

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

January 10, 2008

To: Hamilton County Drainage Board

Re: Springs of Cambridge Drain, Section 10 Arm

Attached is a petition filed by Marina Limited Partnership along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Springs of Cambridge Section 10 Drain to be located in Fall Creek Township. 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	6,977 ft.	18" RCP	219 ft.	24" RCP	181 ft.
15" RCP	94 ft.	21" RCP	334 ft.		

The total length of drain will be 7,805 feet.

The subsurface drains (SSD) to be part of the regulated drains are those located under the curbs. Only the main SSD lines which are located within the right of way are to be maintained as regulated drain. Laterals for individual lots will not be considered part of the regulated drain.

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 \$10.00 per acre for common areas and platted lots, \$10.00 per acre for roadways, with a \$50.00 minimum. With this assessment the total annual assessment for this drain/this section will be \$2,814.20.

The petitioner has submitted surety for the proposed drain at this time. Surety shall be submitted prior to the approval of the Hamilton County Board of Commissioners/commencement of construction. The sureties, which are in the form of a Performance Bond, are as follows:

Agent: Bond Safeguard Insurance Company
Date: July 31, 2007
Number: 5008188
For: Storm Sewers and Erosion Control
Amount: \$325,200.00

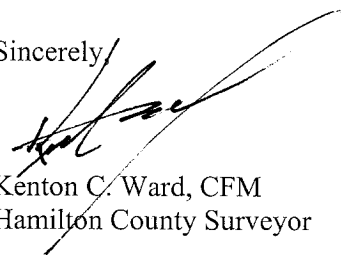
Agent: Bond Safeguard Insurance Company
Date: July 31, 2007
Number: 5008189
For: Monuments and Markers
Amount: \$2,880.00

I believe this proposed drain meets the requirements for Urban Drain Classification as set out in IC36-9-27-67 to 69. Therefore, this drain shall be designated as an Urban Drain.

I recommend that upon approval of the above proposed drain that the Board also approve the attached non-enforcement request. The request is for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for Springs of Cambridge Section 10, as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for February 25, 2008.

Sincerely,



Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/llm

STATE OF INDIANA)
)
COUNTY OF HAMILTON)

TO: HAMILTON COUNTY DRAINAGE BOARD
% Hamilton County Surveyor
One Hamilton County Square, Suite 188
Noblesville, IN. 46060-2230

In the matter of Springs of Cambridge Subdivision, Section
10, Springs of Cambridge Drain Petition.

Petitioner is the owner of all lots in the land affected by the proposed new regulated drain. The drainage will affect various lots in Springs of Cambridge, Section 10, a subdivision in Hamilton County, Indiana. The general route of such drainage shall be in existing easements and along public roads as shown in the plans on file in the Surveyor's Office.

Petitioner believes that the cost, damages and expenses of the proposed improvement will be less than the benefits which will result to the owners of the land likely to be benefited thereby. Petitioner believes the proposed improvements will:

- (a) improve public health
- (b) benefit a public street
- (c) be of public utility

Petitioner agrees to pay the cost of construction of the drainage system and requests periodic maintenance assessments by the Board thereafter.

The Petitioner also agrees to the following:

1. To provide the Drainage Board a Performance Bond or Non-Revocable Letter of Credit for the portion of the drainage system which will be made a regulated drain. The bond will be in the amount of 120% of the Engineer's estimate. The bond will be in effect until construction of 100% of the system is completed and so certified by the Engineer.
2. The Petitioner shall retain an Engineer throughout the construction phase. At completion of the project the Petitioner's Engineer shall certify that the drainage system which is to be maintained as a regulated drain has been constructed as per construction plans.
3. The Petitioner agrees to request in writing to the County Surveyor any changes from the approved plan and must receive written authorization from the County Surveyor prior to implementation of the change. All changes shall be documented and given to the Surveyor to be placed in the Drain file.
4. The Petitioner shall instruct his Engineer to provide a reproducible print on a 24" x 36" Mylar of the final design of the Drainage System. This shall be submitted to the County Surveyor prior to the release of the Performance Bond.
5. The Petitioner shall comply with the Erosion Control Plan as specified on the construction plans. Failure to comply with the Erosion Control Plan shall be determined by the Board as being an obstruction to the drainage system. The County Surveyor shall immediately install or repair the needed measures at Petitioners cost as per IC 36-9-27-46.

The Petitioner further requests that the Drain be classified as an Urban Drain as per IC 36-9-27-69(d).

RECORDED OWNER(S) OF LAND INVOLVED

Signed _____
Allen E. Rosenberg
Allen E. Rosenberg
Printed Name _____
4/14/00
Date _____

Signed _____
Printed Name _____
Date _____

Signed _____
Printed Name _____
Date _____

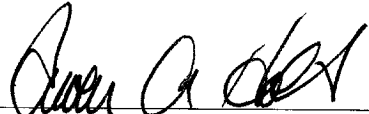
Signed _____
Printed Name _____
Date _____

FINDINGS AND ORDER
CONCERNING THE MAINTENANCE OF THE
Springs of Cambridge Drain, Section 10 Arm


On this **25th day of February 2008**, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the **Springs of Cambridge Drain, Section 10 Arm**.

Evidence has been heard. Objections were presented and considered. The Board then adopted the original/amended Schedule of Assessments. The Board now finds that the annual maintenance assessment will be less than the benefits to the landowners and issues this order declaring that this Maintenance Fund be established.

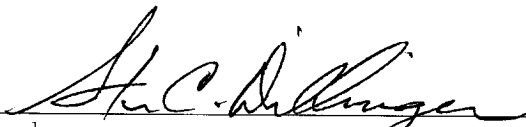
HAMILTON COUNTY DRAINAGE BOARD



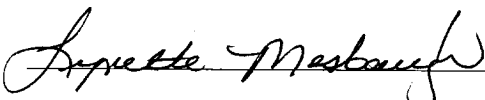
President



Member



Member

Attest: 

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF THE
Springs of Cambridge Drain, Section 10 Arm

NOTICE

Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on **February 25, 2008** has issued an order adopting the Schedule of Assessments, filed the same and made public announcement thereof at the hearing and ordered publication. If judicial review of the findings and order of the Board is not requested pursuant to Article Eight of this code within twenty (20) days from the date of this publication, the order shall be conclusive.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF

Springs of Cambridge Drain, Section 10 Arm

NOTICE

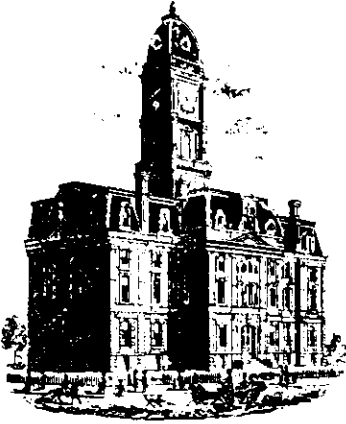
To Whom It May Concern and: _____

Notice is hereby given of the hearing of the Hamilton County Drainage Board on the **Springs of Cambridge Drain, Section 10 Arm** on **February 25, 2008** at **9:05 A.M.** in Commissioners Court, Hamilton County Judicial Center, One Hamilton County Square, Noblesville, Indiana, and which construction and maintenance reports of the Surveyor and the Schedule of Assessments made by the Drainage Board have been filed and are available for public inspection in the office of the Hamilton County Surveyor.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY



SURVEYOR'S OFFICE

Hamilton County

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

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

To: Hamilton County Drainage Board

February 25, 2009

Re: Springs of Cambridge-Bee Camp Creek: Springs of Cambridge Sec. 10

Attached are as-builts, certificate of completion & compliance, and other information for Springs of Cambridge Sec. 10. 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 January 10, 2008. The report was approved by the Board at the hearing held February 25, 2008 (See Drainage Board Minutes Book 11, Pages 55-56) The changes are as follows:

Structure:	Length:	Size	Material:	Up Invert:	Dn Invert	Grade:	Changes:
715-714	24	18	RCP	785.81	785.45	1.5	2
714-713	141	21	RCP	785.4	784.6	0.57	-5
712-711	24	15	RCP	785.45	785.33	0.5	2
711-710	28	18	RCP	785.1	784.99	0.39	-6
709-708	24	15	RCP	785.83	785.64	0.25	
708-707	174	24	RCP	785.64	785.17	0.27	-7
706-705	25	15	RCP	785.68	785.58	0.4	1
705-704	159	18	RCP	785.39	784.82	0.36	-4
703-702	25	15	RCP	786	785.71	1.16	1
702-701	183	21	RCP	785.44	784.94	0.27	-5

6" SSD Streets:

Street A	722
Street B	812.5
Lakeridge Ln	1879
x2	
Total:	<u>6827</u>

RCP Pipe Totals:

15	98
18	211
21	324
24	174
Total:	<u>807</u>

The length of the drain due to the changes described above is now **7634 feet**.

The non-enforcement was approved by the Board at its meeting on February 25, 2008 and recorded under instrument #2008028390.

The following sureties were guaranteed by Bond Safeguard Insurance Co. and released by the Board on its October 13, 2008 meeting.

Bond-LC No: 5008188

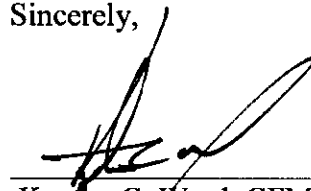
Insured For: Storm Sewers, Erosion Control

Amount: \$325,000.00

Issue Date: July 31, 2007

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', is written over a horizontal line.

Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/slm

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: *Springs of Cambridge, Section 10*

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: *Christopher M. Wiseman* Date: 11-12-08

Type or Print Name: Christopher M. Wiseman, P.E.

Business Address: Cripe Architects + Engineers

3939 Priority Way South Dr., Suite 400, Indianapolis, IN 46240

Telephone Number: 317-844-6777



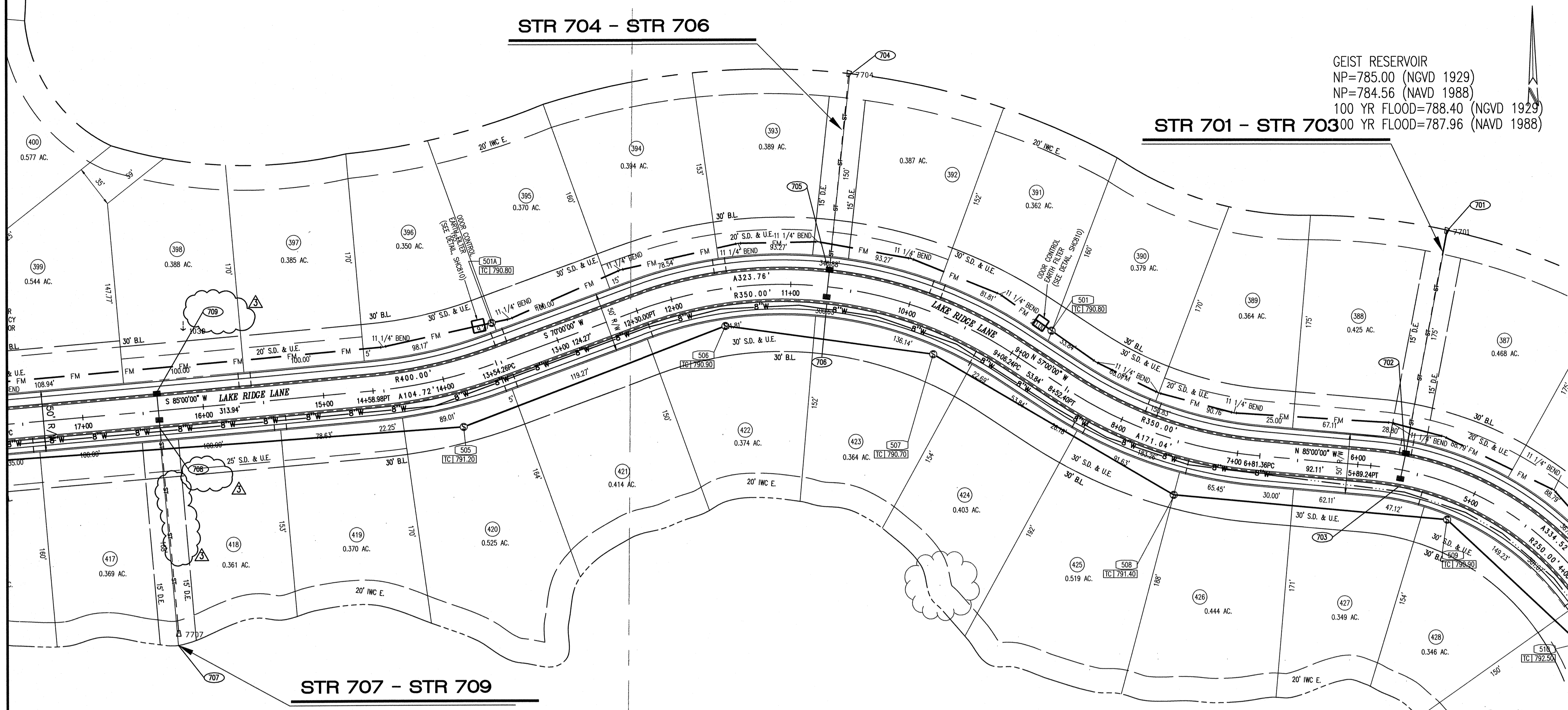
INDIANA REGISTRATION NUMBER

PE10504920

STR 704 - STR 706

STR 701 - STR 703

GEIST RESERVOIR
 NP=785.00 (NGVD 1929)
 NP=784.56 (NAVD 1988)
 100 YR FLOOD=788.40 (NGVD 1929)
 300 YR FLOOD=787.96 (NAVD 1988)



UTILITY PLAN LEGEND

PROPOSED CONSTRUCTION

SANITARY SEWER

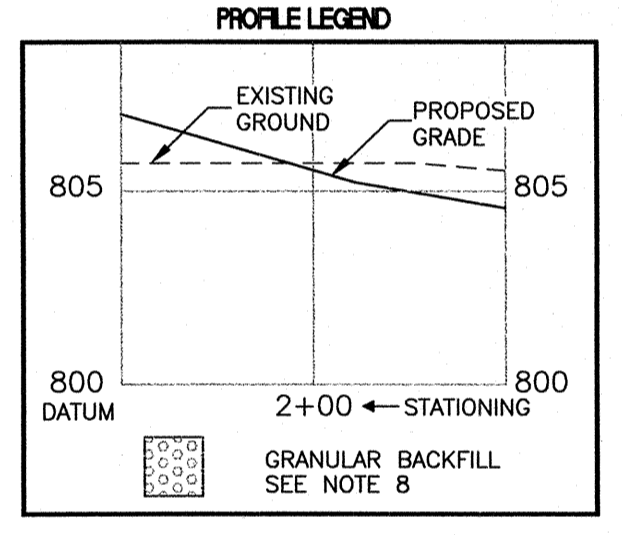
- SANITARY LATERAL
- SANITARY LATERAL STATION, LENGTH, AND PIPE SIZE
- SANITARY LINE
- SANITARY STRUCTURE NUMBER
- SANITARY CASTING ELEVATION
- EASEMENT LINE
- SANITARY SEWER EASEMENT
- SANITARY SEWER, DRAINAGE & UTILITY EASEMENT

STORM SEWER

- SUB-SURFACE DRAIN LATERAL TO INDIVIDUAL LOT (SEE DETAIL SSD-1 SHEET 0705)
- CURB WITH SUBSURFACE DRAIN (SSD)
- CURB INLETS
- STORM SEWER INLETS
- STORM MANHOLE
- END SECTION
- STORM SEWER STRUCTURE NUMBER
- STORM SEWER INVERT ELEVATION
- TOP OF CASTING ELEVATION
- SWALE WITH SUBSURFACE DRAIN (SSD)

WATER

- WATER MAIN
- WATER VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED REDUCER
- PROPOSED "TEE"
- PROPOSED 45° ELBOW
- PROPOSED 90° ELBOW
- PROPOSED 22° ELBOW
- PROPOSED 11° ELBOW
- THRUST BLOCK
- BLIND FLANGE



RECORD DRAWING

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: March 2009
 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 "I" 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 BENCH WALLS SHALL BE TROWELED SMOOTH AND BRUSH FINISHED.
 - FIELD ADJUSTMENTS OF TOP OF CASTING (I.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.
 - 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.
 - SEE SHEETS C703 AND C704 FOR STORM SEWERAGE DETAILS.
 - PIPES LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND INCLUDE END SECTIONS.

NOTE: ALL STREET CROSSINGS SHALL BE BACKFILLED WITH FULL DEPTH GRANULAR MATERIAL COMPACTED MECHANICALLY IN LIFTS.

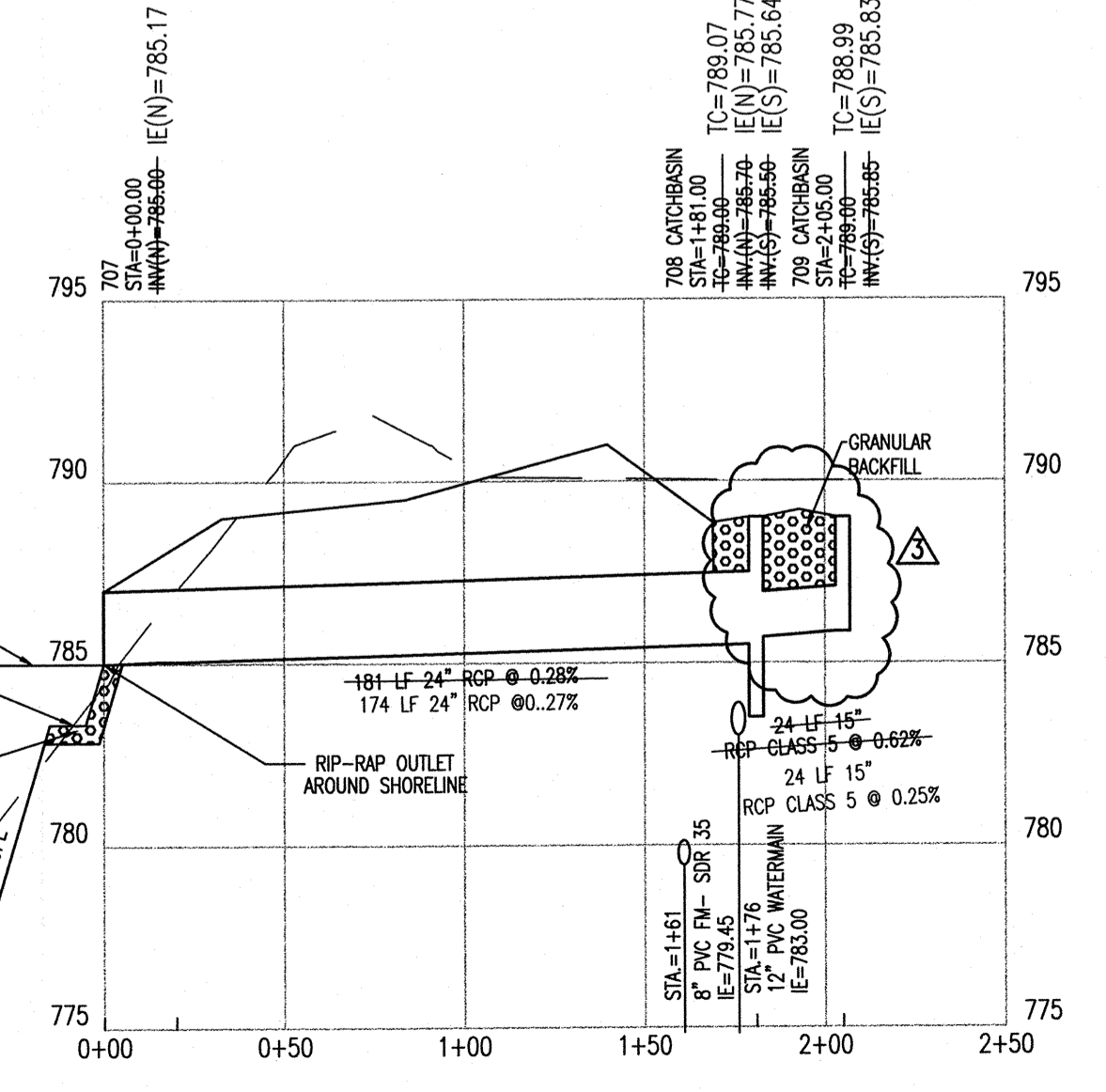
NOTE: ALL STORM WATER CASTINGS SHALL CONTAIN A MESSAGE AT THE TOP OF THE CASTING STATING "DUMP NO WASTE - DRAINS TO WATERWAY" OR "DUMP NO WASTE - DRAINS TO FRESH WATER".

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

CAUTION

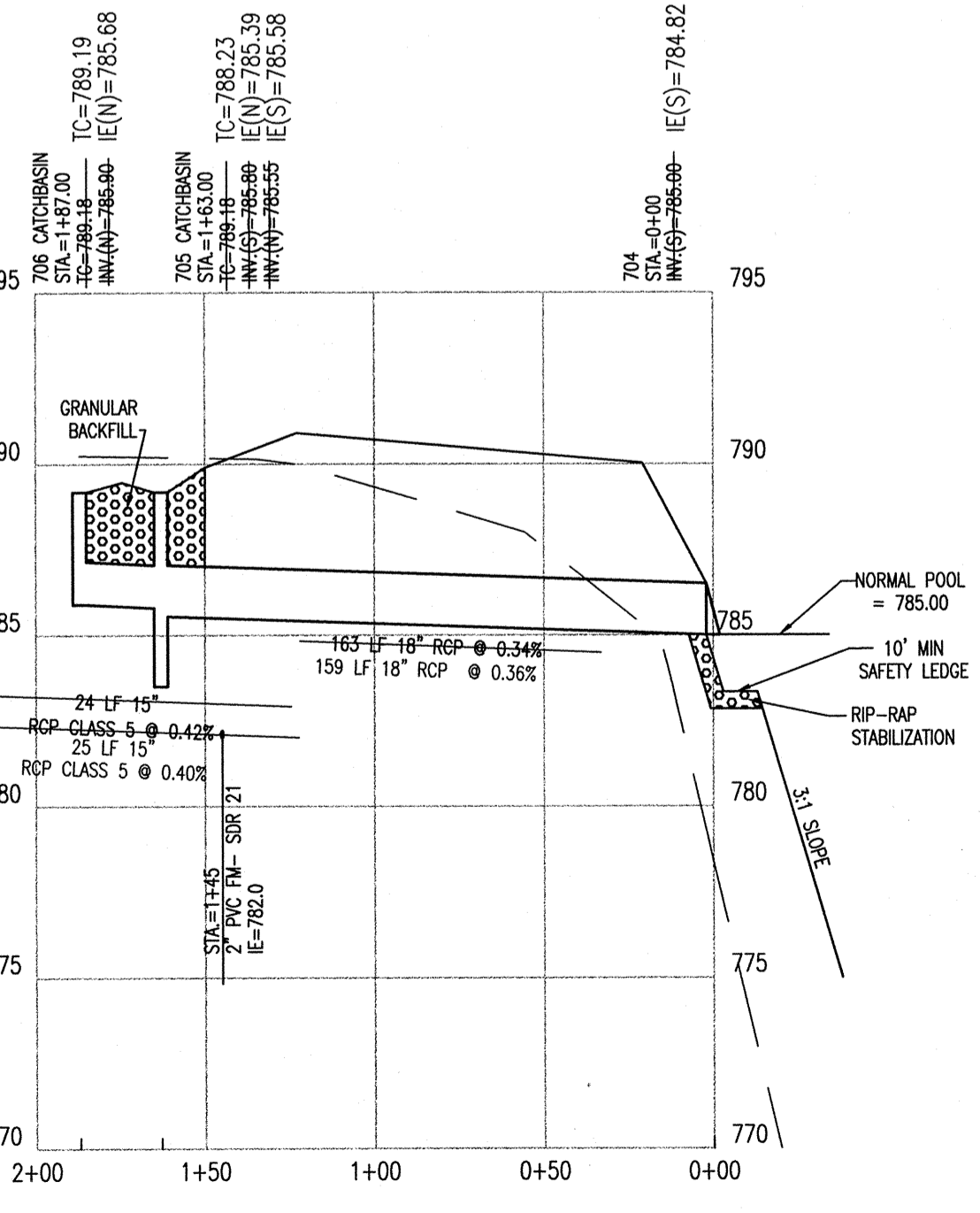
LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE ON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE 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.

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



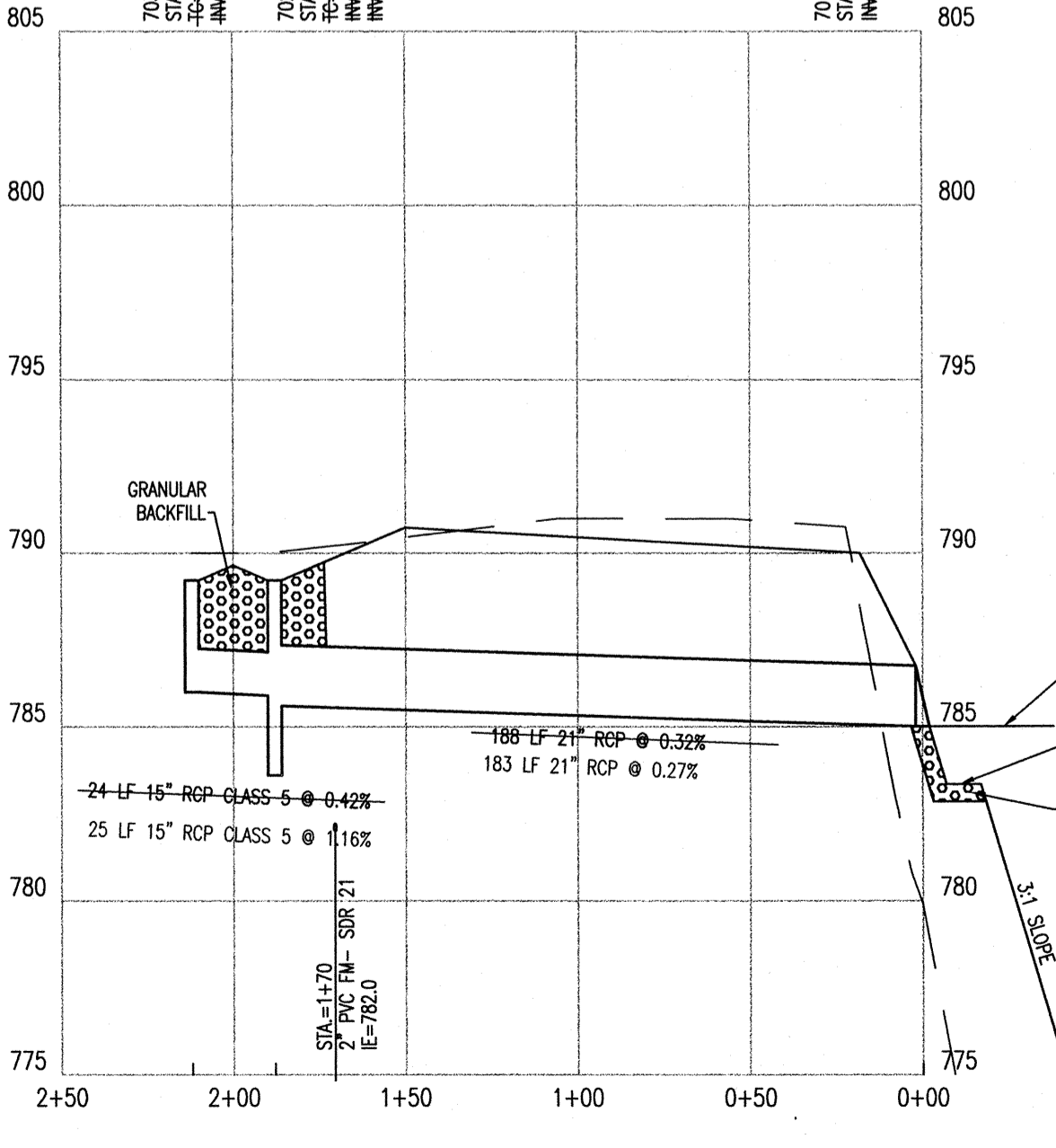
STR 707 - STR 709

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



STR 704 - STR 706

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



STR 701 - STR 703

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

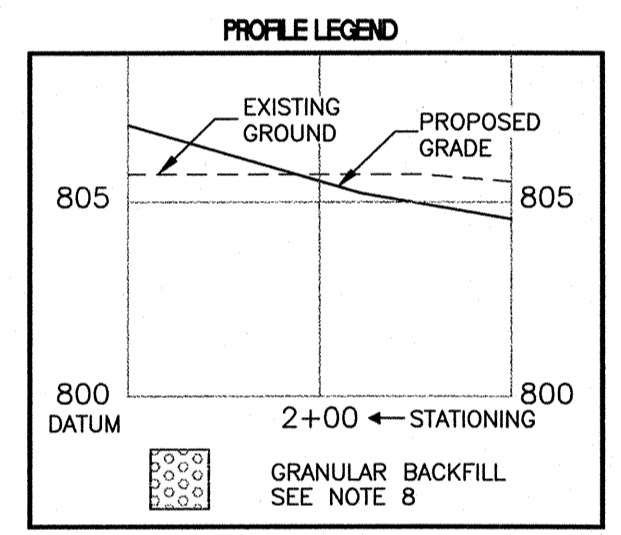
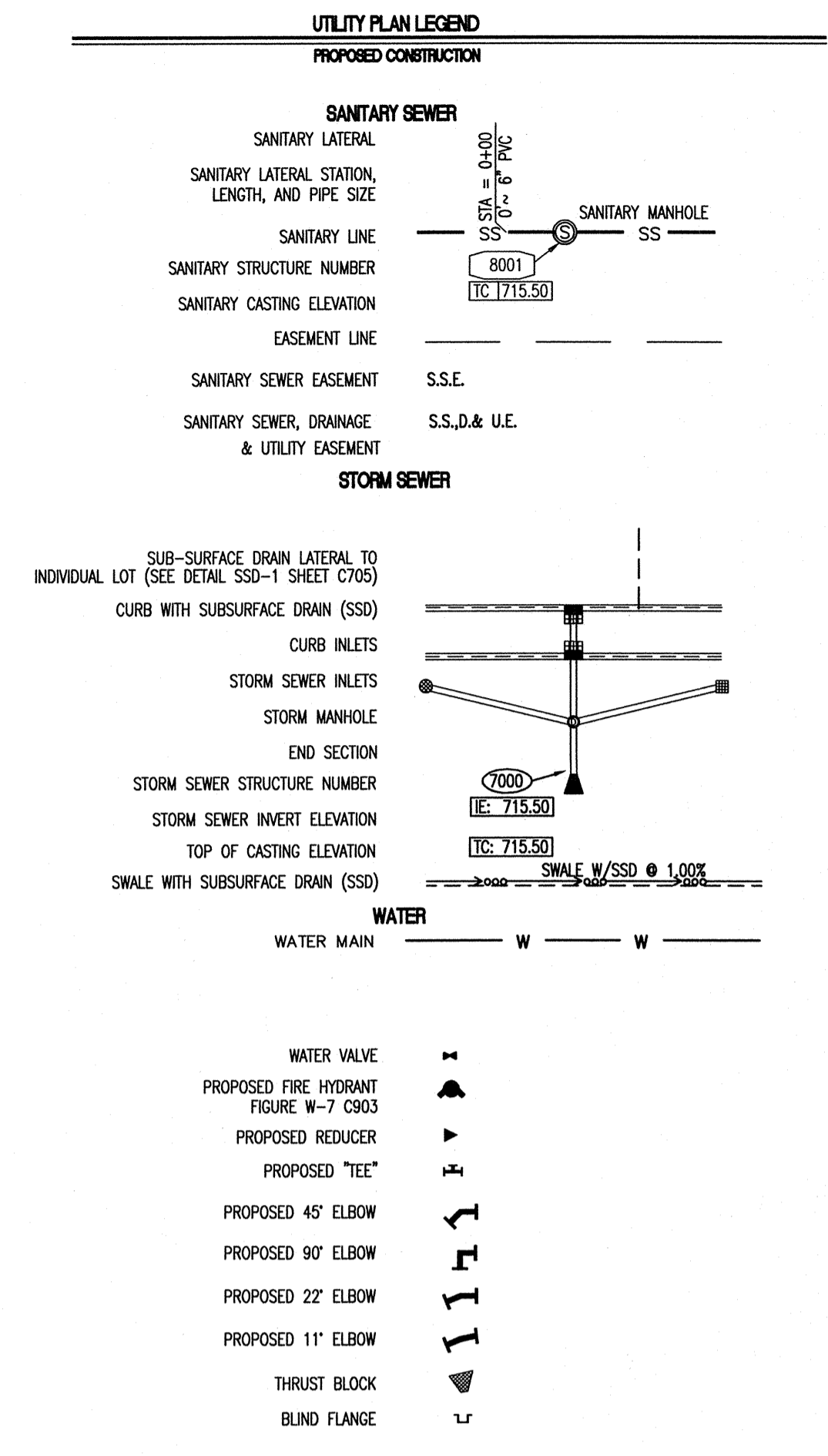
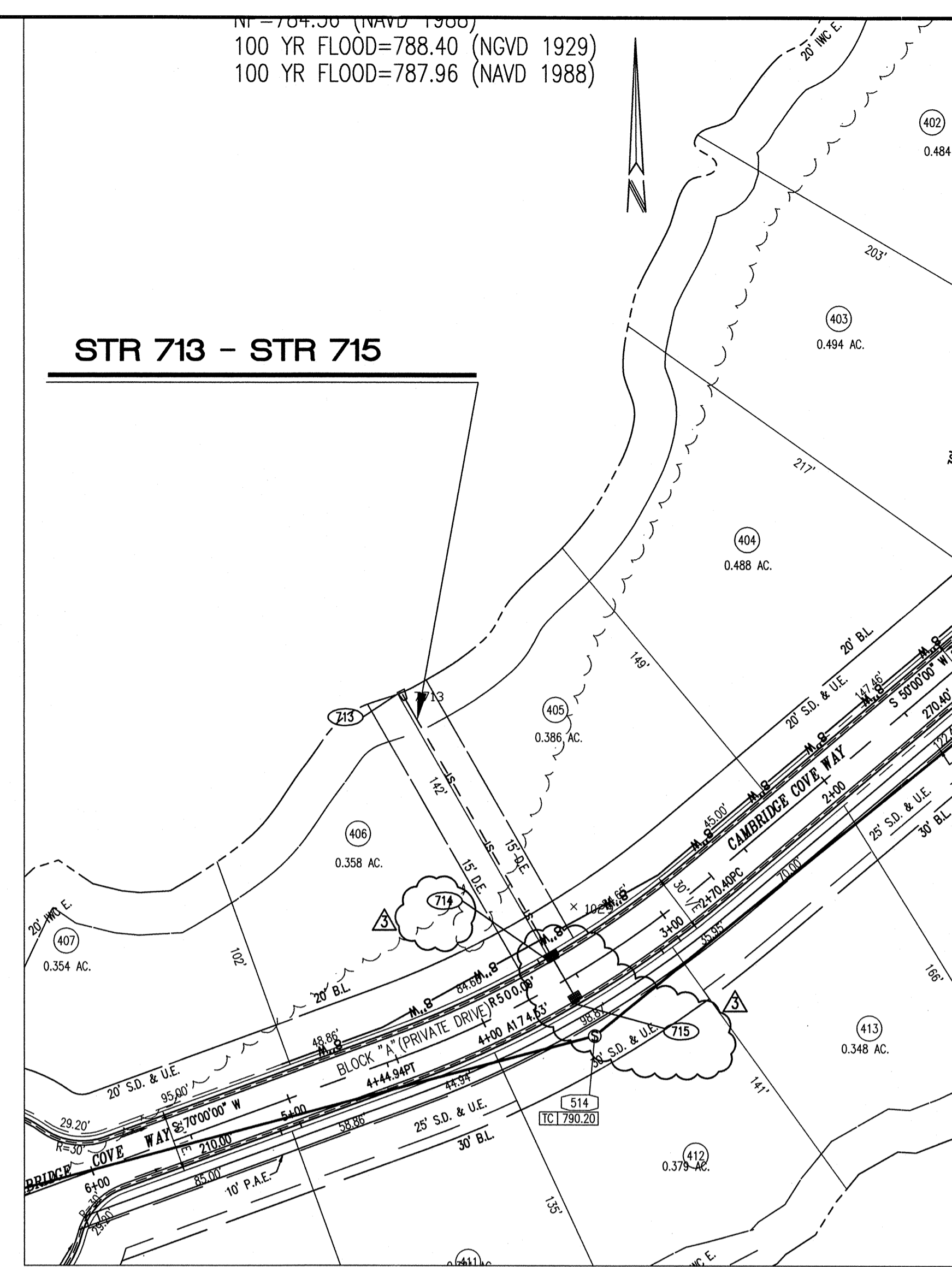
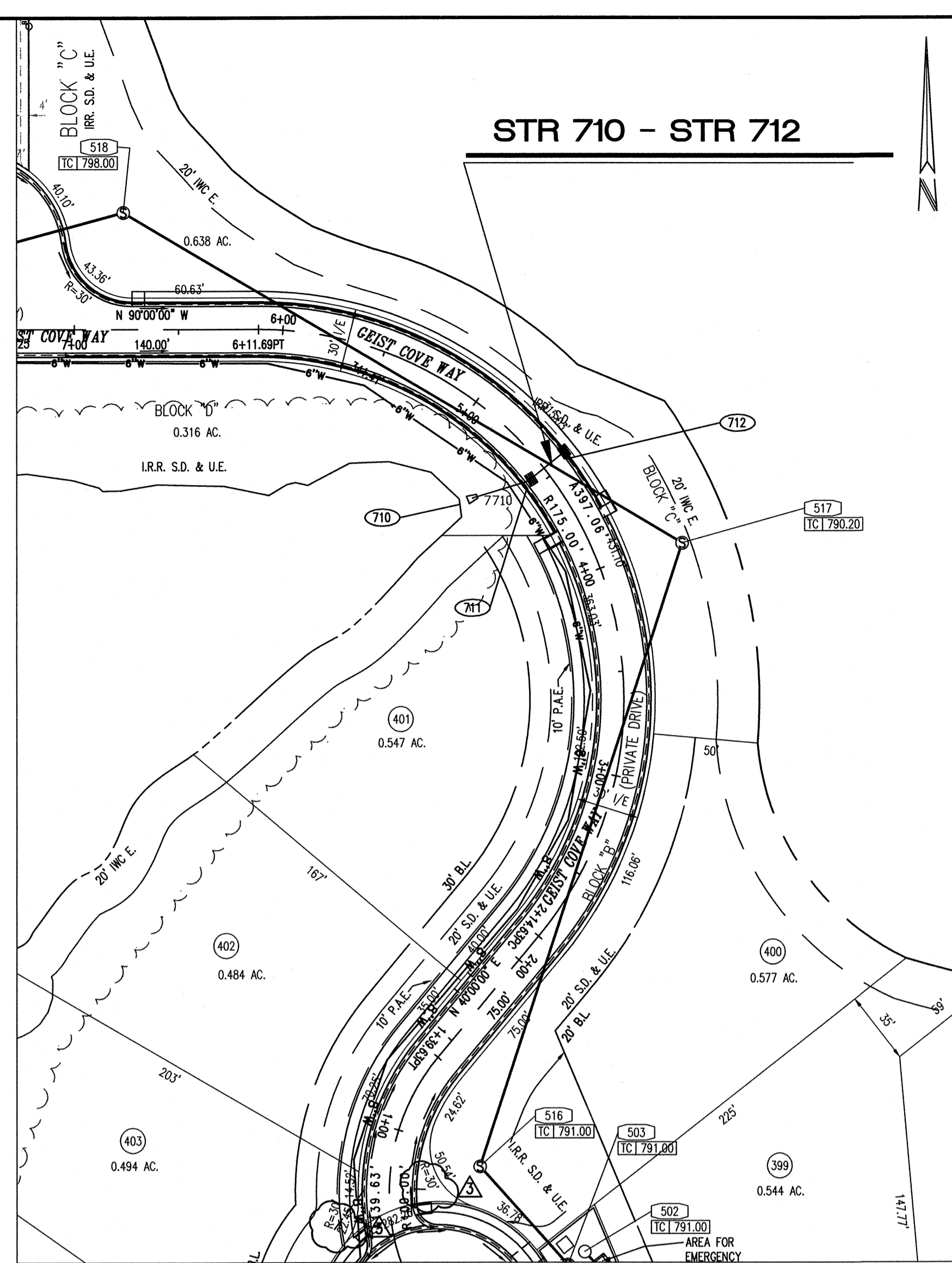
1772 GRAHAM ROAD
 INDIANAPOLIS, INDIANA 46250
 (317) 842-6777 FAX (317) 841-4776
 E-Mail: crpe@crpe.com

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STORM PLAN AND PROFILE SECTION 10
 THE SPRINGS OF CAMBRIDGE
 MARINA I, I.P.
 11691 FALL CREEK ROAD
 INDIANAPOLIS, IN 46256
 PH. (317) 845-0270 FAX. (317) 845-0766

Drawn by: AFERSTAD
 Checked by: MKCS
 Quality Assurance:

Scale: 1" = 80'
 Sheet: **C701**
 Date: 03-18-08
 Project Number: 0990460-30020

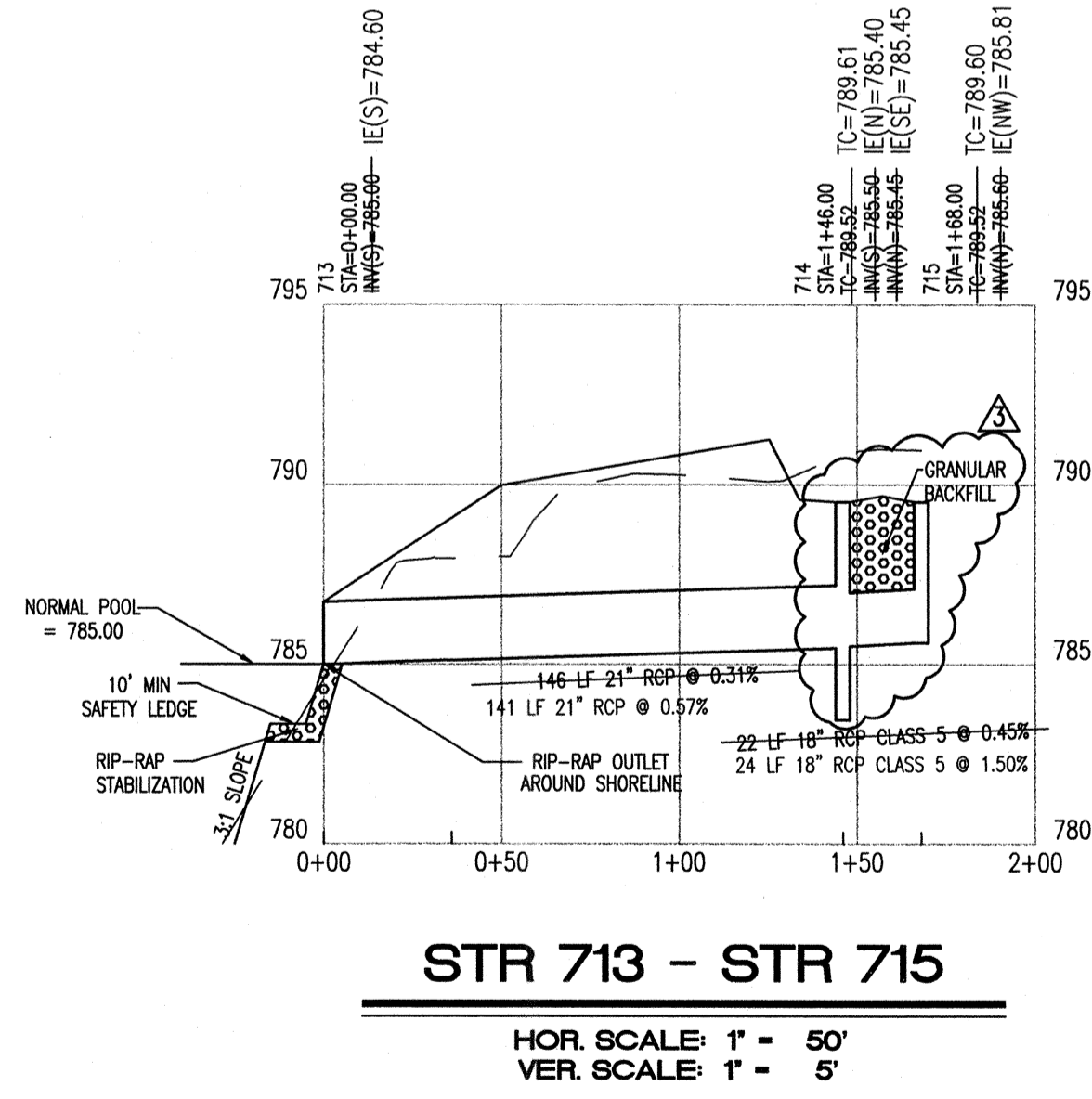
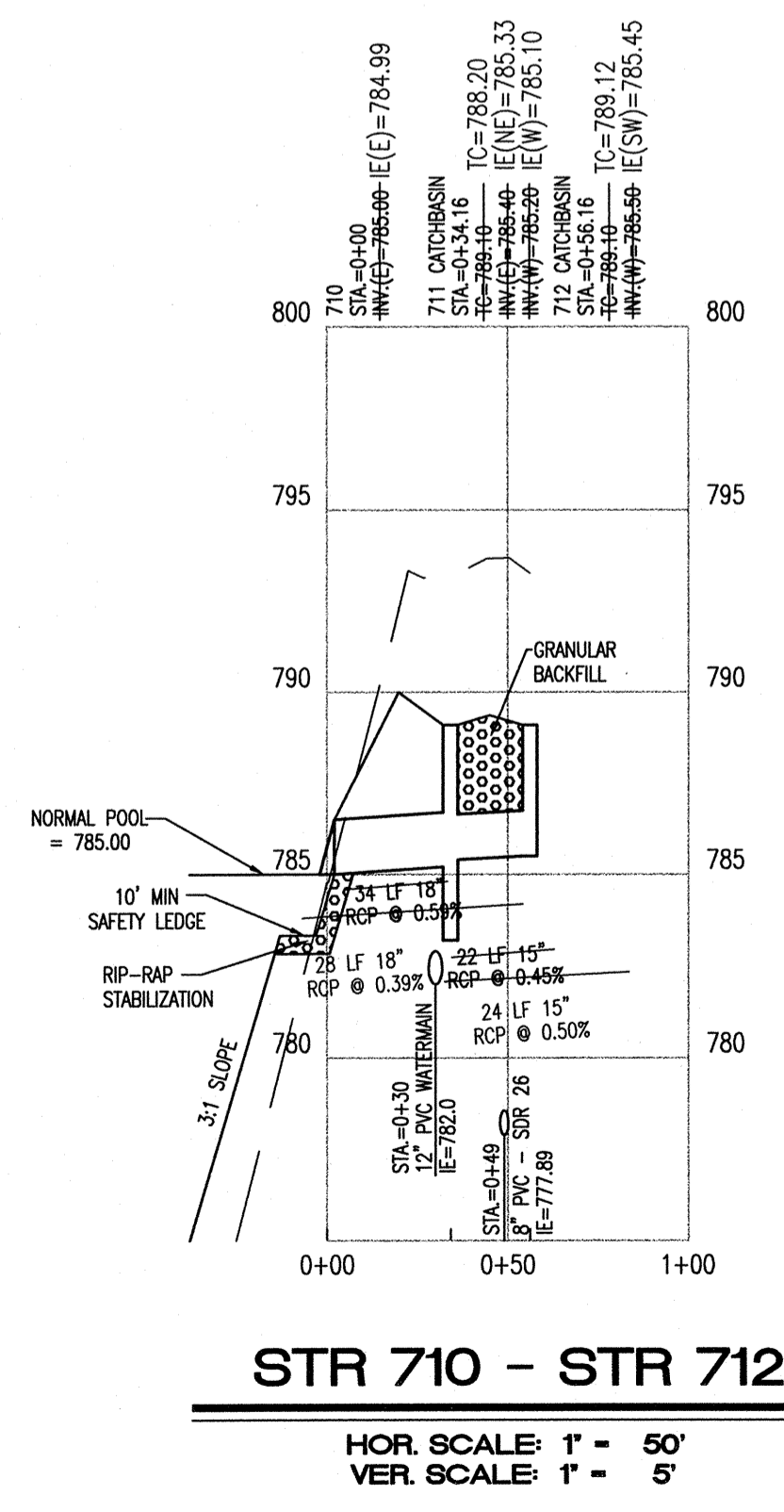


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1-800-428-5200
FOR CALLS OUTSIDE OF INDIANA

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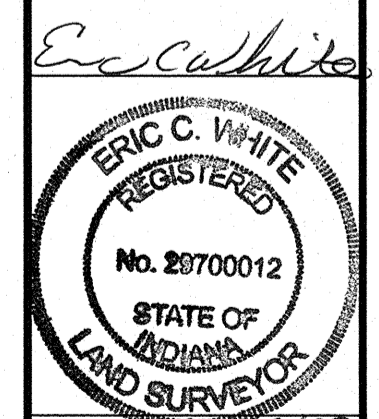
Revised	Date	By	Reason
2-19-07			REVISED PER SANDO LETTER (E-07-07)
4-14-07			REVISED PER SANDO LETTER (S-14-07) AND INC. MARKUPS (S-12-07)
4-30-07			REVISED PER SANDO LETTER AND INC. MARKUPS (S-14-07)
8-28-07			REVISED PER HAMILTON COUNTY SURVEYOR AND DEPT. COMMENTS
9-14-07			REVISED PER USDO COMMENTS AND PLAN DISCREPANCIES
10-12-07			REVISED PER USDO COMMENTS

ARCHITECTURE
CIVIL/TRANSPORTATION ENGINEERS
LAND PLANNING
LAND SURVEYING
GIS
OWNER REPRESENTATION

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INDIANAPOLIS, INDIANA 46250
(317) 842-6777 FAX (317) 841-4798
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STORM PLAN AND PROFILE SECTION 10
THE SPRINGS OF CAMBRIDGE MARINA I, LP
11691 FALL CREEK ROAD
INDIANAPOLIS, IN 46256
PH. (317) 845-0270 FAX. (317) 845-0766



Drawn By: AFERSTAD

Checked By: MROOS

Quality Assurance:

Scale: 1" = 80'

Sheet: **C702**

Date: 03-18-08

Project Number: 0990460-30020