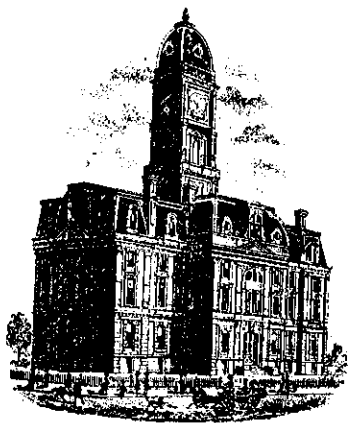


Drain: John BEAVER # 144
Improvement: _____
Operator: J. LIVINGSTON
Date: 10-14-03

GIS Drain Input Checklist

- Digitize & Attribute Tile Drains N/A
- Digitize & Attribute Storm Drains SLM 3-21-02
- Digitize & Attribute SSD N/A
- Digitize & Attribute Open Ditch N/A
- Sum drain lengths & Validate SLM 3-21-02
- Enter Improvements into Posse SLM 3-21-02
- Enter Drain Age into Posse July 10-14-03
- Sum drain length for Watershed in Posse July 10-14-03
- Stamp Plans SLM 3-21-02
- Pull Source Documents for Scanning SLM 3-21-02

11-21-2003 Summary QC'd okay ✓ SLM



SURVEYOR'S OFFICE
Hamilton County

Kenton C. Ward, Surveyor

776-9626

942 Maple Avenue

Noblesville, Indiana 46060 February 21, 1989

TO: Hamilton County Drainage Board

RE: John Beaver Drain

Attached is a petition for the reconstruction of the John Beaver Drain filed by the Mansur Corporation. The petition is accompanied by plan for the reconstruction and calculations for the proposed system. The plans and accompanying documentation is to be considered as part of this report.

The proposed system will eliminate the majority of the John Beaver Drain as modified from the original 1882 drain, which was discussed in my report to the Board dated June 1, 1981. The drain from STA 0 to STA 36+00 will be completely relocated as shown on the attached plan. A series of two lakes will replace the major portion of the drain. The pipe between the lakes, 80' of 42" RCP along with the outlet for the second lake, 405 feet of 36" RCP, will be relocated drain. The total length of the drain will now be 485 feet. The new terminus of the drain will be approximately 650 feet upstream of the existing in Mud Creek.

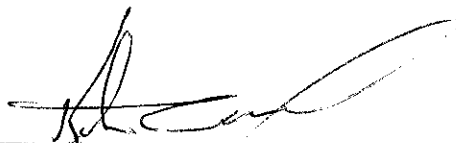
The proposed lakes will not be part of the drain, but will be the maintenance responsibility of the Mansur Corporation until a Homeowners Association is formed to undertake the maintenance. The regulated drain which will be maintained will be the sections from STA 0+00 to STA 4+05 and STA 22+10 to STA 22+90 on the attached plan.

The reconstruction of the drain is necessary to accommodate the proposed construction of Hamilton Proper. The cost of the reconstruction is to be paid by the Mansur Corporation. Upon review of the plans and documentation I believe the reconstruction of the drain shall be of benefit to the drainage shed. Because of the proposed development for the drainage shed the character

of the shed will change from rural to urban. Therefore, I recommend the drain be classified as Urban Drain.

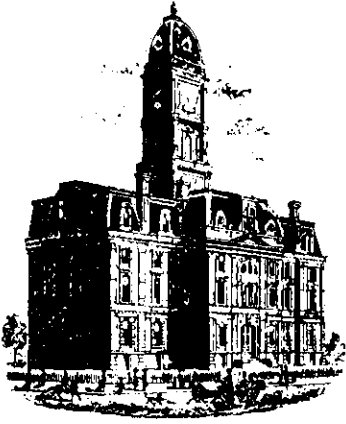
At this time I do not believe a change in the drainage shed nor in the drainage assessment should be made.

I recommend a hearing be set for April 1989. If approved at the hearing I recommend that the petition be given one (1) year from date of approval for completion and submit a performance bond or letter of credit for 100% of the estimate within thirty (30) days of approval. Said surity to run for a two (2) year period. The surity is to be released upon final inspection by the Surveyor and submittal of "As Built" Drawings.



Kenton C. Ward
Hamilton County Surveyor

KCW/no



SURVEYOR'S OFFICE
Hamilton County

Kenton C. Ward, Surveyor

Phone (317) 776-8495

Fax (317) 776-9628

Suite 146

One Hamilton County Square

Noblesville, Indiana 46060-2230

January 29, 1998

Mr. Jeff Pape
Mansur Development

Re: John Beaver Drain
Mansur Relocation

The Hamilton County Surveyors Office conducted an inspection of the John Beaver Drain on January 28, 1998. The drain was relocated by Mansur Development across the Hawthorne's Golf Club. Although the relocation has been completed for some time, the surveyor's office recently discovered the relocation had not been inspected.

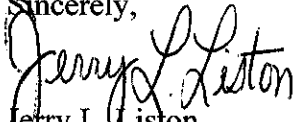
The following punchlist items will need to be addressed before the relocation will be accepted as part of the county's regulated drain system.

- ① Structure # 602 (concrete end section) End section OK. Found large washed area east of end section. Repair washed area to prevent further sedimentation from entering Nancy Kimberlain Drain (Mud Creek). A rock chute structure or surface water pipe would be suitable to allow surface water to enter drain without washing out bank.
- ✓ 2. Structure # 603 Buildup flowline in structure. Place and secure grate on structure. Backfill and regrade around structure.
3. Lake between structures 603-606 not constructed. Lake is to be constructed when Mansur develops the remaining property south of Mud Creek.
- ④ Structure # 606 (concrete end section) Clean off end section.
- ⑤ Structure # 607 (concrete end section) Place trash guard on end section. The plans do not depict a trash guard. However, the surveyor's office is requesting the trash guard to prevent trash and debris from entering and obstructing the 18" pipe between end sections.
6. Lake between structures 607-610 constructed.
7. Structure # 610 The plans depict a end section on pipe. The inspection revealed no end section. Install end section on 18" pipe at lake.

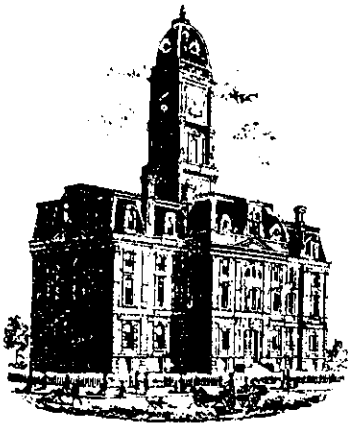
8. Structure # 611 Clean sediment from structure. Construct flowline in structure. Grout structure and riser rings. Install steps in structure. Place R 4342 casting on structure (no casting on structure). Backfill and regrade area around structure. Place erosion control on structure to prevent sedimentation from entering structure and pipe. Remove small willow trees from around structure prior to regrading. Remove large mound of dirt south of structure. Stabilize area with seed.
9. Flush 18" pipe between structures 610-611. Remove accumulation of sediment from pipe. Sediment has entered storm pipe from area around structure 611.
10. The remaining drainage facilities shown on the plans were not inspected and will remain part of the golf courses private drainage system. These are structures 600, 601, 605, 604 and the storm pipes between the structures.
11. The surveyor's office will need asbuilt drawings for the regulated portion of the relocated drain. Please have your engineer prepare and submit these drawings.

If you have any questions, I can be reached at 776-8495.

Sincerely,


Jerry L. Liston
Inspector

cc: Commissioners
Jim Barnett



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

January 8, 2001

Mr. Jody Wallace
Central Engineering Construction
P.O. Box 605
Greenfield, IN. 46140

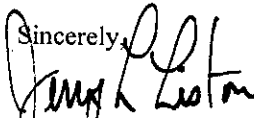
**Re: John Beaver Drain
Mansur Relocation**

The Hamilton County Surveyors Office conducted a re-inspection of the John Beaver Drain relocation by Mansur on January 5, 2001.

The following punchlist items from my letter of January 29, 1998 still need to be addressed before the relocation will be accepted as part of the county's regulated drain system.

- ✓ 1. Found large washed area East of Structure 602 on south side of the Nancy Kimberlain (Mud Creek) Drain. Repair washed area to prevent further sedimentation from entering the drain. A rip rap rock chute structure or surface water pipe would be suitable to allow surface water from the golf course to enter the drain without washing out the bank.
- ✓ 2. **Structure # 603** Secure grate on structure.
- ✓ 3. **Structure # 606** (Concrete end section) Clean off end section.
- ✓ 4. **Structure # 607** (Concrete end section) Clean off end section.
- ✓ 5. Flush storm pipe between structures 606 and 607.
6. Several newly planted trees will need to be removed from the regulated drain easement between structure 602 and Mud Creek.
7. The surveyor's office will need Record Drawings for the regulated portion of the relocated drain. Please have your engineer prepare and submit these drawings.

If you have any questions, I can be reached at 776-8495.

Sincerely,

Jerry L. Liston
Inspector

CC: Stu Huckleberry

REPAIR SETTLED PIPE AND END SECTION NORTH



SURVEYOR'S OFFICE
Hamilton County

Kenton C. Ward, Surveyor

Phone (317) 776-8495

Tax (317) 776-9628

Suite 188

One Hamilton County Square
Noblesville, Indiana 46060-2230

January 17, 2001

Karen Horth Powers
Central Engineering & Construction Associates, Inc.
3862 N. Commercial Parkway
P.O. Box 605
Greenfield, IN. 46140

**Re: John Beaver Drain
Mansur Relocation**

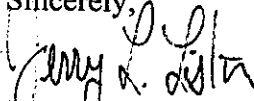
The Hamilton County Surveyors Office conducted a re-inspection of the John Beaver Drain relocation by Mansur on January 16, 2001.

The following punchlist items from my letter of January 8, 2001 were found addressed, however before the relocation will be accepted as part of the county's regulated drain system the item below needs to be addressed.

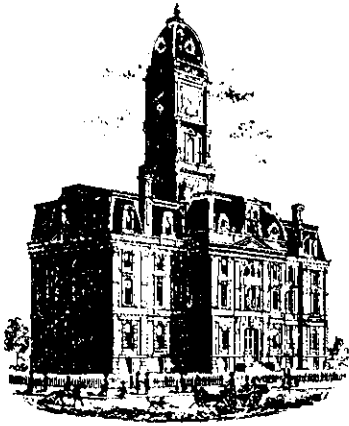
1. The removal of sedimentation from the storm pipe between structures 606 and 607 revealed the pipe had separated or settled north of 607. This may be from the installation of the main irrigation system for the golf course. Repair as needed and contact me for a re-inspection.

If you have any questions, I can be reached at 776-8495.

Sincerely,


Jerry L. Liston
Inspector

CC: Stu Huckleberry



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*

March 6, 2002

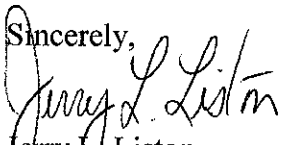
Karen Horth Powers
Central Engineering & Construction Associates, Inc.
3862 N. Commercial Parkway
Greenfield, IN. 46140

**Re: John Beaver Drain
Mansur Relocation**

The Hamilton County Surveyor's Office has conducted a re-inspection of the John Beaver Drain relocation by Mansur.

The punchlist items from my previous letters were found addressed satisfactorily by your company.

If you have any questions, I can be reached at 776-8495.

Sincerely,

Jerry L. Liston
Inspector

CC: Mike Terry

HAMILTON COUNTY SURVEYORS OFFICE
FIELD REPORT

Name of Drain or Project:

JOHN BEAVER DRAIN (RELOCATION)

Date: 5/28/1992 Time: _____ Temperature: _____

Weather Conditions: _____

Location:

SOUTH OF 116TH STREET, EAST OF HOOSIER ROAD

Purpose:

SITE VISIT

Findings:

FIND. DIRT BEING MOVED ONSITE, NO STORM SEWER INSTALLATION YET.

Persons Present:

J. LISTON H.C.S.O.

Submitted by:

Jerry L. Liston

Central Engineering &
Construction Associates,
Inc.

3862 N. Commercial Parkway, Greenfield, IN 46140

FAX

Date: 09/15/00

Number of pages including cover sheet: 1

To: **Jerry Liston**

Phone: 776-8495

Fax phone:

cc: Jeff Pape

From: **Tim Barr**

Phone: 894-1990

Fax phone: 894-1890

REMARKS: Urgent For your review Reply ASAP Please comment

Jerry,

On Sept. 5th we discussed the completion of the Beaver Legal Drain punchlist. At that time we anticipated that all of the items would be completed by Wed., Sept. 20th. Due to the sanitary sewer dewatering process associated with the Approach project, we are pumping at least 6-15" pumps of ground water into this Legal Drain area; therefore, completing this punchlist by Sept. 20th may not be possible. We will keep you informed of the dewatering status and we will coordinate the completion of the punchlist with you.

Tim

LETTER OF TRANSMITTAL

TO: Hamilton County Surveyor
Jerry Liston
One Hamilton Square, Suite 188
Noblesville, Indiana 46060

JOB NO: 9316
DATE: August 22, 2000
RE: John Beaver Regulated Drain
Fishers, Indiana

WE ARE SENDING YOU THE FOLLOWING: Print; Via Mail

THESE ARE BEING TRANSMITTED : For Your Review and Comment

COPIES	DATE	NO.	DESCRIPTION
1	08/22/00		As-Built Plan

REMARKS: Please review this plan and if you have any questions or comments, please feel free to contact me.

COPIES TO: Jeff Pape, Mansur Real Estate Services, w/o encl.

File

FILED

AUG 24 2000

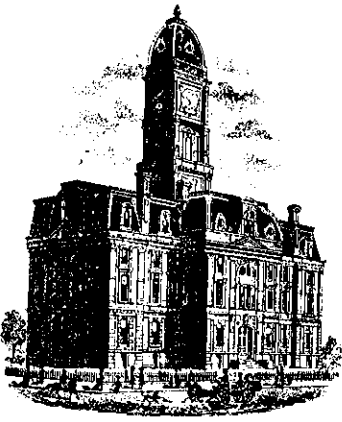
SIGNED: Mike Terry
OFFICE OF HAMILTON COUNTY SURVEYOR

If enclosures are not as noted, kindly notify us at once.

8444 Castlewood Drive, Suite 700 • Indianapolis, Indiana 46250
OFFICE (317) 577-0069 • FAX (317) 577-1879

Approved - April 20, 1992

Bk 3 pg. 16



SURVEYOR'S OFFICE
Hamilton County

Kenton C. Ward, Surveyor

776-9626

942 Maple Avenue

Noblesville, Indiana 46060

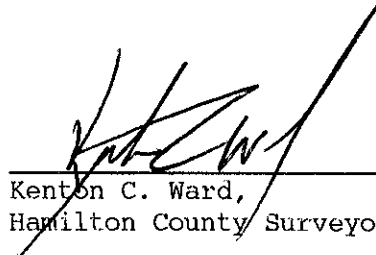
April 16, 1992

To: Hamilton County Drainage Board

Re: John Beaver Drain

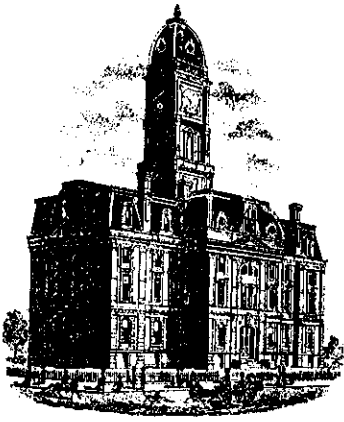
On May 15, 1989 the Board approved a reconstruction of the John Beaver Drain per my report dated February 21, 1989. At this time Mansur Corporation has requested a change in the plan based on additional calculations and plans dated February 17, 1992. The regulated drain will decrease in diameter from 80' of 42" RCP and 405' of 36" RCP to 445' of 24" RCP and 305' of 18" RCP. The decrease is a result of additional capacity in the lakes. The new regulated drain will be from Sta. 0 to 4+45 as shown on plan and profile 2, sheet C701 and from Sta. 0 to Sta 3+05 shown on plan and profile 1, sheet C702. All other requirements as set out in my report of February 21, 1989 shall remain the same.

I recommend the Board approve the request as a change order.


Kenton C. Ward,
Hamilton County Surveyor

KCW/jh

*Approved
4/20/92*



SURVEYOR'S OFFICE
Hamilton County

Kenton C. Ward, Surveyor

776-9626

942 Maple Avenue

Noblesville, Indiana 46060

December 13, 1991

To: Darrell Edwards
P.I. Cripe, Inc.

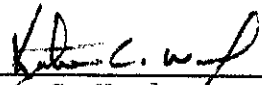
Re: Hamilton Proper Golf Course
John Beaver Drain Reconstruction

I have reviewed the revised storm water management design analysis with respect to the pipe connecting the two lakes. Since the lake storage capacity has been increased, the decrease in the proposed pipe diameter between the two lakes is warranted. This will allow the cfs from the Beaver regulated drain flowing into Mud Creek to also be reduced from the originally proposed 60 cfs to 20 cfs.

This letter should not be mis-interpreted as the outlet approval into Mud Creek. Final approval is pending construction plan submission and approval.

Thank you for your cooperation in this matter. If you have any questions or comments, please feel free to contact us at 776-9626.

Sincerely,



Kenton C. Ward,
Hamilton County Surveyor

KCW/jh

cc: Mansur
Drainage Board
Noblesville Plan
file copy

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: John Beaver Regulated Drain

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.

DG
3/17/02

Signature: Donald M. Gwinning, Jr. Date: 3/17/02

Type or Print Name: Donald M. Gwinning, Jr.

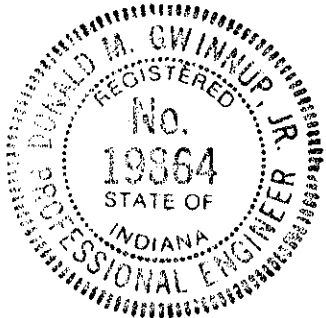
Business Address: Melton Packard & Associates
3444 Castlewood Drive # 700
Indianapolis, Indiana 46250

Telephone Number: 317-577-0069

SEAL

INDIANA REGISTRATION NUMBER

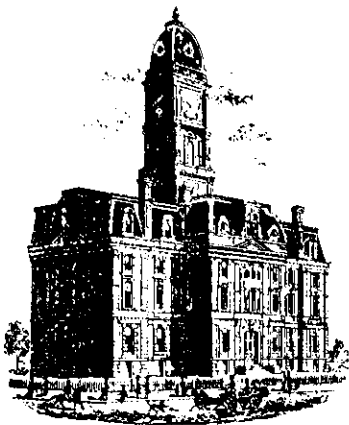
19864



FILED

MAR 19 2002

OFFICE OF HAMILTON COUNTY 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

March 22, 2002

Re: John Beaver Drain Relocation

Attached are as-builts, certificate of completion & compliance, and other information for the relocation of the John Beaver Drain done by the Mansur Corporation. 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 February 21, 1989 and April 16, 1992. The approval of these reports can be found in DR Book 2 pages 363-364 and DR Book 3 page 16. The changes are as follows: Structure 607 – 606 consists of 301 feet of 18” RCP this was shortened from 305 feet (See Original Plans -Sheet C702 Plan 1). Structure 603 –602 consists of 439 of 24” RCP this was shortened from 445 feet (See Original Plans – Sheet C701 Plan 2). The length of the drain due to the changes described above is now 740 feet. The original John Beaver Drain was vacated from Sta 0 to Sta 36+00. Therefore the drain has a total length of **740 feet**.

The easements around the south pond are per the plat for The Approach subdivision recorded in PC 2 – Slide 542. The drain is located within common area B & C. The non-enforcement for this development was recorded under instrument #2001-00029748. The easement for Structure 607-606 will be 75 feet from centerline of pipe making a total easment of 150 feet. The easement for Structure 603 to 602 will also be 75 feet from the centerline of the pipe making a total easment of 150 feet.

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 JOHN BEAVER REGULATED DRAIN

SITE WORK GENERAL NOTES AND SPECIFICATIONS

NOTICES AND PERMITS

A. LOCATION & ELEVATIONS OF "FLOODWAY LIMITS" AND "100 YEAR FLOOD LIMITS" ARE SHOWN FOR REFERENCE ONLY. DEVELOPER/BUILDER/INDIVIDUAL LOT OWNER TO REFER TO NATIONAL FLOOD HAZARD INSURANCE MAP (F.E.M.A.) TO DETERMINE FLOOD HAZARD POTENTIAL PRIOR TO INDIVIDUAL LOT/PROJECT CONSTRUCTION.

B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, OR VERIFYING, THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.

C. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING CONSTRUCTION.

D. IT SHALL BE THE CONTRACTORS RESPONSIBILITY FOR NOTIFICATION AND COORDINATION OF ALL CONSTRUCTION WITH RESPECTIVE UTILITY COMPANIES.

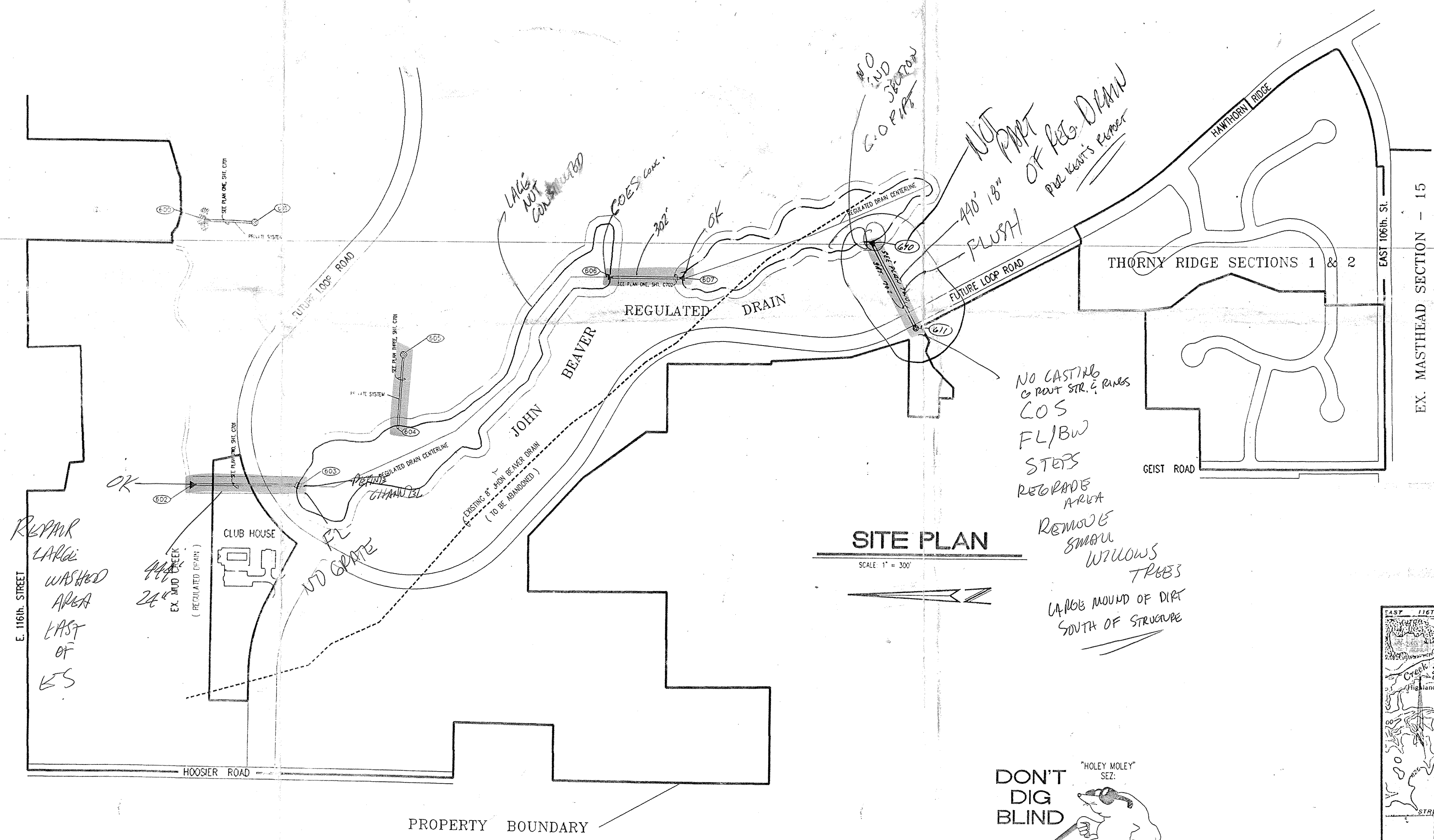
E. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND CONTRACTOR TO MAINTAIN QUALITY CONTROL THROUGHOUT THE PROJECT; FAILURE TO DO SO MAY RESULT IN REMOVAL AND REPLACEMENT OF THE DEFECTIVE WORK. IT IS RECOMMENDED THAT THE DEVELOPER HAVE A QUALIFIED INSPECTOR ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.

F. IT IS ESSENTIAL THAT THE WORK TO BE DONE IN CONJUNCTION WITH THIS PROJECT SHALL BE INSTALLED ACCORDING TO THESE SPECIFICATIONS. THE ENGINEER WILL BE REQUIRED TO CERTIFY TO CERTAIN PORTIONS OF THIS PROJECT UPON COMPLETION. THEREFORE, IT IS NECESSARY TO OBTAIN APPROVAL AND ACCEPTANCE BY THE CITY THAT CONSTRUCTION WAS DONE IN COMPLIANCE WITH THESE PLANS AND SPECIFICATIONS.

G. ALL QUANTITIES GIVEN ON THE PRINTS, VERBALLY OR IN THE SCOPE OF WORK SECTION ARE ESTIMATES AND SHALL BE CONFIRMED BY THE BIDDING CONTRACTOR.

H. 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.

I. 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.

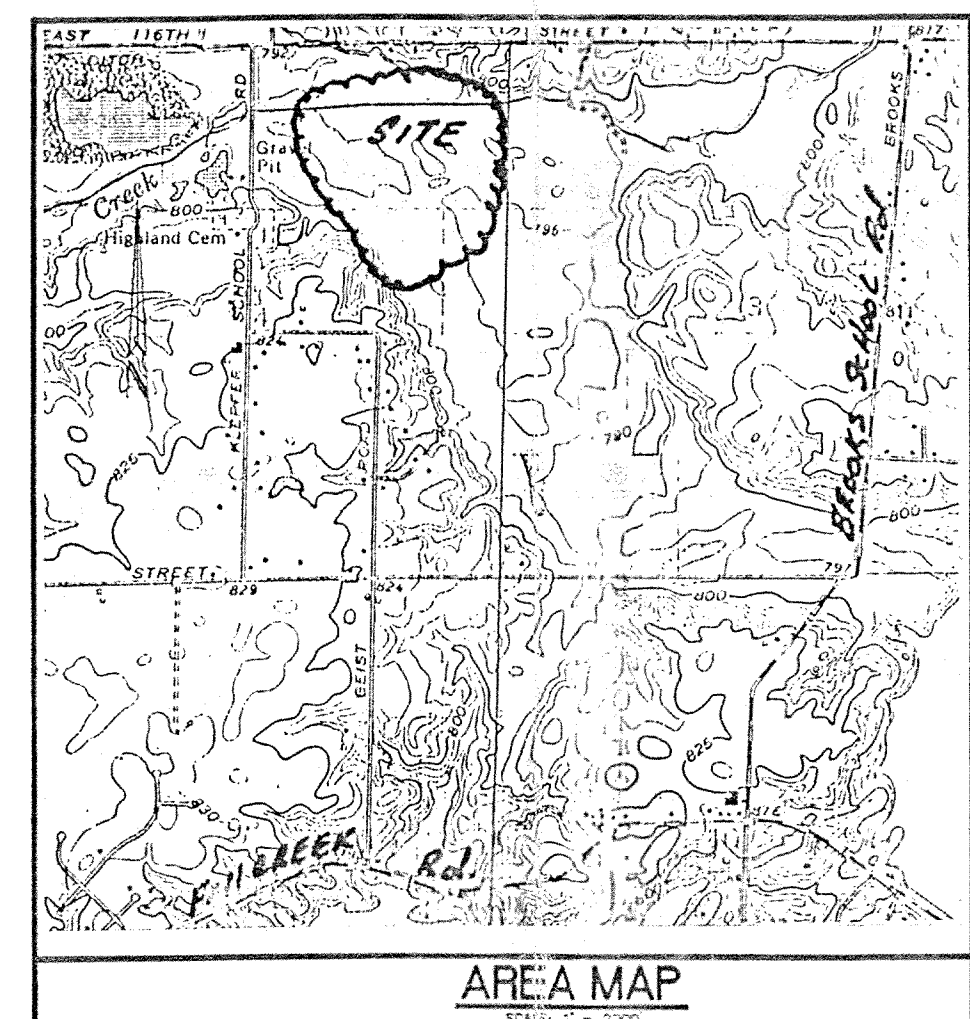


INDEX	
SHT	DESCRIPTION
CS	COVER SHEET
C701	STORM SEWER PLAN & PROFILE
C702	STORM SEWER PLAN & PROFILE
C801	STANDARD DETAILS
C901	STANDARD SPECIFICATIONS

BENCHMARKS

REVISIONS

04/10/92 REVISED PER COUNTY DRAINAGE COMMENTS & REVISED LAKE PER CLIENT ELIMINATED SHEET C703, REVISED SHTS C701 & C702 AND COVER SH.



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

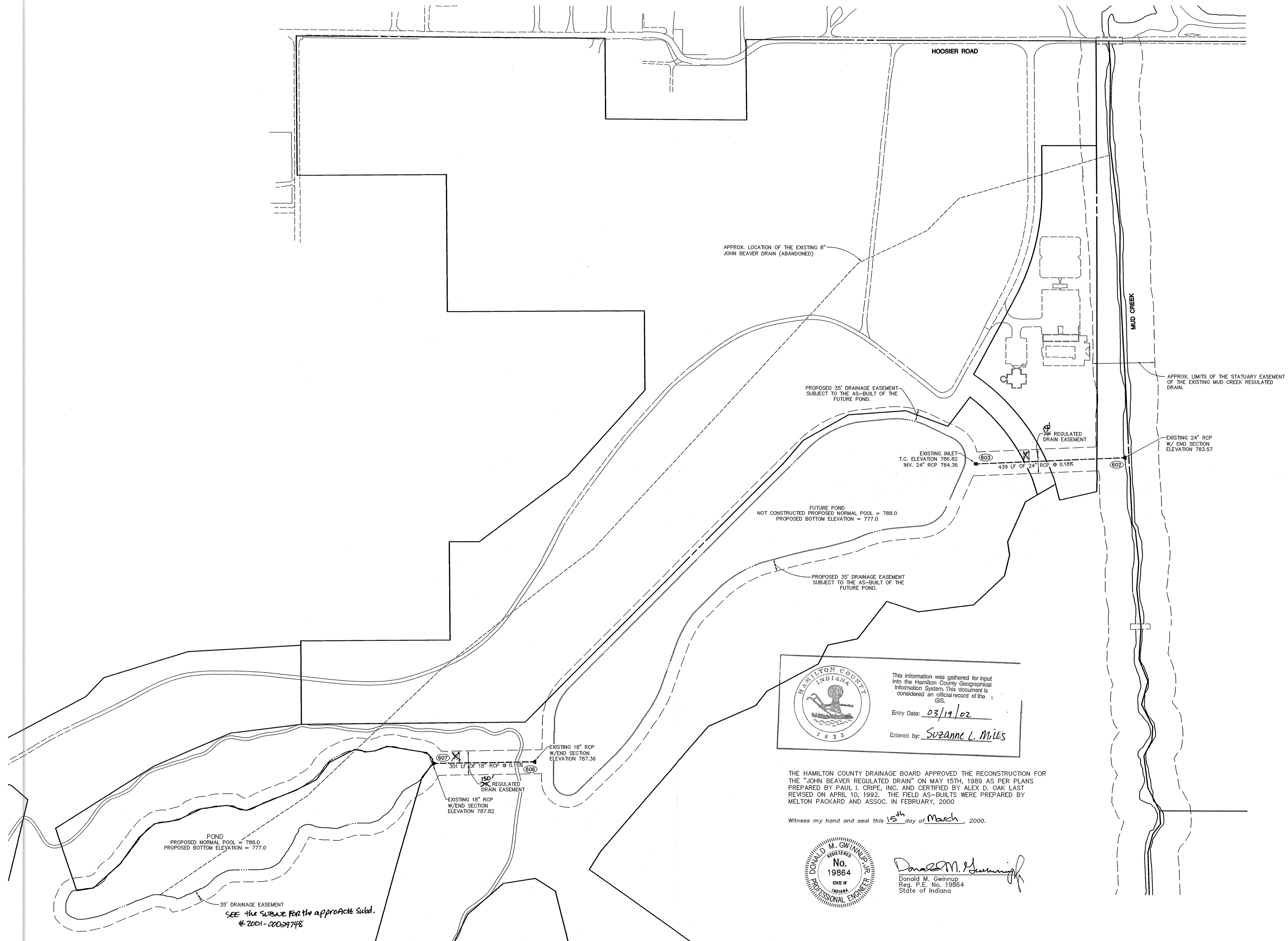



CERTIFIED BY: *Alex D. Oak*
DATE: 02/17/92

NO.	DATE	DESCRIPTION

<p>PAUL I. CRIFE, INC. 7172 GRAHAM ROAD INDIANAPOLIS, INDIANA 46250 (317) 842-6777</p>	CONCEPT CHK: _____ ENG. CHK: _____	DRAWN BY: DJS DRFTNG. CHK: _____	SCALE: AS NOTED DRAWING TITLE: COVER SHEET	DATE: 02/17/92	CLIENT: MANSUR DEVELOPMENT CORP.
	DWG. TYPE: _____ FILE NUMBER: _____ SHEET: CS		JOB NUMBER: 8 8 4 0 4 - 2 6 9 0 0		

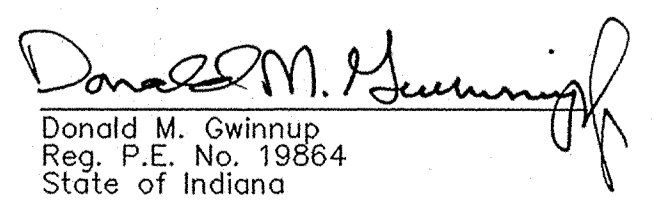
X:\Server\1993\9316 (Hamilton Property) Parcel 11 (The Approach) 9316DAB.dwg Mon Mar 18 08:18:09 2002 Workstation 1




 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: 03/19/02
 Entered by: Suzanne L. Miles

THE HAMILTON COUNTY DRAINAGE BOARD APPROVED THE RECONSTRUCTION FOR THE "JOHN BEAVER REGULATED DRAIN" ON MAY 15TH, 1989 AS PER PLANS PREPARED BY PAUL I. CRIPE, INC. AND CERTIFIED BY ALEX D. OAK LAST REVISED ON APRIL 10, 1992. THE FIELD AS-BUILTS WERE PREPARED BY MELTON PACKARD AND ASSOC. IN FEBRUARY, 2000.
 Witness my hand and seal this 15th day of March, 2000.


 DONALD M. GWINN
 No. 19864
 STATE OF INDIANA
 PROFESSIONAL ENGINEER


 Donald M. Gwin
 Reg. P.E. No. 19864
 State of Indiana

MPA
 MELTON-PACKARD & ASSOCIATES
 Civil Engineers • Land Surveyors
 6910 N. Sheddland Avenue • Indianapolis, Indiana 46220 • (317) 577-0069

AS-BUILT PLAN
JOHN BEAVER REGULATED DRAIN
 HAMILTON PROPER
 FISHERS, INDIANA

SHEET TITLE: PROJECT NAME:
 REVISIONS:
 NORTH
 SCALE: 1" = 120'
 DRAWING: 9316/DAB
 DATE: 08/20/00
 PROJ. NO.: 9316-11
 DRAWN BY: TES
 SHEET NO.: 1 of 1
 TUBE FILE #