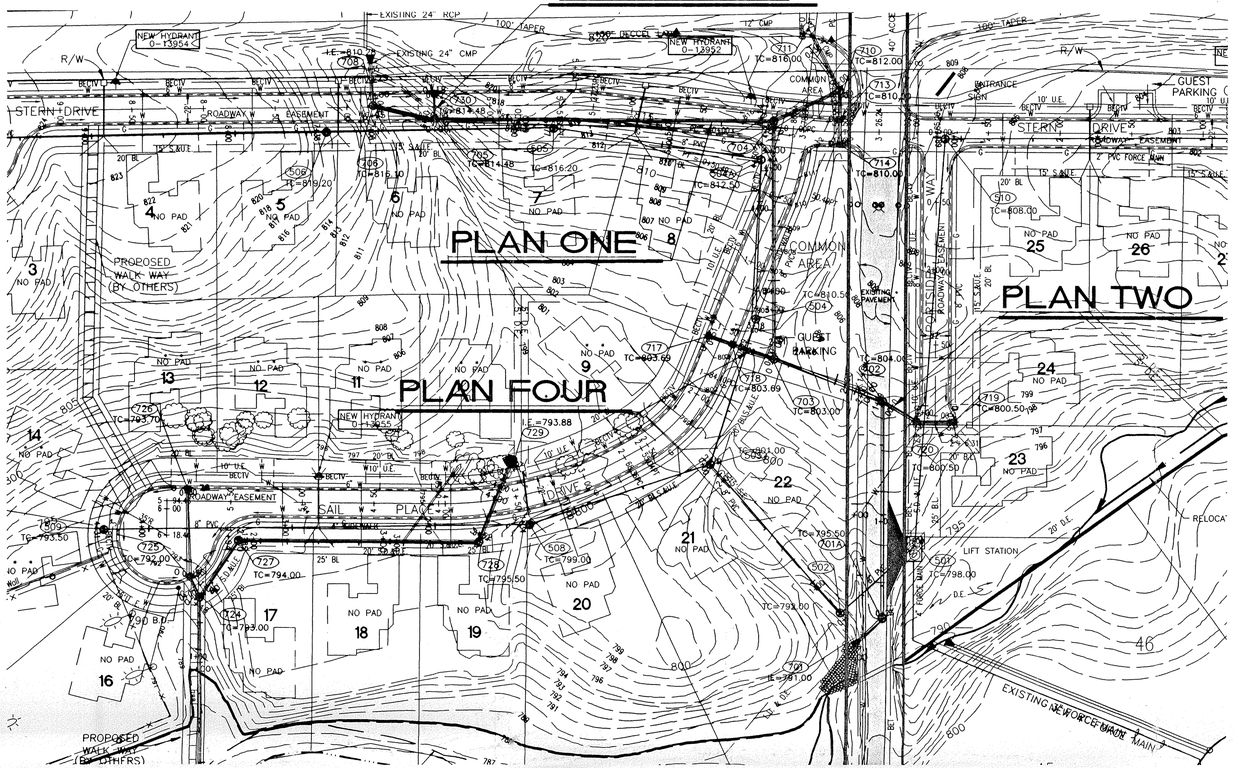
I recommend the Board approve the drains construction as complete and acceptable.

Sincerely,

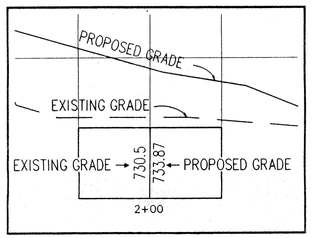
Kenton C. Ward,
Hamilton County Surveyor

KCW/slm

# PLAN THREE




## LEGEND




GRANULAR BACKFILL

DON'T DIG BLIND — "HOLEY MOLEY" M.D.

1-800-382-5544 CALL TOLL FREE

1-800-428-5200 FOR CALLS OUTSIDE OF INDIANA

CAUTION

LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

**STORM SEWER PLAN AND PROFILE NOTES:**

1. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29 CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
2. IN ADDITION, EXCAVATIONS EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
3. ALL STRUCTURES SHALL HAVE CASTINGS, JOINTS, LIFT RINGS, STEPS AND PIPE CONNECTIONS WELL GROUTED, TROWELED SMOOTH AND BRUSH FINISHED.
4. ALL STRUCTURES (IE: MANHOLES, INLETS) SHALL HAVE POURED FLOW LINES AND BENCH WALLS. THE FLOW LINES AND BENCHWALLS SHALL BE TROWELED SMOOTH AND BRUSH FINISHED.
5. FIELD ADJUSTMENTS OF TOP OF CASTING (T.C.) OF STRUCTURES MAY BE REQUIRED TO MEET FIELD CONDITIONS. ADJUSTMENTS EXCEEDING FIVE TENTHS (0.5) OF A FOOT MUST BE APPROVED BY THE ENGINEER TO DETERMINE THE INTEGRITY OF THE STRUCTURE. AT NO COST TO THE OWNER.
6. STORM STRUCTURES WITH INLET CASTINGS SHALL BE SET TO MAINTAIN A POSITIVE DRAINAGE FLOW INTO THE STRUCTURE.
7. STORM PIPE INVERTS AT OUTLET STRUCTURES (IE: END SECTIONS), AND PIPE LENGTHS MAY REQUIRE FIELD ADJUSTMENTS TO MEET ACTUAL FIELD CONDITIONS.
8. FULL DEPTH GRANULAR BACKFILL SHALL BE REQUIRED UNDER AND WITHIN (5) FEET OF ALL PAVED AREAS, INCLUDING CURBS, EDGE OF PAVEMENT, AND SIDEWALKS.
9. SEE SECTION 02720 FOR STORM SEWERAGE SPECIFICATIONS
   A) IN THE PROJECT MANUAL OR B) ON SHEET C90?
10. THE CONNECTION OF THE PROPOSED STORM SEWER TO AN EXISITNG BRICK STRUCTURE MUST BE DONE ACCORDING TO THE FOLLOWING CONDITIONS:
    A.) REHABILITATE AND COAT THE ENTIRE INTERIOR OF THE MANHOLE WITH NON-SHRINK GROUT.
    B.) AT THE POINT OF CONNECTION OF THE PROPOSED PIPE, PLACE A THREE FOOT (3') DIAMETER BY A MINIMUM SIX INCH (6") THICK, 4,000 PSI CONCRETE COLLAR WITH 4x4x10 GUAGE WIRE MESH OVER THE EXTERIOR OF THE MANHOLE.
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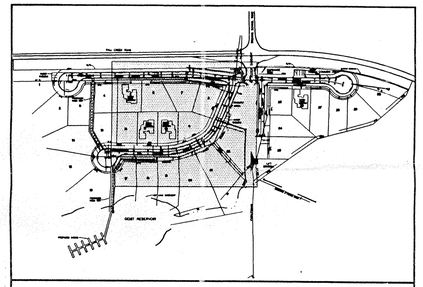

## KEY MAP

000.00 DENOTES AS-BUILT INFORMATION.

HAMILTON COUNTY INDIANA 1823

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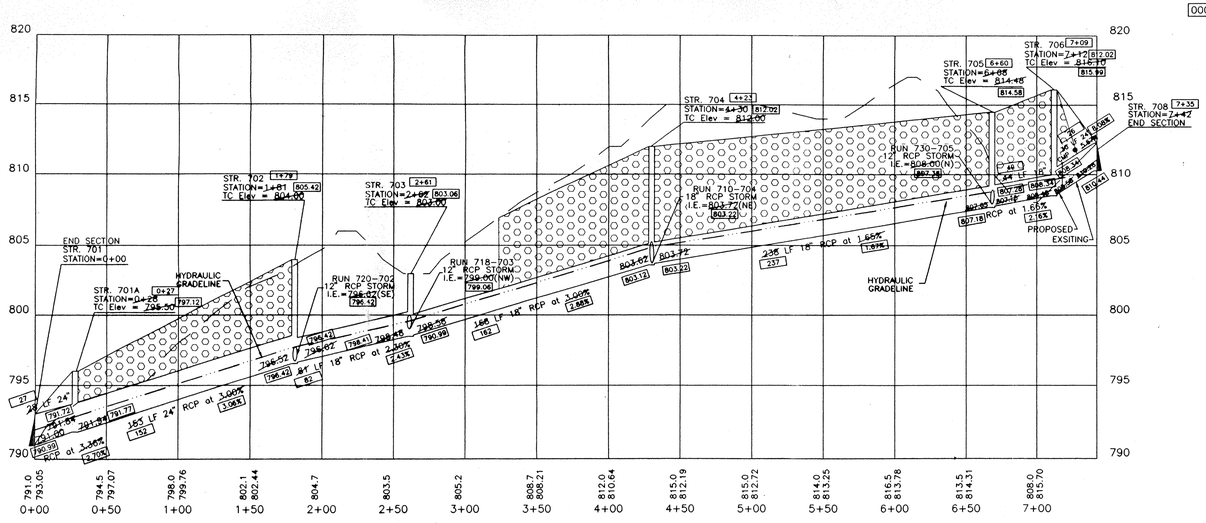


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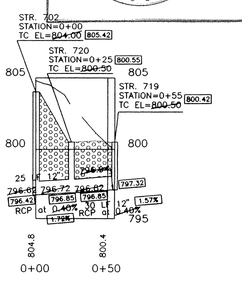


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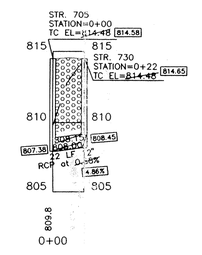


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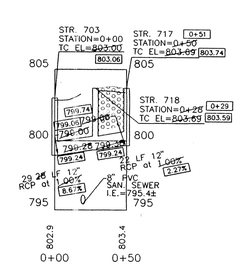


## PROFILE FOUR

RECORD DRAWING

Joseph A. Shaye 3/12/98

BRUCE HASEN REGISTERED No. 920299 STATE OF INDIANA PROFESSIONAL ENGINEER

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| | 11-12-97 AS-BUILT INFORMATION | EFG | |
| | 03-11-98 STORM "AS BUILTS" | PVW | |

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- ARCHITECTURE
- LAND PLANNING

QUALITY ASSURANCE:

DATE :

DATE: 11-01-96

SCALE: 1"=50'

DRAWING TITLE: STORM SEWER PLAN & PROFILE

| DWG. TYPE | FILE NUMBER | SHEET: |
|---|---|---|
| | | C701 |
| JOB NUMBER | | |
| 30108-20300 | | |

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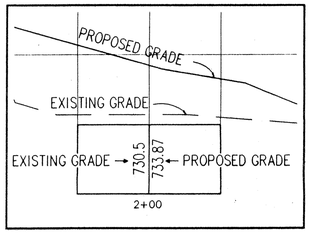
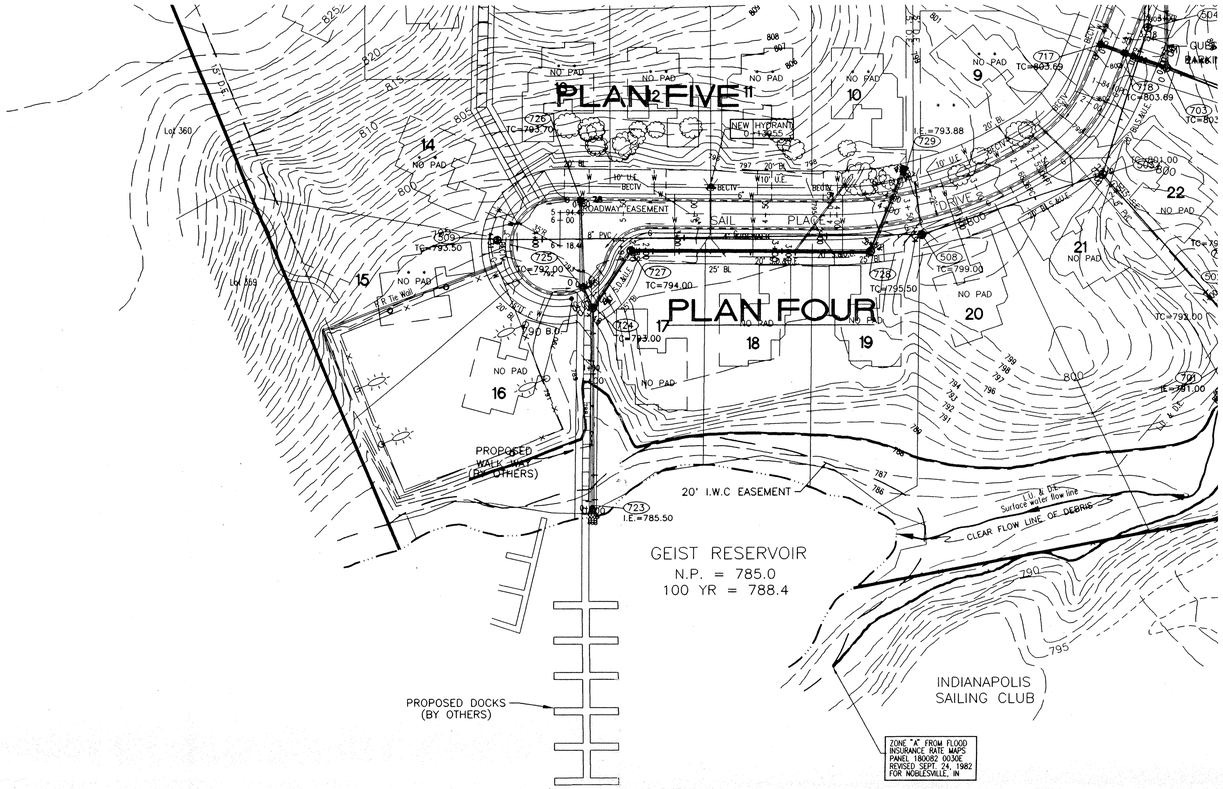



GRANULAR BACKFILL




### STORM SEWER PLAN AND PROFILE NOTES

1. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29 CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
2. IN ADDITION, EXCAVATIONS EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
3. ALL STRUCTURES SHALL HAVE CASTINGS, JOINTS, LIFT RINGS, STEPS AND PIPE CONNECTIONS WELL GROUTED, TROWELED SMOOTH AND BRUSH FINISHED.
4. ALL STRUCTURES (IE: MANHOLES, INLETS) SHALL HAVE POURED FLOW LINES AND BENCH WALLS. THE FLOW LINES AND BENCHWALLS SHALL BE TROWELED SMOOTH AND BRUSH FINISHED.
5. FIELD ADJUSTMENTS OF TOP OF CASTING (T.C.) OF STRUCTURES MAY BE REQUIRED TO MEET FIELD CONDITIONS. ADJUSTMENTS EXCEEDING FIVE TENTHS (0.5) OF A FOOT MUST BE APPROVED BY THE ENGINEER TO DETERMINE THE INTEGRITY OF THE STRUCTURE. AT NO COST TO THE OWNER.
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9. SEE SECTION 02720 FOR STORM SEWERAGE SPECIFICATIONS
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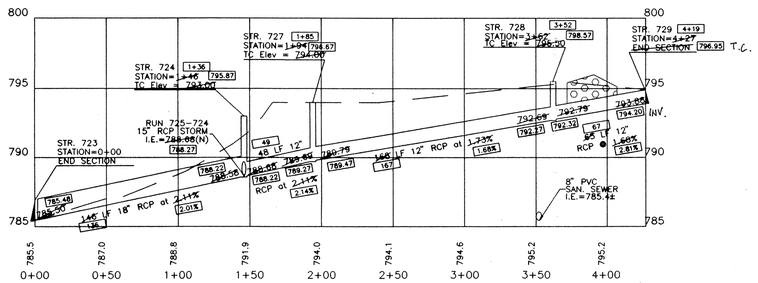


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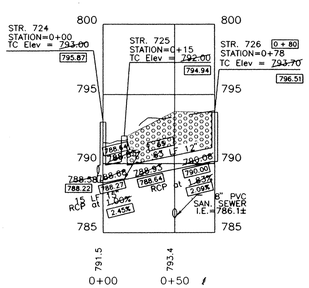


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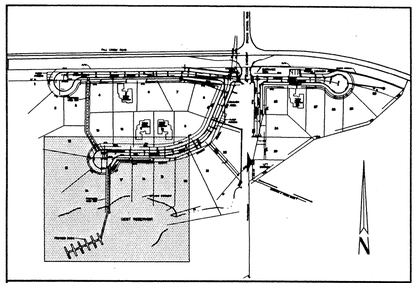


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BRUCE HAGEN REGISTERED No. 920299 STATE OF INDIANA PROFESSIONAL ENGINEER

**RECORD DRAWING**
Joseph A. Shay 3/12/98

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| DATE : | 01/22/97 HAM. COUNTY REVISIONS | EFG | | |
| | 03/13/97 HAM. CO. SURV. REVISIONS | EFG | | |
| | 11/12/97 "AS-BUILT" INFORMATION | EFG | | |

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DATE: 11-01-96
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| DWG. TYPE | FILE NUMBER | SHEET: |
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| | | C702 |
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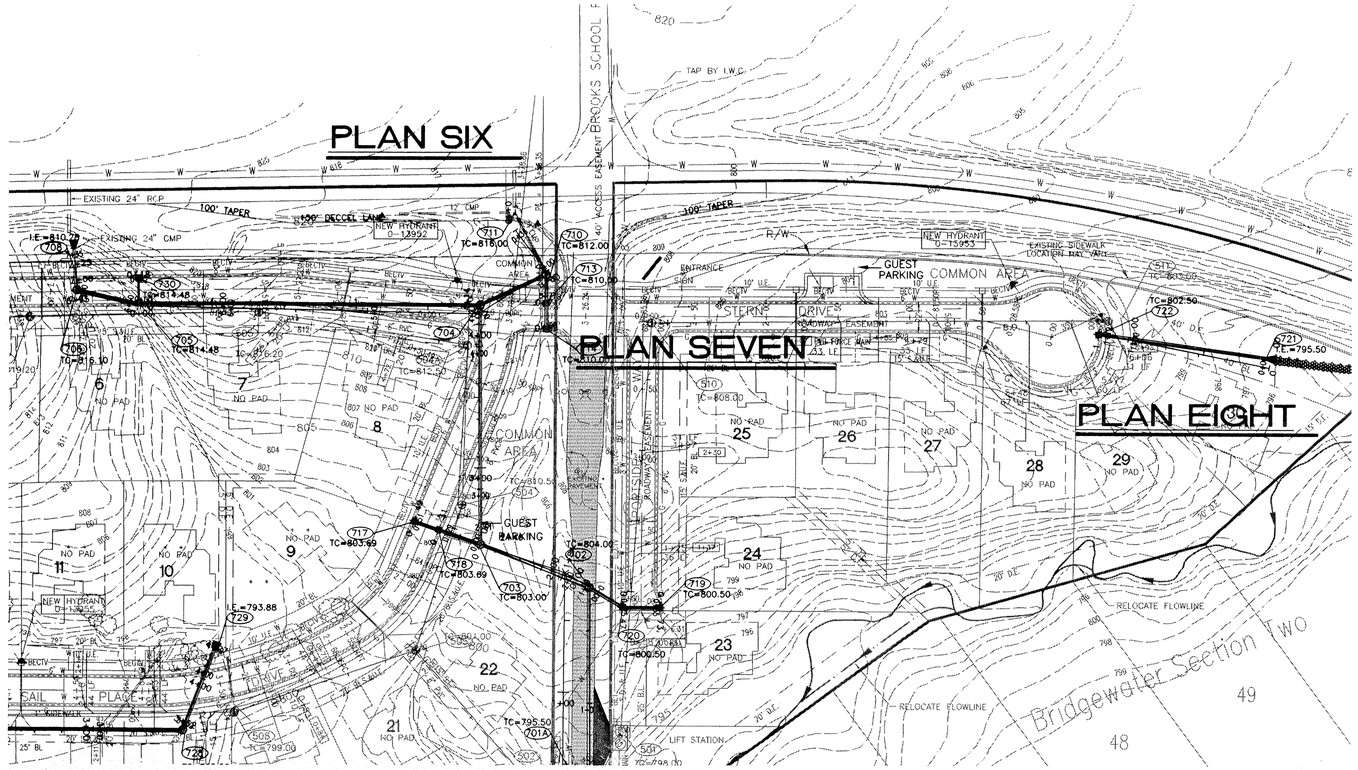
# PLAN SIX

# PLAN SEVEN

# PLAN EIGHT

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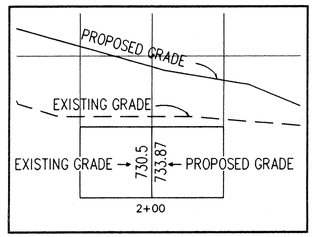


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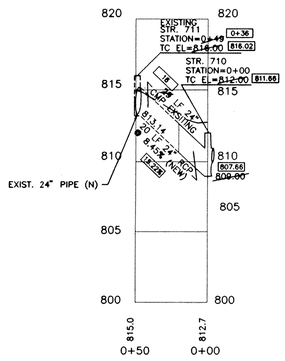


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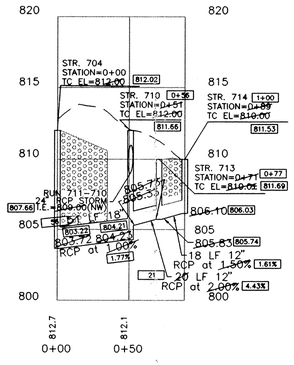


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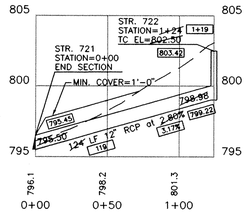


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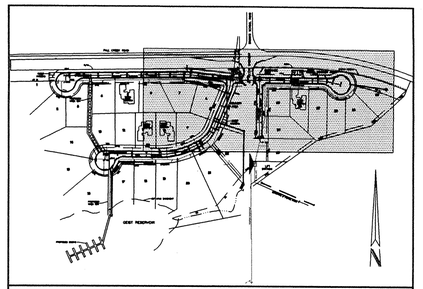


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