Drain: INTRACOASTAL AT GEIST **Drain #:** 334

Improvement/Arm: SECTIONS 2A, 2C & 3A

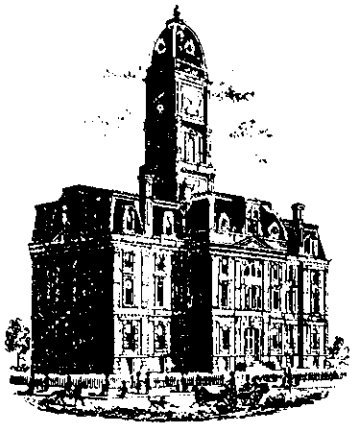
Operator: JH, JWL **Date:** 3-30-04

Drain Classification: (Urban)/Rural **Year Installed:** 2003

GIS Drain Input Checklist

• Pull Source Documents for Scanning	JH
• Digitize & Attribute Tile Drains	
• Digitize & Attribute Storm Drains	
• Digitize & Attribute SSD	
• Digitize & Attribute Open Ditch	
• Stamp Plans	
• Sum drain lengths & Validate	
• Enter Improvements into Posse	LLM
• Enter Drain Age into Posse	JWJ 5-30
• Sum drain length for Watershed in Posse	JWJ 3-30
• Check Database entries for errors	

This copy is from the Digital Archive of the Hamilton County Surveyor's Office; Noblesville, In 46060



SURVEYOR'S OFFICE

Hamilton County

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

October 23, 2003

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

TO: Hamilton County Drainage Board

RE: The Intracoastal at Geist Drain, Section 2A Arm

Attached is a petition filed by Centex Homes along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Section 2A Arm, The Intracoastal at Geist 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	1,730 ft.	21" RCP	86 ft.
12" RCP	477 ft.	24" RCP	164 ft.

The total length of the drain will be 2,457 feet.

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 easement (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 $ 5.00 per acre for common areas, $65.00 for platted lots, $10.00 per acre for roadways, with a $ 65.00 minimum. With this assessment the total annual assessment for this drain/this section will be $1,203.30.

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/Letter of Credit are as follows:

Agent: Safeco Insurance Company
Date: August 8, 2003
Number: 6236118
For: Storm Sewer
Amount: $39,722.25

Agent: Safeco Insurance Company
Date: August 8, 2003
Number: 6236119
For: Erosion Control
Amount: $2,944.20

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.

This copy is from the Digital Archive of the Hamilton County Surveyor's Office; Noblesville, In 46060

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 The Intracoastal at Geist, Section 2A as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for November 24, 2003.

Kenton C. Ward
Hamilton County Surveyor

KCW/pll

This copy is from the Digital Archive of the Hamilton County Surveyor's Office; Noblesville, In 46060

CONSULTING ENGINEERS
LAND SURVEYORS

R.M. Stoeppelwerth, PE, PLS • David J. Stoeppelwerth, PE, PLS • Curtis C. Huff, PLS • Dennis D. Olmstead, PLS • Jeffory W. Darling, PLS

August 15, 2003

Hamilton County Surveyor
One Hamilton County Square
Suite 188
Noblesville, Indiana 46060

Attention: Jerry Liston

Re: The Intracoastal at Geist, Section 2A

Dear Mr. Liston:

Please accept the following Engineer's Estimate for The Intracoastal at Geist, Section 2A. The amounts are as follows:

Engineer's Estimate: The Intracoastal at Geist Section 2A

Description	Quantity	Unit	Unit Price	Total
Storm Sewer				
Curb Inlet	5	EA	$1,457.80	$7,289.00
Curb Inlet w/ Manhole	1	EA	$1,792.25	$1,792.25
Yard Inlet	2	EA	$2,034.10	$4,068.20
4" Subsurface Drain Lateral w/ Bedding/Backfill	180	LF	$4.40	$792.00
6" Subsurface Curb Drain w/Bed/Backfill	1,645	LF	$4.40	$7,238.00
12" RCP CL 3 w/ Bedding/Backfill	469	LF	$21.30	$9,989.70
21" RCP CL 3 w/ Bedding/Backfill	86	LF	$31.25	$2,687.50
24" RCP CL 3 w/ Bedding/Backfill	156	LF	$37.60	$5,865.60
Total				**$39,722.25**
Erosion Control				
Temporary Seeding	24,675	SF	$0.04	$987.00
Swale Seeding	7,380	SF	$0.05	$369.00
4' Swale Mat	295	LF	$0.56	$165.20
Silt Fence	820	LF	$1.25	$1,025.00

This copy is from the Digital Archive of the Hamilton County Surveyor's Office, Noblesville, Indiana 46060
9940 Digital Archive • Tel: (317) 849-5935 • 800-728-6917 • Fax: (317) 849-5942
recycled paper

Inlet Protection	1	LSUM	$398.00	$398.00
Total				**$2,944.20**
Monuments/Markers				
Copperwelds	7	EA	$130.00	$910.00
Total				**$910.00**

Witness my signature this 19th day of AUGUST, 2003.

David J. Stoeppelwerth
Professional Engineer
No. 19358

DAVID J. STOEPPELWERTH REGISTERED No. 19358 STATE OF INDIANA PROFESSIONAL ENGINEER

S/34090S2A/Agency/EngEst

This copy is from the Digital Archive of the Hamilton County Surveyor's Office; Noblesville, In 46060

HCDB 2003-00058

SUBDIVISION BOND

FILE COPY

Bond No. 6236119

KNOW ALL MEN BY THESE PRESENTS, that we CENTEX HOMES, A Nevada General Partnership

as Principal, and SAFECO INSURANCE COMPANY OF AMERICA

authorized to do business in the State of Indiana, as Surety, are held and firmly bound unto Hamilton County Board of Commissioners

as Obligee, in the penal sum of Two Thousand Nine Hundred Forty Four and 20/100 ---------- ($ 2,944.20) DOLLARS, lawful money of the United States of America, for the payment of which well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, CENTEX HOMES, A Nevada General Partnership has agreed to construct in The Intracoastal at Geist Section 2A

the following improvements: Erosion Control

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that if the said Principal shall construct, or have constructed, the improvements herein described and shall save the Obligee harmless from any loss, cost or damage by reason of its failure to complete said work, then this obligation shall be null and void; otherwise to remain in full force and effect.

Signed, sealed and dated this 8th day of August, 2003.

CENTEX HOMES, A Nevada General Partnership
Principal

By: _____

SAFECO INSURANCE COMPANY OF AMERICA

By: _____
ALLYSON DEAN
Attorney-in-Fact

S-3689/GEEF 2/98

This copy is from the Digital Archive of the Hamilton County Surveyor's Office; Noblesville, In 46060

HCDB 2003-00057

SUBDIVISION BOND

FILE COPY

Bond No. 6236118

KNOW ALL MEN BY THESE PRESENTS, that we CENTEX HOMES, A Nevada General Partnership

as Principal, and SAFECO INSURANCE COMPANY OF AMERICA

authorized to do business in the State of Indiana, as Surety, are held and firmly bound unto Hamilton County Board of Commissioners

as Obligee, in the penal sum of Thirty Nine Thousand Seven Hundred Twenty Two and 25/100 ---------- ($ 39,722.25) DOLLARS, lawful money of the United States of America, for the payment of which well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, CENTEX HOMES, A Nevada General Partnership has agreed to construct in The Intracoastal at Geist Section 2A

the following improvements: Storm Sewer

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that if the said Principal shall construct, or have constructed, the improvements herein described and shall save the Obligee harmless from any loss, cost or damage by reason of its failure to complete said work, then this obligation shall be null and void; otherwise to remain in full force and effect.

Signed, sealed and dated this 8th day of August, 2003.

CENTEX HOMES, A Nevada General Partnership
Principal

By: [signature]

SAFECO INSURANCE COMPANY OF AMERICA

By: [signature]
ALLYSON DEAN
Attorney-in-Fact

S-3689/GEEF 2/98

This copy is from the Digital Archive of the Hamilton County Surveyor's Office; Noblesville, In 46060

CONSULTING ENGINEERS • LAND SURVEYORS

David J. Stoeppelwerth, P.E., P.L.S.
President, C.E.O.

Curtis C. Huff, P.L.S.
Vice-President, C.O.O.

R.M. Stoeppelwerth, P.E., P.L.S.
President Emeritus

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: The Intracoastal at Geist, Section 2A

I hereby certify that:

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

Signature: Jeffory W Darling Date: February 16, 2005

Type or Print Name: Jeffory W. Darling

Business Address: Stoeppelwerth & Associates, Inc.

9940 Allisonville Road, Fishers, Indiana 46038

Telephone Number: (317) 849-5935

SEAL

INDIANA REGISTRATION NUMBER

900017

JEFFORY W. DARLING
REGISTERED
No.
900017
STATE OF
INDIANA
LAND SURVEYOR

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

To: Hamilton County Drainage Board **September 1, 2005**

Re: Intracoastal at Geist Drain: Section 2A Arm

Attached are as-builts, certificate of completion & compliance, and other information for Intracoastal at Geist Section 2A Arm. An inspection of the drainage facilities for this section has been made and the facilities were found to be complete and acceptable.

During construction, changes were made to the drain, which will alter the plans submitted with my report for this drain-dated October 23, 2003. The report was approved by the Board at the hearing held November 24, 2003. (See Drainage Board Minutes Book 7, Pages 263-265) The changes are as follows:

Structure:	Length:	Size	Material:	Up Invert:	Dn_Invert	Grade:	Changes:
141-140	28	12	RCP	795.3	795.16	0.5	
140-117	132	12	RCP	795.16	795.53	1.23	
153-152	28	12	RCP	799.05	798.69	1.29	
152-145	127	12	RCP	798.69	796.77	1.51	
147-146	165	12	RCP	803.89	797	1.95	3
146-145	85	21	RCP	797	796.77	0.27	-1
145-144	28	24	RCP	796.77	796.62	0.54	
144-109	136	24	RCP	796.62	796.06	0.41	

6" SSD Streets:

Starboard Rd	306.5
Lattitude Way	191.5
Mast Ct	325.5
Totalx2:	1647

RCP Pipe Totals:

12	480
21	85
24	164
Total:	729

The length of the drain due to the changes described above is now **2376 feet.**

The non-enforcement was approved by the Board at its meeting on November 24, 2003 and recorded under instrument #200400000047.

The following sureties were guaranteed by SAFECO Insurance Company and released by the Board on its August 22, 2005 meeting.

This copy is from the Digital Archive of the Hamilton County Surveyor's Office; Noblesville, In 46060

Bond-LC No: 6236118
Insured For: Storm Sewers
Amount: $39,722.25
Issue Date: August 8, 2003

Bond-LC No: 6236119
Insured For: Erosion Control
Amount: $2,944.2
Issue Date: August 8, 2003

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

Sincerely,

Kenton C. Ward,
Hamilton County Surveyor

KCW/slm

This copy is from the Digital Archive of the Hamilton County Surveyor's Office; Noblesville, In 46060

NOTE: 1. THE EXISTING PAVEMENT AND CURB MUST BE SAW AND CUT TO PROVIDE A SMOOTH TRANSITION ON ALL STUB STREET CONNECTIONS TO SECTION 1.

2. CONTRACTOR SHALL STAMP THE LETTER "S" IN THE CURB PERPENDICULAR TO THE LATERAL MARKER.

HAMILTON COUNTY INDIANA 1823

This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.

Entry Date: 8-15-2005

Entered by: SIM

BENCHMARK:
(VERTICAL DATUM–NAVD1988)
HSE 9
HSE DISC IN CONCRETE AT WEST BOUNDARY
OF THE INTRACOASTAL. SET 70'± SOUTH
OF 113TH STREET 1/4 MILE WEST OF FLORIDA ROAD.

ELEV.=808.39

(HORIZONTAL DATUM–NAD1983)
G217
CENTER OF SECTION 06–T17N–6E
5/8" REBAR(1996).

S.&A. #1
(VERTICAL DATUM–NAVD1988)
MINI–SPIKE IN THE SOUTH FACE OF POWER
POLE 24" UP. 376'± SOUTH OF 113TH STREET
446'± WEST OF FLORIDA ROAD.

ELEV.=795.76

AS BUILT

STORM TABLE

Str. No.	Type	Tc/Rim	Inverts	Dir.
140	CURB INLET	798.92	795.16	(E)(W)
141	CURB INLET	798.74	795.30	(W)
144	CURB INLET	800.92	796.62	(SE)(NW)
145	CURB INLET W/MANHOLE	800.95	796.77	(NW)(SE)(E)
146	YARD INLET	* 801.81	797.00	(NE)(SE)
147	YARD INLET	803.89	800.22	(SW)
152	CURB INLET	802.32	798.69	(W)(SE)
153	CURB INLET	802.33	799.05	(NW)

* See profile = 800.81 SIM 8-15-2005

RECORD DRAWING

JEFFORY W. DARLING
Registered Land Surveyor
No. 900017

2/10/05
DATE

JEFFORY W. DARLING REGISTERED No. 900017 STATE OF INDIANA LAND SURVEYOR

LEGEND

- EXISTING CONTOUR
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- PROPOSED GRADE
- PROPOSED CONTOUR
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED SWALE
- PROPOSED 4' SIDEWALK (BY HOME BUILDER)
- M.E. MATCH EXISTING
- 31 / N.P. LOT NUMBER / NO PAD
- M.F.F. = MINIMUM FINISH FIRST FLOOR ELEVATION
- M.F.G. = MINIMUM FINISH GRADE AROUND HOME (FLOOD PROTECTION GRADE = 791.4)
- DENOTES RIP–RAP ALONG SHORE LINE
- DENOTES 4" SUBSURFACE DRAIN TO LOT
- DENOTES 6" SUBSURFACE DRAIN (PER HAMILTON COUNTY SURVEYOR'S OFFICE STANDARDS)
- ROLL CURB

SCALE: 1"= 50'

NOTE: DECORATIVE SIGNS, SPRINKLER SYSTEMS, TREES, LANDSCAPING MOUNDS, LIGHT POLES, OR OTHER SUCH AMENITIES ARE NOT PERMITTED IN THE RIGHT OF WAY.

NOTE: ALL OFF–SITE DRAIN TILES SHALL BE TIED INTO THE PROPOSED STORM SYSTEM OF THIS SECTION (WHERE APPLICABLE).

ALL PADS SHOULD BE TESTED TO ASSURE A COMPACTION OF AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY USING THE STANDARD PROCTOR TEST METHOD.

EARTHWORK:

1. EXCAVATION
   - A. Excavated material that is suitable may be used for fills. All unsuitable material and all surplus excavated material not required shall be removed from the site.
   - B. Provide and place any additional fill material from offsite as may be necessary to produce the grades required on plans. Fill obtained from offsite shall be of quality as specified for fills herein and the source approved by the Developer. It will be the responsibility of the Contractor for any costs for fill needed.
2. REMOVAL OF TREES
   - A. All trees and stumps shall be removed from areas to be occupied by a road surface or structure area. Trees and stumps shall not be buried on site.
3. PROTECTION OF TREES
   - A. The Contractor shall, at the direction of the Developer, endeavor to save and protect trees of value and worth which do not impair construction of improvements as designed.
   - B. In the event cut or fill exceeds 0.5 foot over the root area, the Developer shall be consulted with respect to protective measure to be taken, if any, to preserve such trees.
4. REMOVAL OF TOPSOIL
   - A. All topsoil shall be removed from all areas beneath future pavements or building. Topsoil removal shall be to a minimum depth of 6 inches or to the depth indicated in the geotechmical report provided by the Developer to be excavated or filled. Topsoil should be stored at a location where it will not interfere with construction operations. The topsoil shall be free of debris and stones.
5. UTILITIES
   - A. Rules and regulation governing the respective utility shall be observed in executing all work under this section.
   - B. It shall be the responsibility of the Contractor to determine the location of existing underground utilities 2 working days prior to commencing work. For utility locations to be marked call Toll Free 1–800–382–5544 within Indiana or 1–800–428–5200 outside Indiana.
6. SITE GRADING
   - A. Do all cutting, filling, compacting of fills and rough grading required to bring entire project area to subgrade as shown on the drawing.
   - B. The tolerance for paved areas shall not exceed 0.05 feet above established subgrade. All other areas shall not exceed 0.05 feet plus or minus the established grade. Provide roundings at top and bottom of banks and other breaks in grade.
   - C. The Engineer shall be notified when the Contractor has reached the tolerance as stated above, so that field measurements and spot elevations can be verified by the Engineer. The Contractor shall not remove his equipment from the site until the Engineer has verified that the job meets the above tolerance.

"HOLEY MOLEY" SAYS:

1–800–382–5544
CALL TOLL FREE

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

CAUTION

LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE. (including, but not limited to, manholes, inlets, valves, & 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.

BY	DATE	MARK	REVISIONS
BAH	2/10/05		AS BUILT
BAH	3/28/05		ADD LOT DIMENSIONS
BAH	8/4/05		REVISED PER HSE COMMENTS
BMK	4/21/05		REVISED PER HSE COMMENTS
BMK	12/10/05		REVISED PER TAC COMMENTS
RVG			

DWN. BY BAH
CK. BY EEF
SCALE 1"=50'
DATE 11/18/02

CERTIFIED: 10/23/02

LAND J. STOEPPELWERTH REGISTERED No. 19358 STATE OF INDIANA PROFESSIONAL ENGINEER

David J. Stoeppelwerth

CONSULTING ENGINEERS – LAND SURVEYORS
(317) 849–5935 1–800–728–6917 FAX:(317) 849–5942
INDIANAPOLIS INDIANA

SITE DEVELOPMENT PLAN
THE INTRACOASTAL AT GEIST
SECTION 2A
HAMILTON COUNTY INDIANA

SHEET NO. 3
OF 17 SHEETS
JOB NO. 34090

S:\34090S2A\dwg\C200 AB-GRD1.dwg, Layout1, 2/15/2005 3:12:00 PM, rglveat, 1:1

This copy is from the Digital Archive of the Hamilton County Surveyor's Office; Noblesville, In 46060

RECORD DRAWING

JEFFORY W. DARLING
Registered Land Surveyor
No. 900017

2/10/05
DATE

JEFFORY W. DARLING REGISTERED No. 900017 STATE OF INDIANA LAND SURVEYOR

CURB INLET TABLE

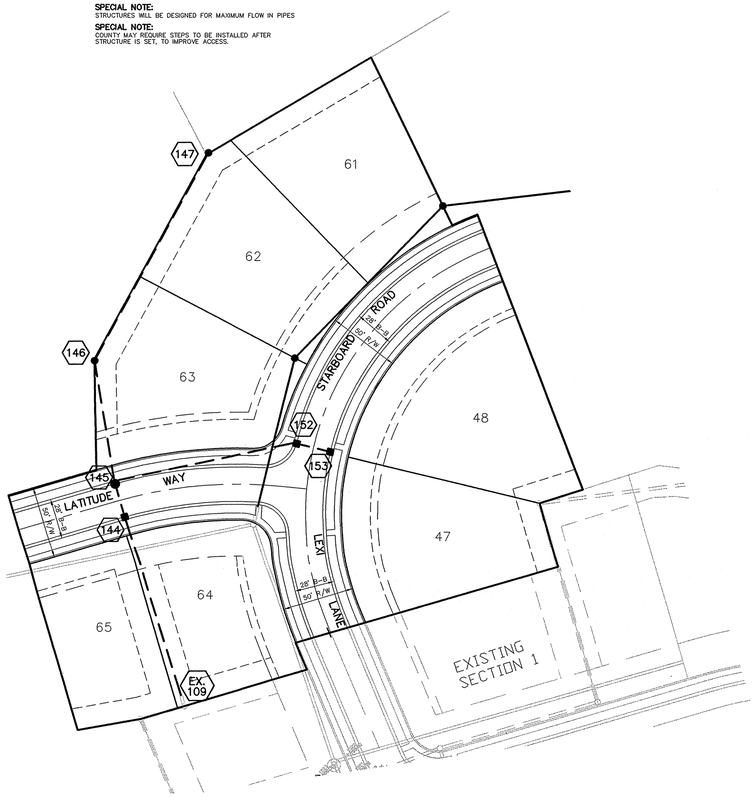
PIPE SIZE	STRUCTURES LESS THAN 48" FROM T/C TO INVERT	STRUCTURES GREATER THAN 48" FROM T/C TO INVERT	ANGLE AND QUALITY OF PIPES WILL REQUIRE SPECIAL DESIGN	STEPS REQUIRED	CURB CASTING *R-3501 N	CASTING *3501 TL & TR
12" to 18"	24"x24"		DESIGN APPROVAL	No	Yes	Yes
12" to 21"	30"x30"		DESIGN APPROVAL	No	Yes	Yes
18" to 21"		MH/BOX	DESIGN APPROVAL	Yes	Yes	Yes
21" to 27"	24"x36"		DESIGN APPROVAL	No	No	Yes
12" to 24"	36"x36"		DESIGN APPROVAL	No	Yes	Yes
24" OR LARGER	DESIGN APPROVAL		DESIGN APPROVAL	No	No	Yes
24" or LARGER		MH/BOX	DESIGN APPROVAL	Yes**	Yes	Yes

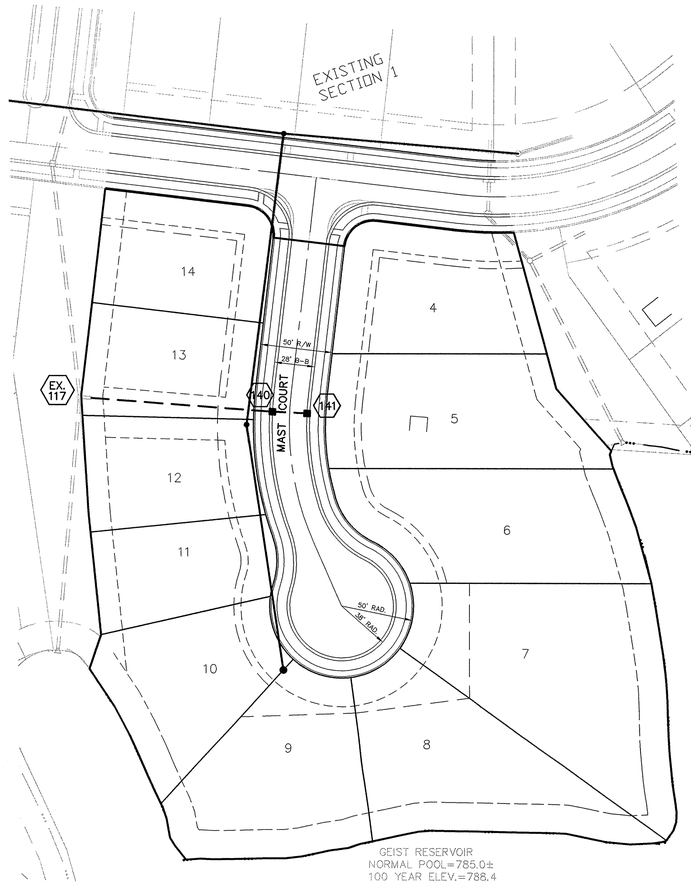
* PIPES NO LARGER THAN 18" CAN BE USED IN THE 2' SIDE OF THIS BOX
** INCOMING AND OUT GOING PIPES EFFECT STEPS IN THIS STRUCTURE

SPECIAL NOTE:
STRUCTURES DEEPER THAN 48" FROM T/C TO INVERT WILL BE A M.H. OR A BOX WITH STEPS UNLESS SPECIAL DESIGN IS APPROVED.

SPECIAL NOTE:
STRUCTURES WILL BE DESIGNED FOR MAXIMUM FLOW IN PIPES

SPECIAL NOTE:
COUNTY MAY REQUIRE STEPS TO BE INSTALLED AFTER STRUCTURE IS SET, TO IMPROVE ACCESS.





SCALE: 1"= 50'

DAVID J. STOEPPELWERTH REGISTERED No. 19358 STATE OF INDIANA PROFESSIONAL ENGINEER

CERTIFIED: 10/23/02

David J. Stoeppelwerth

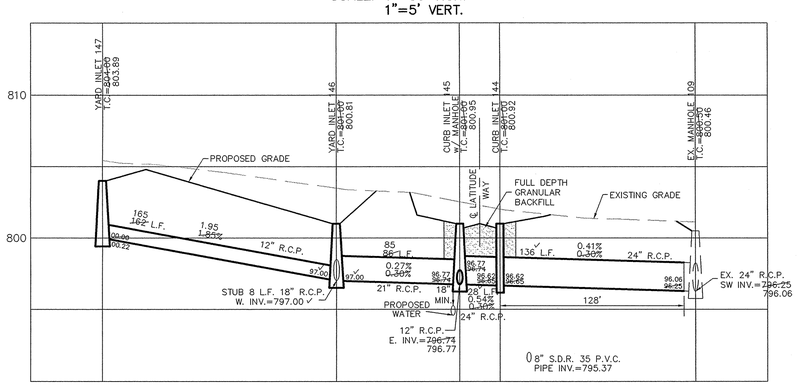
HAMILTON COUNTY INDIANA 1823

This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.

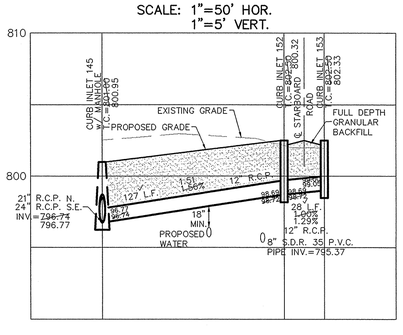
Entry Date: 8-15-2005

Entered by: SLM

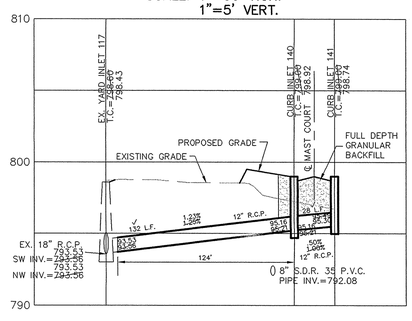
SCALE: 1"=50' HOR.
1"=5' VERT.



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



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



CONSULTING ENGINEERS – LAND SURVEYORS
(317) 849-5935 1-800-728-6917 FAX:(317) 849-5942
INDIANAPOLIS INDIANA

STORM SEWER PLAN & PROFILE
THE INTRACOASTAL AT GEIST
SECTION 2A
HAMILTON COUNTY INDIANA

BY	REVISIONS	MARK	DATE
RHG	AS BUILT		2/10/05
BAH	REVISED PER HSE COMMENTS		8/4/03

DWG. BY: BAH
CK. BY: EEF
SCALE: 1"=50'
DATE: 11/18/02

SHEET NO. 10 OF 17 SHEETS
JOB NO. 34090

This copy is from the Digital Archive of the Hamilton County Surveyor's Office, Noblesville, IN 46060