

SURVEYOR'S OFFICE

Hamilton County

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

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

June 23, 2003

To: Hamilton County Drainage Board

Re: Mary Cox Drain

Attached is a petition and plans for the proposed relocation of the Mary Cox Drain. The relocation is being proposed by Throgmartin Henke, LLP. The proposal is to intercept the drain at the east line of the Golf Preserve (Tract 08-10-08-00-00-033.000) which is Station 11+50 of the original 1891 description. This point is Structure 7027A on the attached plans for the Bridgewater Club, Section E by Paul I. Cripe dated October 17, 2002. The new drain will then run between the following structures as shown on referenced plans: Str. 7027A to Str. 7027; Str. 7027 to 7023; Str. 7023 to Str. 7016; Str. 7016 to 7014; Str. 7014 to 7013; Str. 7013 to 7012; Str. 7012 to 7011; Str. 7011 to 7010.

This line will consist of the following:

Open Ditch	150 ft	24" RCP	139 ft	30" RCP	461 ft
18" RCP	331 ft	27" RCP	547 ft		

The open ditch listed above is that area through the detention pond #1 as measured in a straight line between Str. 7023 and 7016.

The total length of new drain shall be 1,628 feet. The 1,250 feet of original drain between Sta. 11+50 and Sta. 24 shall be vacated. This section of the drain was reconstructed and relocated in 1999 – 2000. (See Surveyor's report dated April 23, 1999 and Final Report dated October 3, 2000.) (See Drainage Board Minutes Book 5, pages 125 to 126 and 533 to 534.) This proposal will add an additional 2,778 feet to the drains total length.

The cost of the relocation is to be paid by Throgmartin Henke LLP. Because the project is to be paid by the petitioner and is within the boundaries of the petitioner's property, the project falls under the requirements as set out in IC 36-9-27-52.5. Therefore, a hearing is not required for the petition.

The petitioner has not yet provided the performance bond.

I recommend that upon approval of the above proposed drain relocation that the Board also approve the attached non-enforcement requests. The first request is for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for The Bridgewater Club, Section E as recorded in the office of the Hamilton County Recorder. The second is to reduce the easement across tract 08-10-08-00-00-032.000 and 08-10-08-00-00-032.001 owned by Throgmartin. This is for the relocated portion of the drain.

I recommend approval by the Board at this time.

Sincerely,

Kenton C. Ward
Hamilton County Surveyor

KCW/llm

MINUTES OF THE HAMILTON COUNTY DRAINAGE BOARD

July 14, 2003

The meeting was called to order Monday, July 14, 2003 at 12:02 pm.

The members of the Board present were Mr. Steven C. Dillinger-President and Mrs. Christine Altman-Vice President. Also present were members of the Hamilton County Surveyor's Office: Mr. Jerry Liston, Mr. Stephen A. Baitz, Mr. Andy Conover, Mr. Michael Kole and Mr. Walter Evans. Mr. Michael Howard, the Board's Attorney, was also present.

Approval of Minutes of June 23, 2003:

Mr. Liston presented the minutes of June 23, 2003 to the Board for approval.

Mrs. Altman made the motion to approve the minutes of June 23, 2003, seconded by Mr. Dillinger and approved unanimously.

52.5 Hearing - Mary Cox Drain, Bridgewater Club Section E:

Mr. Liston presented the Surveyor's report to the Board for approval.

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37%

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Kenton C. Ward
Hamilton County Surveyor

KCW/llm"

Mrs. Altman asked if this was the same location of the North Gray Road Park.

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Bridgewater Club, section E # 63-5
Post Construction Survey

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.
5. The drainage facilities within the above referenced subdivision to the best of my knowledge, information and belief have been correctly represented on the Record Drawings, Digital Record Drawings and the Structure Data Spreadsheet.

Signature: Jeff J. Franciski Date: 12 April 06

Type or Print Name: Jeff J. Franciski

Business Address: 8415 E. 56th street

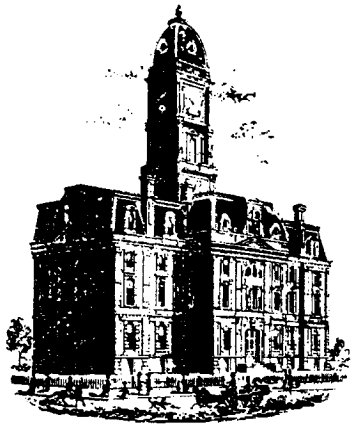
Indianapolis, Indiana 46216

Telephone Number: 317-544-4996



INDIANA REGISTRATION NUMBER

LS20100074



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, CFM
 Surveyor of Hamilton County
 Phone (317) 776-8495
 Fax (317) 776-9628

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

To: Hamilton County Drainage Board

December 19, 2007

Re: Vestal-Kirkendall: Bridgewater Relocation of the Mary Cox Drain

Attached are as-builts, certificate of completion & compliance, and other information for the Bridgewater Section E Relocation of the Mary Cox drain. 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 June 23, 2003. The report was approved by the Board at the hearing held July 14, 2003. (See Drainage Board Minutes Book 7, Page 98)

The changes are as follows:

Structure:	Length:	Size	Material:	Up Invert:	Dn_Invert	Grade:	Changes(ft):
7027A-2027	333	18	RCP	825.91	825.52	0.09	-1
2027-7023	163	24	RCP	825.52	824.54	0.71	24
7016-7014	185	27	RCP	825.02	824.71	0.17	3
7014-7013	384	27	RCP	824.7	823.63	0.28	-1
7013-7012	304	30	RCP	823.53	822.89	0.21	4
7012-7011	120	30	RCP	822.89	822.48	0.34	
7011-710	34	30	RCP	822.48	822.41	0.12	-7

RCP Pipe Totals:

18	333
24	163
27	569
30	458

Total: 1523

Open ditch	150
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Total: 150

The length of the drain due to the changes described above is now **1673 feet**.

The non-enforcement was approved by the Board at its meeting on July 14, 2003 and recorded under instrument #200300080438 & 200300074076. Sureties were not provided for this project.

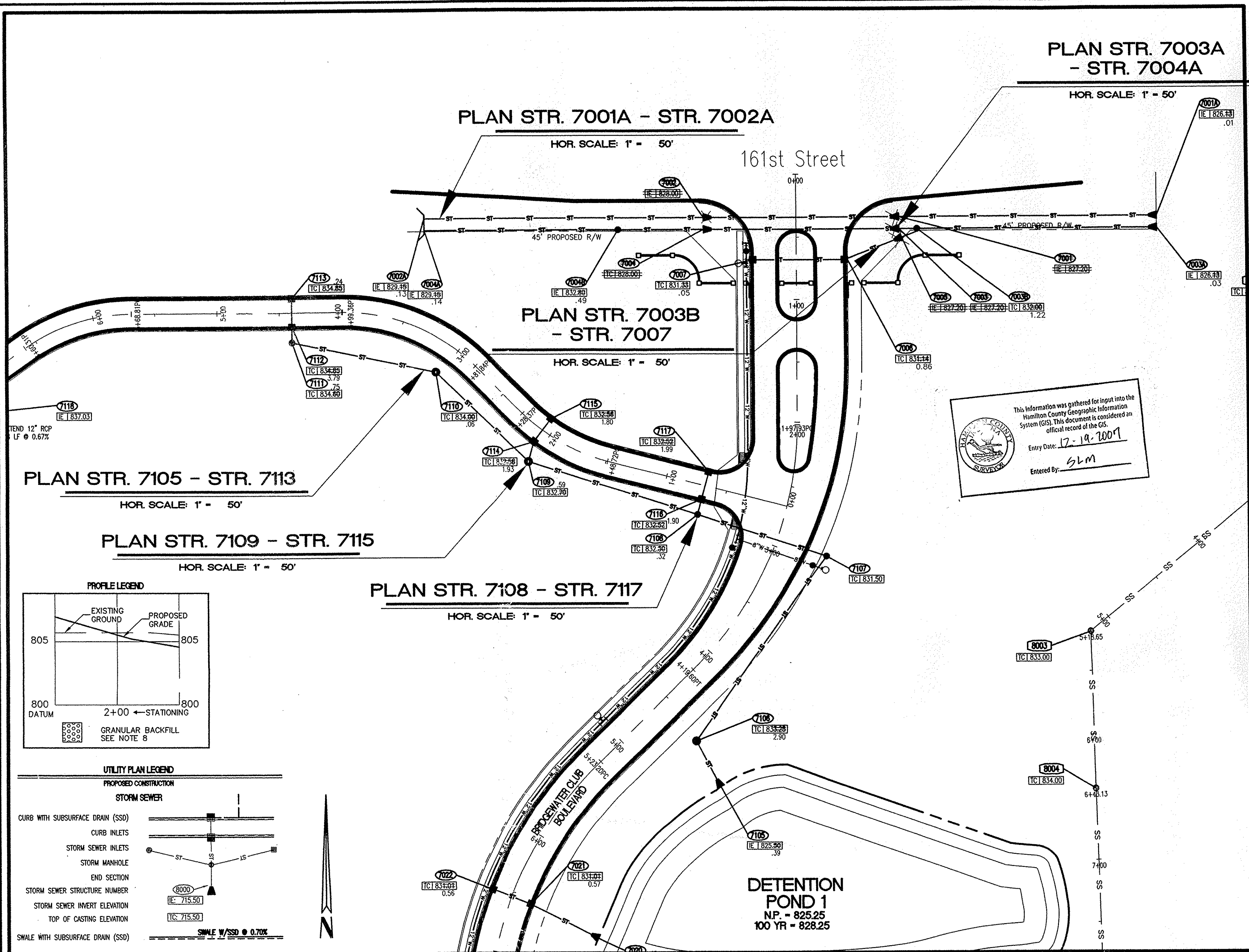
I recommend the Board approve the drain's construction as complete and acceptable.

Sincerely,

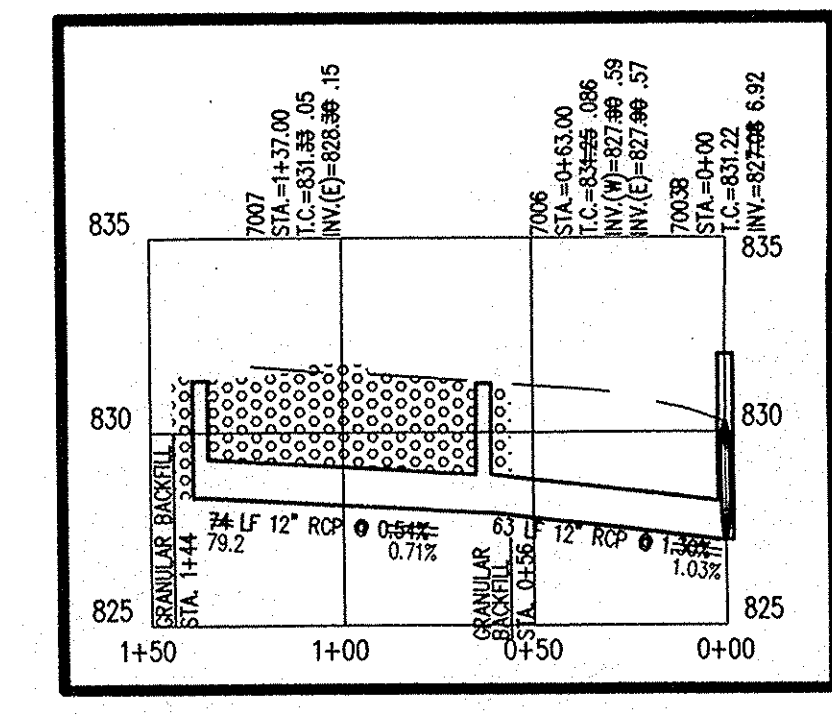
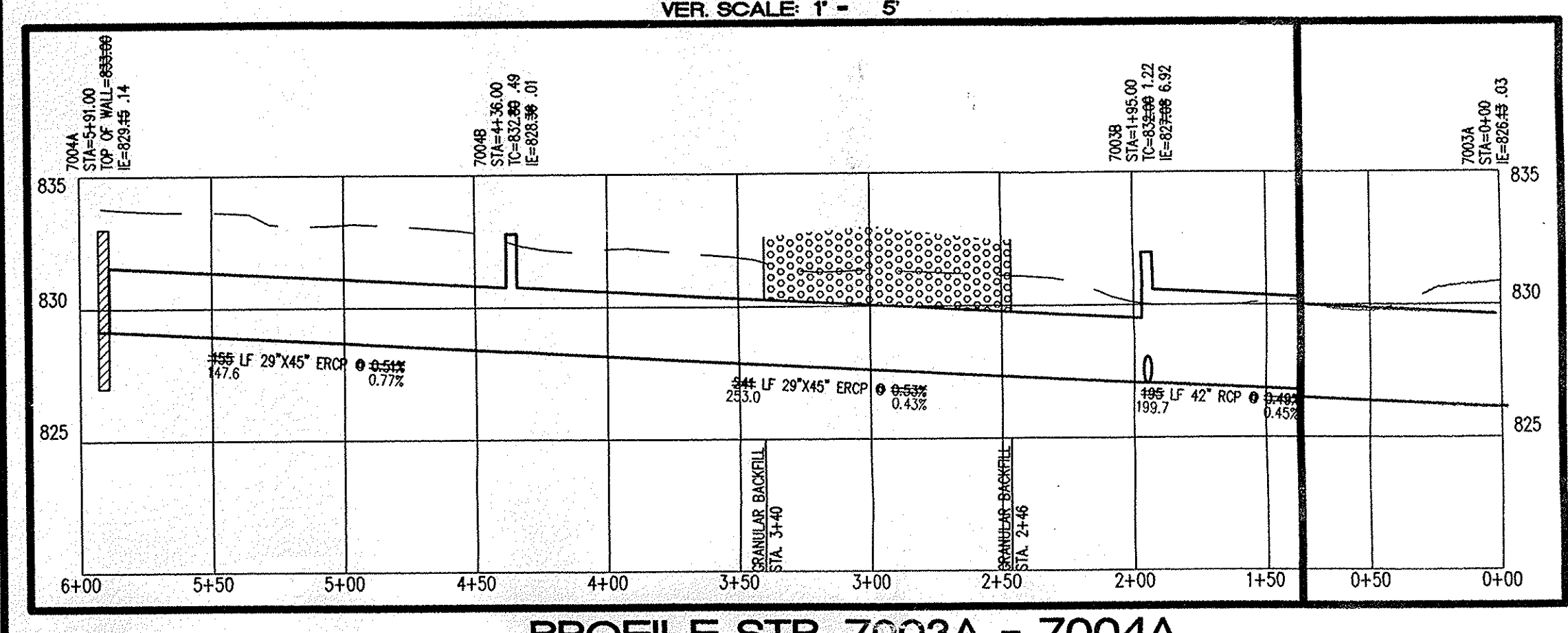
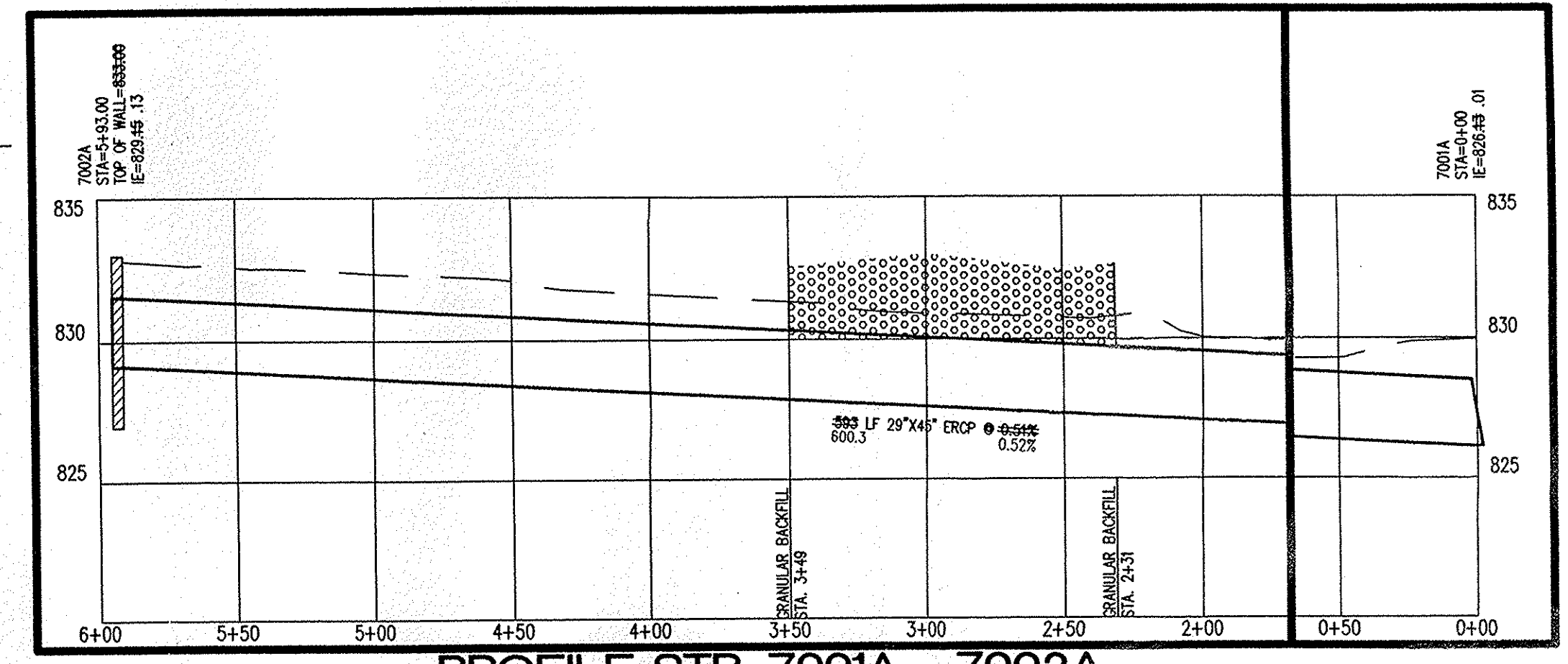
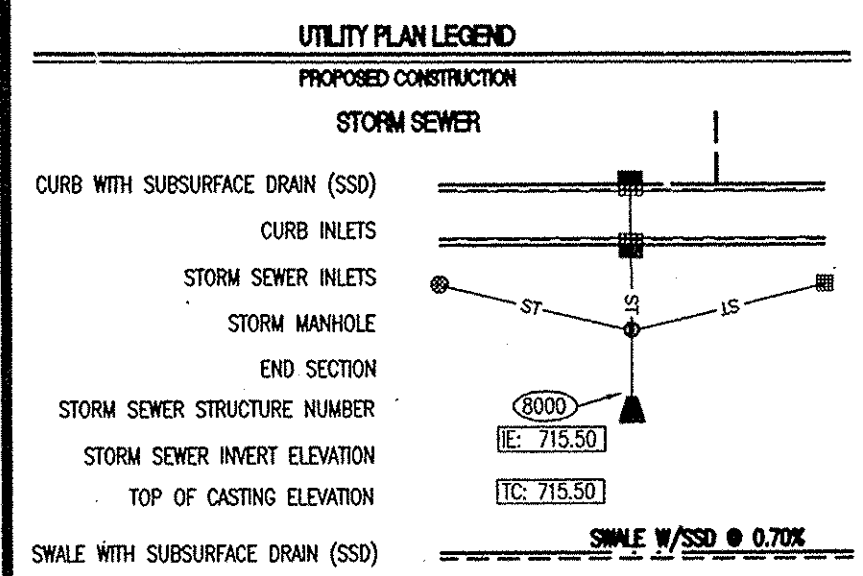
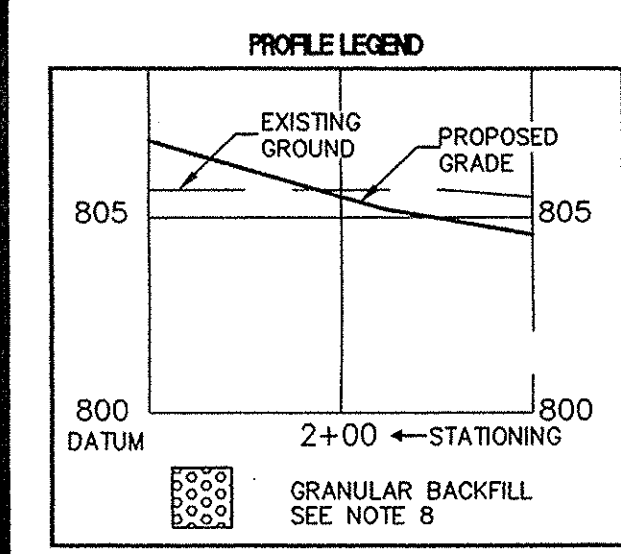
A handwritten signature in black ink, appearing to read 'K. Ward', written over a horizontal line.

Kenton C. Ward, CFM
Hamilton County Surveyor

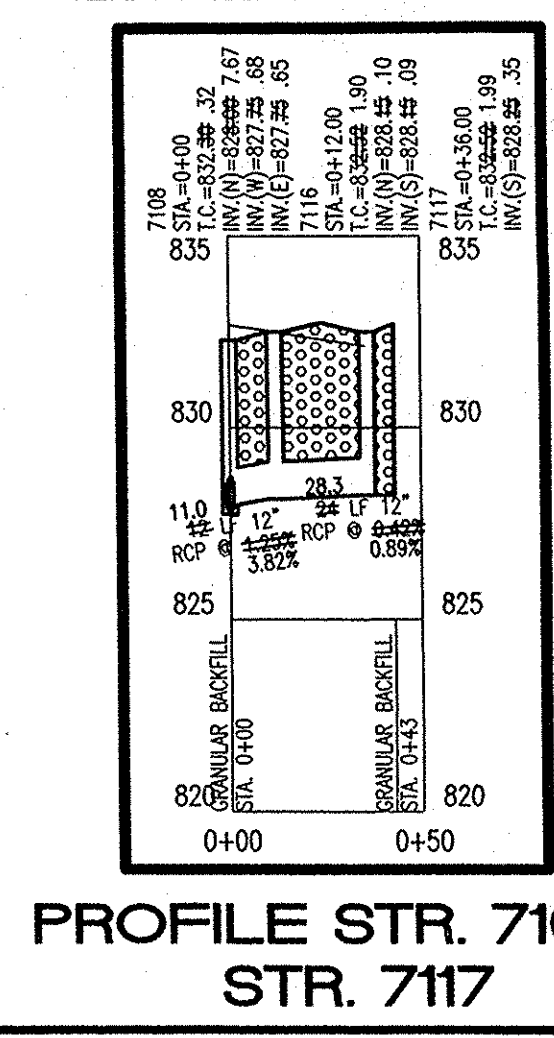
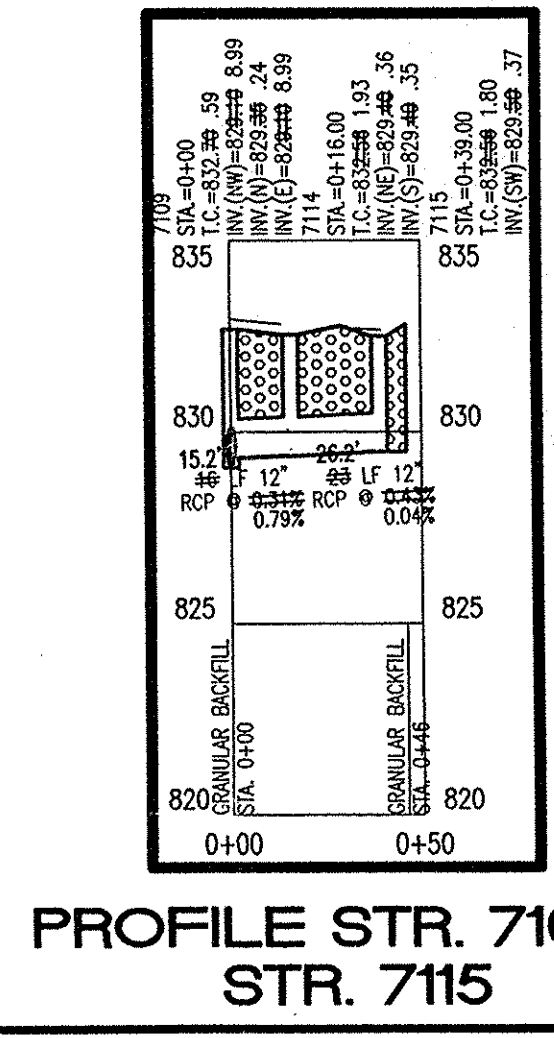
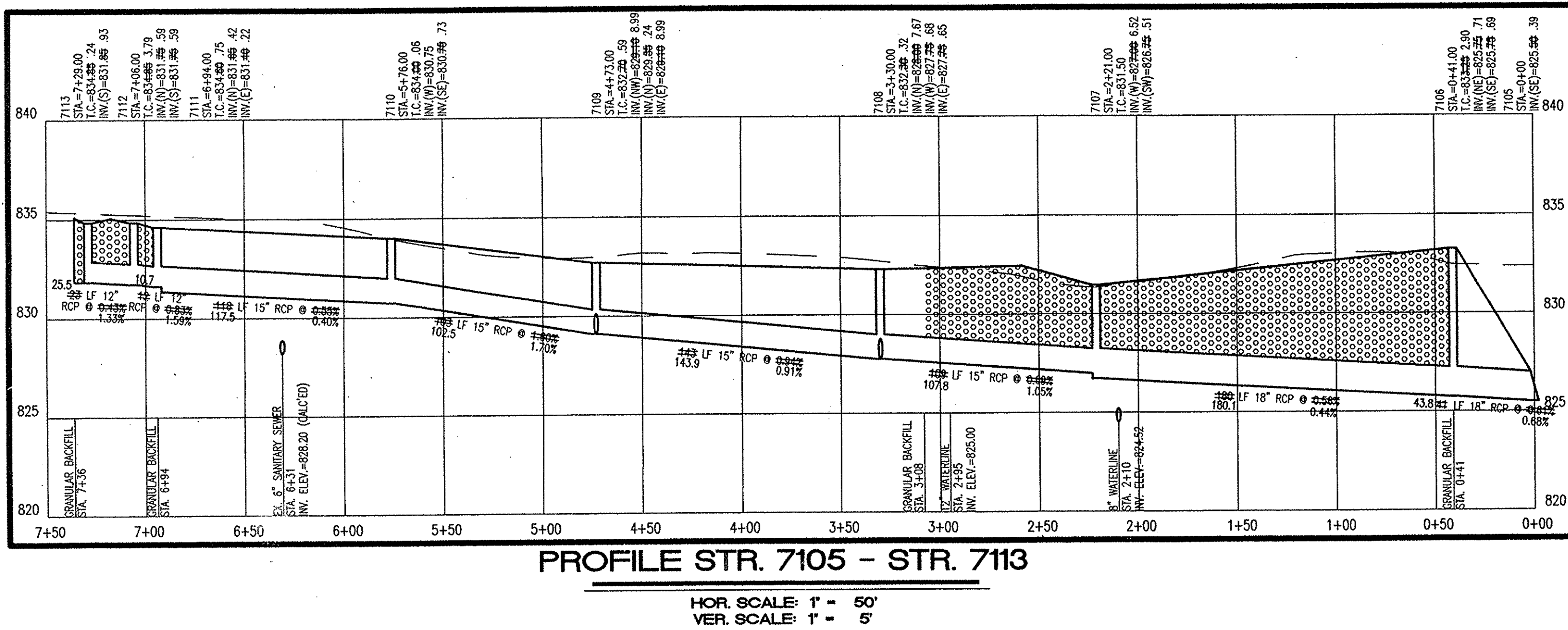
KCW/slm



This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.
Entry Date: 7-19-2007
Entered By: SLM



- STORM SEWER PLAN AND PROFILE NOTES**
- 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.
 - IN ADDITION, EXCAVATIONS EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
 - ALL STRUCTURES SHALL HAVE CASTINGS, JOINTS, LIFT RINGS, STEPS AND PIPE CONNECTIONS WELL GROUTED, TROWELED SMOOTH AND BRUSH FINISHED.
 - 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.
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 - "TC" REFERS TO "TOP OF CASTING"



POST CONSTRUCTION SURVEY

Record Drawing for the top of casting, invert elevations, and length of pipe. Slope percentage represents a calculated figure and is for general information only. Distances are measured center of structure to center of structure.

[Signature]
Date: 10/9/07

USI Consultants
8415 East 56th Street
Indianapolis, IN 46216

Reg. Land Surveyor
No. LS2010074
State of Indiana



"HOLEY MOLEY" SAYS CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU DIG. IT'S THE LAW.

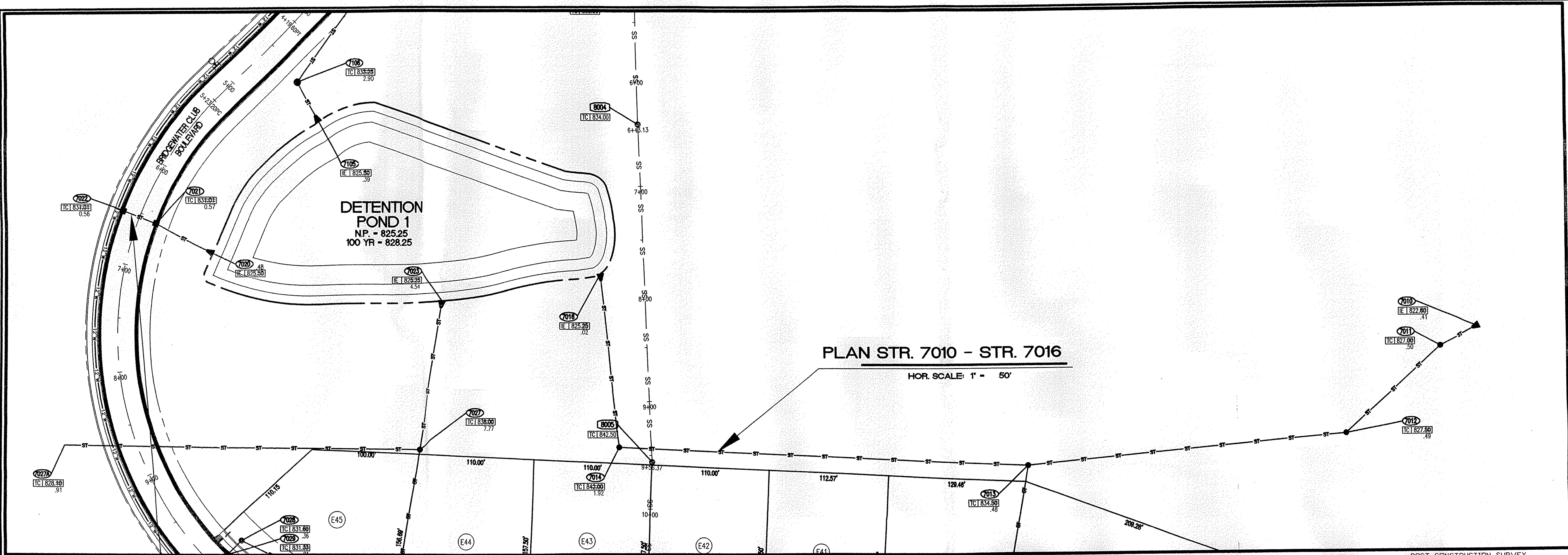
CAUTION: OFFICE OF HAMILTON COUNTY SURVEYOR
LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER 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.

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THE BRIDGEWATER CLUB
SECTIONS 'E' AND 'G3-5'

USI CONSULTANTS, INC
8415 East 56th Street
INDIANAPOLIS, IN 46216
(317) 544-4996

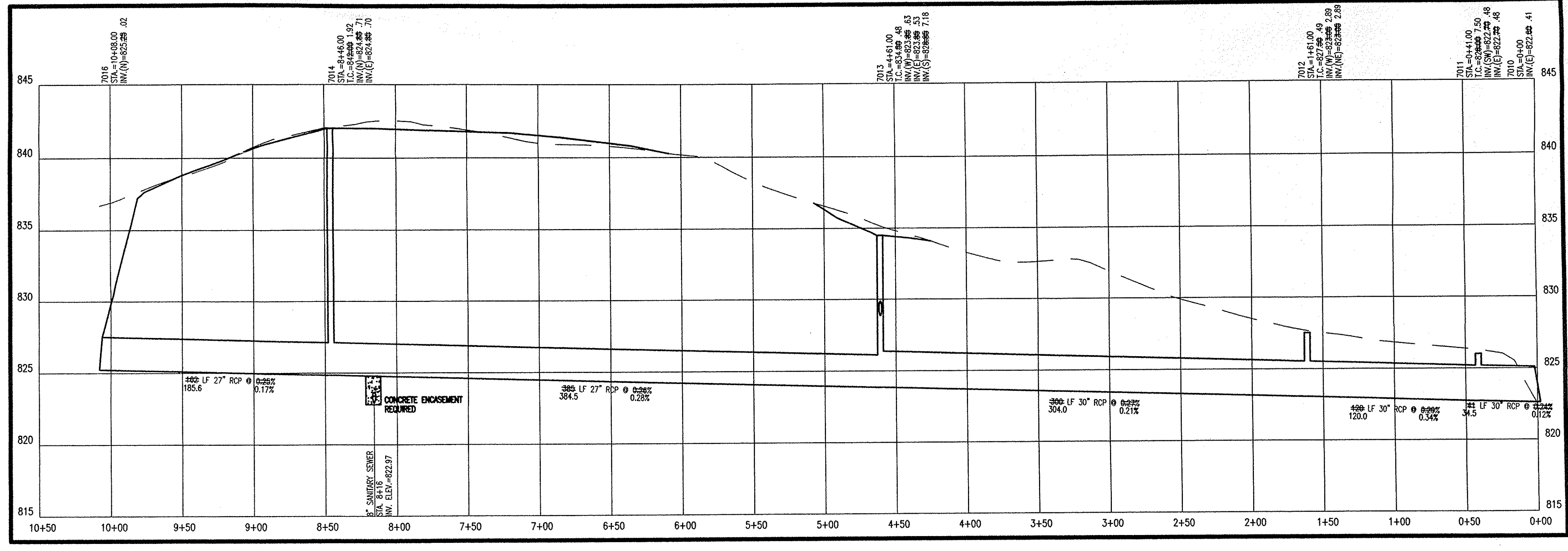
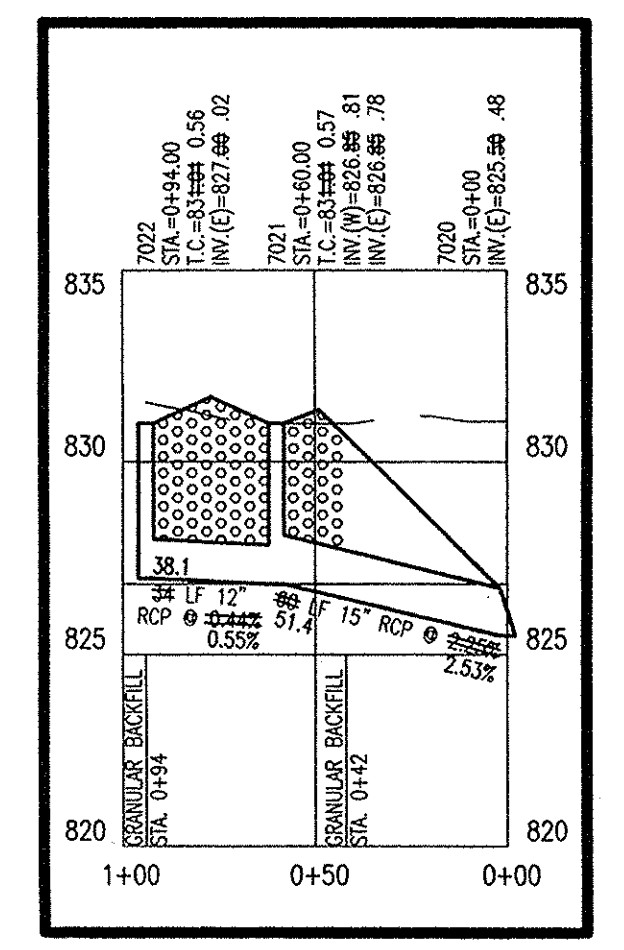
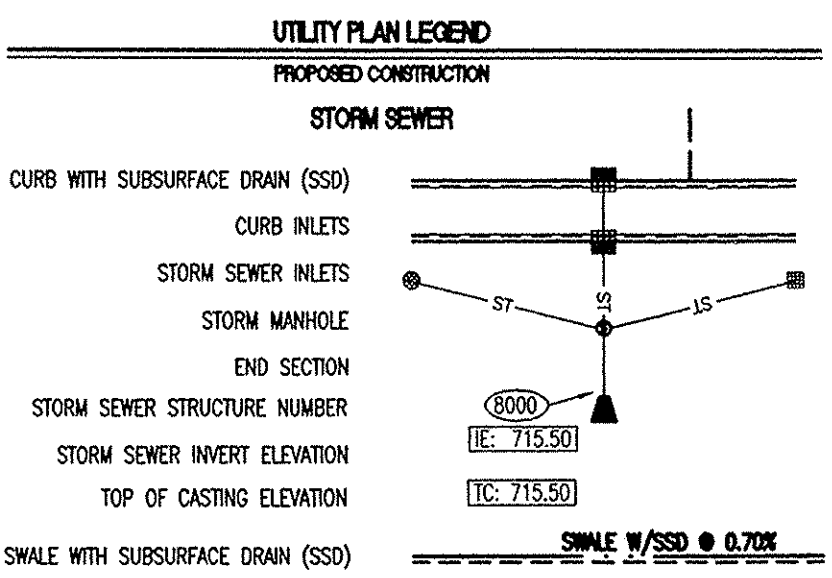
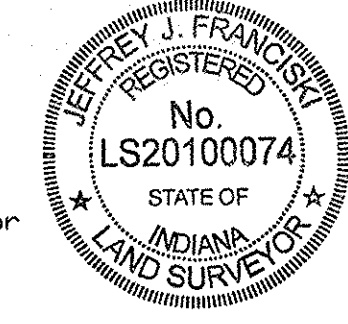
FILE: 2002-167
SHEET NO.
C701



This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.
 Entry Date: 12-19-07
 Entered By: SLM

Record Drawing only for the top of casting, invert elevations, and length of pipe. Slope percentage represents a calculated figure and is for general information only. Distances are measured center of structure to center of structure.

Jeffrey J. Franciski
 Reg. Land Surveyor
 No. LS20100074
 State of Indiana
 8415 East 56th St.
 Indianapolis, IN 46216



- STORM SEWER PLAN AND PROFILE NOTES**
- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS: FINAL RULE 29 CFR PART 1926, SUBPART "I" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
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- PROFILE LEGEND**
-
- EXISTING GROUND
 PROPOSED GRADE
- 2+00 ← STATIONING
- 800 DATUM
- GRANULAR BACKFILL
 SEE NOTE 8

"HOLEY MOLEY" SAYS CALL AT LEAST TWO (2) FULL WORKING DAYS BEFORE YOU DIG... THE LAW.

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OCT 1, 2005

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DESIGNED: _____
 CHECKED: _____
 SCALE: _____
 DATE: _____

SURVEYED: _____
 DRAWN: _____
 CHECKED: _____

DESIGNED BY: _____
 CHECKED BY: _____
 SCALE: _____
 DATE: _____

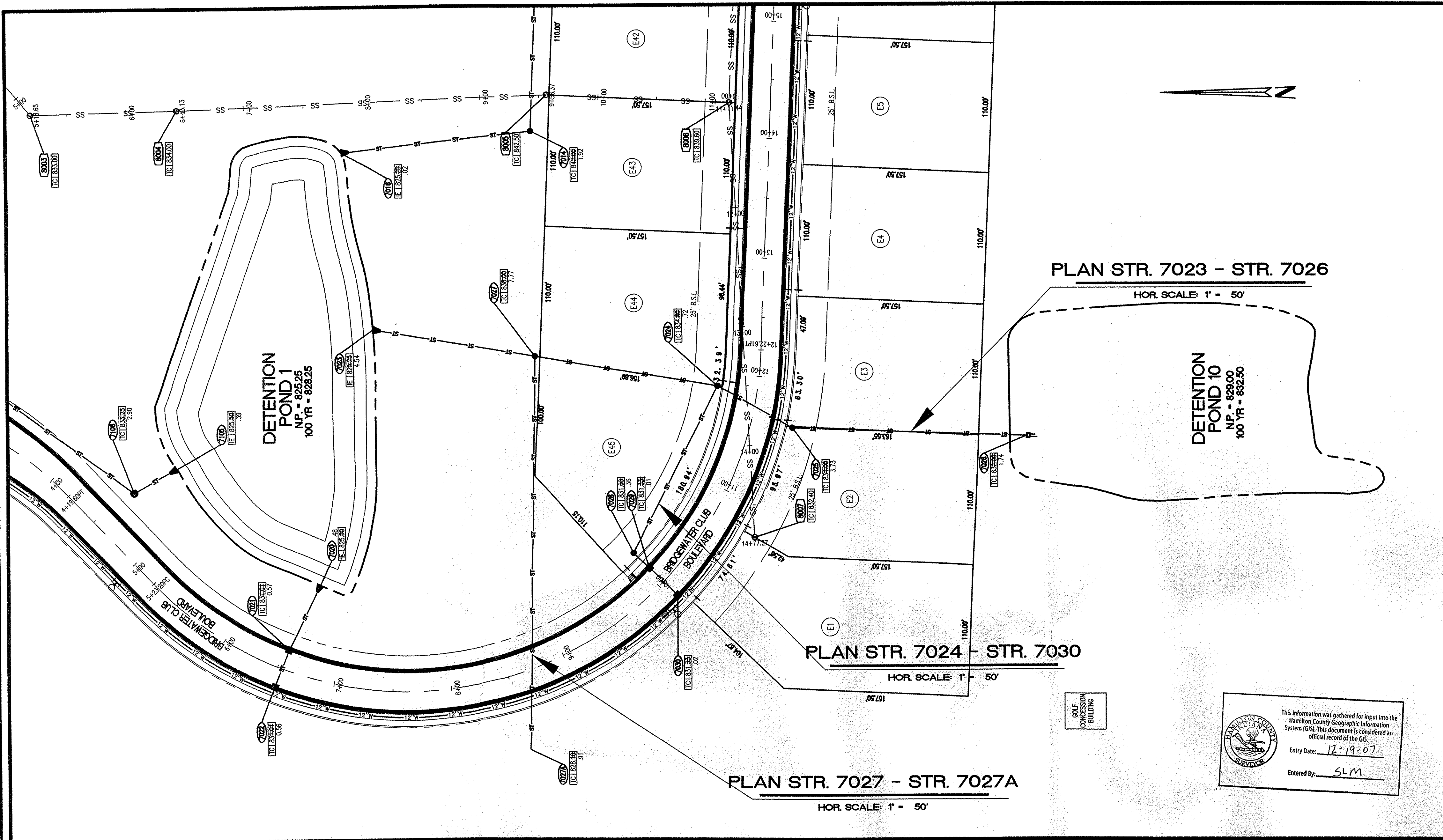
CERTIFIED BY: _____

POST CONSTRUCTION SURVEY
STORM PLAN AND PROFILE
THE BRIDGEWATER CLUB
SECTIONS 'E' AND 'G3-5'

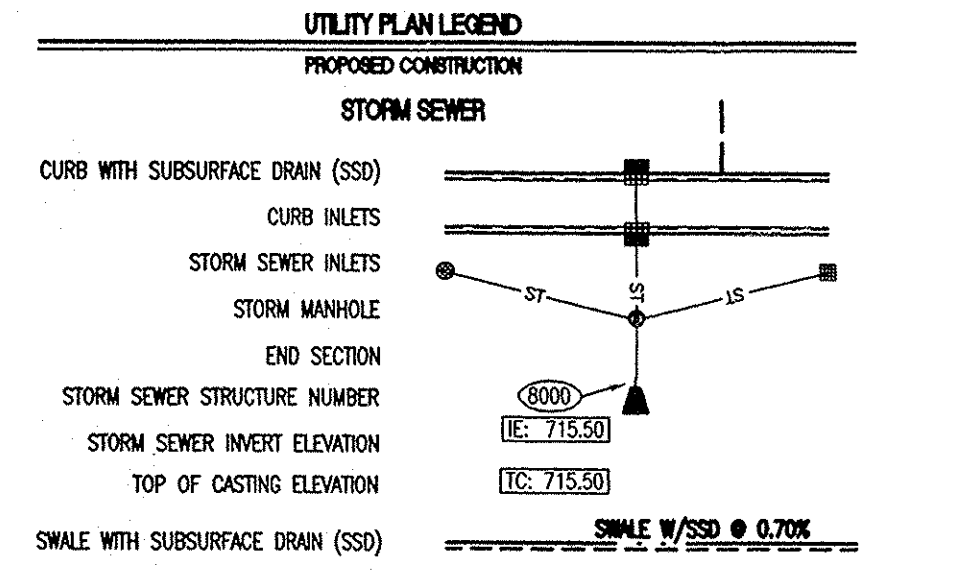
USI CONSULTANTS, INC
 8415 East 56th Street
 INDIANAPOLIS, IN 46216
 (317) 544-4996

FILE: 2002-167

SHEET NO.
C702



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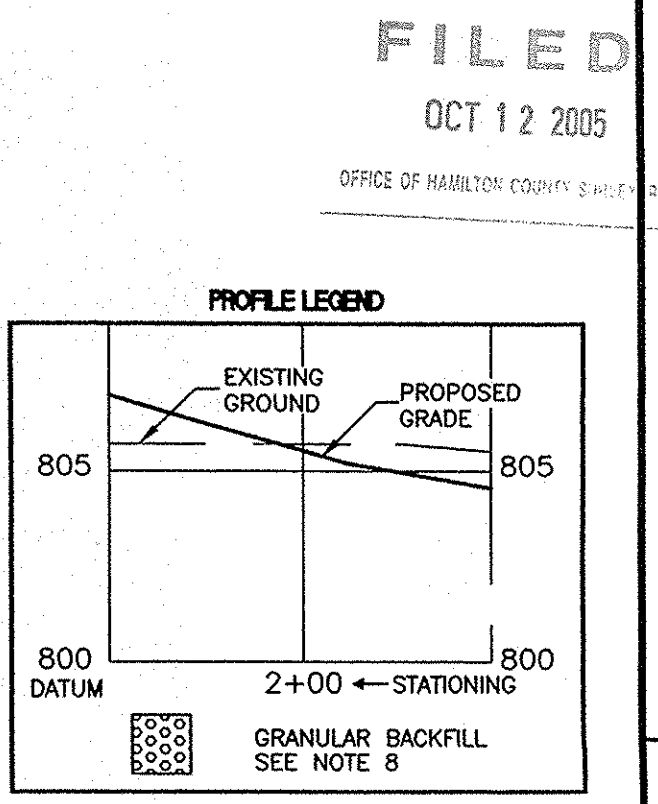
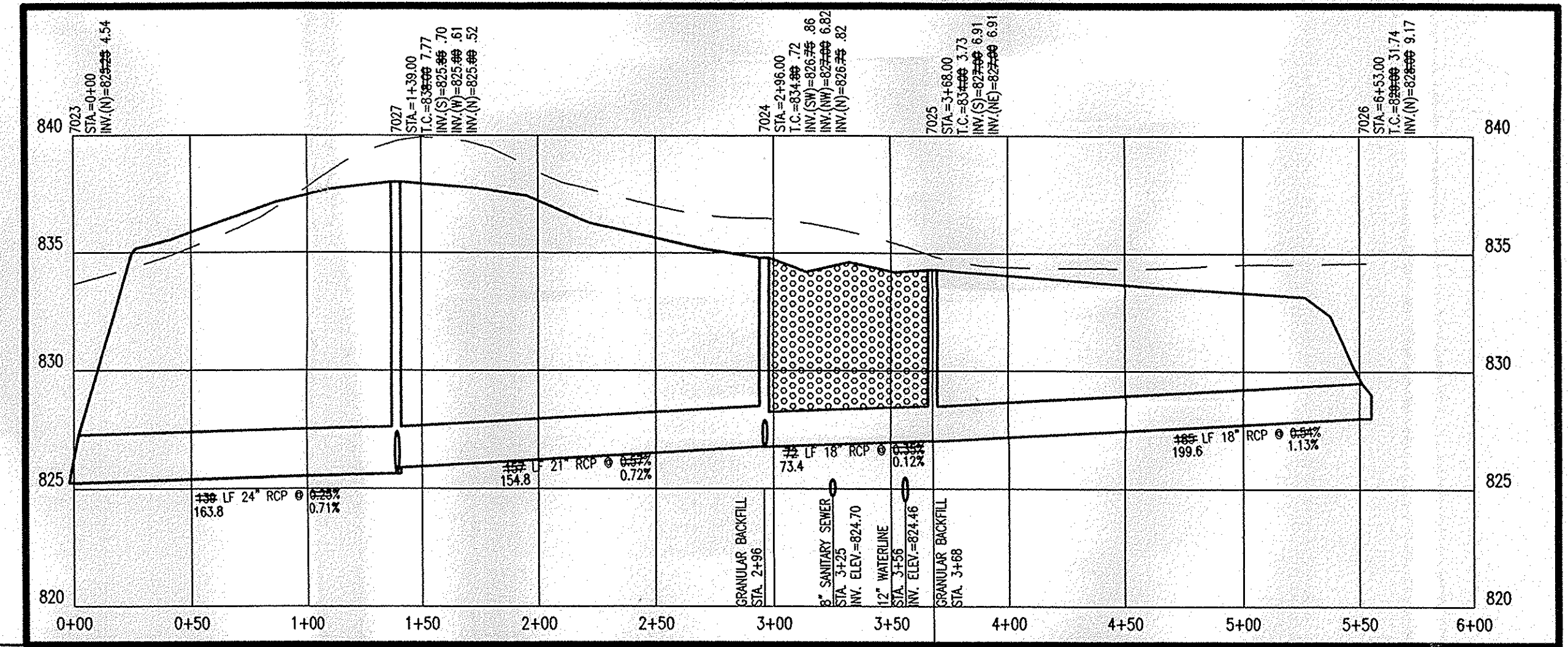
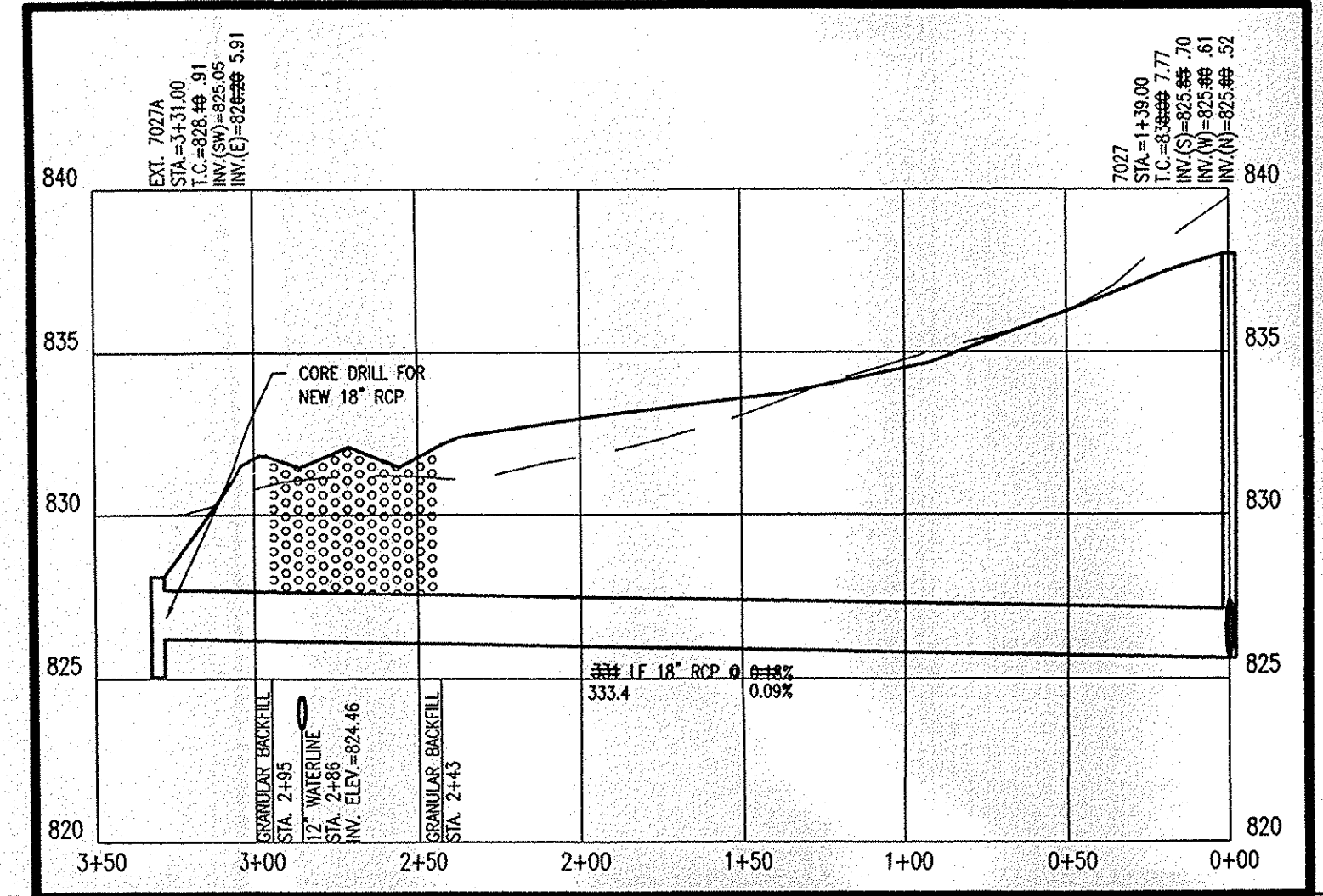
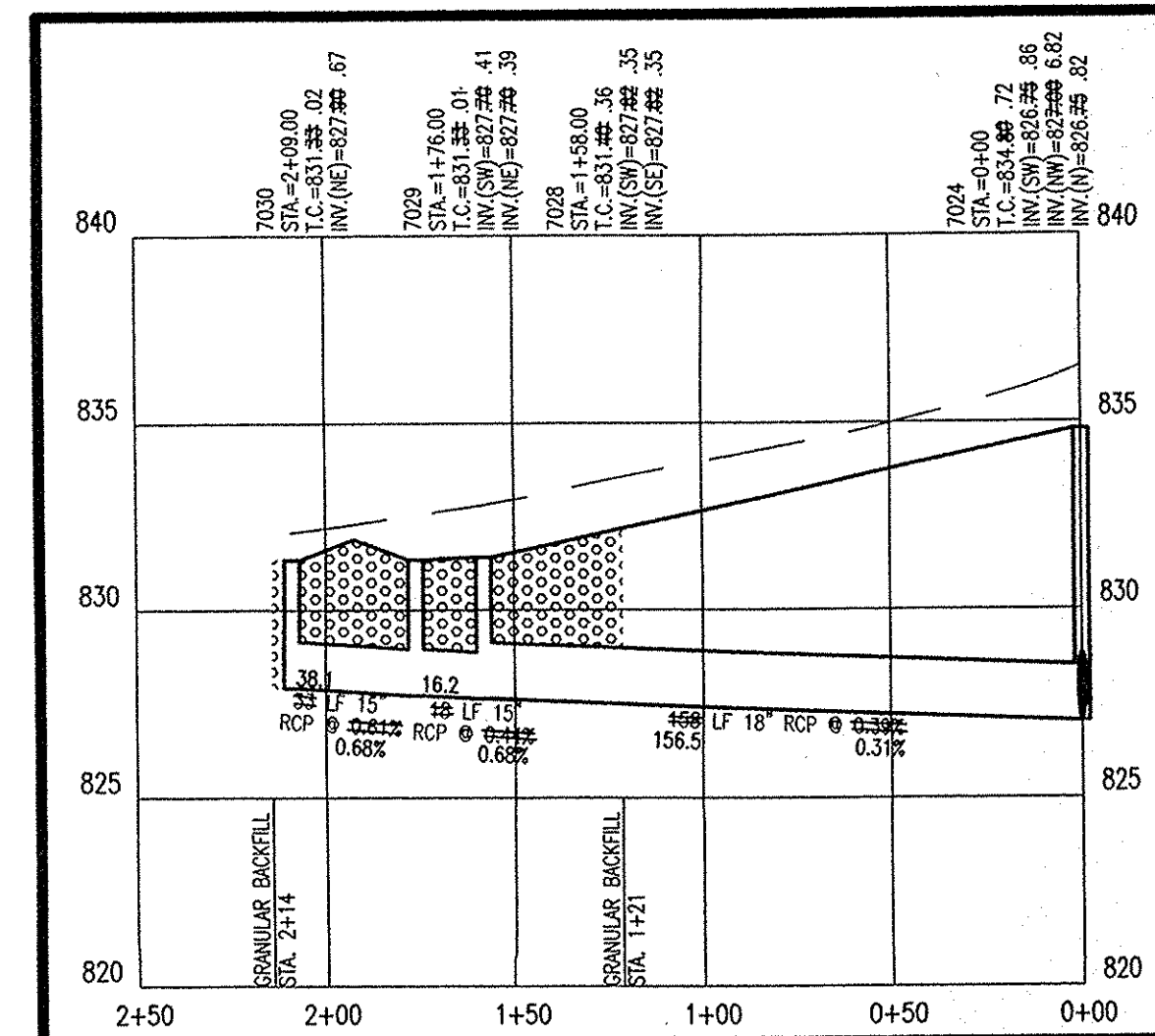
Jeffrey J. Franciski, 1/09/07 Date
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Reg. Land Surveyor, No. LS2010074, State of Indiana

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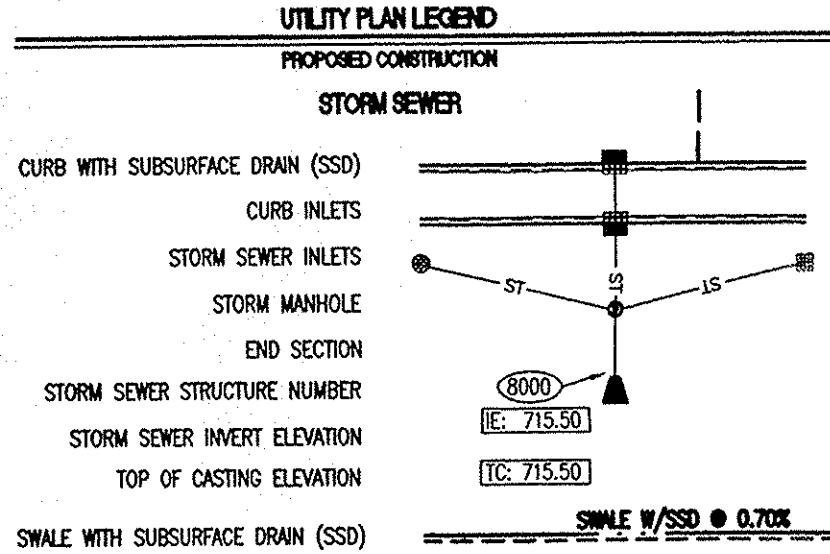
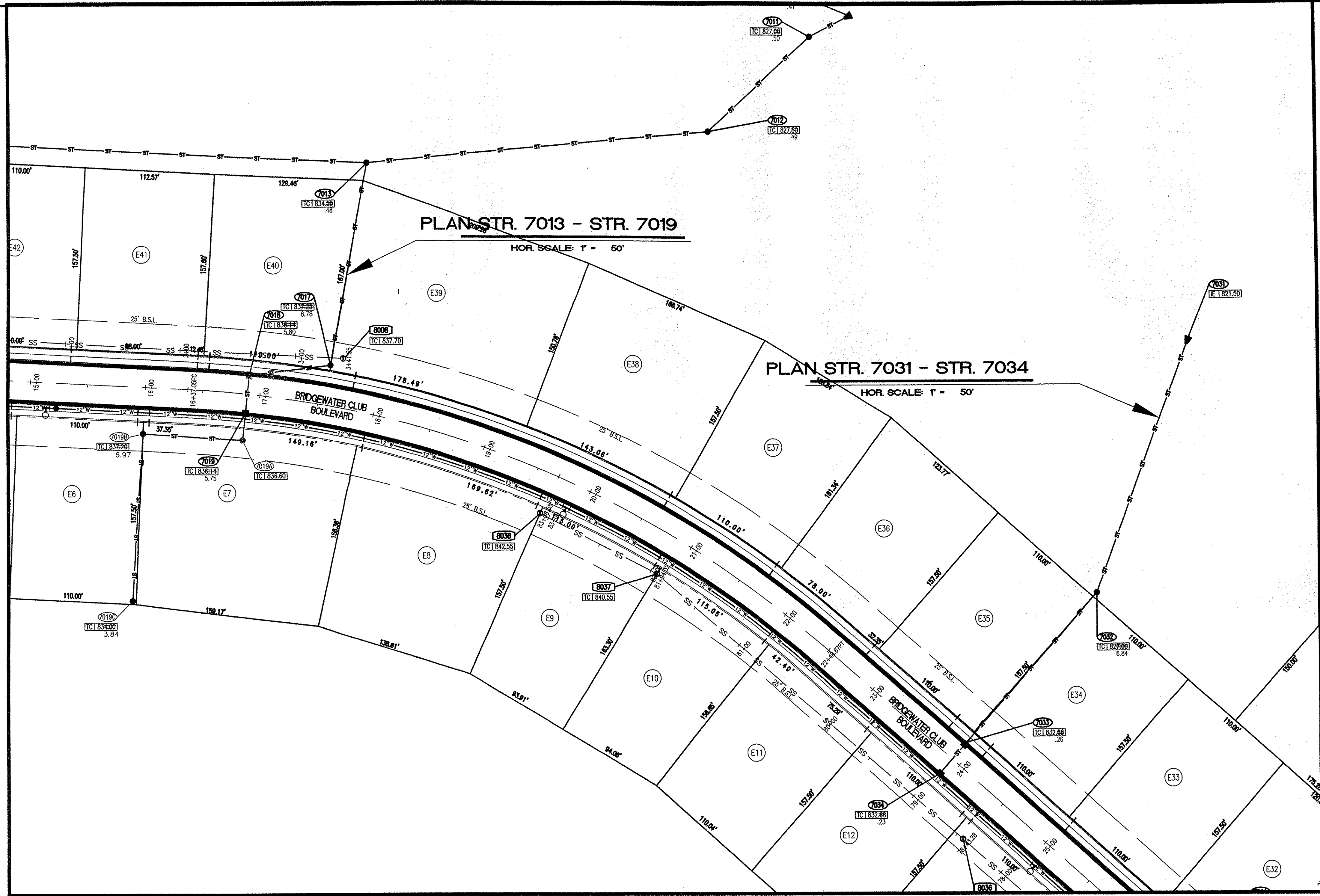


FILED
OCT 12 2005
OFFICE OF HAMILTON COUNTY ENGINEER

POST CONSTRUCTION SURVEY
STORM PLAN AND PROFILE
THE BRIDGEWATER CLUB
SECTIONS 'E' AND 'G3-5'

USI CONSULTANTS, INC.
8415 East 56th Street
INDIANAPOLIS, IN 46216
(317) 544-4996

FILE: 2002-167
SHEET NO.
C703



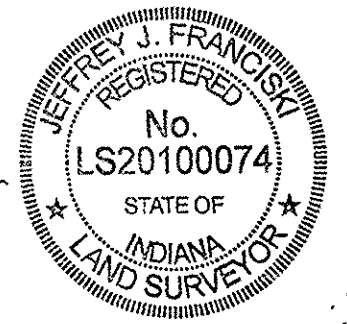
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 Indianapolis, IN 46216

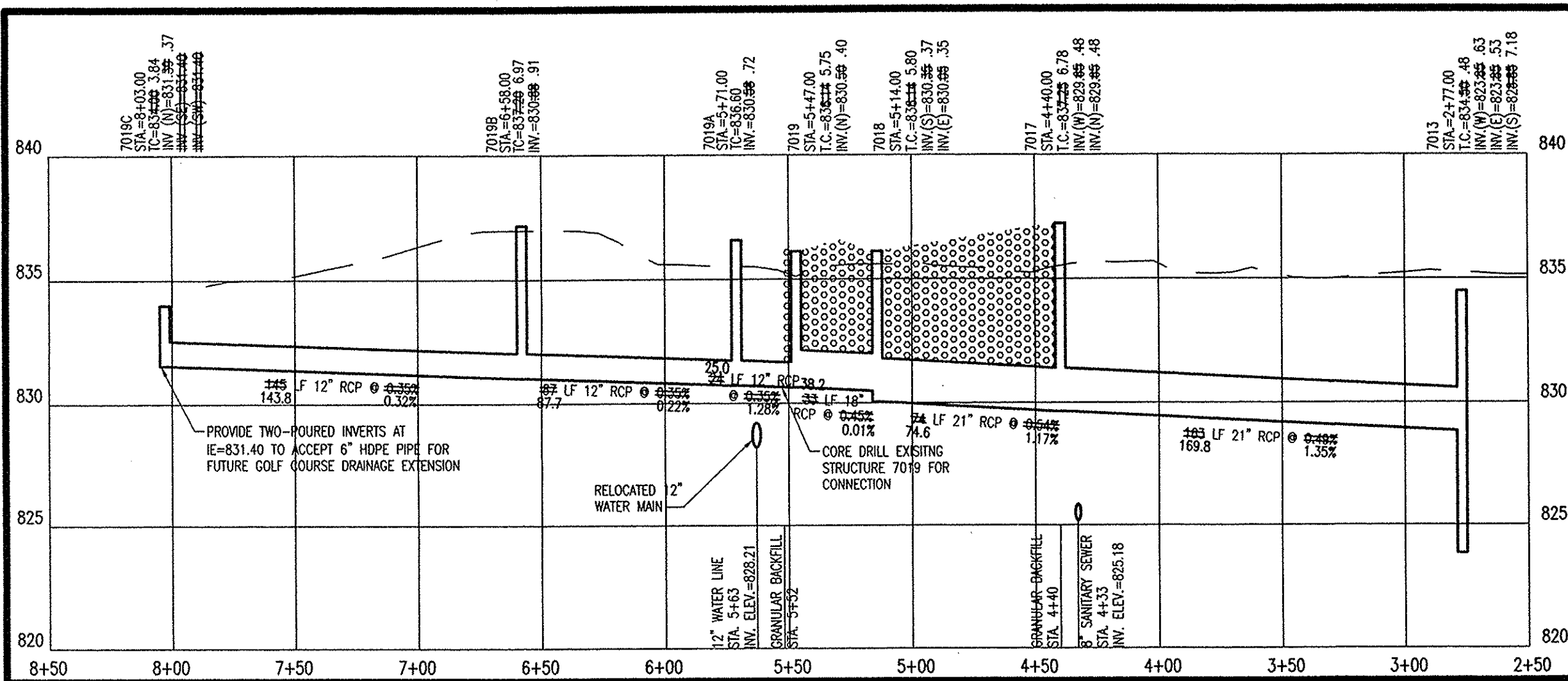
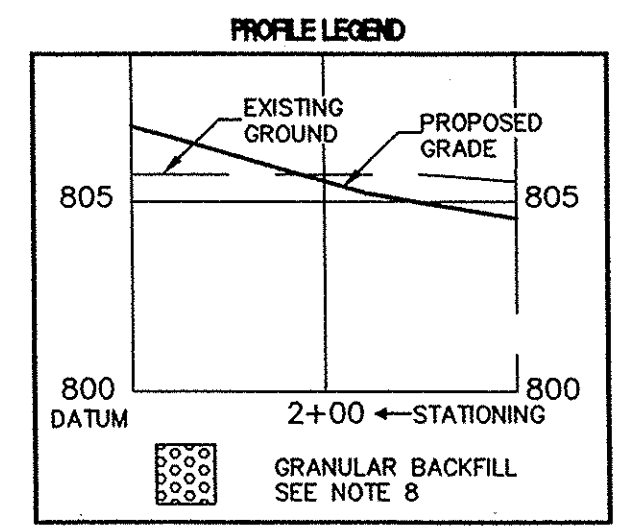
Reg. Land Surveyor
 No. LS20100074
 State of Indiana



STORM SEWER PLAN AND PROFILE NOTES

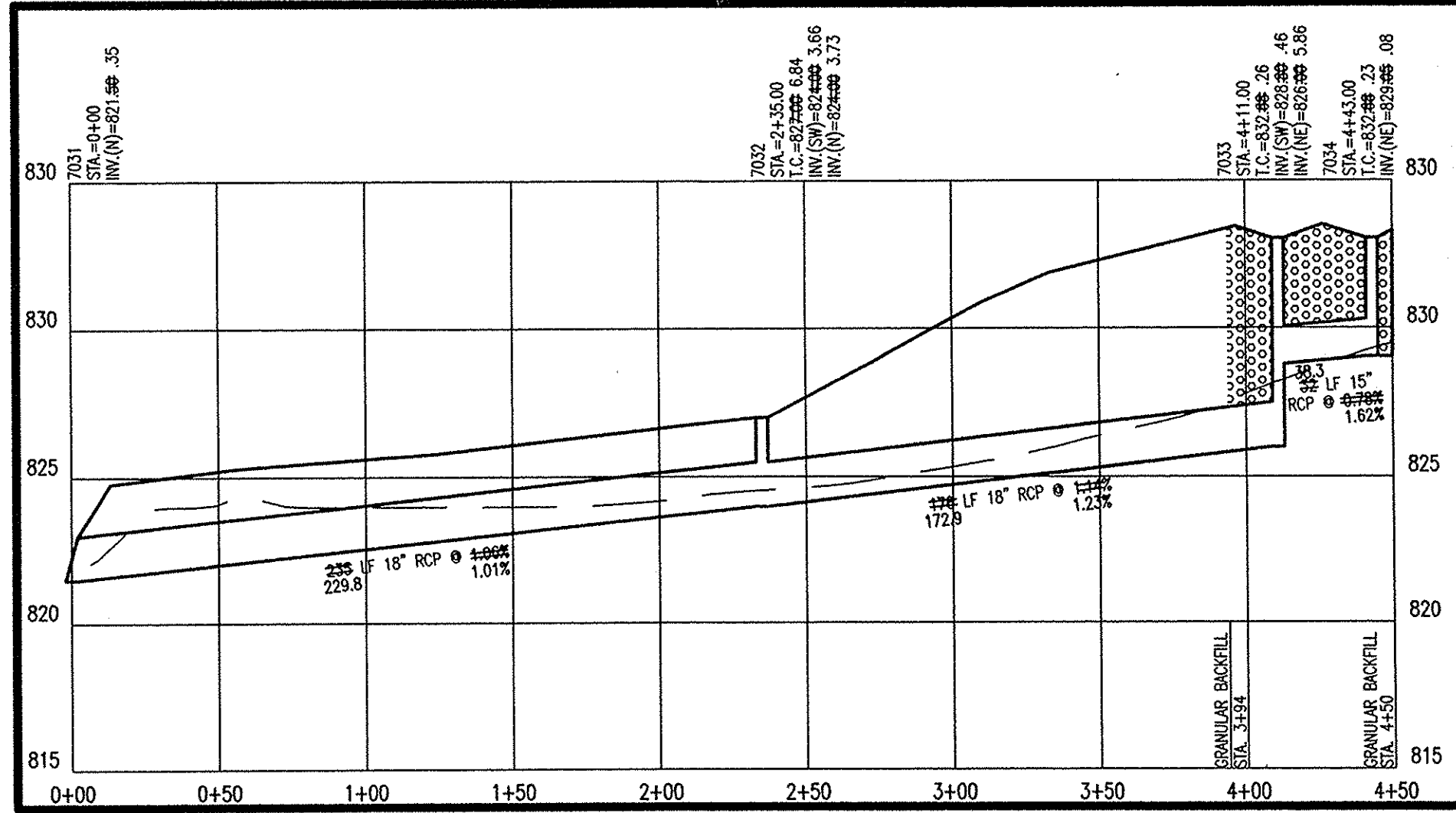
- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29 CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
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- "TO" REFERS TO "TOP OF CASTING"

This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.
 Entry Date: 12-19-07
 Entered By: SLM



PROFILE STR. 7013 - STR. 7019

HOR. SCALE: 1" = 50'
 VER. SCALE: 1" = 5'



PROFILE STR. 7031 - STR. 7034

HOR. SCALE: 1" = 50'
 VER. SCALE: 1" = 5'

SURVEYED: _____
 CHECKED: _____
 DRAWN: _____
 DESIGNED: _____
 SCALE: _____
 DATE: _____
 CERTIFIED BY: _____

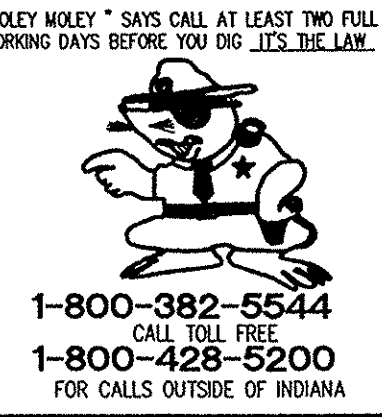
POST CONSTRUCTION SURVEY
 STORM PLAN AND PROFILE
 THE BRIDGEWATER CLUB
 SECTIONS 'E' AND 'G3'-5'

USI CONSULTANTS, INC
 8415 East 56th Street
 INDIANAPOLIS, IN 46216
 (317) 544-4996

FILE: 2002-167

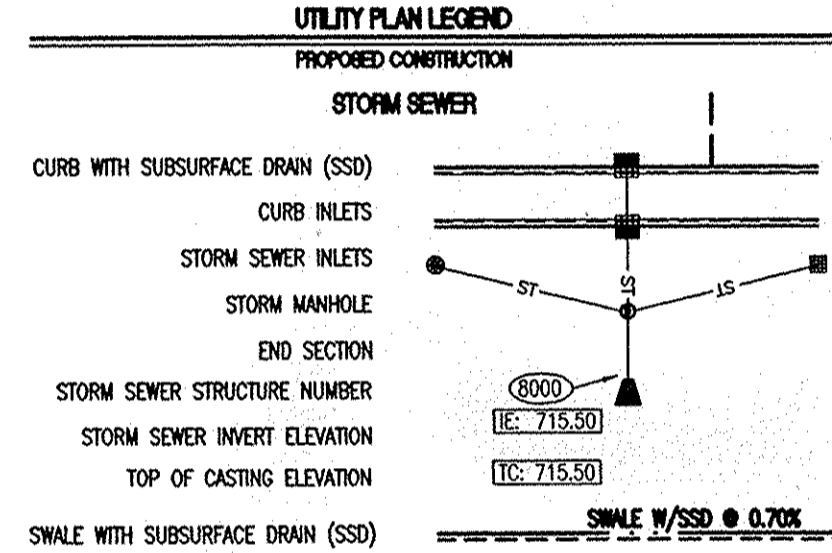
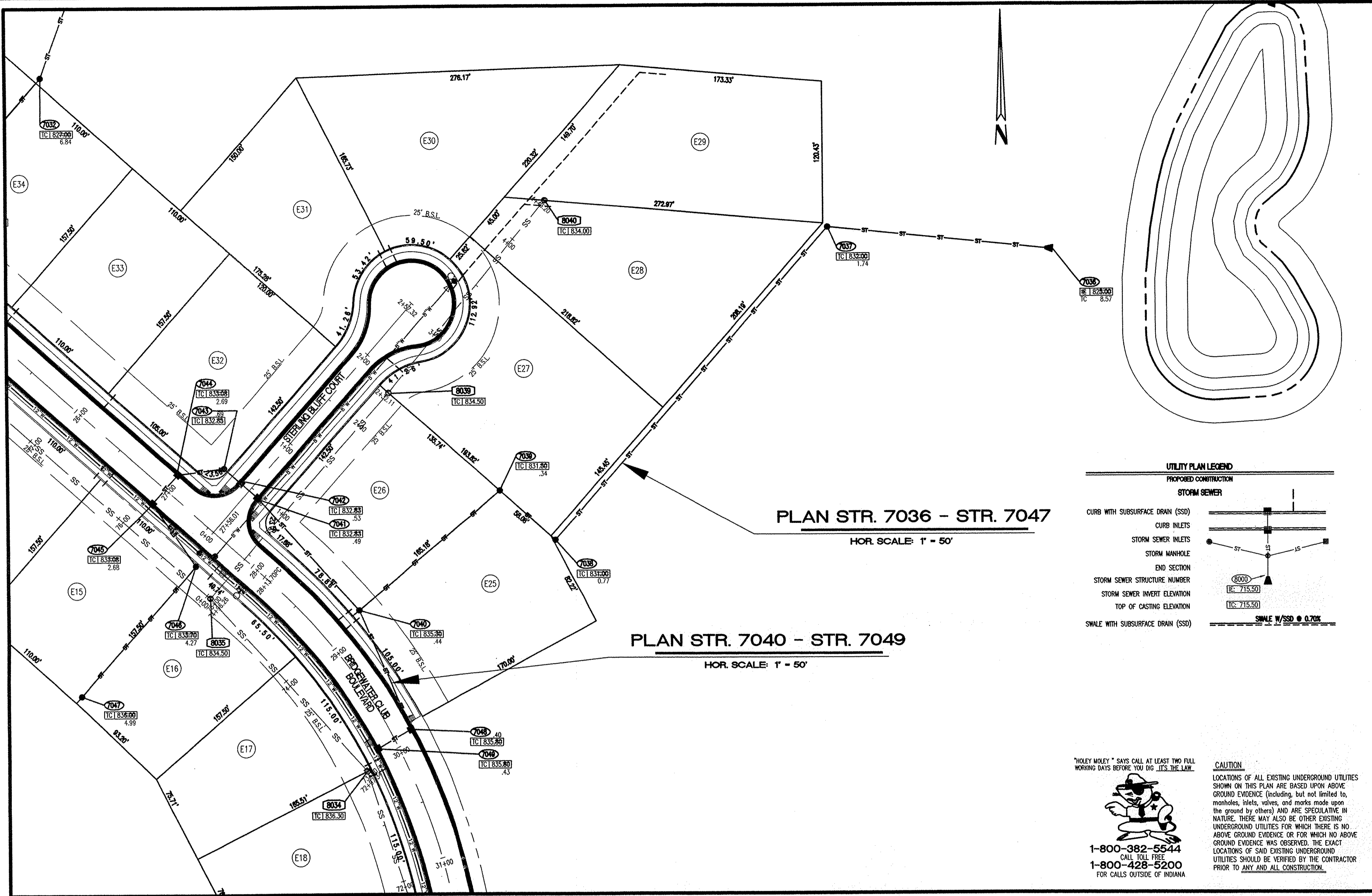
SHEET NO.

C704



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

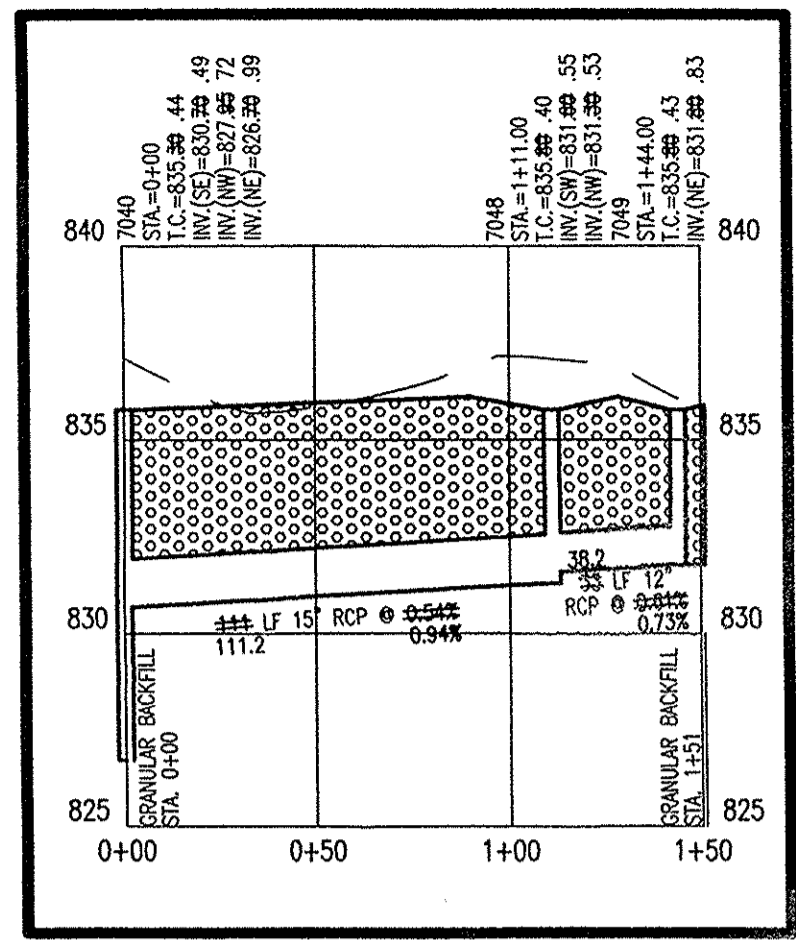
CAUTION
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PROFILE STR. 7040 - STR. 7047

HOR. SCALE: 1" = 50'
VER. SCALE: 1" = 5'

POST CONSTRUCTION SURVEY

Record Drawing only for the top of casting, invert elevations, and length of pipe. Slope percentage represents a calculated figure and is for general information only. Distances are measured center of structure to center of structure.

Jeffrey J. Franciski
Jeffrey J. Franciski Date

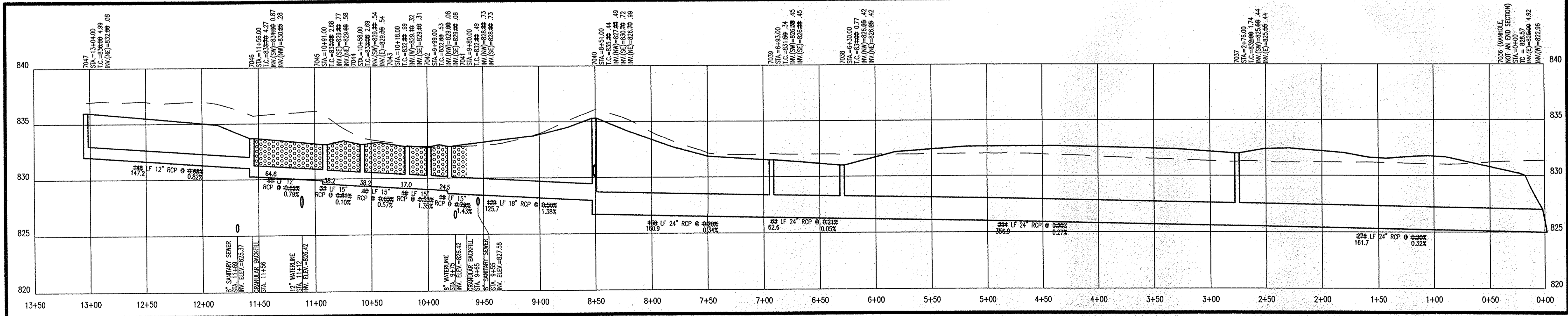
USI Consultants
8415 East 56th St.
Indianapolis, IN 46216

Reg. Land Surveyor
No. LS2010074
State of Indiana



STORM SEWER PLAN AND PROFILE NOTES:

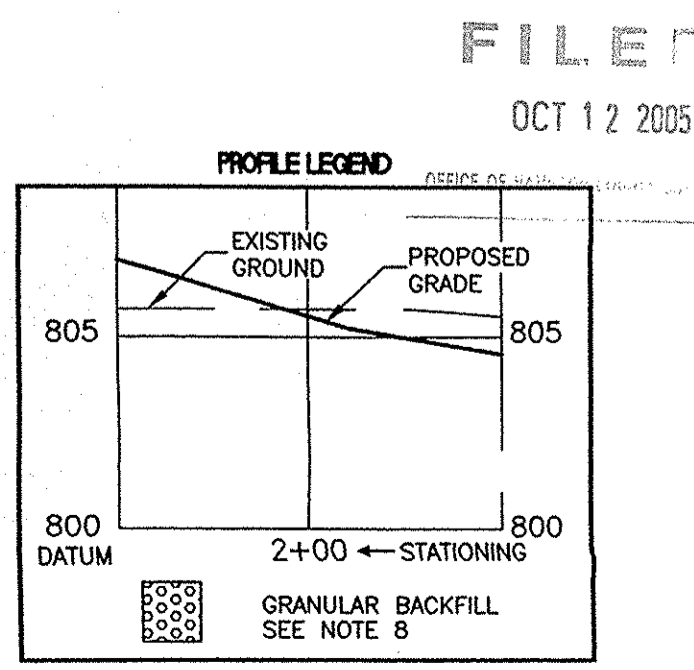
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- "C" REFERS TO "TOP OF CASTING"



PROFILE STR. 7034 - STR. 7047

HOR. SCALE: 1" = 50'
VER. SCALE: 1" = 5'

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Entered By: SLM



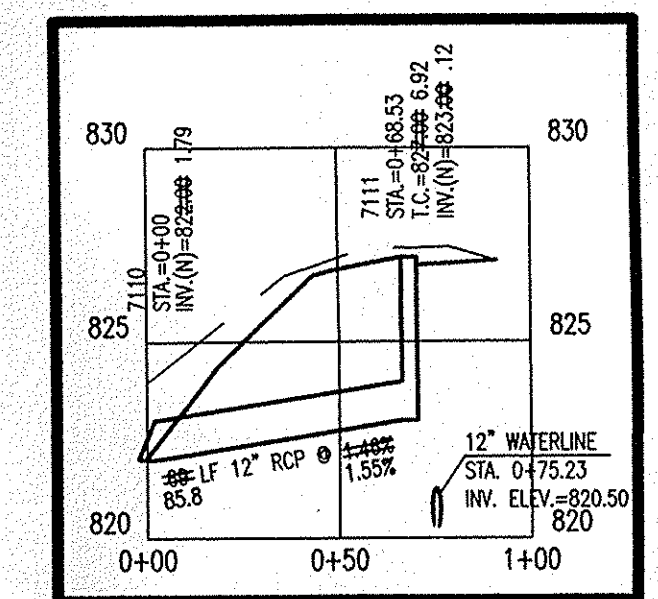
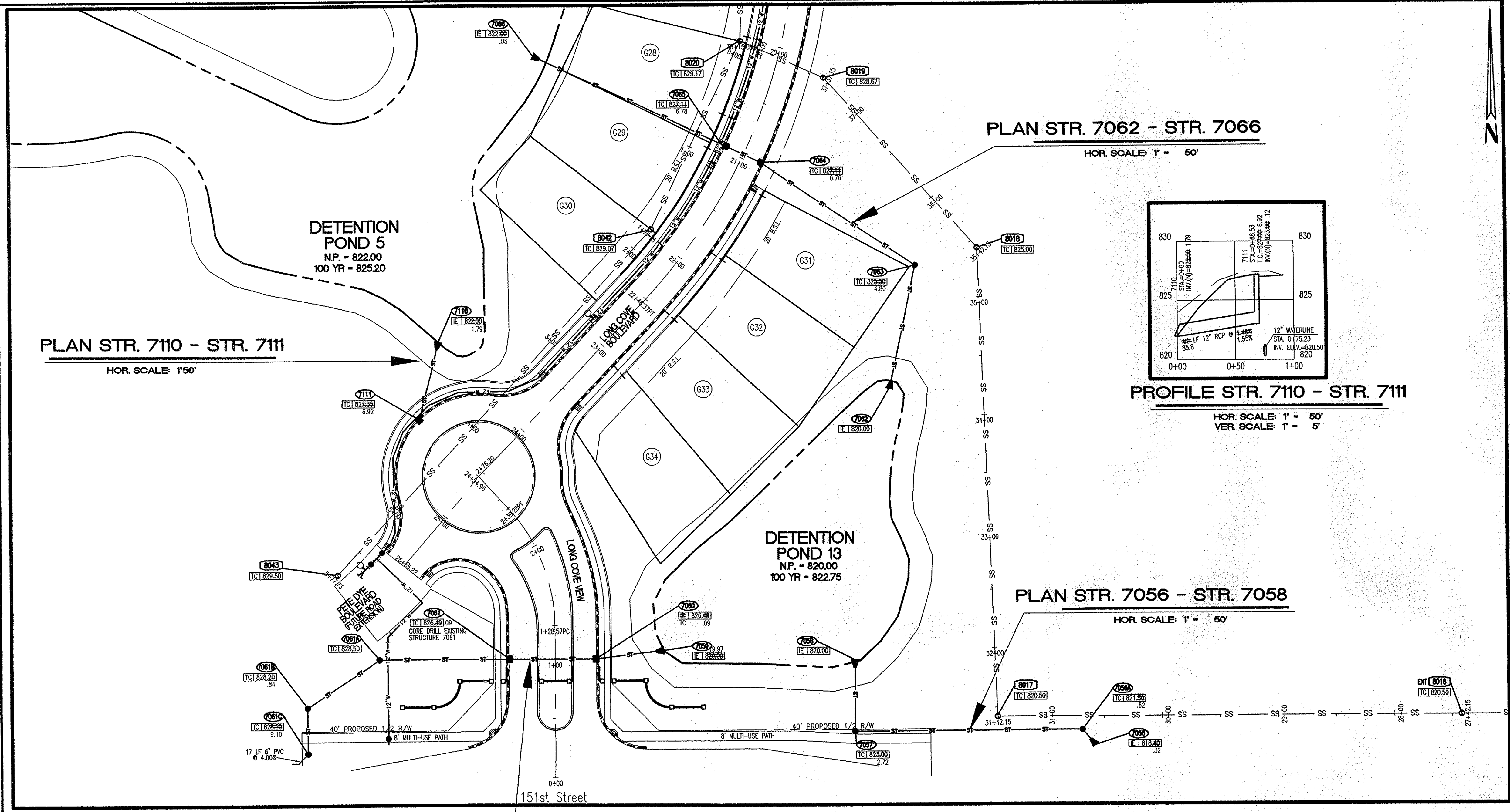
POST CONSTRUCTION SURVEY
STORM PLAN AND PROFILE
THE BRIDGEWATER CLUB
SECTIONS 'E' AND 'C3-5'

USI CONSULTANTS, INC
8415 East 56th Street
INDIANAPOLIS, IN 46216
(317) 544-4996

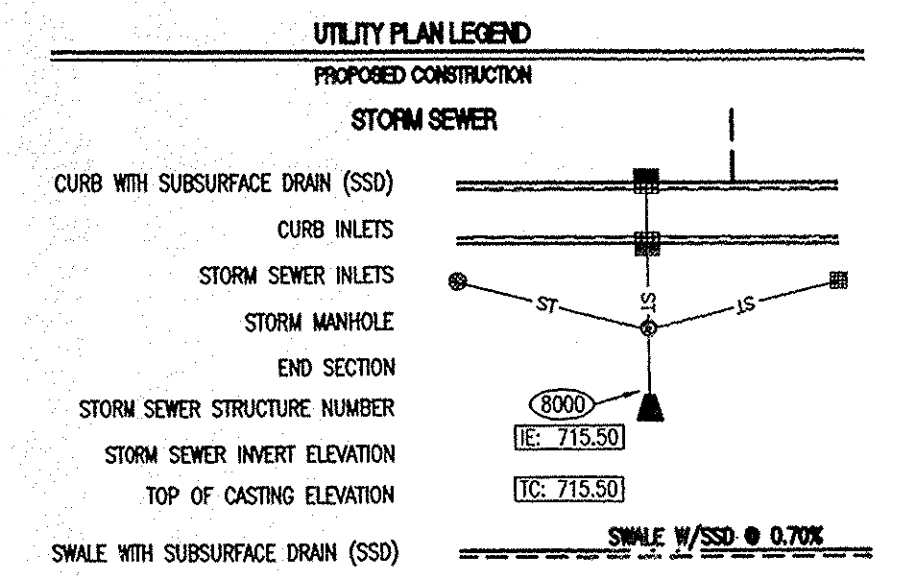
FILE: 2002-167

SHEET NO.

C705



- STORM SEWER PLAN AND PROFILE NOTES**
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 - "T.C." REFERS TO "TOP OF CASTING"



POST CONSTRUCTION SURVEY

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Jeffrey J. Frankicki 1/09/04 Date
Jeffrey J. Frankicki

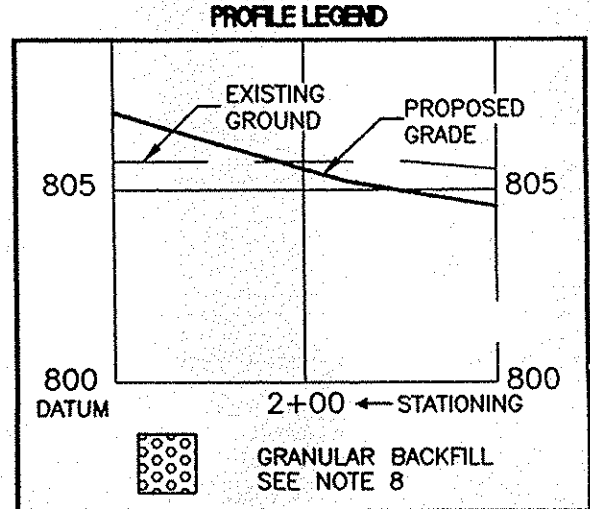
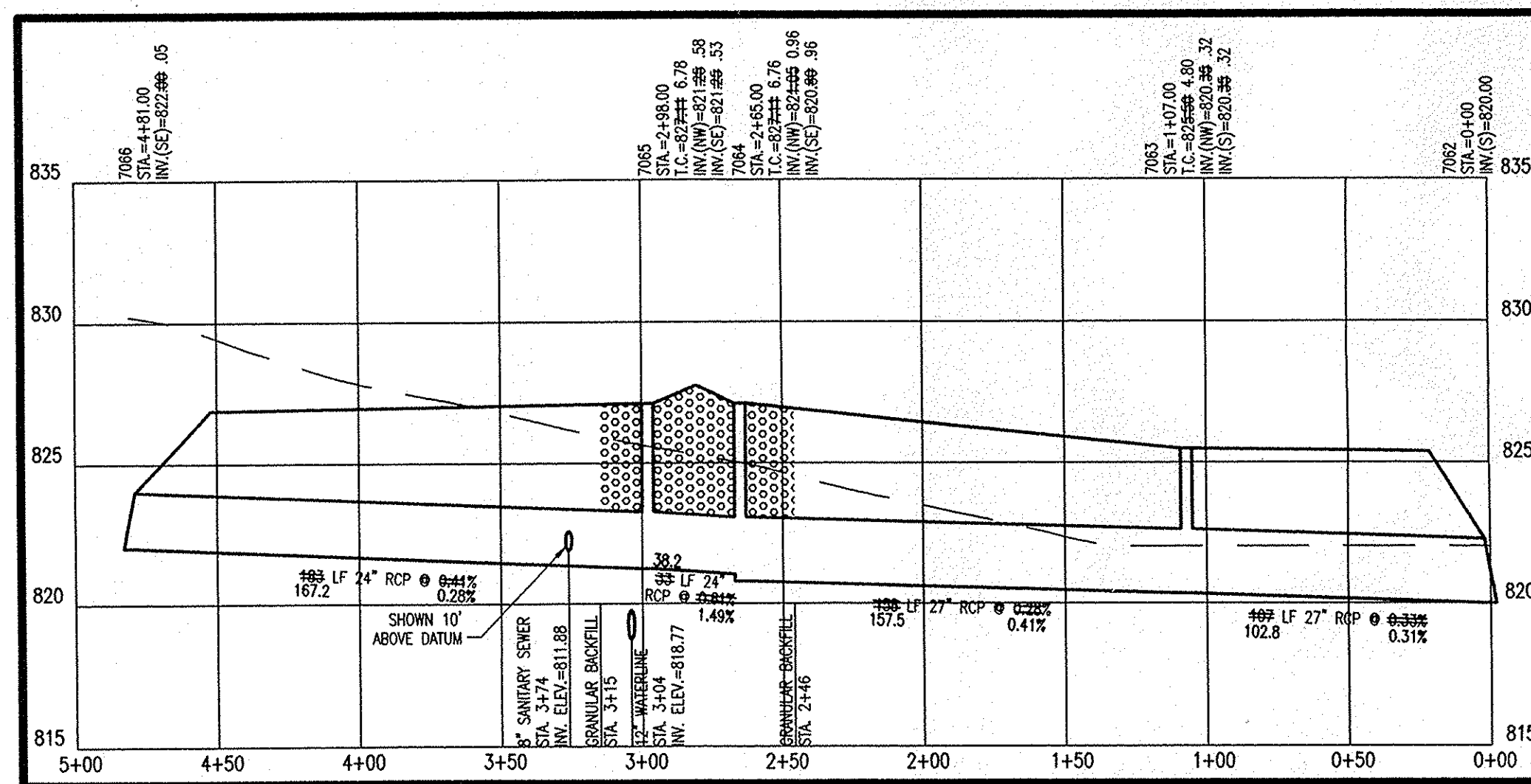
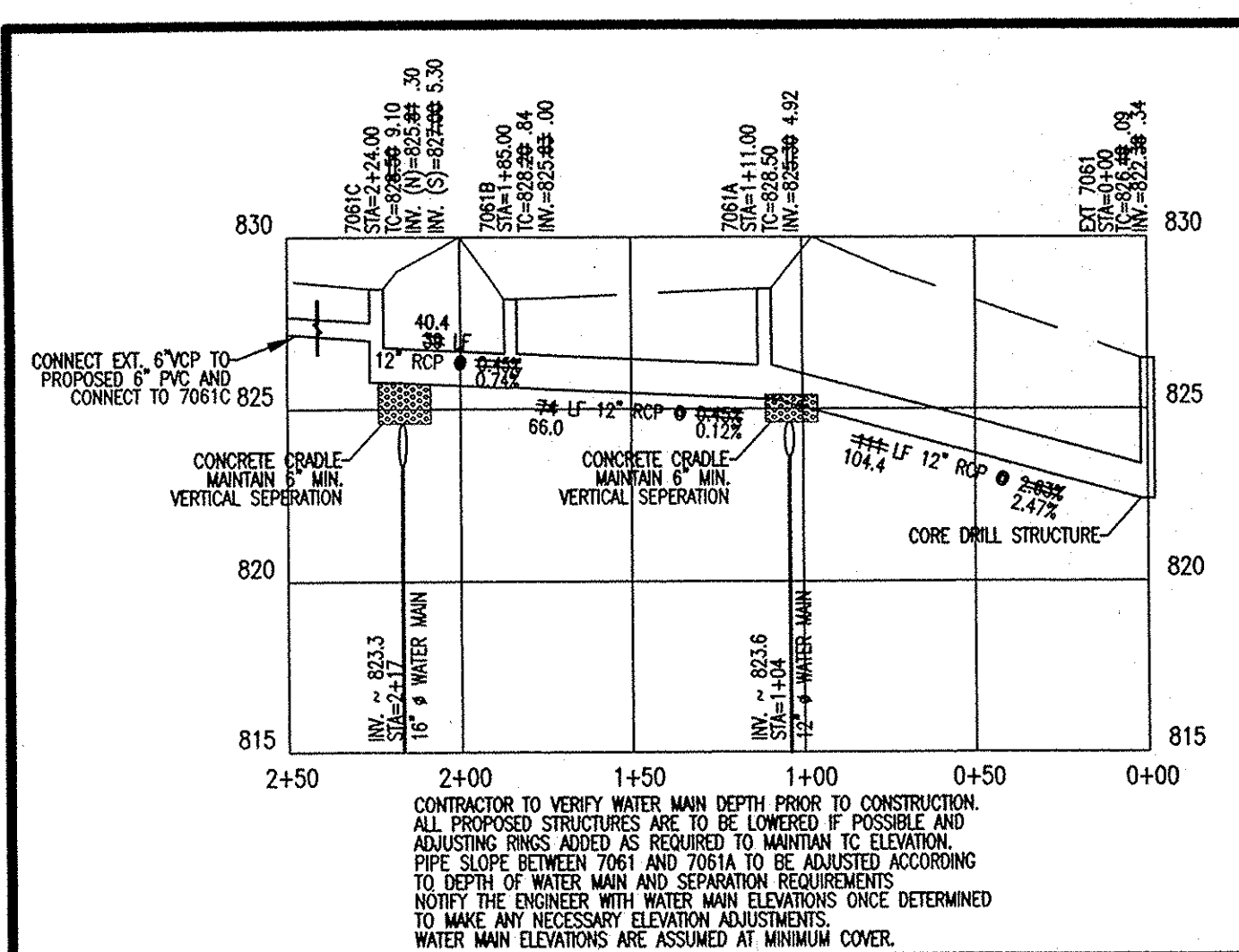
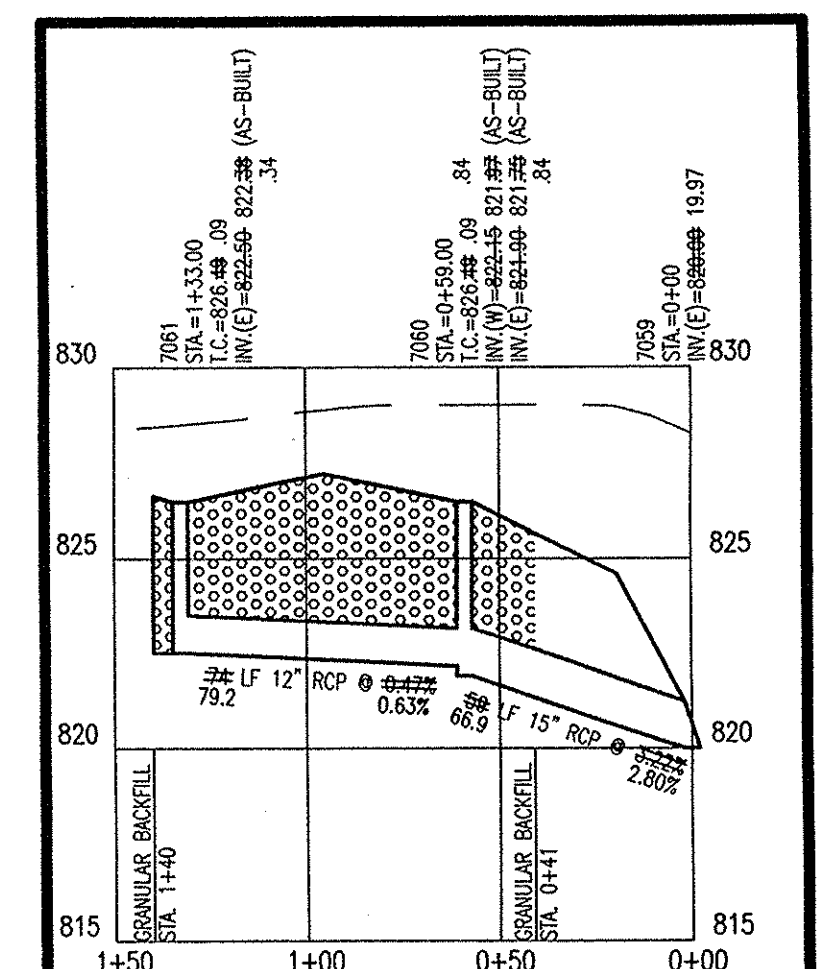
USI Consultants
8415 East 56th St.
Indianapolis, IN 46216

Reg. Land Surveyor
No. LS20100074
State of Indiana

STATE OF INDIANA
REGISTERED LAND SURVEYOR
No. LS20100074

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Entered By: SLM

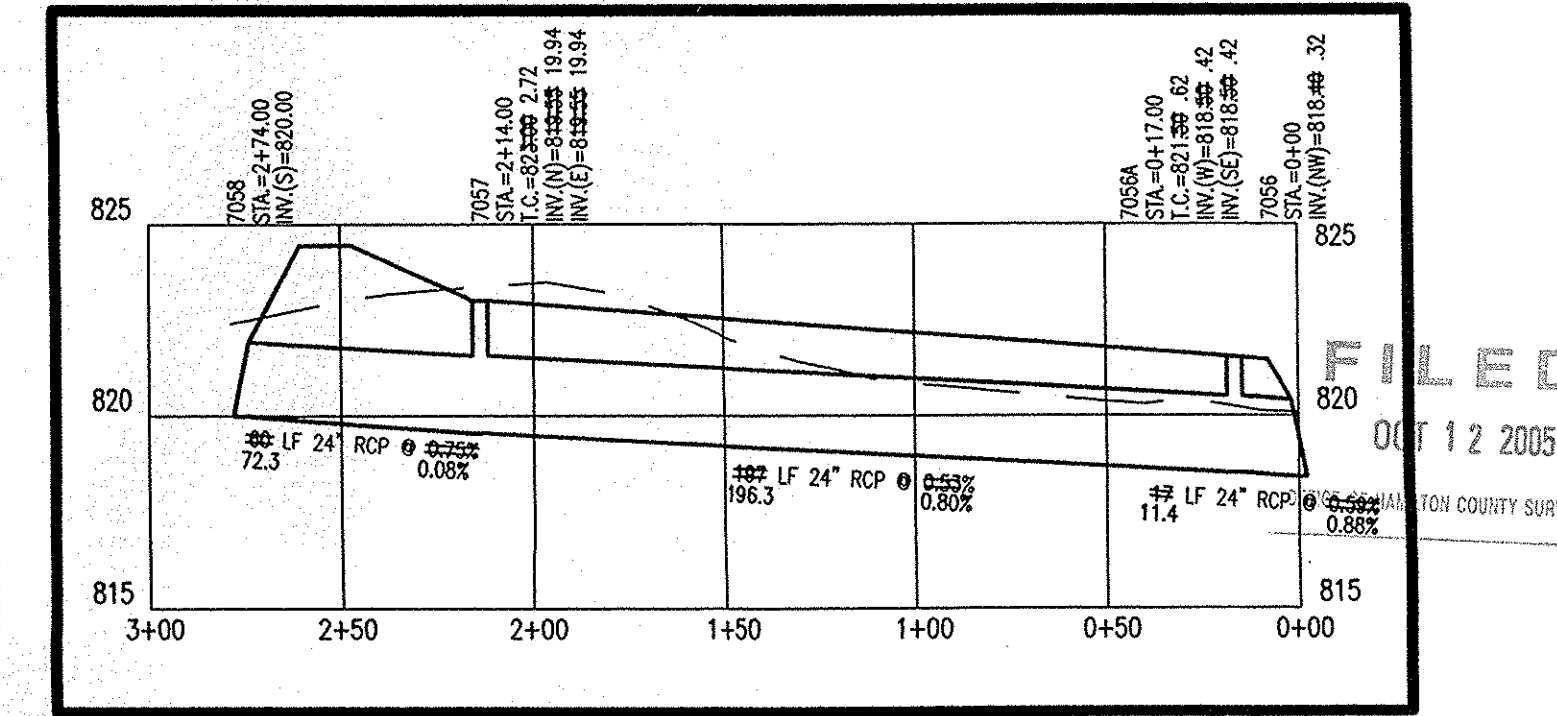


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1-800-382-5544
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FOR CALLS OUTSIDE OF INDIANA



PROFILE STR. 7059 - STR. 7061
HOR. SCALE: 1" = 50'
VER. SCALE: 1" = 5'

PROFILE STR. 7061 - STR. 7061C
HOR. SCALE: 1" = 50'
VER. SCALE: 1" = 5'

PROFILE STR. 7062 - STR. 7066
HOR. SCALE: 1" = 50'
VER. SCALE: 1" = 5'

PROFILE STR. 7056 - STR. 7058
HOR. SCALE: 1" = 50'
VER. SCALE: 1" = 5'

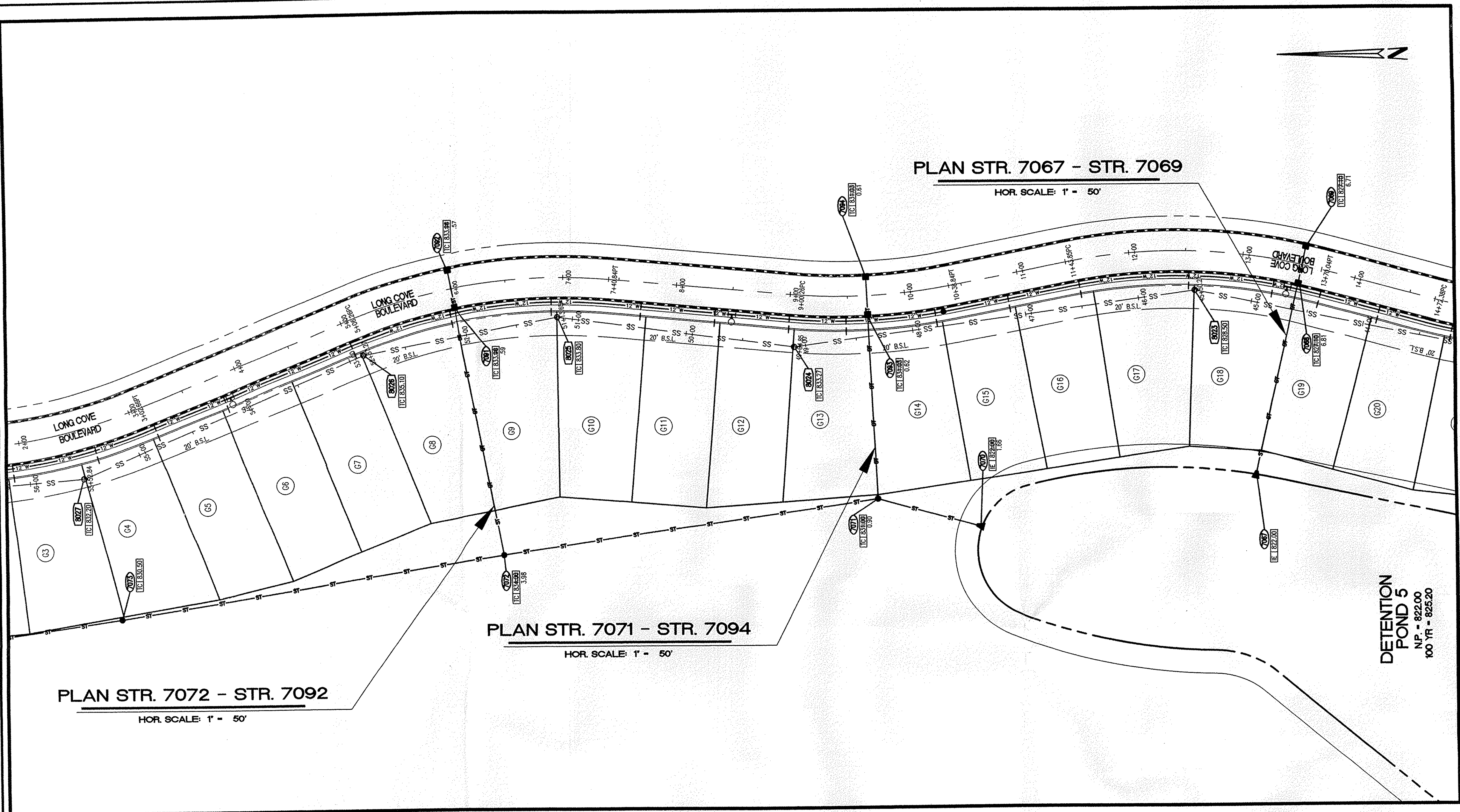
DESIGNED: _____
CHECKED: _____
SCALE: _____
DATE: _____
SURVEYED: _____
DRAWN: _____
CHECKED: _____
DATE: _____
CERTIFIED BY: _____

POST CONSTRUCTION SURVEY
STORM PLAN AND PROFILE
THE BRIDGEWATER CLUB
SECTIONS 'E' AND 'G3-5'

USI CONSULTANTS, INC
8415 East 56th Street
INDIANAPOLIS, IN 46216
(317) 544-4996

FILE: 2002-167
SHEET NO. C706

FILED
DEC 12 2005
HAMILTON COUNTY SURVEYOR

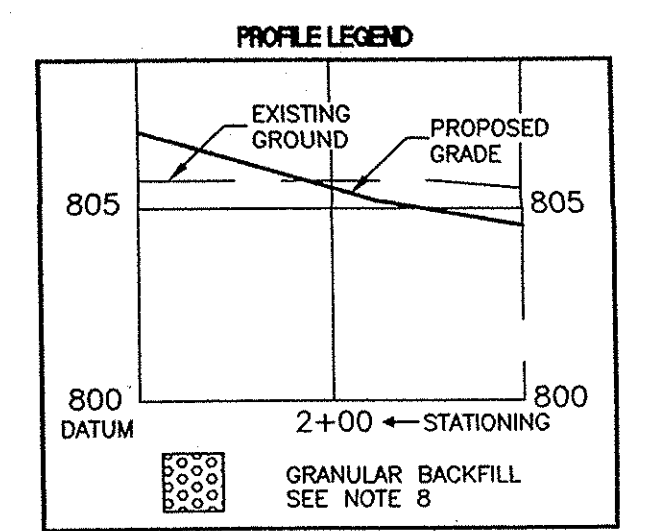
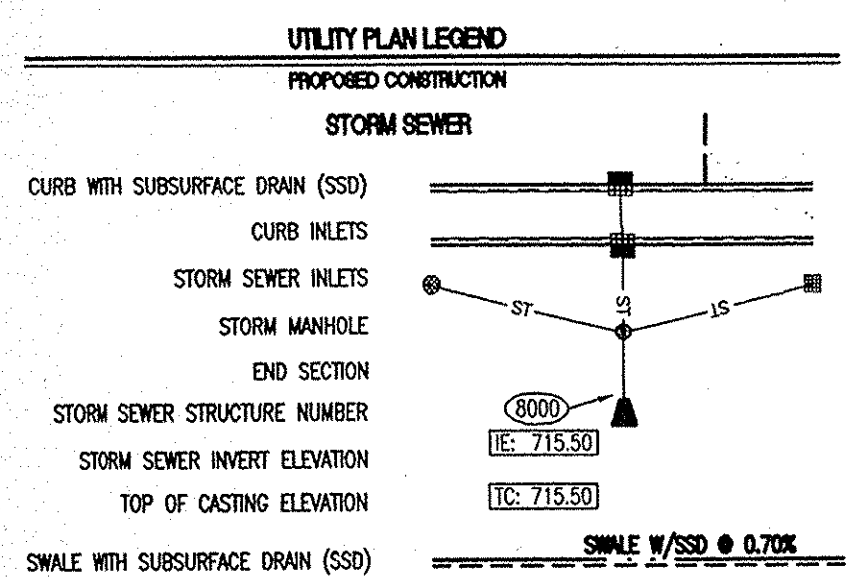


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POST CONSTRUCTION SURVEY
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Jeffrey J. Francis
 Date: 12/19/07

Reg. Land Surveyor
 No. LS20100074
 State of Indiana



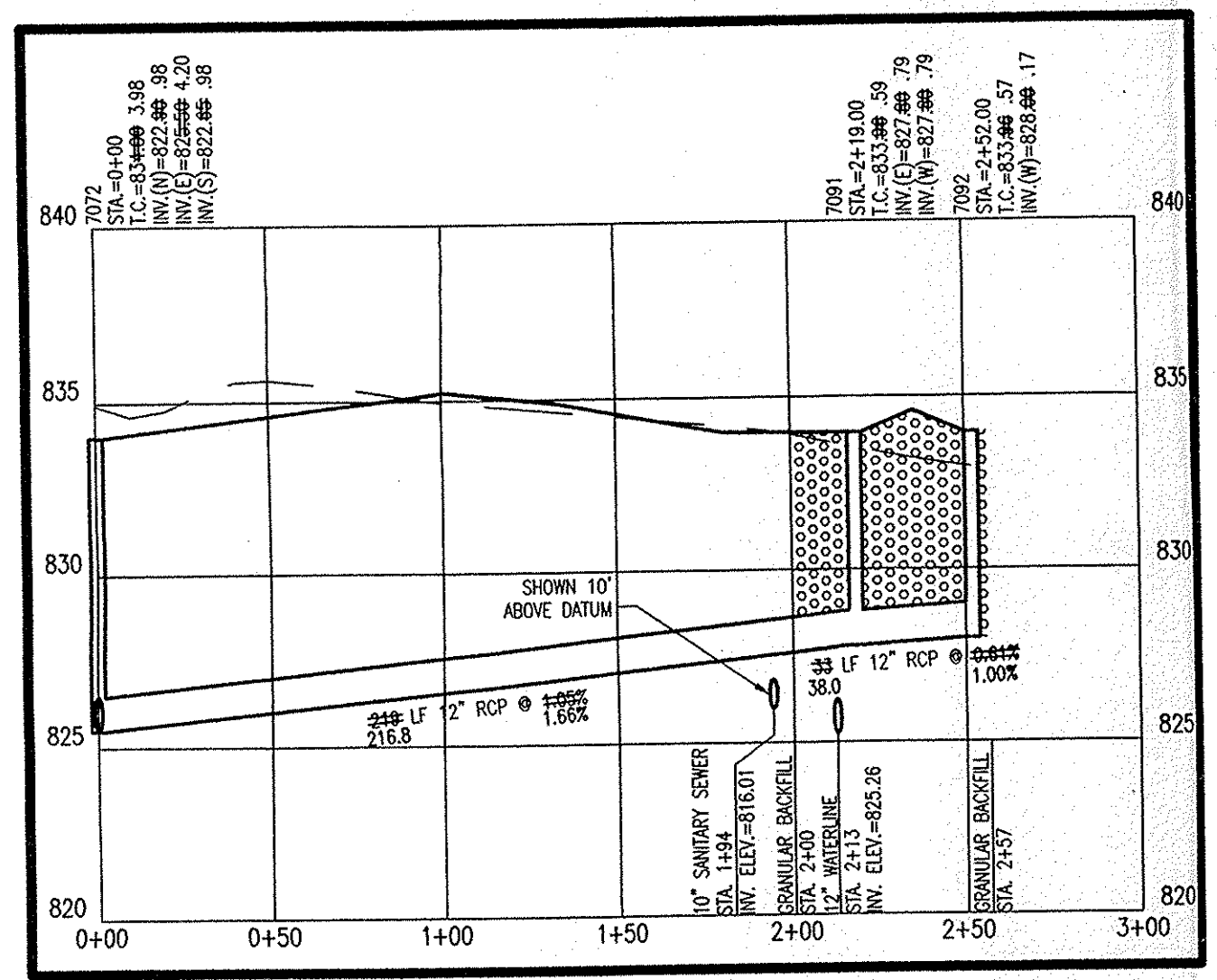
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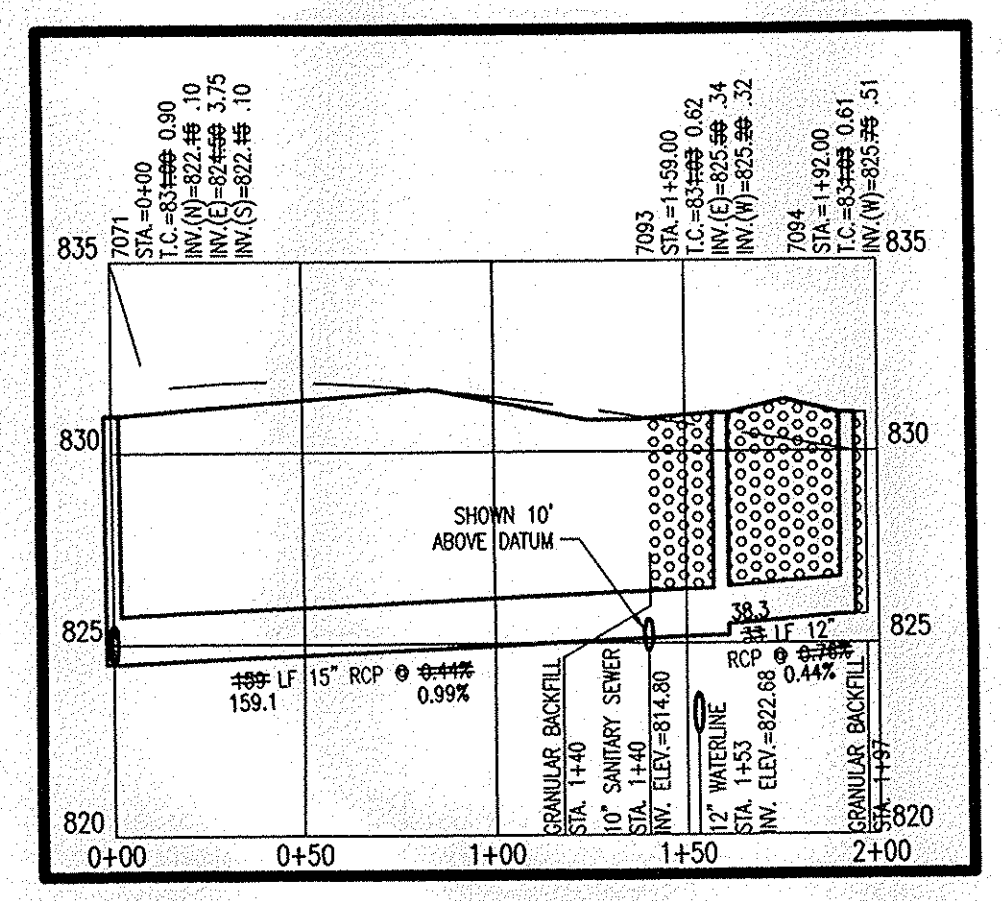
PLAN STR. 7072 - STR. 7092
 HOR. SCALE: 1" = 50'

PLAN STR. 7071 - STR. 7094
 HOR. SCALE: 1" = 50'

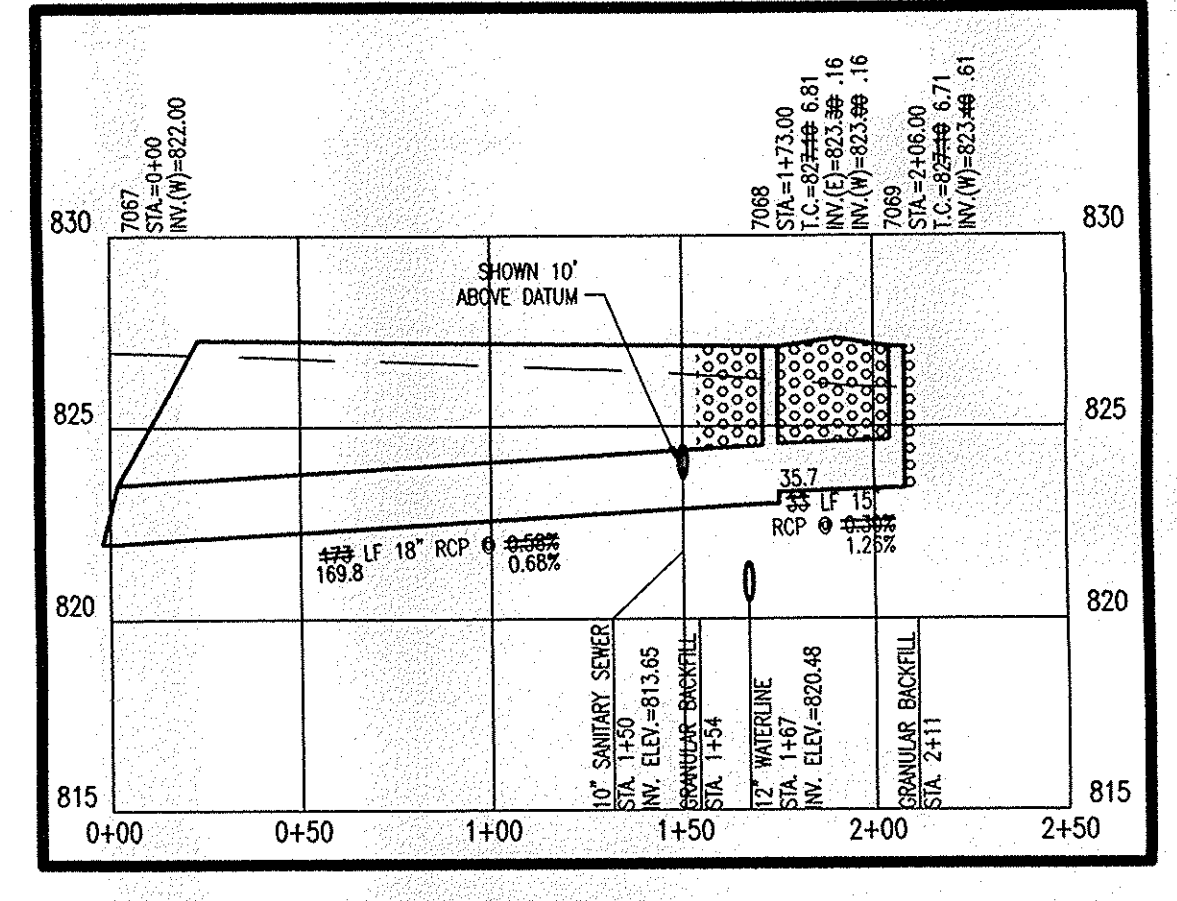
PLAN STR. 7067 - STR. 7069
 HOR. SCALE: 1" = 50'



PROFILE STR. 7072 - STR. 7092
 HOR. SCALE: 1" = 50'
 VER. SCALE: 1" = 5'



PROFILE STR. 7071 - STR. 7094
 HOR. SCALE: 1" = 50'
 VER. SCALE: 1" = 5'



PROFILE STR. 7067 - STR. 7069
 HOR. SCALE: 1" = 50'
 VER. SCALE: 1" = 5'

POST CONSTRUCTION SURVEY
 STORM PLAN AND PROFILE
 THE BRIDGEWATER CLUB
 SECTIONS 'E' AND 'G3-5'

USI CONSULTANTS, INC
 8415 East 56th Street
 INDIANAPOLIS, IN 46216
 (317) 544-4996

FILE: 2002-167

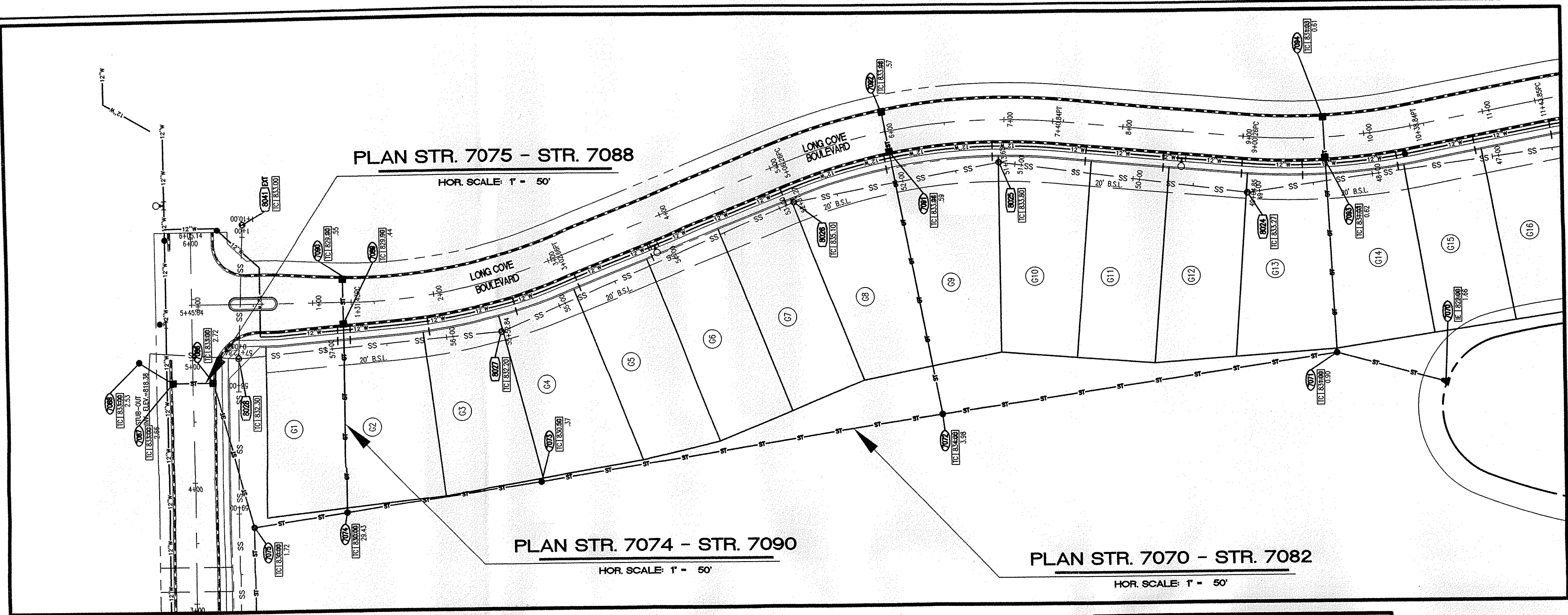
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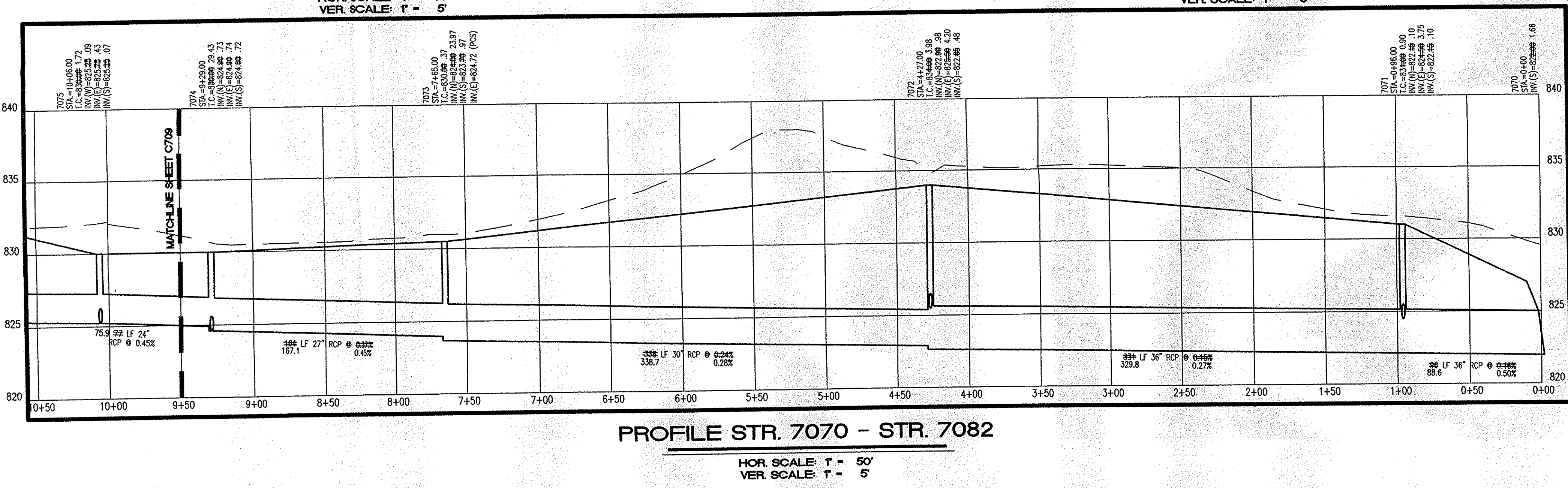
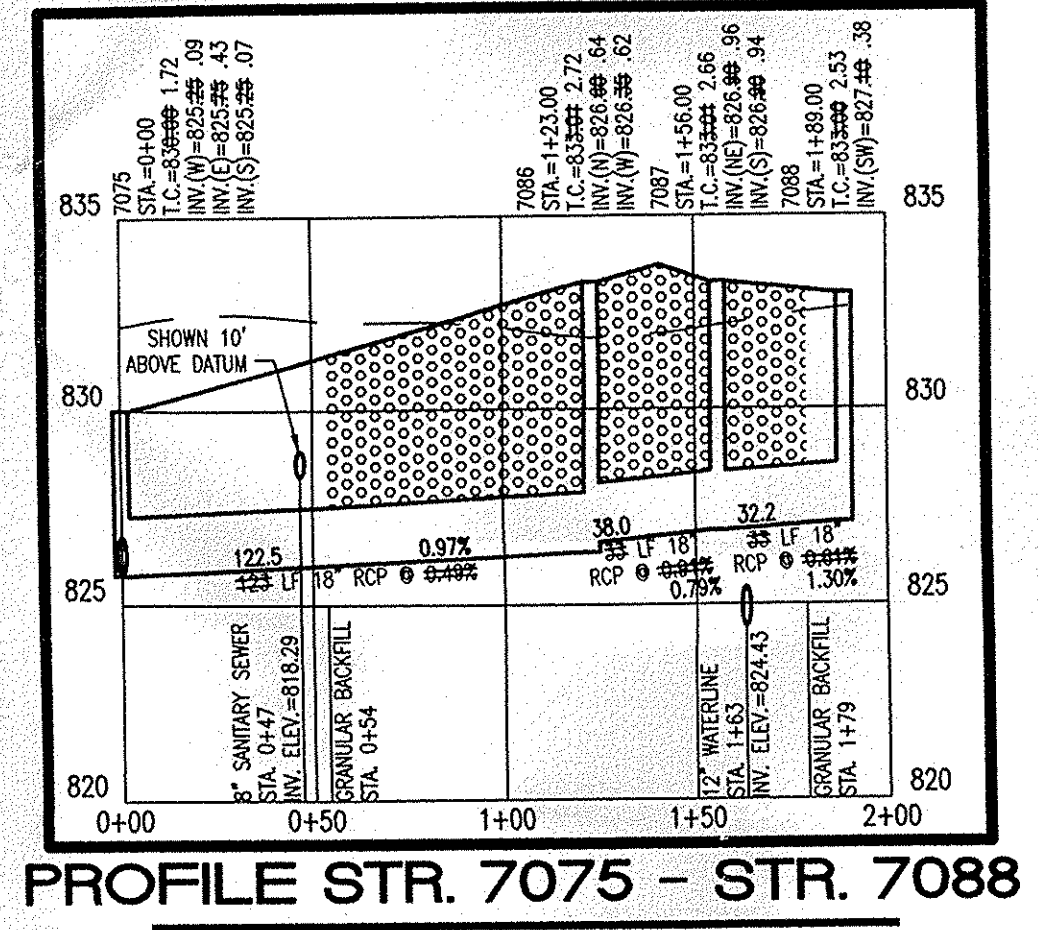
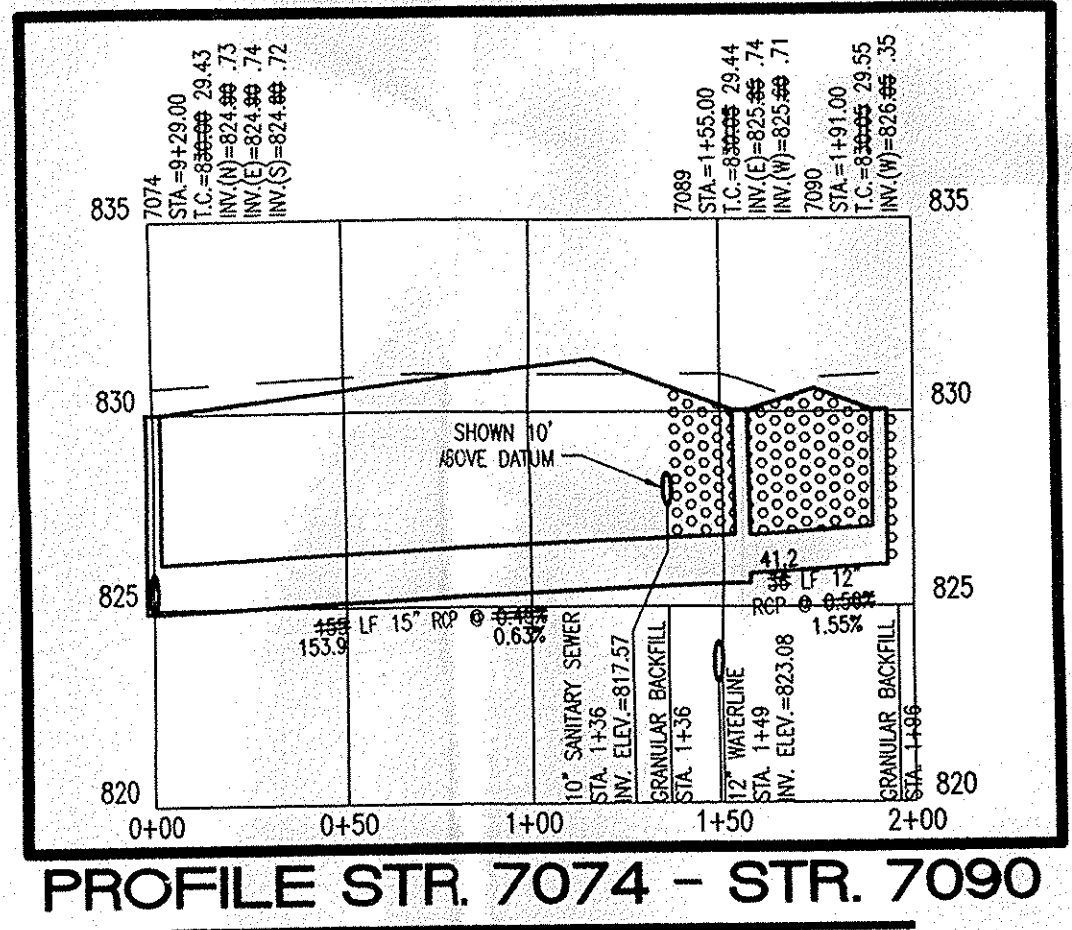
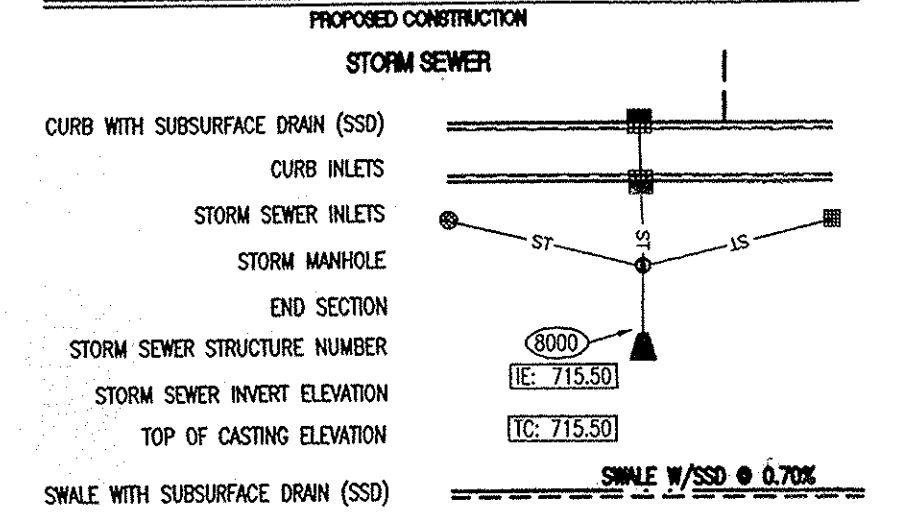
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UTILITY PLAN LEGEND



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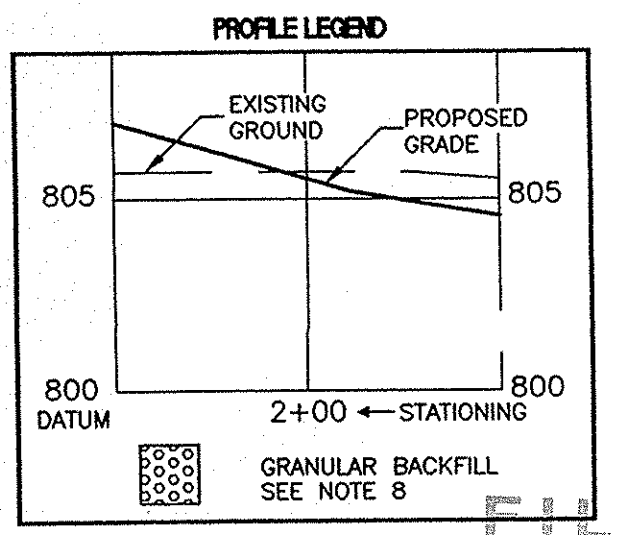
Jeffrey J. Franciski
Jeffrey J. Franciski Date: 1/09/04

USI Consultants
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No. LS20100074
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CAUTION
OFFICE OF HAMILTON COUNTY SURVEYING
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.

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OCT 12 2005

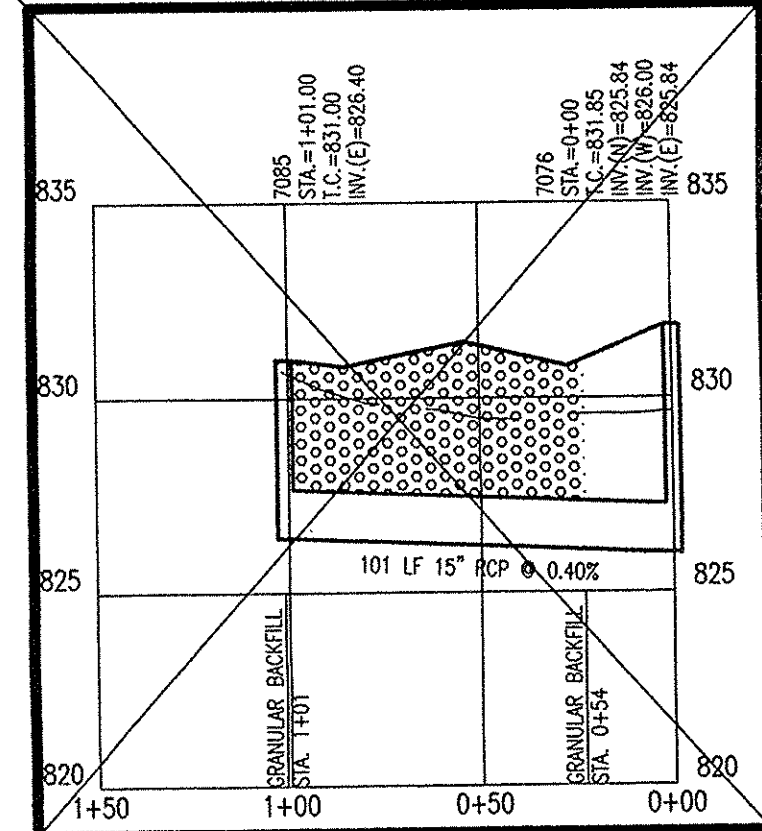
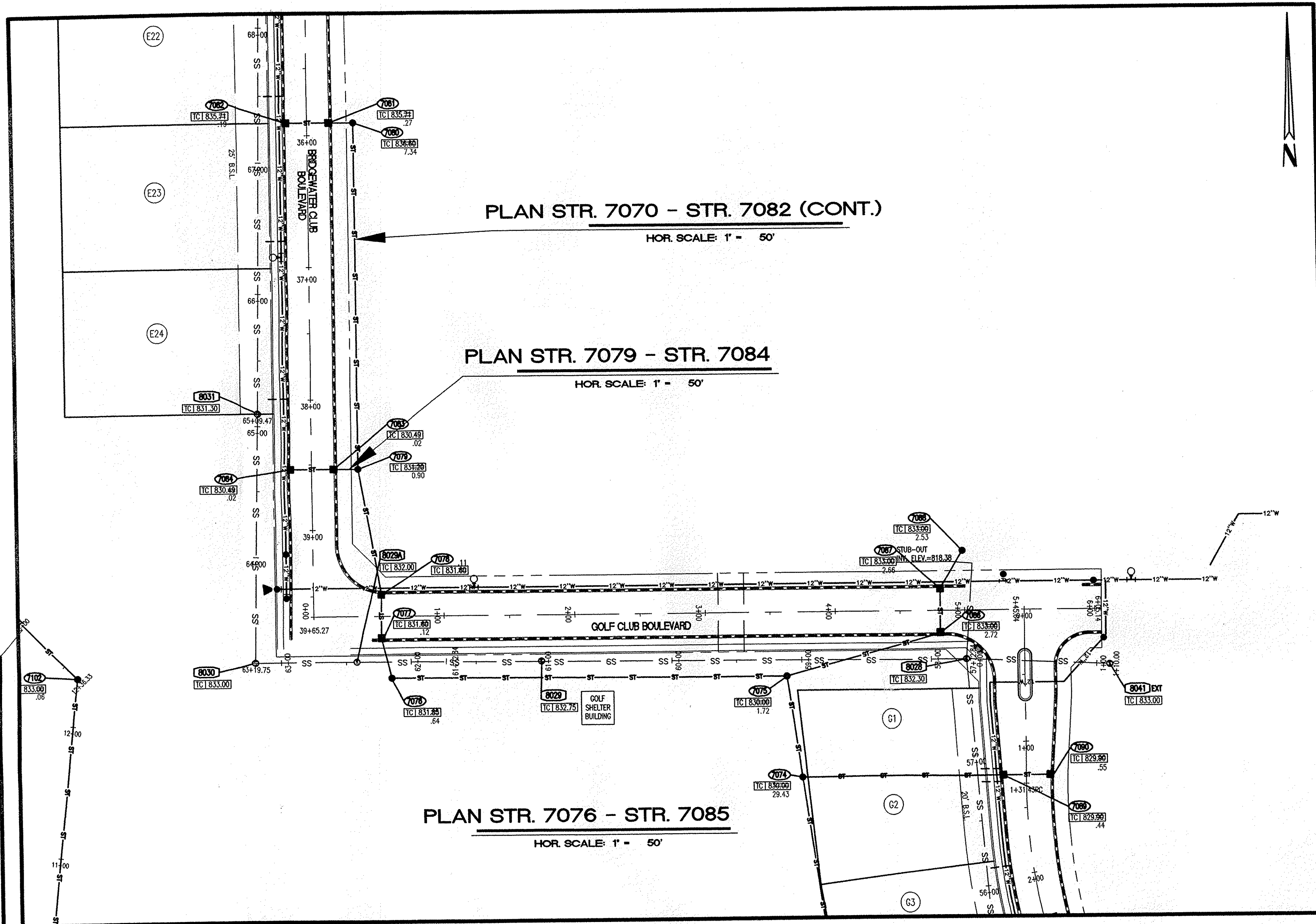
POST CONSTRUCTION SURVEY
STORM PLAN AND PROFILE
THE BRIDGEWATER CLUB
SECTIONS 'E' AND 'G3-5'

USI CONSULTANTS, INC
8415 East 56th Street
INDIANAPOLIS, IN 46216
(317) 544-4996

FILE: 2002-167

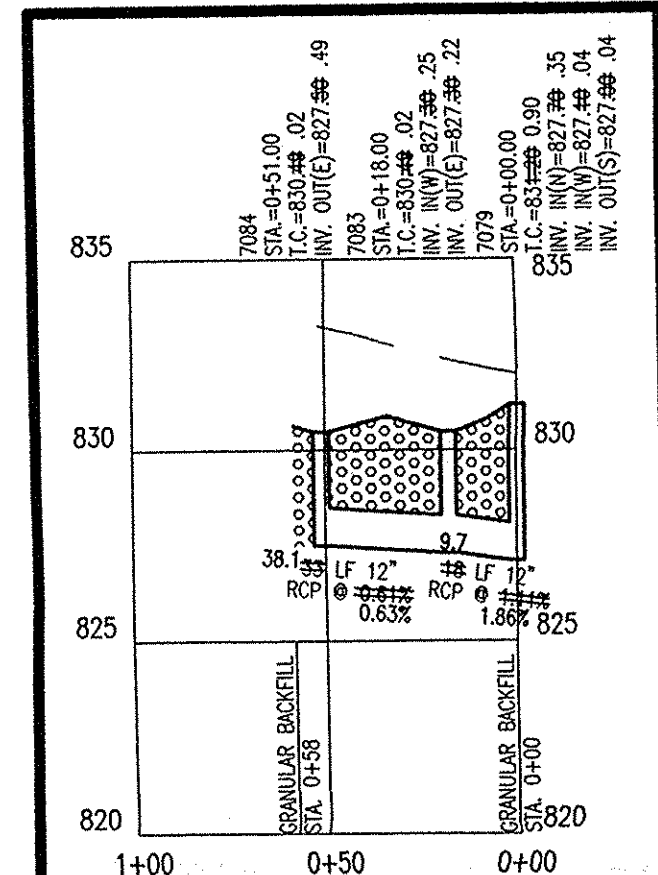
SHEET NO.

C708



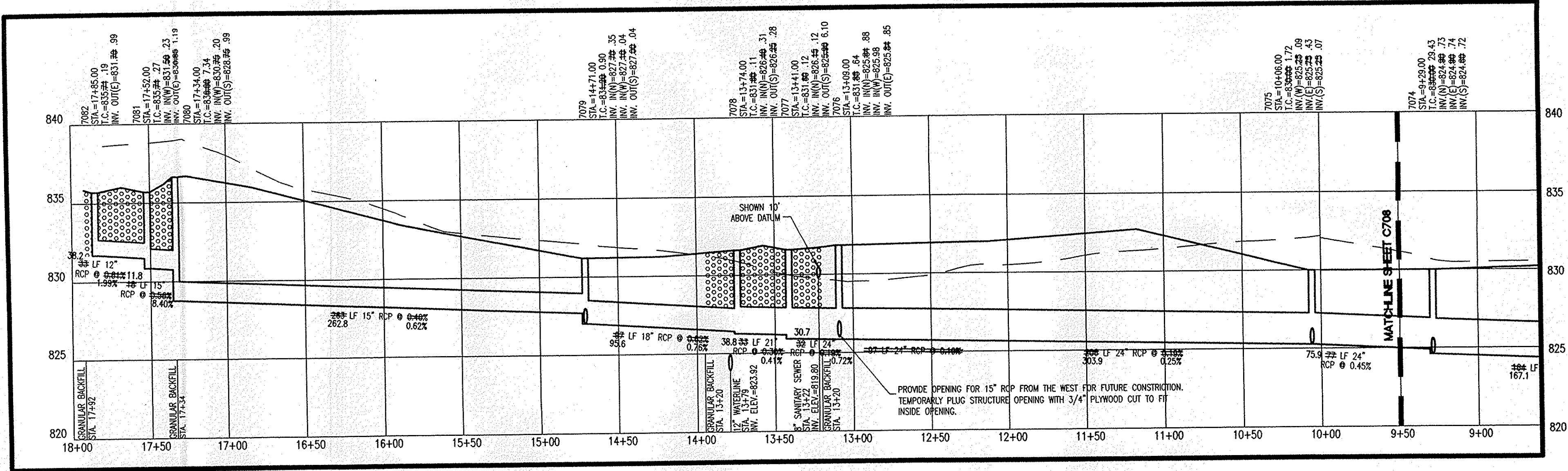
PROFILE STR. 7076 - STR. 7085

HOR. SCALE: 1" = 50'
VER. SCALE: 1" = 5'



PROFILE STR. 7079 - STR. 7084

HOR. SCALE: 1" = 50'
VER. SCALE: 1" = 5'



PROFILE STR. 7070 - STR. 7082 (CONT.)

HOR. SCALE: 1" = 50'
VER. SCALE: 1" = 5'

STORM SEWER PLAN AND PROFILE NOTES

- 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.
- IN ADDITION, EXCAVATIONS EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
- ALL STRUCTURES SHALL HAVE CASTINGS, JOINTS, LIFT RINGS, STEPS AND PIPE CONNECTIONS WELL GROTTED, TROWELED SMOOTH AND BRUSH FINISHED.
- ALL STRUCTURES (IE: MANHOLES, INLETS) SHALL HAVE PAURED FLOW LINES AND BENCH WALLS. THE FLOW LINES AND BENCHWALLS SHALL BE TROWELED SMOOTH AND BRUSH FINISHED.
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- STORM STRUCTURES WITH INLET CASTINGS SHALL BE SET TO MAINTAIN A POSITIVE DRAINAGE FLOW INTO THE STRUCTURE.
- STORM PIPE INVERTS AT OUTLET STRUCTURES (IE: END SECTIONS), AND PIPE LENGTHS MAY REQUIRE FIELD ADJUSTMENTS TO MEET ACTUAL FIELD CONDITIONS.
- FULL DEPTH GRANULAR BACKFILL SHALL BE REQUIRED UNDER AND WITHIN (5) FEET OF ALL PAVED AREAS, INCLUDING CURBS, EDGE OF PAVEMENT, AND SIDEWALKS.
- PIPES LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND INCLUDE END SECTIONS.
- ALL CURB UNDERGRANS SHALL BE CONNECTED TO THE STORM COLLECTION SYSTEM AT EITHER AN INLET OR A MANHOLE.
- "TC" REFERS TO "TOP OF CASTING"

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Entry Date: 12-19-07
Entered By: SLM

POST CONSTRUCTION SURVEY

Record Drawing only for the top of casting, invert elevations, and length of pipe. Slope percentage represents a calculated figure and is for general information only. Distances are measured center of structure to center of structure.

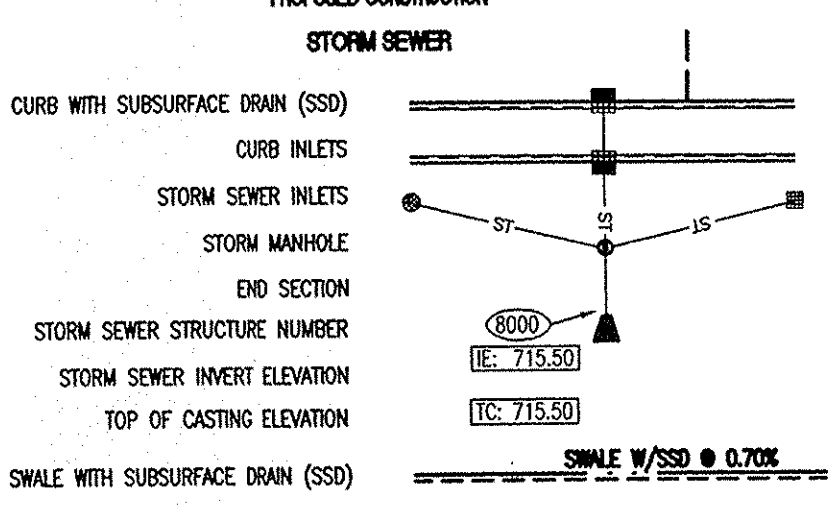
Jeffrey J. Franciski
Date: 01/09/08



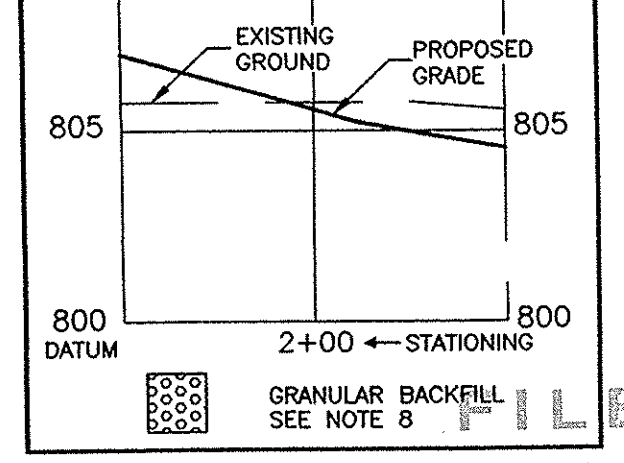
USI Consultants
8415 East 56th St.
Indianapolis, IN 46216

Reg. Land Surveyor
No. LS20100074
State of Indiana

UTILITY PLAN LEGEND



PROFILE LEGEND



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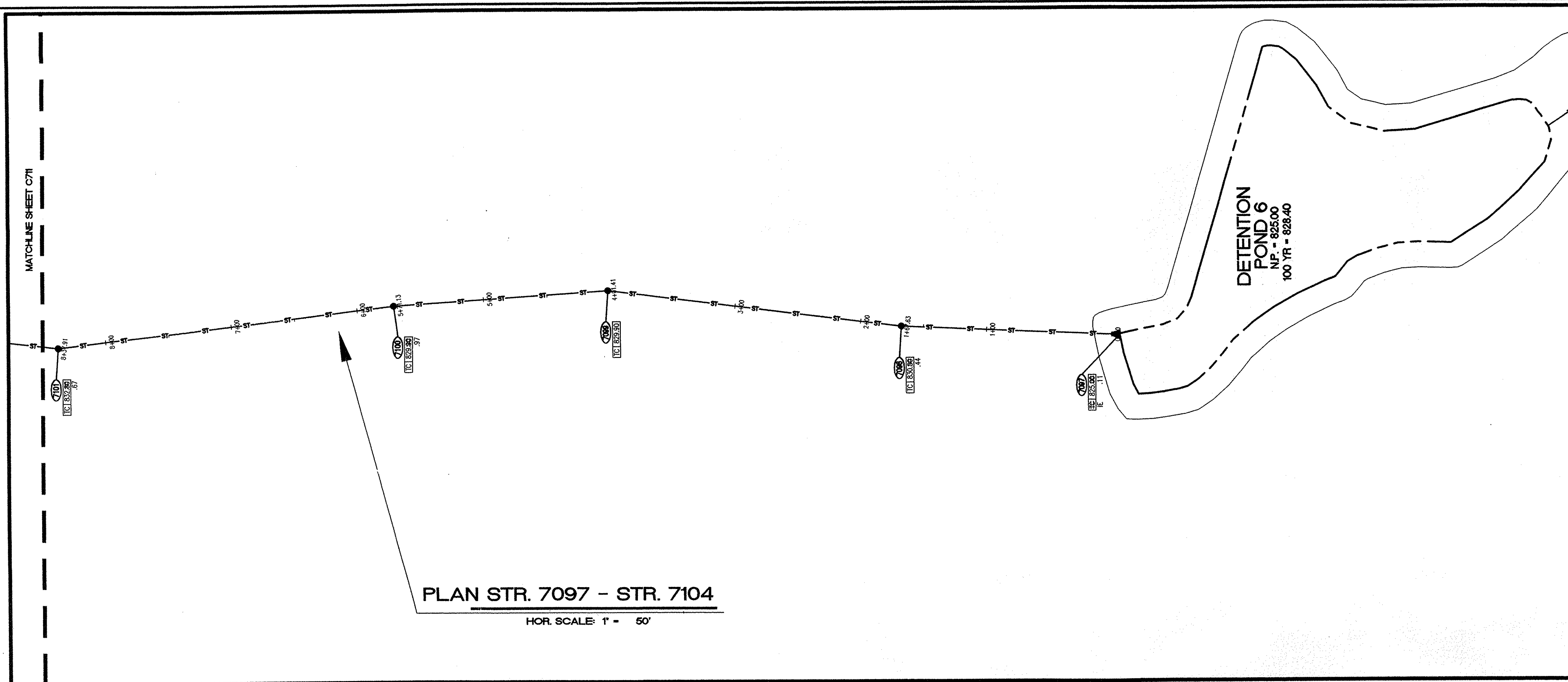
POST CONSTRUCTION SURVEY
STORM PLAN AND PROFILE
THE BRIDGEWATER CLUB
SECTIONS 'E' AND 'G3-5'

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INDIANAPOLIS, IN 46216
(317) 544-4996

FILE: 2002-167

SHEET NO.

C709

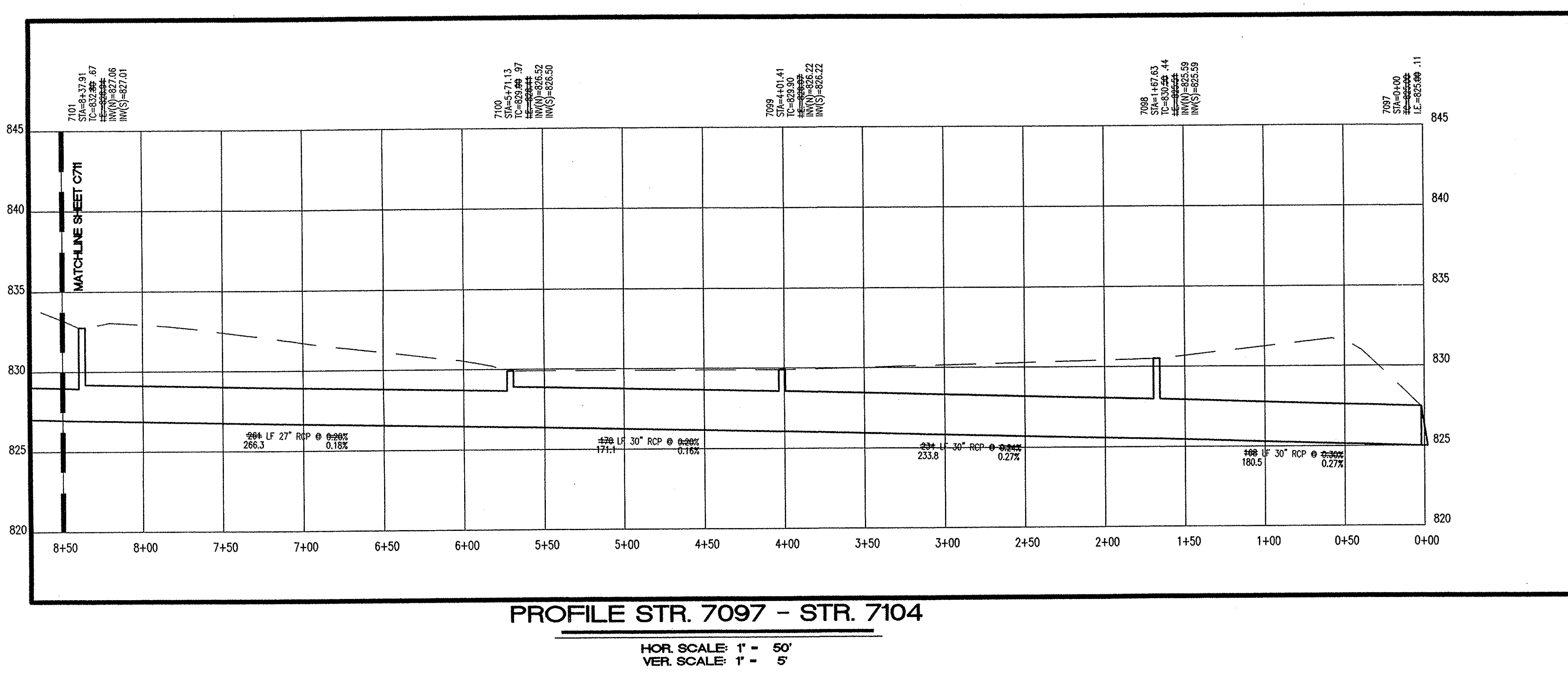


STORM SEWER PLAN AND PROFILE NOTES

1. 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.
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, 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. PIPES LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND INCLUDE END SECTIONS.
10. ALL CURB UNDERDRAINS SHALL BE CONNECTED TO THE STORM COLLECTION SYSTEM AT EITHER AN INLET OR A MANHOLE.
11. "TC" REFERS TO "TOP OF CASTING"

DESIGNED: _____
CHECKED: _____
SCALE: _____
DATE: _____

SURVEYED: _____
DRAWN: _____
CHECKED: _____
DATE: _____
CERTIFIED BY: _____



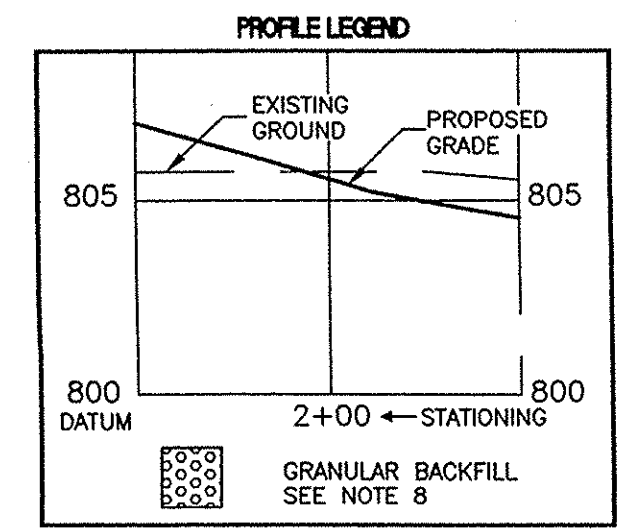
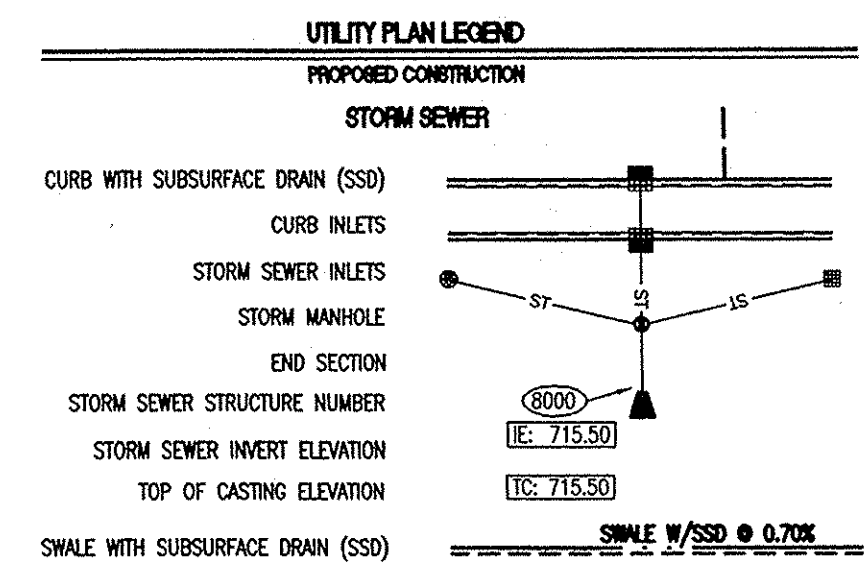
POST CONSTRUCTION SURVEY

Record Drawing only for the top of casting, invert elevations, and length of pipe. Slope percentage represents a calculated figure and is for general information only. Distances are measured center of structure to center of structure.

Jeffrey J. Franciski 1/29/04
Jeffrey J. Franciski Date

USI Consultants
8415 East 56th St.
Indianapolis, IN 46216

Reg. Land Surveyor
No. LS20100074
State of Indiana



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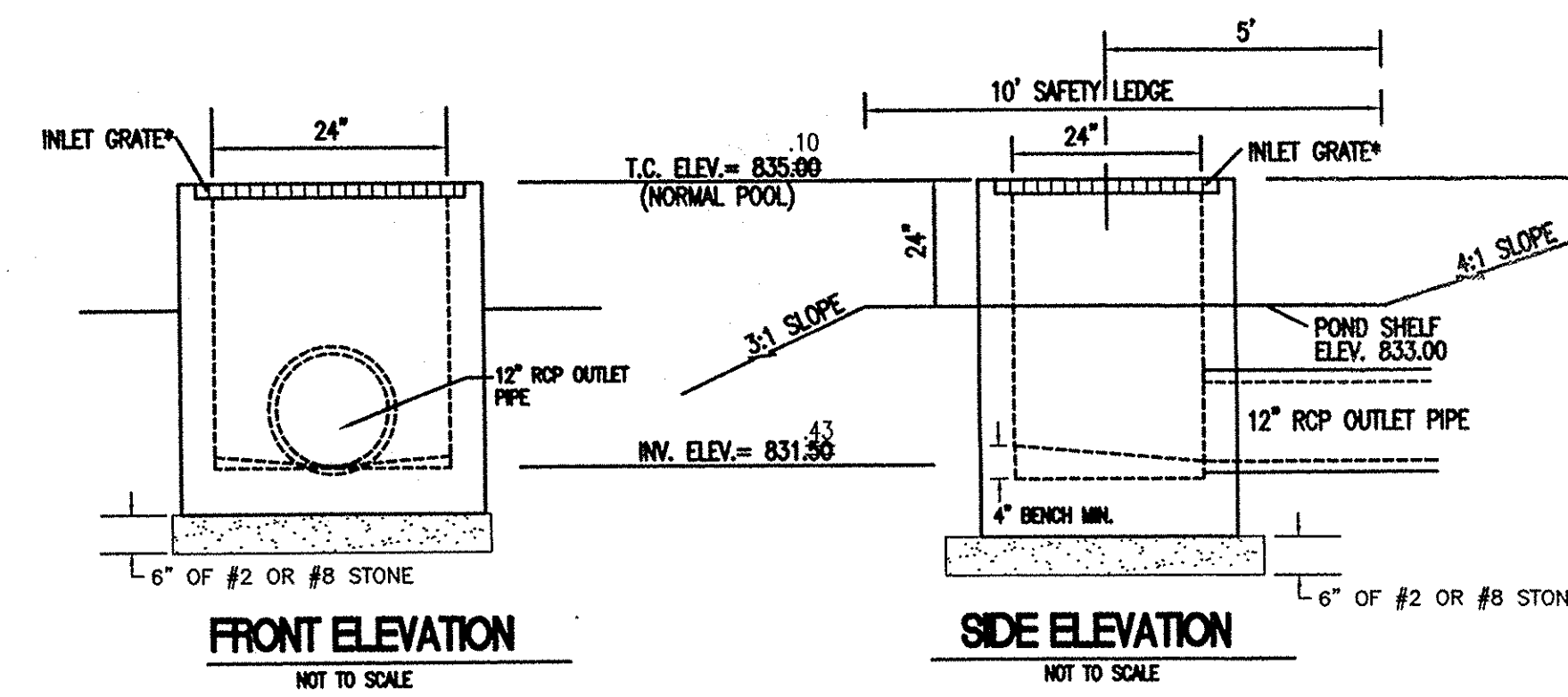
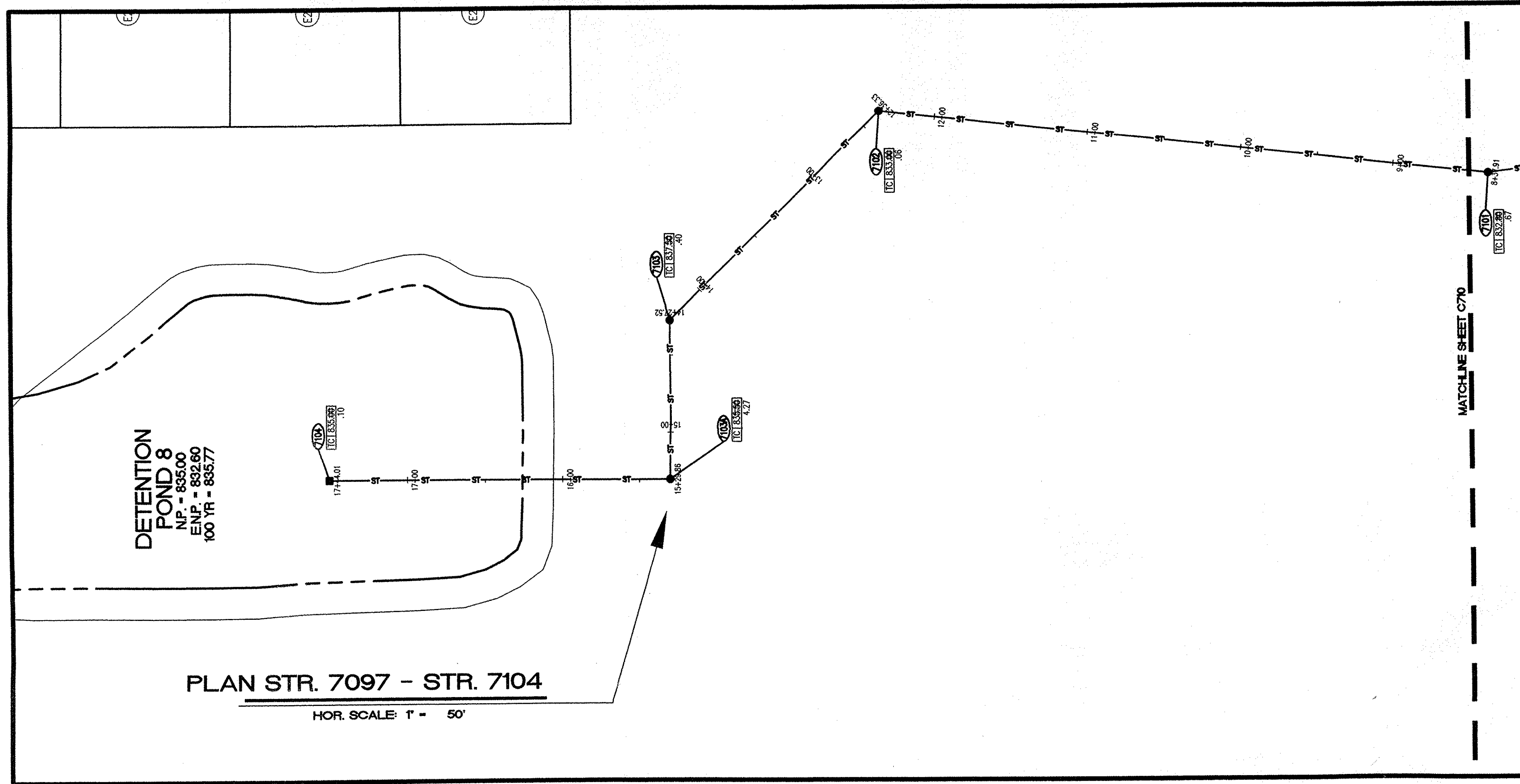
POST CONSTRUCTION SURVEY
STORM PLAN AND PROFILE
THE BRIDGEWATER CLUB
SECTIONS 'E' AND 'G3-5'

USI CONSULTANTS, INC
8415 East 56th Street
INDIANAPOLIS, IN 46216
(317) 544-4996

FILE: 2002-167

SHEET NO.

C710



PO-8
NO SCALE
POUND 8 OUTLET STRUCTURE

*INLET GRATE SHALL BE GALVANIZED STEEL WELDED CRATING (2"x3/16") STEEL AT 1-3/16" CENTER TO CENTER OF BEARING BARS AND CROSS BARS AT 4" O.C.

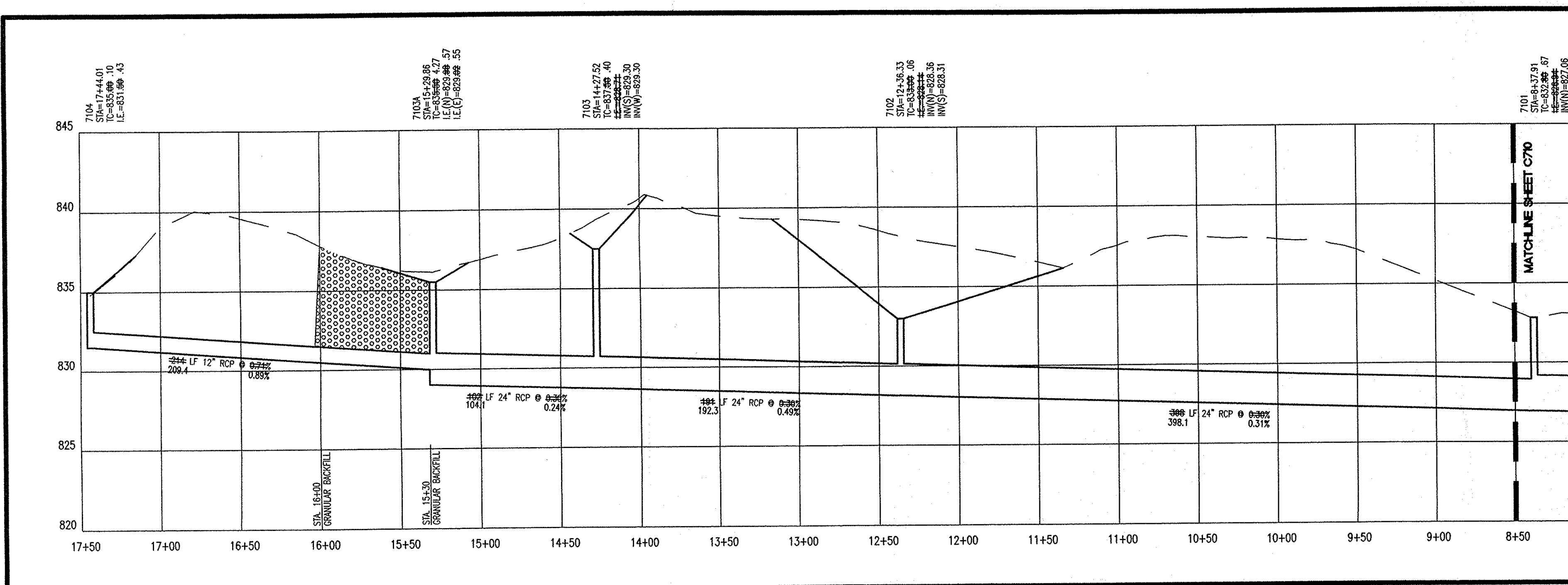
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Jeffrey J. Franciski
Jeffrey J. Franciski Date: 01/09/04

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State of Indiana

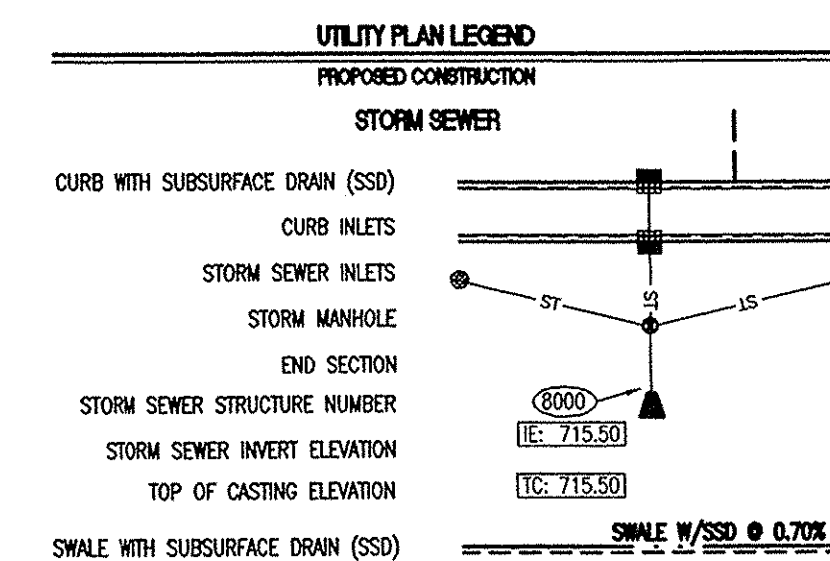
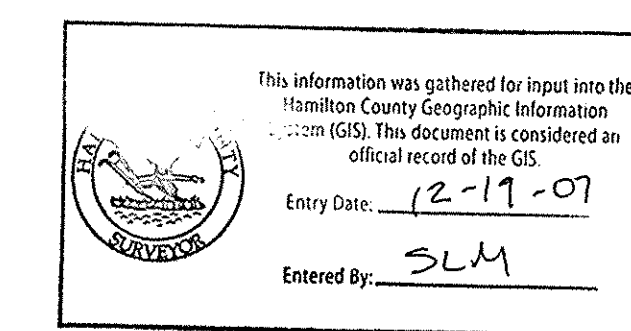
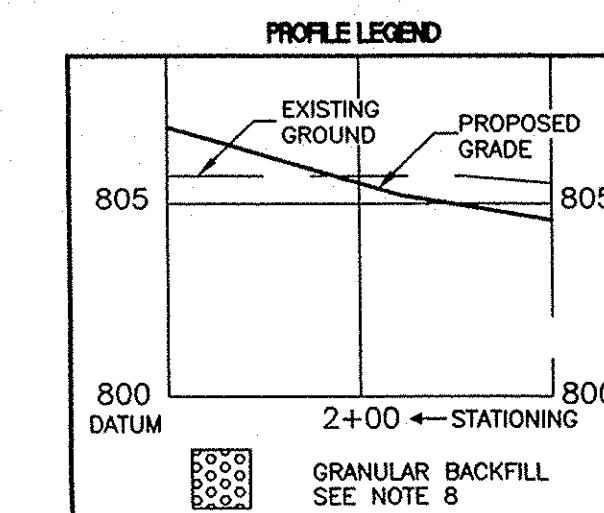


PROFILE STR. 7097 - STR. 7104 (CONT.)

HOR. SCALE: 1" = 50'
VER. SCALE: 1" = 5'

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POST CONSTRUCTION SURVEY
STORM PLAN AND PROFILE
THE BRIDGEWATER CLUB
SECTIONS 'E' AND 'G3-5'

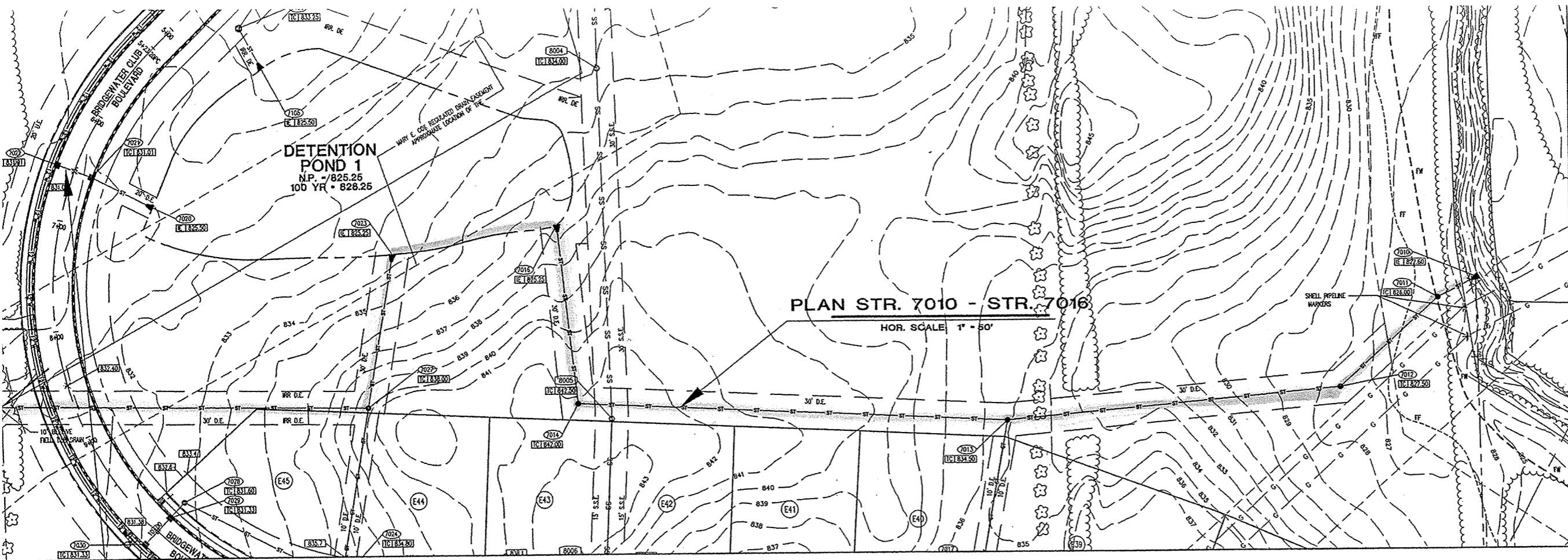
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(317) 544-4996

FILE: 2002-167

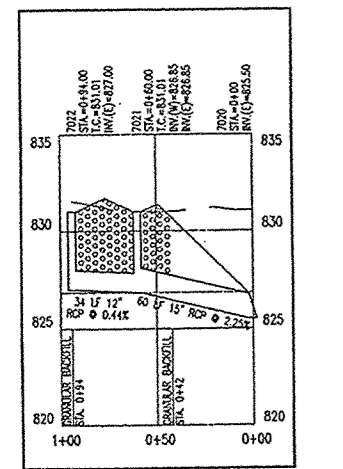
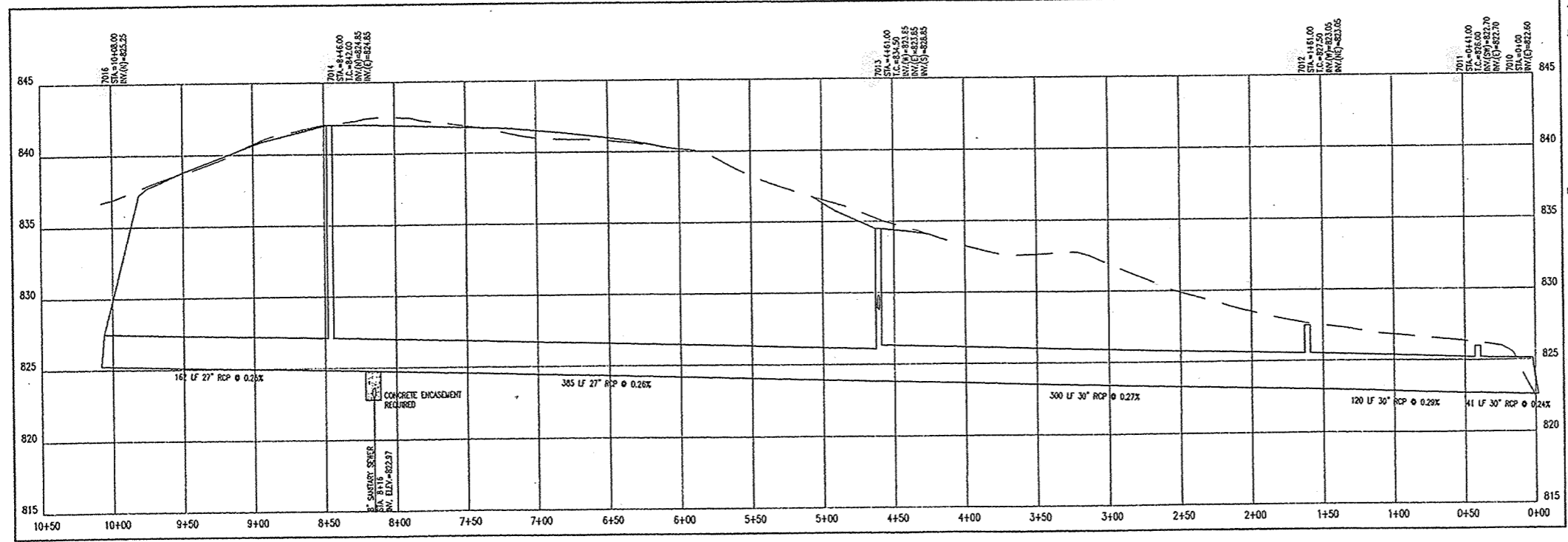
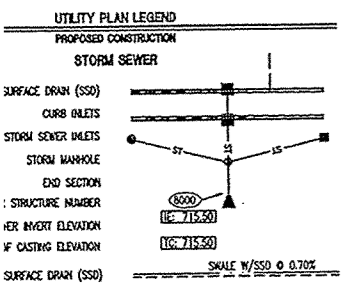
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C711

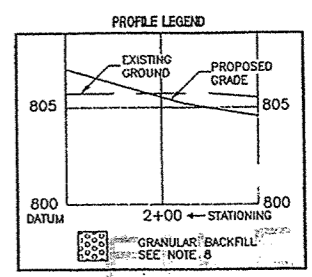
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CHECKED: _____
DESIGNED: _____
SCALE: _____
DATE: _____
CERTIFIED BY: _____



PLAN STR. 7020 - STR. 7022
HOR. SCALE 1" = 50'



- STORM SEWER PLAN AND PROFILE NOTES:**
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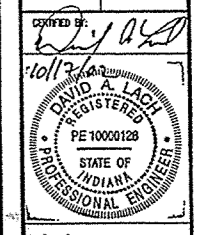
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STORM PLAN AND PROFILE
CONSTRUCTION PLANS - SECTIONS E AND G3-5
THE BRIDGEWATER CLUB
THROGMARTIN-HENKE DEVELOPMENT, LLP
3655 EAST 98TH STREET
NOBLESVILLE, IN 46060
PH. (317) - 867-4653



Drawn By: L. BRILL
Checked By: R. RADABAUGH
Quality Assurance: D. LACH

Scale: 1" = 50'
Date: **C702**
10-16-02

E STR. 7020 - STR. 7022
HOR. SCALE 1" = 50'