

Drain: CRUICED CREEK DRAIN **Drain #:** 250
Improvement/Arm: ENGLISH OAKS
Operator: JOH **Date:** 12-4-03
Drain Classification: Urban/Rural **Year Installed:** 2000

GIS Drain Input Checklist

- Pull Source Documents for Scanning JAA 12-4
- Digitize & Attribute Tile Drains N/A
- Digitize & Attribute Storm Drains JAA 12-4
- Digitize & Attribute SSD JAA 12-4
- Digitize & Attribute Open Ditch JAA 12-4
- Stamp Plans JAA 12-4
- Sum drain lengths & Validate JAA 12-4
- Enter Improvements into Posse JAA 12-4
- Enter Drain Age into Posse * Done
- Sum drain length for Watershed in Posse * Done -- split between two drains.
- Check Database entries for errors JAA 12-4



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

October 18, 2000

Re: Crooked Creek Drain, English Oaks Arm

Attached is a petition, non-enforcement request, plans, calculations, quantity summary and assessment roll for the English Oaks Arm, Crooked Creek Drain. 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	2,717 ft	18" RCP	133 ft
12" RCP	28 ft	Open Ditch	65 ft
15" RCP	1,063 ft		

The total length of the drain will be 4,006 feet.

The retention pond (pond #1) located at the rear of Lots 2-5 and 7-8 is not to be considered part of the regulated drain. Only the inlet and outlet will be maintained as part of the regulated drain. The maintenance of the pond (lake) will be the responsibility of the Homeowners Association. The Board will however, retain jurisdiction for ensuring the storage volume for which the lake was designed will be retained. Thereby, allowing no fill or easement encroachments.

The offsite drainage facilities are regulated to the eastside of the existing 15" RCP culvert under Shelbourne Road. The pipe under Shelbourne Road will not become part of the regulated drain. The portion of open drain is from structure 725 to the eastside of the pipe under Shelbourne.

The subsurface drains (SSD) to be part of the regulated drain are those located under the curbs and those main lines between lots or in rear yards. 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. The portion of the SSD which will be regulated other than those under curbs are as follows: Rear of Lots 4-6 and the underdrain crossing the open space from Callowell Court to Pond #1.

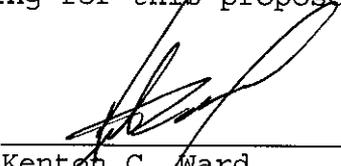
I have reviewed the plans and believe the drain will benefit each lot equally. Therefore, I recommend each lot be assessed equally. I also believe that no damages will result to landowners by the construction of this drain. I recommend a maintenance assessment of \$30.00 per lot, \$5.00 per acre for roadways, with a \$30.00 minimum. With this assessment the total annual assessment for this drain/this section will be \$480.00.

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.

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

I recommend the Board set a hearing for this proposed drain for November 27, 2000.

KCW/kkw



Kenton C. Ward
Hamilton County Surveyor

CERTIFICATE OF COMPLETION AND COMPLIANCE

TO: HAMILTON COUNTY SURVEYOR

RE: English Oaks Subdivision

I hereby certify that:

- 1.) I am a Registered Land Surveyor In the State of Indiana,
- 2.) I am familiar with the plans and specifications for the above referenced subdivision,
- 3.) I have personally observed and supervised the completion of the Drainage Facilities for the above referenced subdivision, and
- 4.) To the best of my knowledge, information and belief, the Drainage Facilities within the subdivision has been installed and completed in conformity with all plans and specifications.

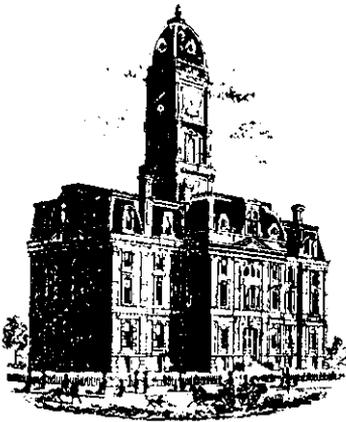
Signature: Joseph A. Sharp Date: 8-12-03

Type or Printed Name: Joseph A. Sharp

Business Address: 7172 Graham Road
Indianapolis, IN 46250

Telephone: (317) 842-6777

INDIANA REGISTERED NUMBER
LS 80040076



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

To: Hamilton County Drainage Board

December 3, 2003

Re: Crooked Creek Drain: English Oaks Arm

Attached are as-builts, certificate of completion & compliance, and other information for English Oaks. 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 18, 2000. The report was approved by the Board at the hearing held November 27, 2000. (See Drainage Board Minutes Book 5, Pages 507-508)

The changes are as follows:

Structure:	T.C.:	I.E.:	Pipe:	Length:	Grade:	Original:	Difference:
714	900.93	897.6					
715	901.14	897.4	15	69.65	-0.2		
715	901.14	897.4					
716	893.9	893.9	15	192.26	-0.2		
717	901.08	897.8					
718	900.94	897.7	12	28	-0.21		
718	900.94	897.6					
719	900.57	897.2	15	199.08	-0.2		
719	900.57	897.2					
720		896.9	18	132.62	-0.2		
723		896.9					
724	898.97	896.9	15	22	-0.2		
724	898.97	896.8					
725		895	15	580	-0.33		

6" SSD Streets:

Callowell Ct	531
English Oaks Ct	65
Corsham Cir	355
Stratton Cir	279
x2	1230

Total: 2460

RCP Pipe Totals:

12	28
15	1062.99
18	132.62

Total: 1223.61

Other Drain:	
Open Ditch	65

6" SSD Lots:

Lots 4-6 & CA	363
Total:	363

Total: 65

The length of the drain due to the changes described above is now **4111.61 feet**.

The non-enforcement was approved by the Board at its meeting on November 27, 2000 and recorded under instrument #2001-00002890.

The following sureties were guaranteed by Developers Surety and Indemnity Company and released by the Board on its August 25, 2003 meeting.

Bond-LC No: 266
Insured For: Storm Sewers
Amount: \$52,300
Issue Date: June 23, 2000

Bond-LC No: 265
Insured For: Erosion Control
Amount: \$8,740
Issue Date: June 22, 2000

Bond-LC No: 267
Insured For: Sub Surface Drains
Amount: \$42,685
Issue Date: June 23, 2000

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

Sincerely,



Keifton C. Ward,
Hamilton County Surveyor

KCW/slm

Asbuilt Structures

Drain: Crooked Creek #250
 Improvement-Arm: English Oaks
 Engineer: Paul I Cripe
 Asbuilt Project #: 0990478-20000

Structure:	T.C.:	I.E.:	Pipe:	Length:	Grade:	Original:	Difference:
714	900.93	897.6					
715	901.14	897.4	15	69.65	-0.2		
715	901.14	897.4					
716	893.9	893.9	15	192.26	-0.2		
717	901.08	897.8					
718	900.94	897.7	12	28	-0.21		
718	900.94	897.6					
719	900.57	897.2	15	199.08	-0.2		
719	900.57	897.2					
720		896.9	18	132.62	-0.2		
723		896.9					
724	898.97	896.9	15	22	-0.2		
724	898.97	896.8					
725		895	15	580	-0.33		

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Corsham Cir	355
Stratton Cir	279
x2	1230
Total:	2460

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Lots 4-6 & CA	363
Total:	363

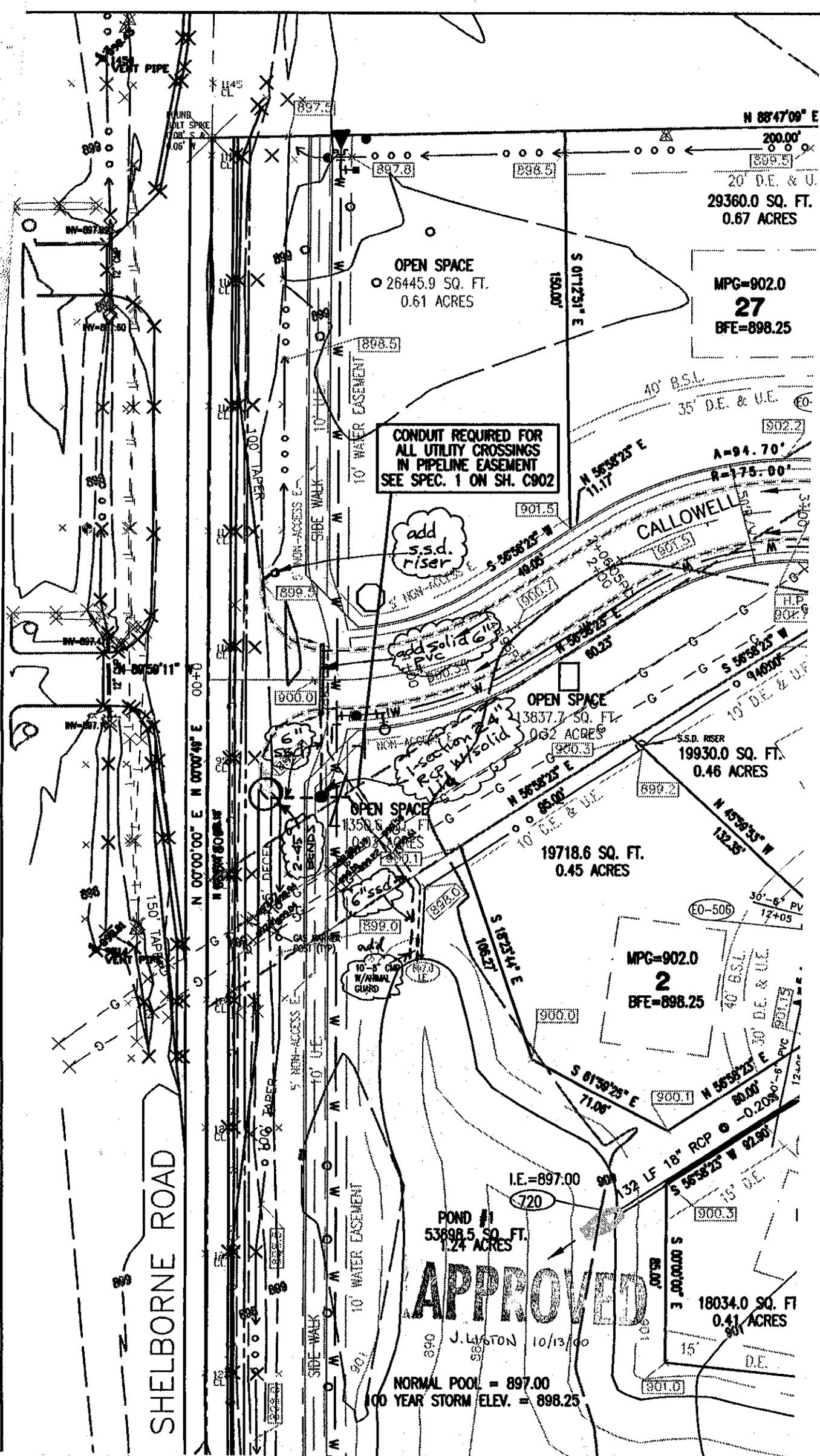
RCP Pipe Totals:

12	28
15	1062.99
18	132.62
Total:	1223.61

Other Drain:

Open Ditch	65
Total:	65

Drain Total: 4111.61



N 88°47'09" E
200.00'
20' D.E. & U.
29360.0 SQ. FT.
0.67 ACRES

MPG=902.0
27
BFE=898.25

CONDUIT REQUIRED FOR ALL UTILITY CROSSINGS IN PIPELINE EASEMENT SEE SPEC. 1 ON SH. C902

add s.s.d. riser

add solid 6" PVC

1 section 24" RCP w/ solid Lid

add 10'-5" W/ W/ MAN GUARD

OPEN SPACE
13837.7 SQ. FT.
0.32 ACRES
MPG=902.0
2
BFE=898.25

19718.6 SQ. FT.
0.45 ACRES

MPG=902.0
2
BFE=898.25

POND #1
53898.5 SQ. FT.
1.24 ACRES

APPROVED

J. LUSTON 10/13/00

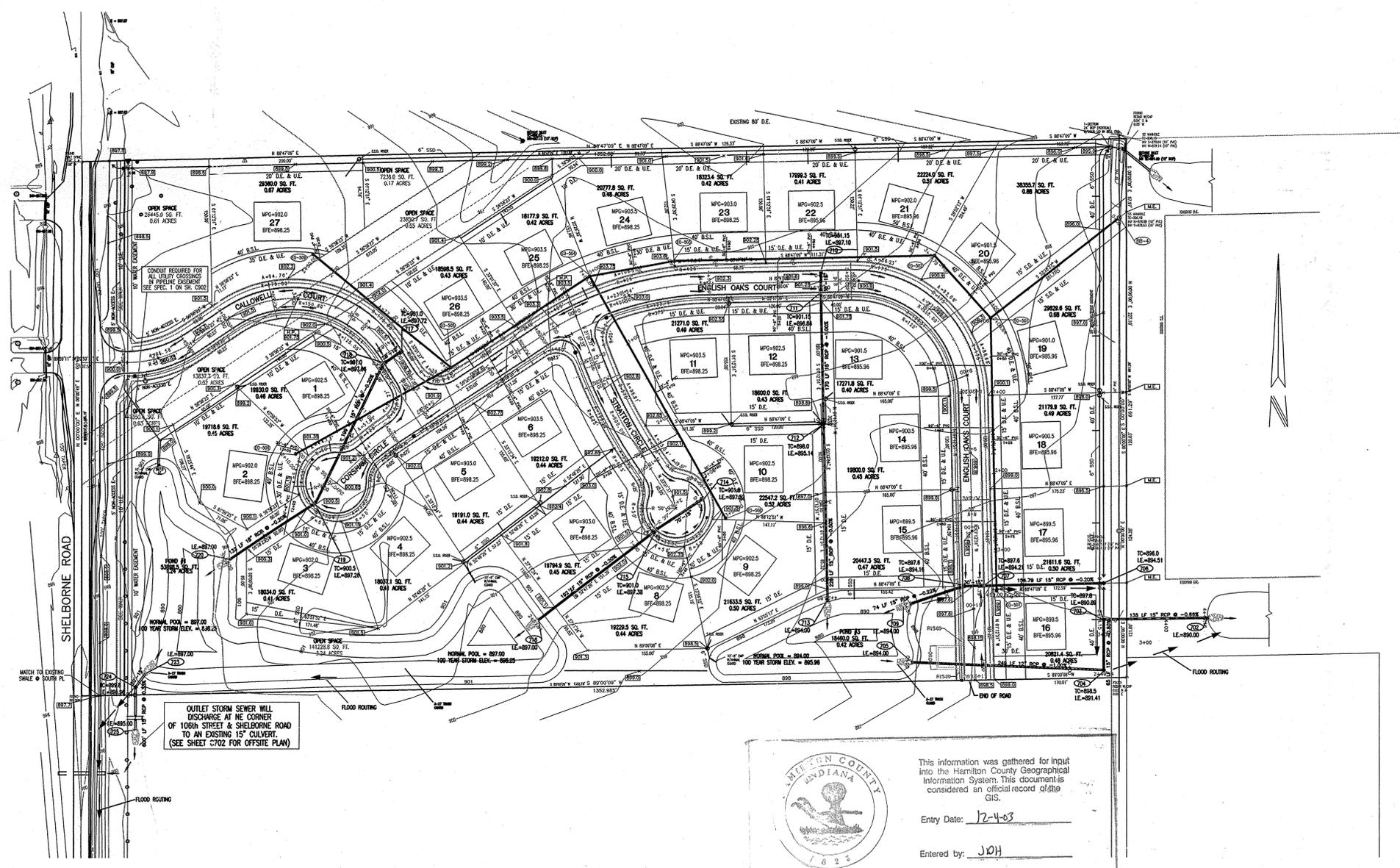
NORMAL POOL = 897.00
100 YEAR STORM ELEV. = 898.25

SHELBORNE ROAD

CONSTRUCTION PLANS FOR ENGLISH OAKS

Developer:
Deylen Development

Site Engineers / Surveyors
Paul I. Cripe Inc.



OUTLET STORM SEWER WILL DISCHARGE AT NE CORNER OF 106th STREET & SHELBORNE ROAD TO AN EXISTING 15" COLLECTOR. (SEE SHEET C-102 FOR OFFSITE PLAN)



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: 12-4-03
Entered by: JOH

DESIGN SPEED 25 M.P.H.

INDEX	
SHT	DESCRIPTION
CS	COVER SHEET
C101	MAP SHEET
C102	EXISTING CONDITIONS PLAN
C201	SITE DEVELOPMENT PLAN
C203	EROSION CONTROL PLAN
C204	EROSION CONTROL PLAN
C205	ENTRANCE DETAIL/TRAFFIC MAINTENANCE
C301	STREET PLAN & PROFILE
C302	STREET PLAN & PROFILE
C501	SANITARY PLAN & PROFILE
C502	SANITARY PLAN & PROFILE
C503	SANITARY DETAILS
C701	STORM PLAN & PROFILE
C702	STORM PLAN & PROFILE
C703	STORM DETAILS
C801	WATERMAIN PLAN
C901	STANDARD DETAILS
C902	STANDARD SPECIFICATIONS

BENCHMARKS	
B.M. - RIM OF SANITARY M.H. LOCATED 6' NORTH AND 9' WEST OF THE NORTHEAST CORNER OF SUBJECT TRACT.	ELEV. = 898.15
B.M. - TOP OF RAILROAD SPIKE IN CENTER OF SHELBORNE RD. (NORTH WEST CORNER, S.W. 1/4, SEC. 5-17-3) 1331.8' NORTH OF THE NORTHWEST CORNER OF SUBJECT TRACT.	ELEV. = 904.39

CONTACT CO. / PERSON FOR			
OWNER	NAME	PHONE NO.	FAX NO.
DEVELOPER	DEYLEN DEVELOPMENT	823-2411	879-9387
POWER	DEYLEN DEVELOPMENT	823-2411	879-9387
GAS	ENERGY/PSI	800-521-2232	
TELEPHONE	INDIANA GAS CO.	800-666-3096	776-5330
CABLE	AMERITECH	352-4258	252-5000
WATER	TIME WARNER CABLE	972-9700	
CO.SURVEYOR	INDPLS. WATER CO.	327-5772	263-6400
PLANNING	KENT WARD	776-8495	776-9628
TRAFFIC	TERRY JONES	571-2426	
SANITARY	HAM CITY HWY	773-7770	776-9614
DRAINAGE	CLAY TWP. RWD	844-9200	
EROSION	HAM CO SURV	776-8495	776-9628
	HAM CO SWCD	773-1406	776-1101

DON'T DIG BLIND	1-800-382-5544 CALL TOLL FREE
	1-800-428-5200 FOR CALLS OUTSIDE OF INDIANA
PAUL I. CRIFE TEAM 317-842-6777 FAX-841-4798	
PROJECT MANAGER	BRIAN NEWMAN 649
PROJECT ENGINEER	JOE SHARP 675
PROJECT SURVEYOR	DENNIS SINGER 635
PROJECT LAND PLANNER	JOE SHARP 675
ENGINEERING ASSOCIATE	RUDY TAVAREZ 720
QUALITY ASSURANCE	TOM SCHELLENBERGER 622

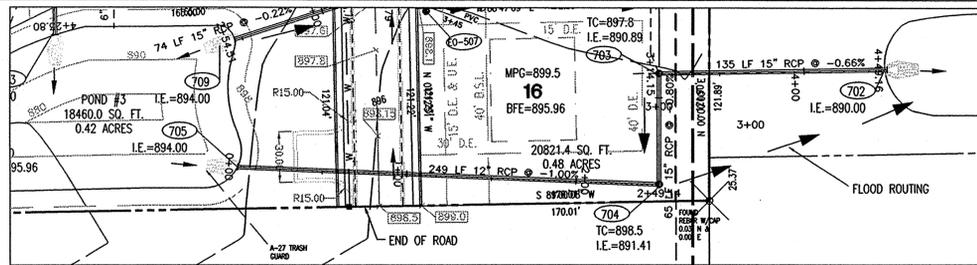
PAUL I. CRIFE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777 FAX (317) 841-4798
E-Mail at pcrife@pcricrife.com

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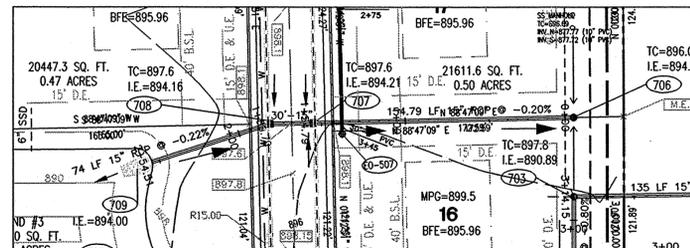
COVER SHEET
English Oaks Subdivision
DEYLEN DEVELOPMENT
9595 VALPARAISO COURT
INDIANAPOLIS, IN 46268
PHONE: 823-2411

CERTIFIED BY:
JOSEPH A. SHARP
No. 15179
STATE OF INDIANA
PROFESSIONAL ENGINEER

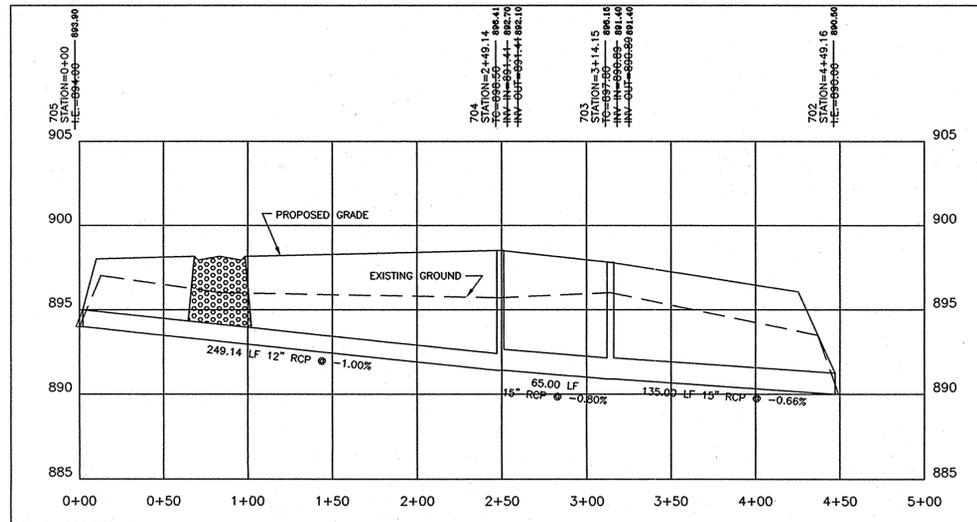
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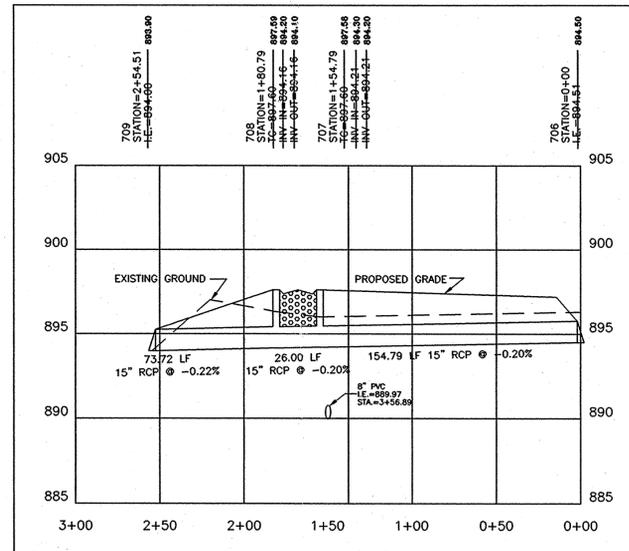
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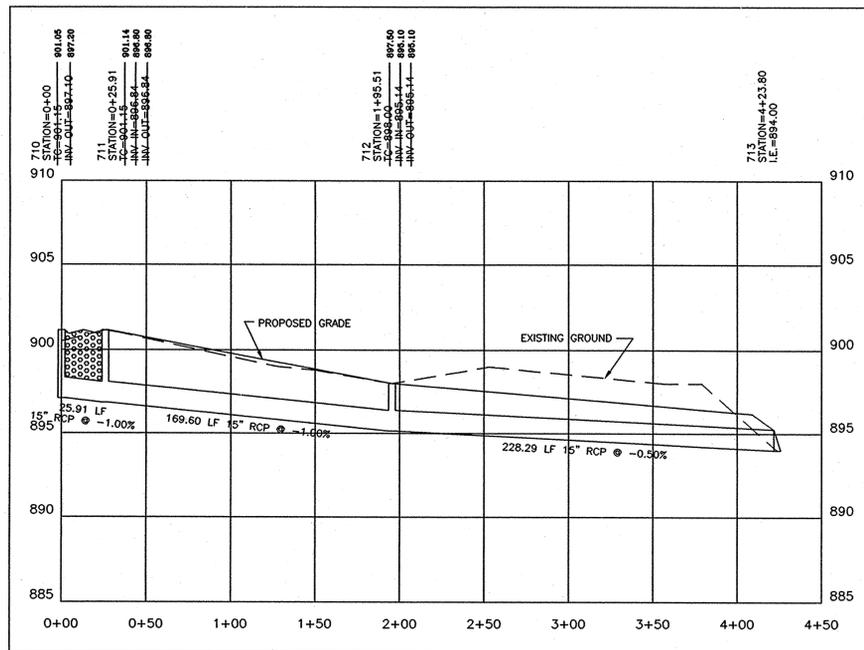
PLAN TWO



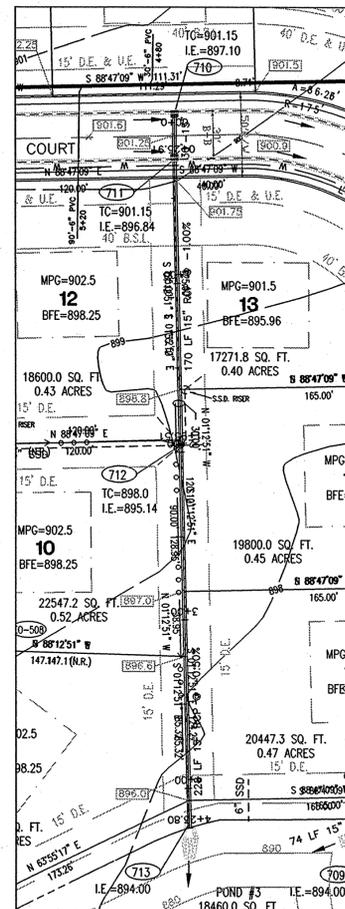
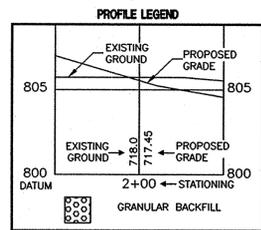
PROFILE ONE



PROFILE TWO



PROFILE FOUR



PLAN FOUR

RECORD DRAWING



Certified 07-25-01
Joseph A. Shay

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 GROUDED, TROWELED SMOOTH AND BRUSH FINISHED.
- ALL STRUCTURES (IE. MANHOLES, INLETS) SHALL HAVE POURED FLOW LINES AND BENCH WALLS. THE FLOW LINES AND BENCHMALLS SHALL BE TROWELED SMOOTH AND BRUSH FINISHED.
- FIELD ADJUSTMENTS OF TOP OF CASTINGS (I.E.) 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.
- 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 SECTION 02720 FOR STORM SEWERAGE SPECIFICATIONS A) IN THE PROJECT MANUAL OR B) ON SHEET C907
- THE CONNECTION OF THE PROPOSED STORM SEWER TO AN EXISTING BRICK STRUCTURE MUST BE DONE ACCORDING TO THE FOLLOWING CONDITIONS:
A) REHABILITATE AND COAT THE ENTIRE INTERIOR OF THE MANHOLE WITH NON-SHRINK GROUT.
B) AT THE POINT OF CONNECTION OF THE PROPOSED PIPE, PLACE A THREE FOOT (3') DIAMETER BY A MINIMUM SIX INCH (6") THICK, 4000 PSI CONCRETE COLLAR WITH #4X10 GAUGE WIRE MESH OVER THE EXTERIOR OF THE MANHOLE.
C) ONCE THE CORE HAS BEEN MADE, INSTALL A RUBBER BOOT.



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

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 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.

Revision	Date	Description
1	05/05/00	REVISED

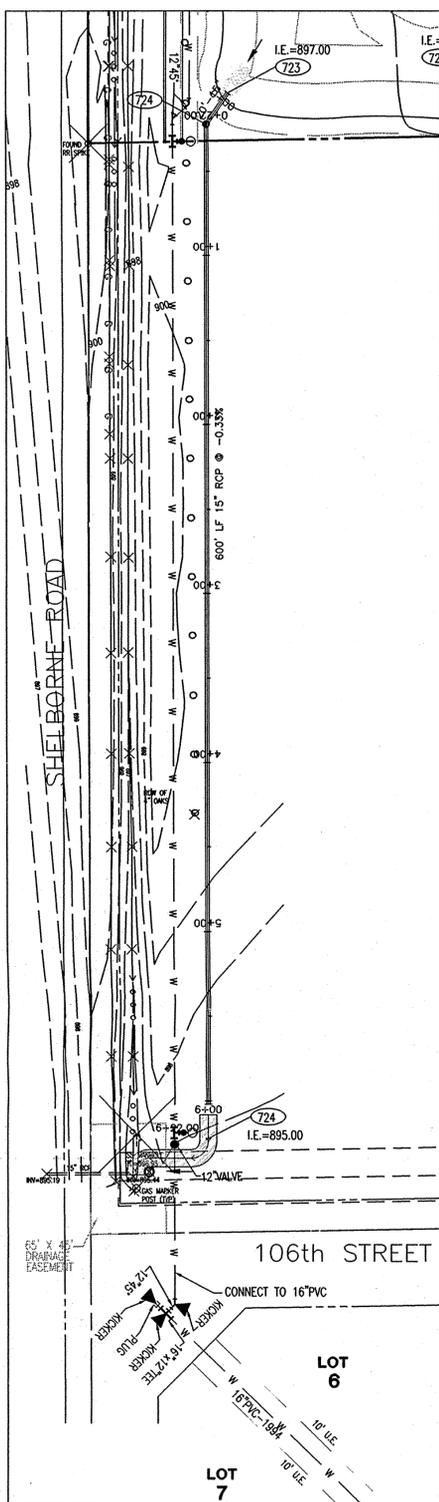
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ARCHITECTS
ENGINEERS
ENVIRONMENTAL CONSULTANTS
TRANSPORTATION ENGINEERS
LAND SURVEYORS
7172 GRAHAM ROAD, #350
INDIANAPOLIS, IN 46250
(317) 841-4798
E-Mail: paul@pcripe.com



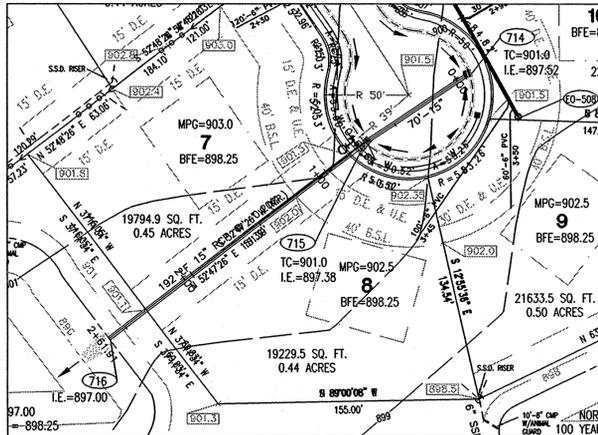
STORM PLAN AND PROFILE
English Oaks Subdivision
DEYLEN DEVELOPMENT
9595 VALPARAISO COURT
INDIANAPOLIS, IN 46268
852-2911
879-3087

CERTIFIED BY:
Joseph A. Shay
REGISTERED PROFESSIONAL ENGINEER
No. 15179
STATE OF INDIANA

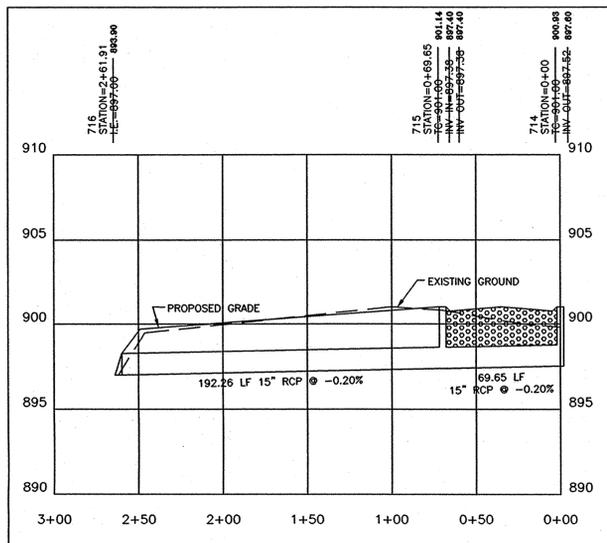
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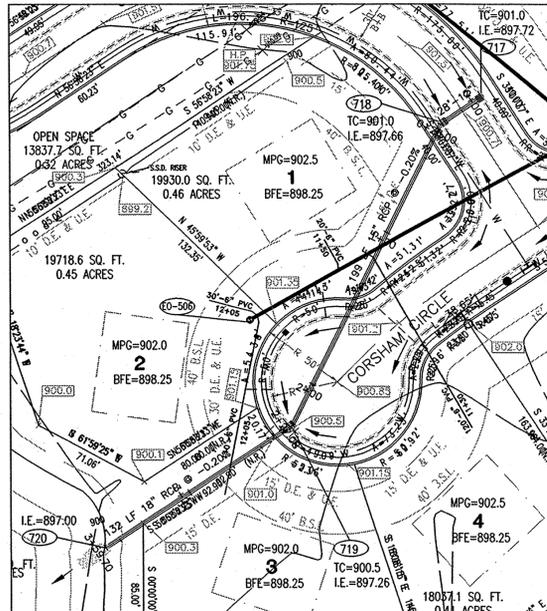
OFFSITE PLAN



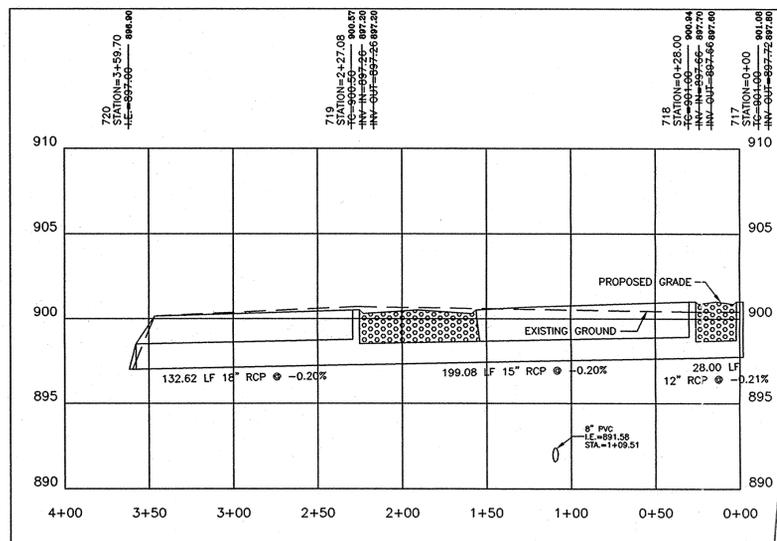
PLAN ONE



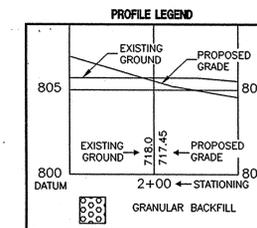
PROFILE ONE



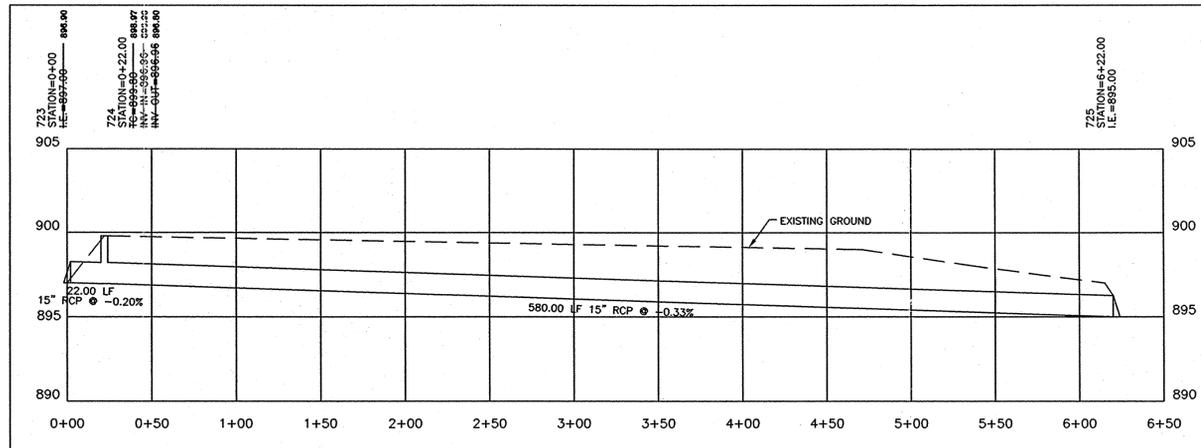
PLAN TWO



PROFILE TWO



HAMILTON COUNTY INDIANA
 This information was prepared into this drawing by the information considered.
 Entry Date: 12-4-03
 Entered by: JDH



OFFSITE PROFILE

- 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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 - SEE SECTION 02720 FOR STORM SEWER SPECIFICATIONS A) IN THE PROJECT MANUAL OR B) ON SHEET C90?
 - PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND INCLUDE END SECTIONS.
 - THE CONNECTION OF THE PROPOSED STORM SEWER TO AN EXISTING BRICK STRUCTURE MUST BE DONE ACCORDING TO THE FOLLOWING CONDITIONS:
 - REHABILITATE AND COAT THE ENTIRE INTERIOR OF THE MANHOLE WITH NON-SHRINKING GROUT.
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 - ONCE THE CORE HAS BEEN MADE, INSTALL A RUBBER BOOT.

RECORD DRAWING
 Certified 07-25-01
 Joseph A. Sharp
 REGISTERED PROFESSIONAL ENGINEER
 No. 15179
 STATE OF INDIANA

DON'T DIG BLIND
 "HOLEY MOLEY" SEZ
 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 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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 INDIANAPOLIS, INDIANA 46250
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 E-Mail at picripe@picripe.com

STORM PLAN AND PROFILE
 English Oaks Subdivision
 DEYLEN DEVELOPMENT
 9696 VALPARAISO COURT
 INDIANAPOLIS, IN 46268
 PHONE: 831-2411 FAX: 879-4387

CERTIFIED BY:
 Joseph A. Sharp
 REGISTERED PROFESSIONAL ENGINEER
 No. 15179
 STATE OF INDIANA

Drawn By:
 Checked By:
 Quality Assurance:
 Scale: 1" = 50'
 Sheet: **C702**
 Date: 09-22-00
 Project Number: 1 D990478-20000