

Drain: SPRINGS OF CAMBRIDGE DRAIN Drain #: 262
Improvement/Arm: SPRINGS OF CAMBRIDGE S.C.C. 7
Operator: SLM / JKH Date: 7-2-04
Drain Classification: Urban/Rural Year Installed: 1998

GIS Drain Input Checklist

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

Gasb 34 Footages for Historical Cost
Drain Length Log

Drain-Improvement: SPRINGS OF CAMBRIDGE DRAIN - SPRINGS OF CAMBRIDGE - SECTION 7

Drain Type:	Size:	Length <i>SURVEYED</i> REMOVED	Length (DB Query)	Length Reconcile	If Applicable	
					Price:	Cost:
SSD	6"	2832'	2832'	Ø		
RCP	12"	197'	197'	Ø		
	15"	251'	251'	Ø		
	18"	100'	100'	Ø		
	24"	175'	175'	Ø		
	30"	142'	142'	Ø		

Sum: 3,697' 3,697' Ø

Final Report: _____

Comments:



Kenton C. Ward, Surveyor

Phone (317) 776-8495

Fax (317) 776-9628

Suite 146

One Hamilton County Square

Noblesville, Indiana 46060-2230

July 13, 1998

TO: Hamilton County Drainage Board

RE: Springs of Cambridge Drain-Section 7 Arm

Attached is a petition, non-enforcement request, plans, calculations, quantity summary and assessment roll for the Springs of Cambridge Drain-Section 7 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	2832 ft	18" RCP	98 ft
12" RCP	196 ft	24" RCP	174 ft
15" RCP	266 ft	30" RCP	163 ft

The total length of the drain will be 3729 feet.

Bee Camp Creek was included as regulated drain with Sections 3 and 4 of Springs of Cambridge. This is per my report dated April 18, 1996, which can be found in Drainage Board Minutes Book 4 Page 249. This is the open ditch located along the North side of Lots 300 to 310.

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 A WAY, are to be maintained as regulated drain. Laterals for individual lots will not be considered 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 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 for this drain/this section will be \$ 630⁰⁰.

I believe this proposed drain meets the requirements for Urban Drain Classification as set out in IC 36-9-27-67-69. Therefore, this drain shall be designed 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 Springs of Cambridge as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for 24 August 1998.

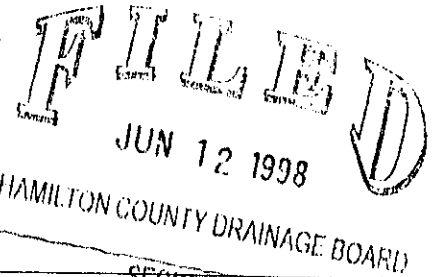
Kenton C. Ward
Hamilton County Surveyor
KCW/no



PERFORMANCE BOND NO. 105649

INSURANCE COMPANY

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



KNOW ALL MEN BY THESE PRESENTS:

That The Marina I, L.P.

(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 Oblige), in the full and just sum of Fifteen thousand five hundred-----Dollars (\$ 15,500.).

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 9th day of June, 19 98 .

WHEREAS, the Principal has entered into a certain written contract, dated the _____ day of _____, A.D. 19 _____, with the Oblige for

Erosion Control
Springs of Cambridge Section 7

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, That, if the Principal shall indemnify the Oblige 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 Oblige shall faithfully and punctually perform all the terms and conditions of said contract to be performed by the Oblige.
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 Oblige 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 Oblige, 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 twelve 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 I, L.P.

PRINCIPAL

WITNESS _____

By [Signature] (Seal)

Vice-President, General Partner
FRONTIER INSURANCE COMPANY

WITNESS [Signature]

By [Signature]
Stanley Riegel Attorney-in-fact

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:

STANLEY RIEGEL MICHELLE A. DAVIS

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 THREE MILLION FIVE HUNDRED THOUSAND (\$3,500,000.00) 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

State of New York
 County of Sullivan

ss.:



BY: _____

Walter A. Rhulen
WALTER A. RHULEN, President

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

CHRISTINE I. LANE
 Notary Public State of New York
 Sullivan County Clerk's No. 1996
 Commission Expires May 2, 1998

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 **9th** day of **June**, 19 **98**.



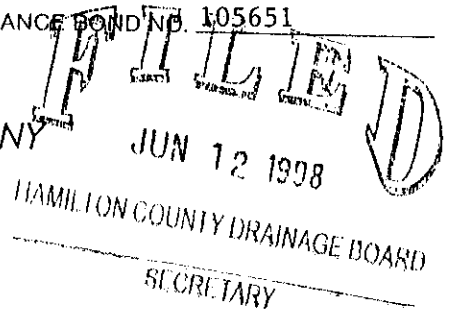
Joseph P. Loughlin
JOSEPH P. LOUGHLIN, Secretary



INSURANCE COMPANY

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

PERFORMANCE BOND NO. 105651



KNOW ALL MEN BY THESE PRESENTS:

That The Marina I, L.P.

(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 Forty-six thousand five hundred seventy-----Dollars (\$ 46,570.).

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 9th day of June, 19 98 .

WHEREAS, the Principal has entered into a certain written contract, dated the _____ day of _____, A.D. 19 _____, with the Obligee for

Storm Sewer
Springs of Cambridge Section 7

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 twelve 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 I, L.P.

PRINCIPAL

WITNESS _____

By [Signature] (Seal)
Vice-President, General Partner
FRONTIER INSURANCE COMPANY

WITNESS [Signature]

By [Signature]
Stanley Riegel Attorney-in-fact



PERFORMANCE BOND NO. 105650

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

FILED
JUN 12 1998

HAMILTON COUNTY DRAINAGE BOARD

KNOW ALL MEN BY THESE PRESENTS:

That The Marina I, L.P.

(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 Oblige), in the full and just sum of Sixteen thousand three hundred twenty----- Dollars (\$ 16,320.).

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 9th day of June, 19 98 .

WHEREAS, the Principal has entered into a certain written contract, dated the _____ day of _____, A.D. 19 _____, with the Oblige for

Sub-surface Drainage
Springs of Cambridge Section 7

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, That, if the Principal shall indemnify the Oblige 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 Oblige shall faithfully and punctually perform all the terms and conditions of said contract to be performed by the Oblige.
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 Oblige 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 Oblige, 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 twelve 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 I, L.P.

PRINCIPAL

WITNESS _____

By *D. Kalabin* (Seal)
Vice-President, General Partner
FRONTIER INSURANCE COMPANY

WITNESS *Carole E. Meyer*

By *Stanley Riegel*
Stanley Riegel Attorney-in-fact

CERTIFICATE OF COMPLETION AND COMPLIANCE

TO: HAMILTON COUNTY SURVEYOR

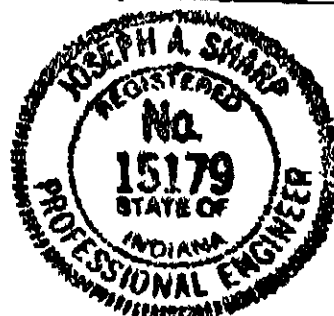
RE: *The Springs of Cambridge, Section Seven*

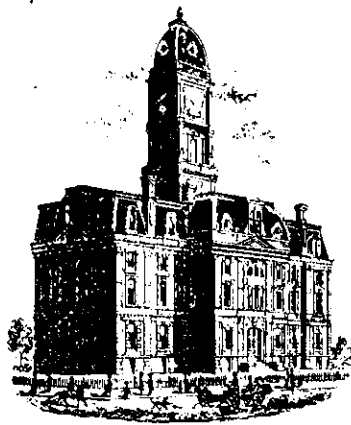
I hereby certify that:

- 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: 9.12.02Type or Printed Name: Joseph A. SharpBusiness Address: 7172 Graham RoadIndianapolis, IN 46250Telephone: (317) 842-6777

INDIANA REGISTERED NUMBER

15179



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

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

To: Hamilton County Drainage Board

January 9, 2003

**Re: Springs of Cambridge Drain:
Springs of Cambridge Sec 7 Arm**

Attached are as-builts, certificate of completion & compliance, and other information for Springs of Cambridge Sec 7. 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 July 13, 1998. The report was approved by the Board at the hearing held August 24, 1998. (See Drainage Board Minutes Book 4, Pages 578-579)
The changes are as follows:

Structure:	T.C.:	I.E.:	Pipe:	Length:	Original Plans:	Difference:
705		800.5				
704	805.55	800.77	30	142	163	-21
704	805.55	800.77				
703	816.47	800.97	24	98		
703	816.47	800.97				
702	816.54	801.37	24	28	24	4
702	816.54	801.48				
701	808.6	801.9	24	49	52	3
701	808.6	801.9				
710	811.45	807	18	100	98	2
709		804.6				
707	825.52	813.02	15	223	294	-71
707	825.52	821.62				
706	825.34	821.84	15	28	24	4
713		810				
712	827.55	823.6	12	169	172	-3
712	827.55	823.65				
711	827.78	824.38	12	28	24	4

6" SSD Streets:

Creekridge	1416
x2	

Total: 2832

**RCP Pipe
Totals:**

12	197
15	251
18	100
24	175
30	142

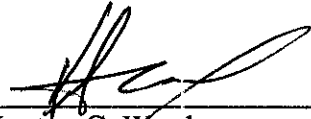
The length of the drain due to the changes described above is now **3697 feet**.

The non-enforcement was approved by the Board at its meeting on August 24, 1998 and recorded under instrument #9909909597.

The bond or letter of credit from Frontier Insurance Co, numbers 105649, 105650, 105651, 105652; in the amount of \$15,500.00 for erosion control, \$16,320.00 for ssd, \$46,570.00 for storm sewer, \$1500.00 for monuments; was released October 25, 1999.

I recommend the Board approve the drain's construction as complete and acceptable.

Sincerely,



Kenton C. Ward,
Hamilton County Surveyor

KCW/slm

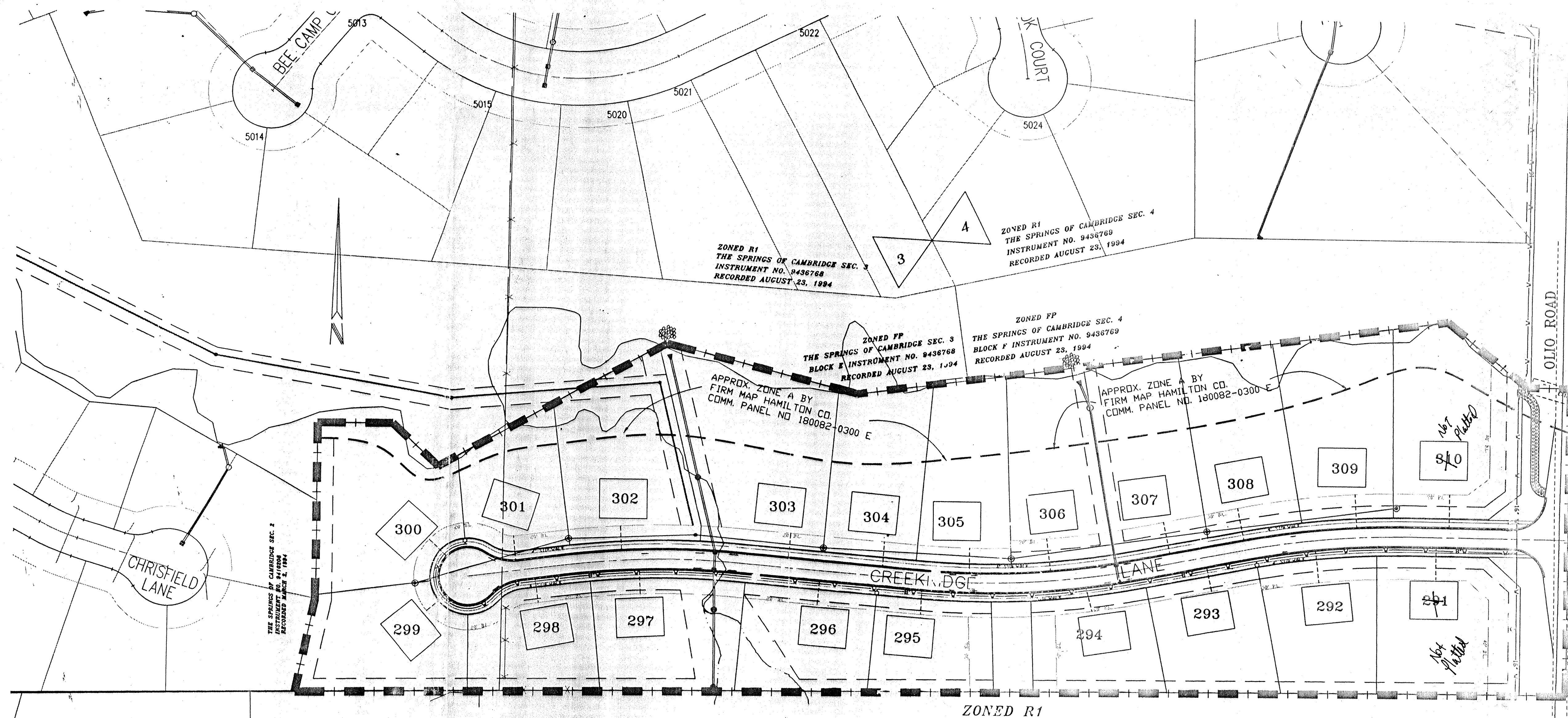
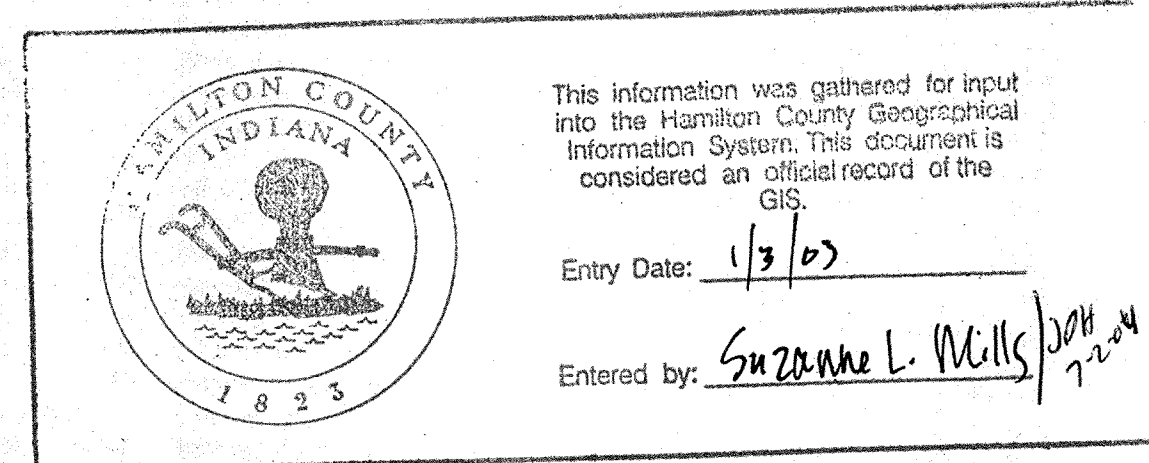
CONSTRUCTION PLANS FOR SPRINGS OF CAMBRIDGE SEC. 7

HCHD #PS-98-0014

Dennis R. Redick, Mayor
City of Noblesville

Developer:
Marina Limited Partnership

Site Engineers/Surveyors
Paul I. Cripe, Inc.



INDEX	
SHT	DESCRIPTION
CS	COVER SHEET
C101	MAP SHEET
C102	EXIST. CONDITIONS/CLEARING PLAN
C201	SITE DEVELOPMENT PLAN
C203	EROSION CONTROL PLAN
C204	EROSION CONTROL DETAILS
C301	STREET PLAN & PROFILE
C401	ENTRANCE & CUL-DE-SAC DETAILS
C402	TRAFFIC MAINTENANCE PLAN
C403	TRAFFIC CONTROL PLAN
C501	SANITARY PLAN & PROFILE
C502	SANITARY DETAILS
C701	STORM PLAN & PROFILES
C702	STORM & STANDARD DETAILS
C801	WATERMAIN PLAN
C901	STANDARD SPECIFICATIONS

BENCHMARKS

IN HATCH 91
IN HATCH 91: G-121 RESERVOIR, 450' S.E. FROM THE N.W. CORNER OF BAY 10, S.W.
OF A SEARCH LIGHT, 14' ABOVE THE CEMENT SPILLWAY, 115' N.E. FROM STEPS, A STD.
IND. FLOOD CONTROL & WATER RESOURCES COMM. BRIDGE BENCH MARK TABLET, STAMPED
"MAR 91 1956" ELEVATION=798.621

A STANDARD INDIANA FLOOD CONTROL & WATER RESOURCES COMM. BRIDGE TABLET
SET IN THE TOP OF THE SOUTHWEST BRIDGE SEAT OF FLORIDA ROAD OVER FALL CREEK
ELEVATION=793.16

CONTACT CO. / PERSON FOR

	NAME	PHONE NO.	FAX NO.
OWNER	ALLEN ROSENBERG	845-0270	845-0766
DEVELOPER	GENE HEINIG	877-5513	877-4198
POWER	CEN. IND. POWER CO.	442-4419	467-6351
GAS CO.	INDIANA GAS	800-666-3096	
TELEPHONE	HANDCOCK RURAL	326-3131	
CABLE TV	INSIGHT	776-0660	773-5439
WATER CO.	IWC	767-9328	263-6448
CO. SURVEYOR	KENT WARD	776-8495	776-9628

HIGHWAY DEPT	HAN. CO. HIGHWAY	773-7770	776-9814
SANITARY	FLATFORK CREEK	845-1995	
DRAINAGE BOARD	KENT WARD	776-8495	776-9628
HAM. CO. SWCD	JOHN SOUTH	773-1406	776-1101

DON'T DIG BLIND 1-800-382-5544
CALL TOLL FREE
1-800-428-5200
FOR CALLS OUTSIDE OF INDIANA

PAUL I. CRIPPE TEAM 317-842-6777 FAX-841-4798

PROJECT MGR	BRUCE HAGEN	661
PROJECT ENGR	JOE SHARP	675
PROJECT SURVEYOR	ERIC WHITE	683
PROJECT LAND PLANNER	JOE SHARP	675
CAD TECH.	FRANK GLIDDEN	680
QUALITY ASSURANCE	TOM SCHELLENBURGER	622

DWG. TYPE	FILE NUMBER
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PAUL I. CRIPPE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777 FAX (317) 841-4798
E-Mail at p-i-c@p-i-c.com

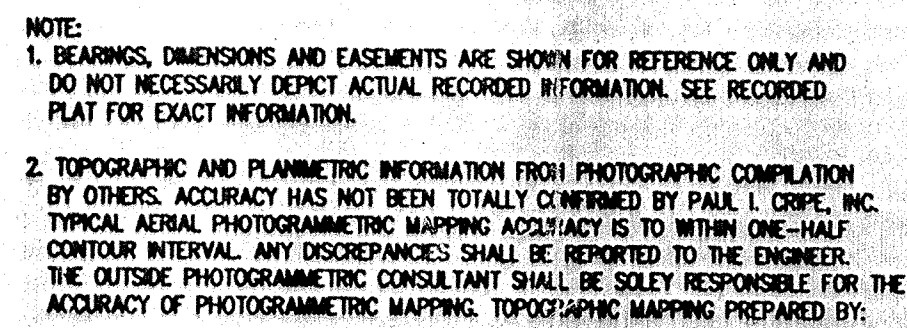
ARCHITECTS
ENGINEERS
LANDSCAPE ARCHITECTS
LAND SURVEYORS
TRANSPORTATION ENGINEERS
LAND PLANNERS
LAND SURVEYORS

COVER SHEET
SPRINGS OF CAMBRIDGE SEC. 7
MARINA LIMITED PARTNERSHIP
11691 FALL CREEK ROAD
INDIANAPOLIS, IN 46256
PHONE (317) 845-0770 FAX (317) 845-0776

CERTIFIED BY: *Joseph A. Sharp*

JOSEPH A. SHARP
REGISTERED
No. 15179
PROFESSIONAL ENGINEER
INDIANA

Drawn By: _____
Checked By: _____
Quality Assurance: _____
Scale: 1" = 100'
Sheet: **CS**



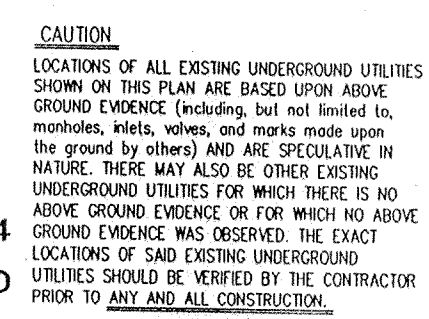
NO PAD - MEANS THIS IS A HEAVILY WOODED LOT AND NO PAD FILL REQUIRED BY THE DEVELOPER.

MFG - (MINIMUM PAD GRADE) MEANS THE DEVELOPER IS TO FILL THE PAD AREA TO THE GRADE SHOWN ON PLANS.

MFG - (MINIMUM FINISHED GRADE) MEANS THE FINISHED GRADE AROUND THE HOME. NO OPENING CAN BE BELOW THE GRADE.


BFE - (BASE FLOOD ELEVATION) MEANS THE 100 YEAR FLOOD ELEVATION.

PAUL I. CRIFE, INC. SHALL BE HELD HARMLESS IF THESE REQUIREMENTS ARE NOT MET.



STRUCTURE DATA TABLE			
STRUCTURE NUMBER	STRUCTURE TYPE	DETAIL (SEE SHT. C702)	CASTING TYPE (NEENAH EQUIV.)
701	48" SHALLOW MANHOLE	ST-6	R-4342
702	48" SHALLOW MANHOLE	ST-6	R-3501-N
703	60" SHALLOW MANHOLE	ST-6	R-3501-N
704	60" SHALLOW MANHOLE	ST-6	R-4342
705	END SECTION	ST-3A	CONCRETE
706	48" SHALLOW MANHOLE	ST-6	R-3501-N
707	48" SHALLOW MANHOLE	ST-6	R-3501-N
708	48" SHALLOW MANHOLE	ST-6	R-4342
709	END SECTION	ST-3A	CONCRETE
710			
711	48" SHALLOW MANHOLE	ST-6	R-3501-N
712	48" SHALLOW MANHOLE	ST-6	R-3501-N
713	END SECTION	ST-3A	CONCRETE

CERTIFIED BY:



A circular professional engineer seal for Joseph A. Sharp. The outer ring contains the text "JOSEPH A. SHARP" at the top and "PROFESSIONAL ENGINEER" at the bottom. Inside this ring, the word "REGISTERED" is at the top. The center of the seal features the text "No. 15179" in a large, bold font, with "STATE OF INDIANA" written below it.


Drawn By: _____

Checked By: _____

Quality Assurance: _____

Scale: _____

0 _____ Scale: 1" = 50'



Sheet

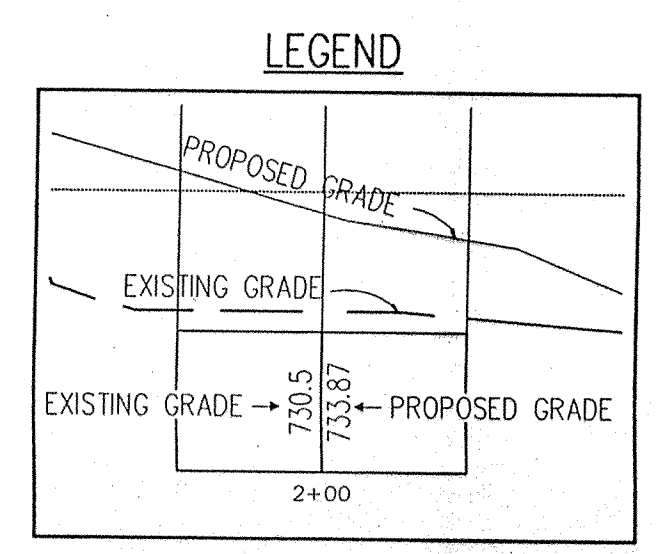
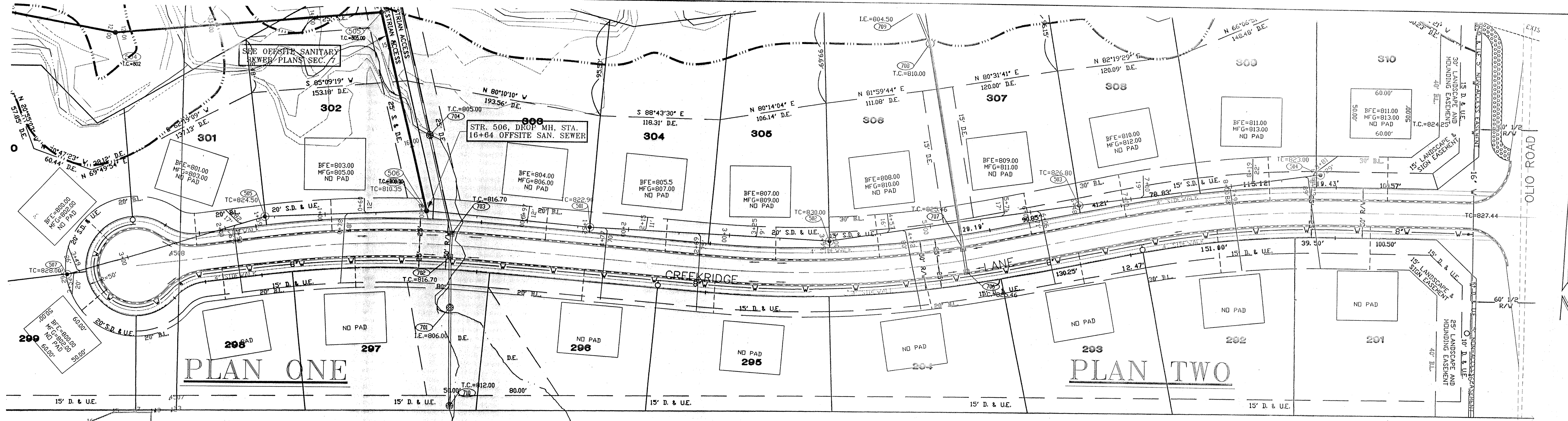
C201

Date: _____

PAUL I. CRIPE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777 FAX (317) 841-4798
E-Mail at pcripe@pcripe.com

Revision	Date	Description
✓	5/4/93	HAMILTON COUNTY REVISIONS
✓	5/25/93	HAMILTON COUNTY REVISIONS
✓	5/29/93	HAMILTON COUNTY REVISIONS
✓	8/10/93	HAMILTON COUNTY REVISIONS

- ARCHITECTS
- ENGINEERS
- LANDSCAPE ARCHITECTS
- ENVIRONMENTAL CONSULTANTS
- TRANSPORTATION ENGINEERS
- LAND PLANNERS
- LAND SURVEYORS



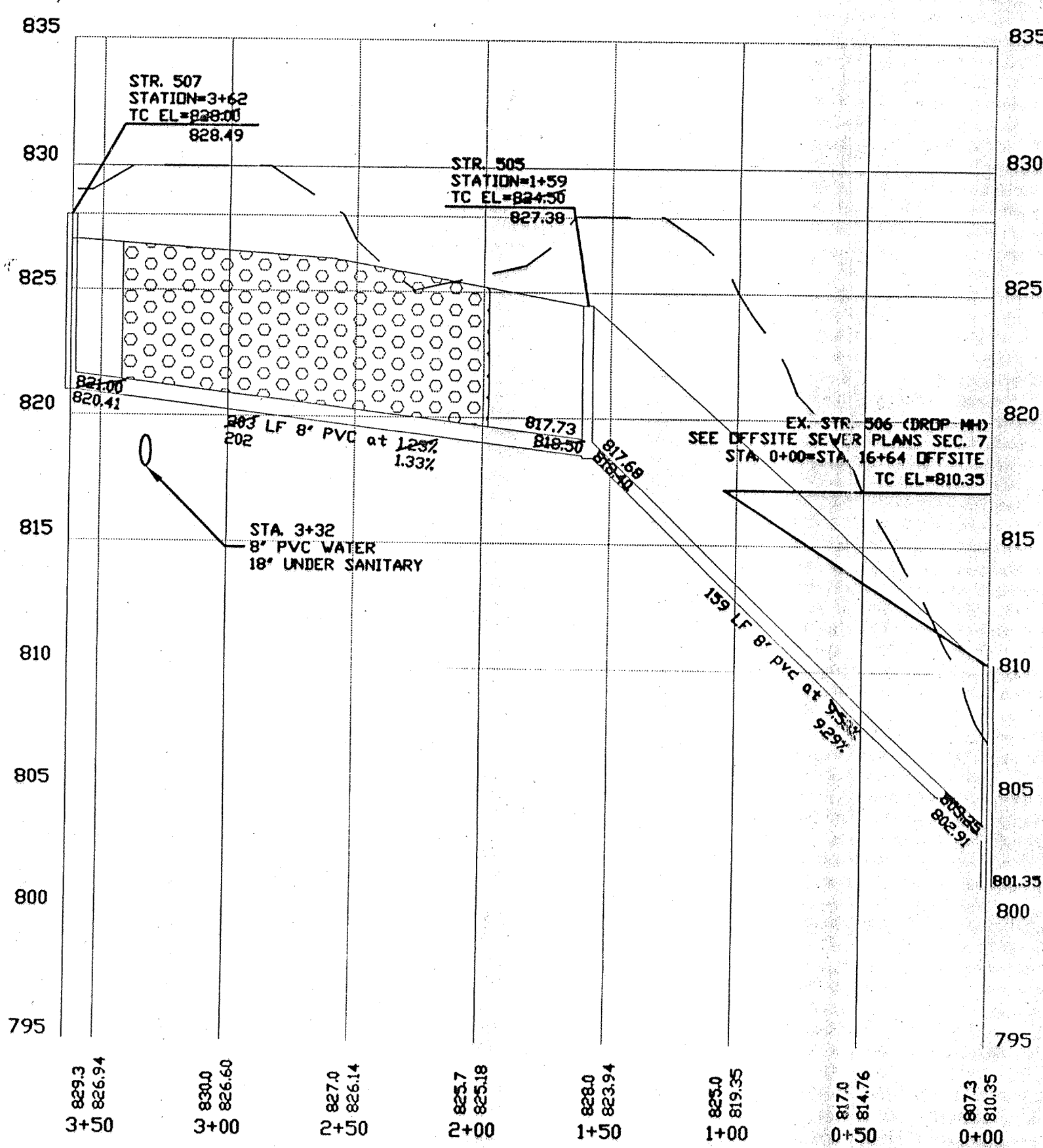
NOTE: ALL PIPE LENGTHS ARE FROM CENTER OF MANHOLE TO CENTER OF MANHOLE.

- NOTES:
1. CUTS SHOWN ARE APPROXIMATE, TAKEN FROM EXISTING GRADE TO INVERT OF PIPE.
 2. ALL SANITARY MANHOLE CASTINGS SHALL BE: MEDIAN R-1916-CT OR EQUAL W/ CONCEALED PICK HOLES.
 3. EASEMENTS ARE SHOWN FOR REFERENCE ONLY AND DO NOT NECESSARILY DEPICT ACTUAL RECORDED INFORMATION. SEE RECORDED PLAT FOR EXACT INFORMATION.
 4. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE AS-BUILT DRAWINGS TO THE ACCEPTING AGENCY. TO CERTIFY THE ELEVATION AND SLOPE OF SANITARY SEWERS. SEWERS INSTALLED AT A GRADE LESS THAN REQUIRED BY THE AGENCY WILL NOT BE ACCEPTED. THE CONTRACTOR SHALL PROVIDE FOR PERIODIC AS-BUILT CHECKS ON THE SEWER DURING CONSTRUCTION TO ASSURE THAT DESIGN GRADE IS BEING MAINTAINED.
 5. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS, FINAL RULE 29 CFR PART 1926, SUBPART T* APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
 6. IN ADDITION, EXCAVATIONS EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH THE ABOVE STATED REQUIREMENTS.
 7. CONTRACTOR SHALL VERIFY LOCATION & INVERT ELEVATIONS OF EXISTING SANITARY SEWER PRIOR TO START OF CONSTRUCTION.

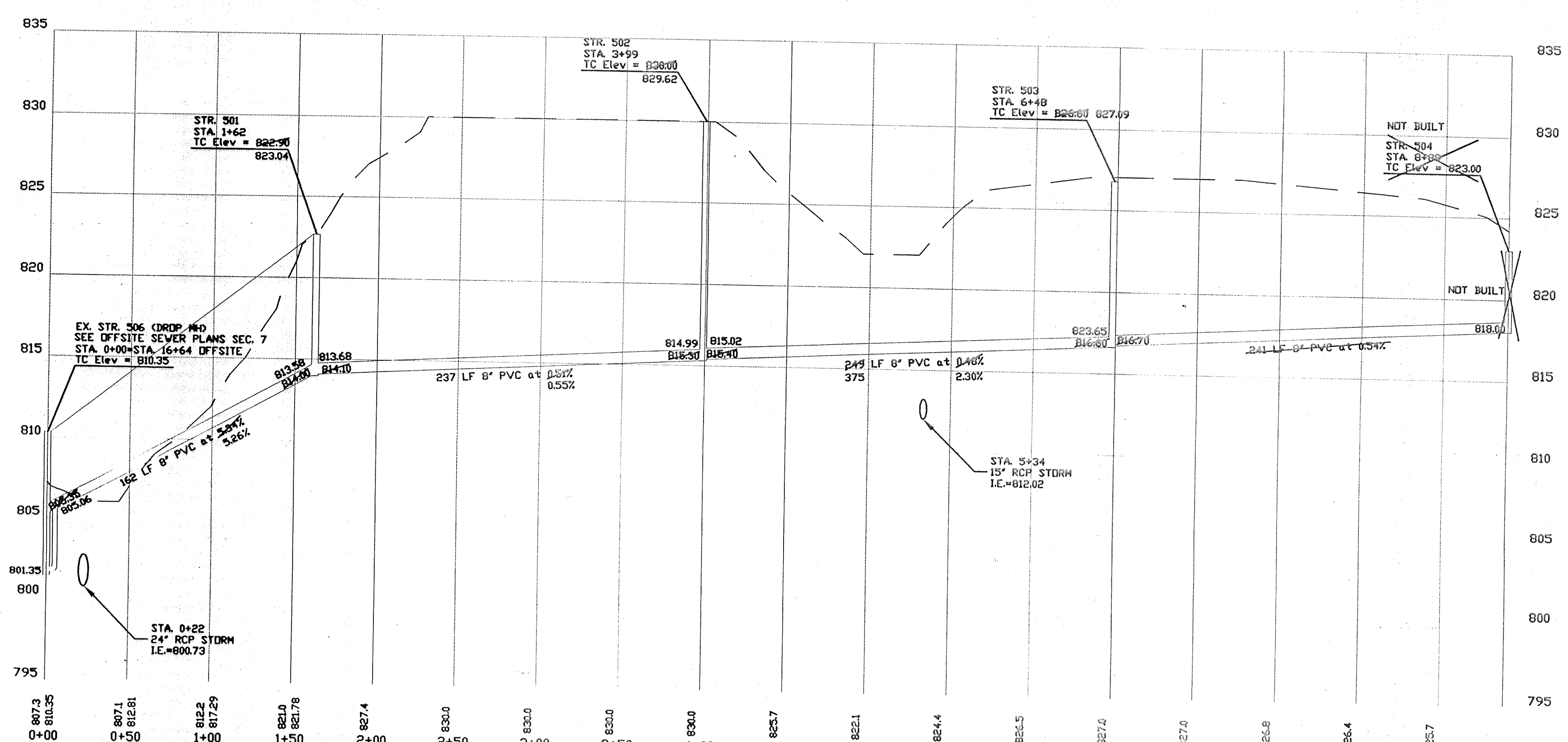
DON'T DIG BLIND

CAUTION: LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, records, utility maps, and other data from 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 HAS BEEN OBTAINED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

1-800-382-5544
1-800-428-5200
FOR CALLS OUTSIDE OF INDIANA



PROFILE ONE



PROFILE TWO

Certified As-Built Data 10-11-99
Joseph A. Sharpe

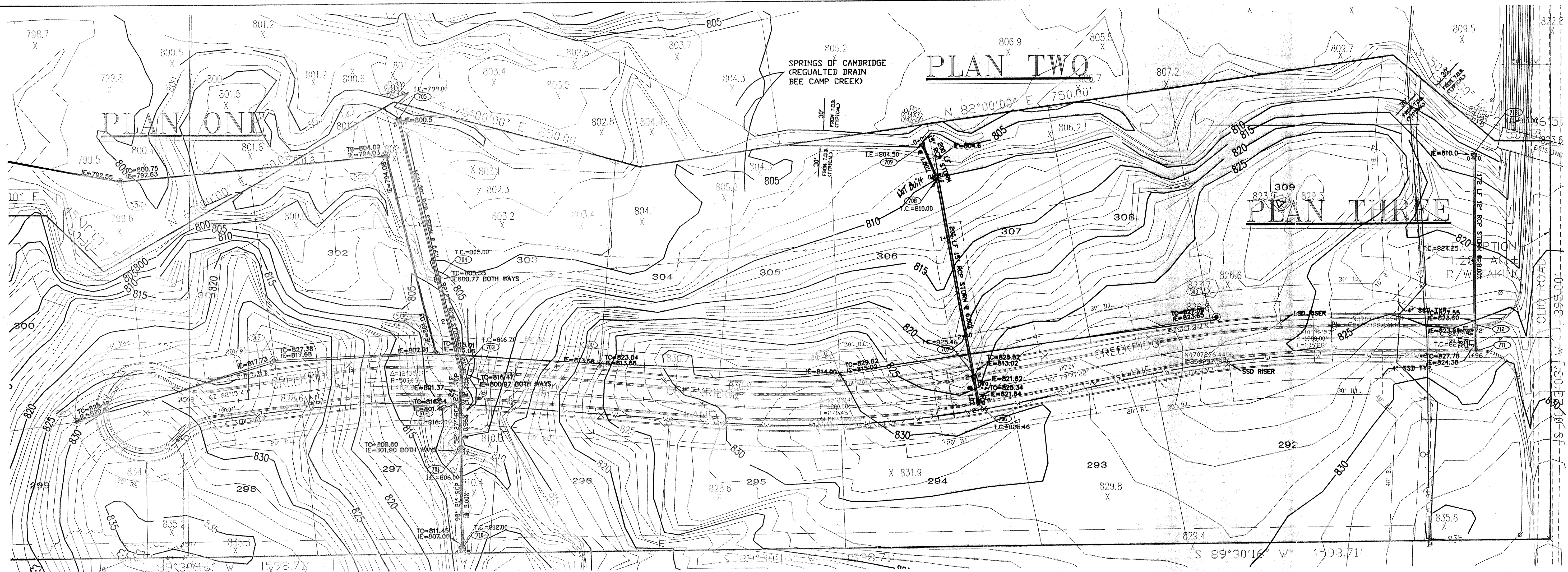
PAUL I. CRIFE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
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E-Mail: paul@pcripe.com

ARCHITECTS
ENGINEERS
LANDSCAPE ARCHITECTS
ENVIRONMENTAL CONSULTANTS
PLANNERS
LAND SURVEYORS

SANITARY PLAN/PROFILE
SPRINGS OF CAMBRIDGE SEC. 7
MARINA LIMITED PARTNERSHIP
11691 FALL CREEK RD.
INDIANAPOLIS, IN 46256
PHONE: 846-0070 FAX: 846-0704

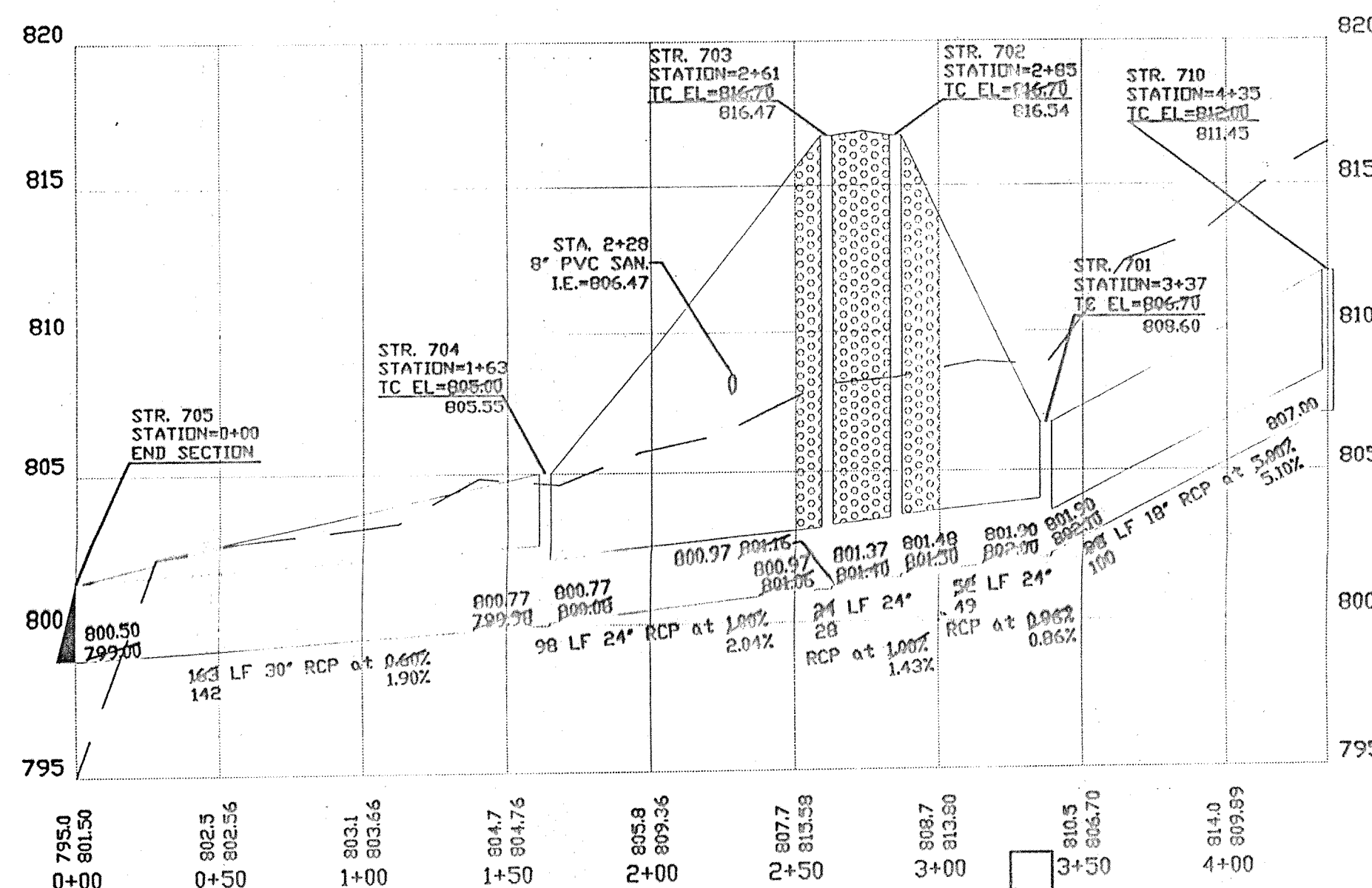
CERTIFIED BY:
Joseph A. Sharpe
JOSEPH A. SHARPE
REGISTERED
No. 15179
STATE OF INDIANA
PROFESSIONAL ENGINEER

Drawn By:
Checked By:
Quality Assurance:
Scale: 1" = 40'
Sheet: **C501**
Date: 04-15-98
Project Number: 81100-20705

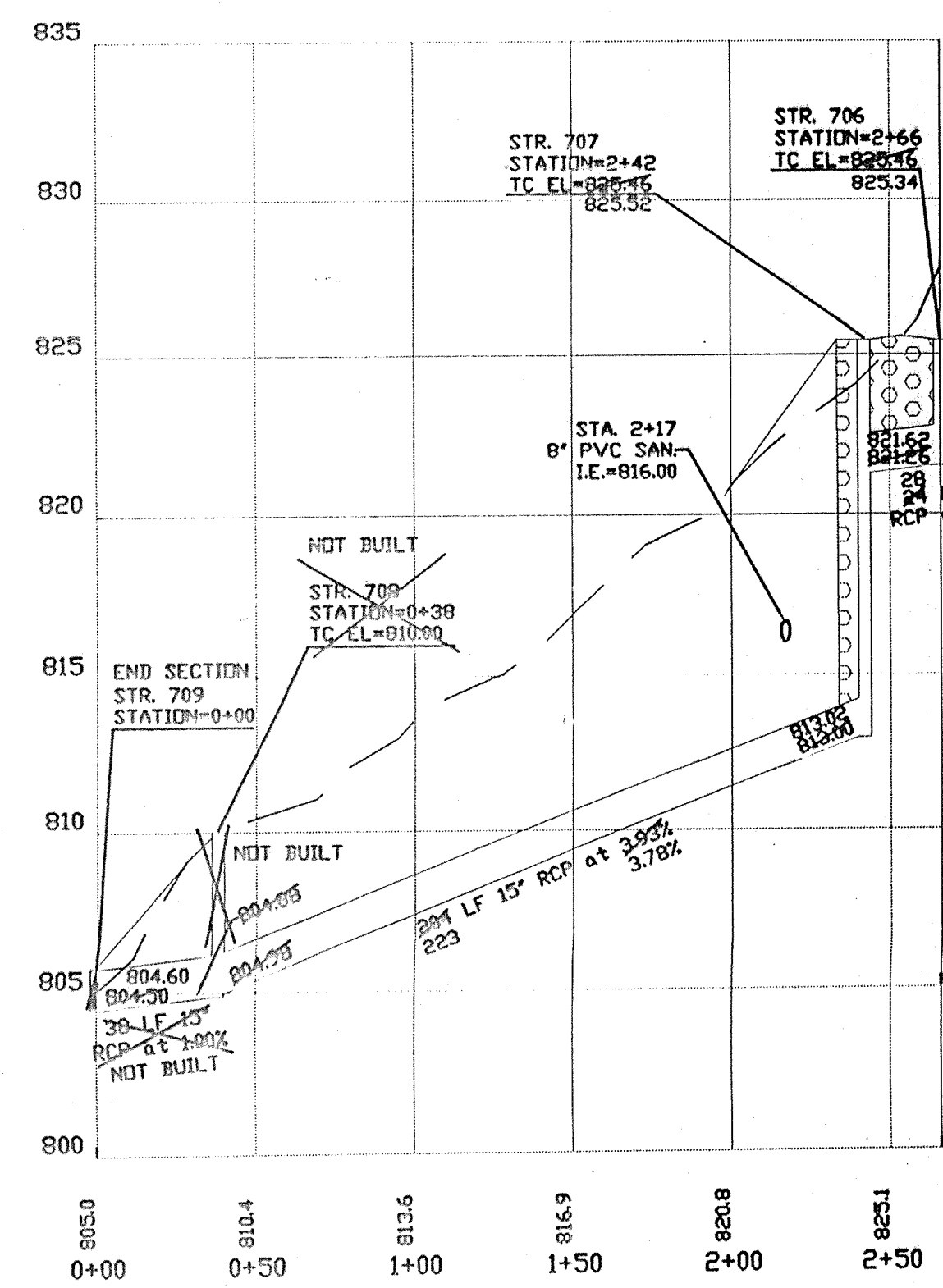


STORM SEWER PLAN AND PROFILE NOTES:

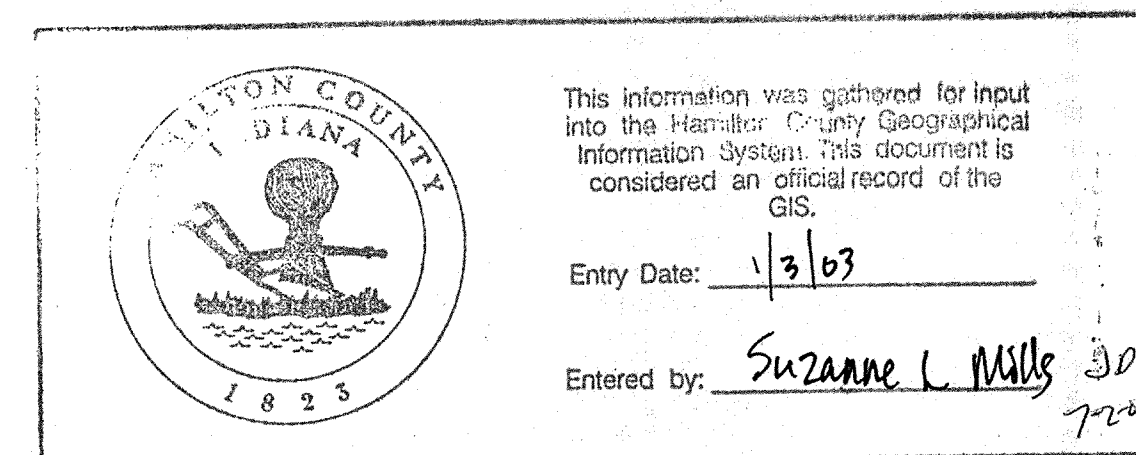
1. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS: FINAL RULE 29 CFR PART 1926, SUBPART PP APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
2. IN ADDITION, EXCAVATIONS EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
3. ALL STRUCTURES SHALL HAVE CASTINGS, JOINTS, LIFT RINGS, STEPS AND PIPE CONNECTIONS WELL GROUDED, TROVELED SMOOTH AND BRUSH FINISHED.
4. ALL STRUCTURES (IE: MANHOLES, INLETS) SHALL HAVE POURED FLOW LINES AND BENCH WALLS. THE FLOW LINES AND BENCH WALLS SHALL BE TROVELED SMOOTH AND BRUSH FINISHED.
5. FIELD ADJUSTMENTS OF TOP OF CASTING (TC) 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 ON SHEET C901.
10. PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND INCLUDE END SECTIONS.
11. ALL STRUCTURES DEEPER THAN 4 FT. WILL REQUIRE MANHOLE STRUCTURES LARGER THAN 2' X 2' BOXES AND SHALL INCLUDE STEPS.



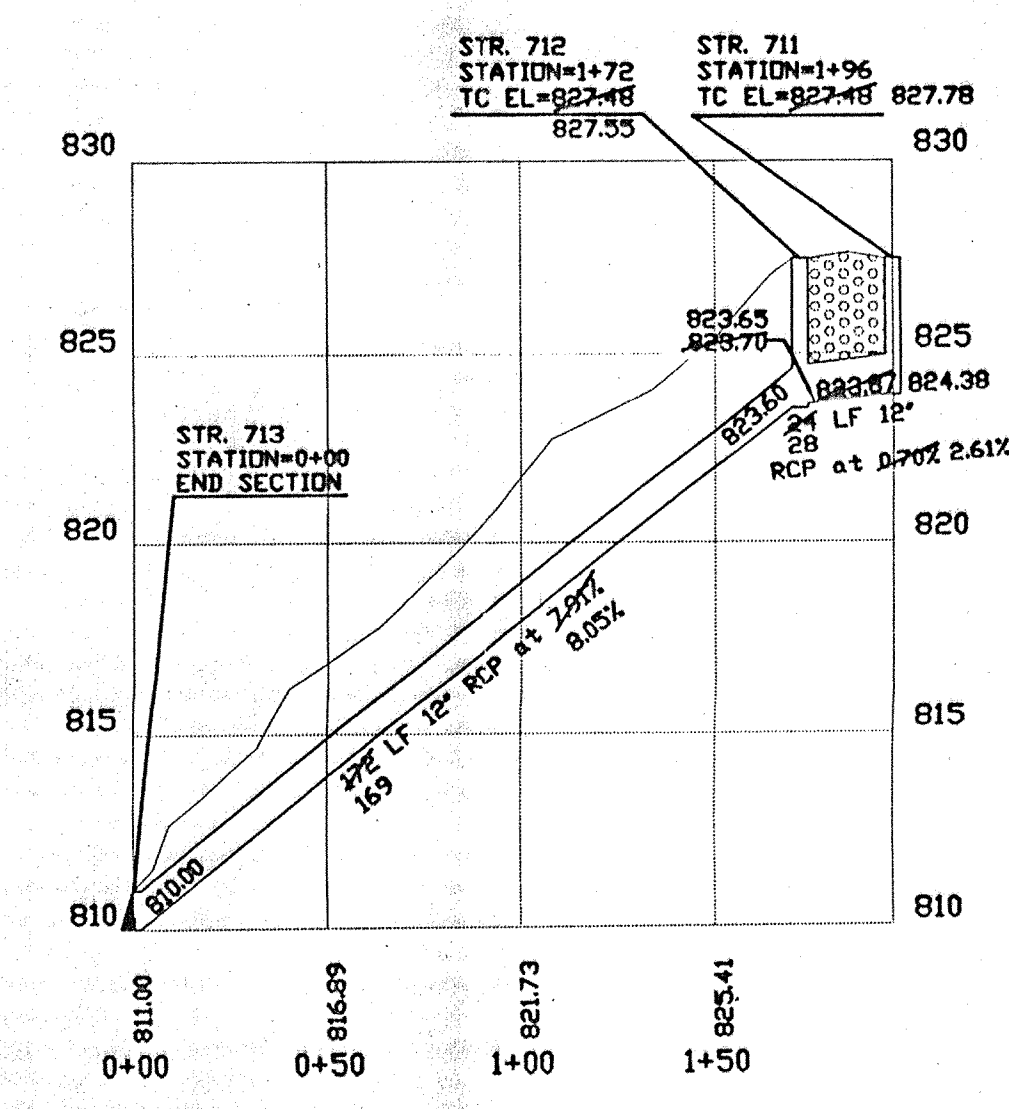
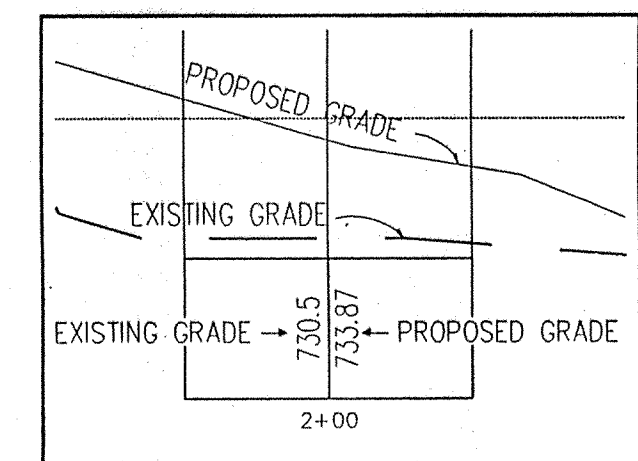
PROFILE ONE



PROFILE TWO



LEGEND



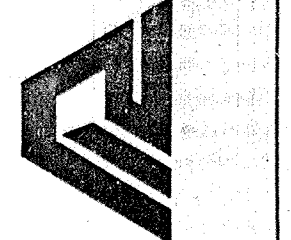
PROFILE THREE

Certified As-Built Data
10-11-99
Joseph A. Sharp

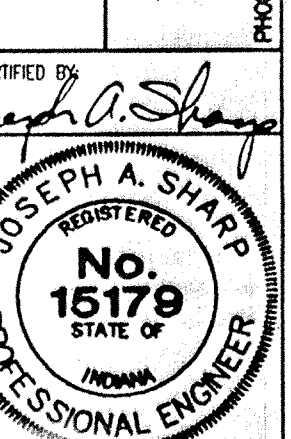
Revision	Date	Description
1	10/1/99	AS - PLAN, DATA, ADDED
2	10/1/99	AS - PLAN, DATA, ADDED
3	10/1/99	AS - PLAN, DATA, ADDED
4	10/1/99	AS - PLAN, DATA, ADDED
5	10/1/99	AS - PLAN, DATA, ADDED
6	10/1/99	AS - PLAN, DATA, ADDED
7	10/1/99	AS - PLAN, DATA, ADDED
8	10/1/99	AS - PLAN, DATA, ADDED
9	10/1/99	AS - PLAN, DATA, ADDED
10	10/1/99	AS - PLAN, DATA, ADDED

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LAND PLANNERS	LAND SURVEYORS

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Scale: 1" = 50'	Sheet: C701	Date: 04-15-98
Project Number: 81100-20705		