

Drain: JW BRENALE DRAIN **Drain #:** 77
Improvement/Arm: HAYDEN RUN - SECTION 9
Operator: JDH **Date:** 10-21-03
Drain Classification: Urban/Rural **Year Installed:** 2002

GIS Drain Input Checklist

- Digitize & Attribute Tile Drains _____
- Digitize & Attribute Storm Drains _____
- Digitize & Attribute SSD _____
- Digitize & Attribute Open Ditch _____
- Sum drain lengths & Validate _____
- Enter Improvements into Posse JRH 10-21
- Enter Drain Age into Posse _____
- Sum drain length for Watershed in Posse _____
- Stamp Plans _____
- Pull Source Documents for Scanning JRH 10-21

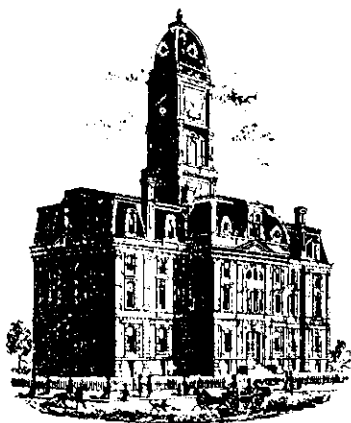
Long / J.W. Brendle - Storm drainage improvements
 All Quantities Subject to Changes
 Conceptual Opinion of Probable Cost

Hayden Run Sec. 1
 Additional pipes between Ponds

NO.	PAY ITEMS	UNIT	UNIT PRICE	QUANTITY	ITEM COST
1	Mobilization and Demobilization	LS	\$ 1,704.50	1	\$ 1,700
2	Sidewalk remove	SY	\$ 4.00	67	\$ 260
3	Rip Rap remove	SY	\$ 12.00	120	\$ 1,440
4	Erosion Control Measures	LS	\$ 4,000.00	1	\$ 4,000
5	Excavation, fill	CY	\$ 10.00	125	\$ 1,250
6	Geotextile, Riprap at outlet	SY	\$ 2.50	108	\$ 270
7	Revetment Riprap for overflow spillways	SY	\$ 30.00	73	\$ 2,190
8	Reinforced concrete pipe, 21"	LF	\$ 45.20	120	\$ 5,420
9	Reinforced concrete pipe, 36"	LF	\$ 81.30	144	\$ 11,700
10	Precast concrete end section, 21"	LS	\$ 380.00	2	\$ 760
11	Precast concrete end section, 36"	LS	\$ 750.00	2	\$ 1,500
12	Grading	LS	\$ 3,000.00	1	\$ 3,000
13	Sidewalk replace	SY	\$ 27.00	67	\$ 1,800
14	Seeding	LS	\$ 500.00	1	\$ 500
21	Construction Engineering	LS	\$ 681.80	1	\$ 680
SUBTOTAL					\$ 36,470
22	CONTINGENCY	%		20%	\$ 7,290
TOTAL					\$ 43,760

NOTES:

1 - Opinion of Probable Cost is conceptual and does not reflect final design. All quantities and unit costs are subject to change.



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

November 20, 2002

To: Hamilton County Drainage Board

Re: J. W. Brendle Drain, Hayden Run Section 1 Arm

Attached is a petition, non-enforcement request, plans, calculations, quantity summary and assessment roll for the Hayden Run Section 1 Arm, J. W. Brendle 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	3,560 ft	15" RCP	449 ft	21" RCP	248 ft
12" RCP	485 ft	18" RCP	242 ft	48" RCP	112 ft

The total length of the drain will be 5,096 feet.

The retention ponds (lakes) located in Common Area number 2 will be considered part of the regulated drain. Only the inlet and outlet will be maintained as part of the regulated drain. The maintenance, such as mowing, of the ponds (lakes) 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 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 right of way, are to be maintained as regulated drain. Laterals for individual lots will not be considered part of the regulated drain.

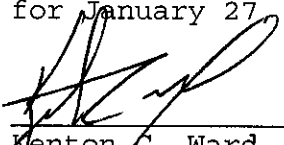
I have reviewed the plans and believe the drain will benefit each lot equally. Therefore, I recommend each lot be assessed equally. I also believe that no damages will result to landowners by the construction of this drain. I recommend a maintenance assessment of \$65.00 per lot, \$10.00 per acre for roadways and common areas with a \$65.00 minimum. With this assessment the total annual assessment for this drain/this section will be \$1,753.90.

Parcels assessed for this drain may be assessed for the Long Branch Drain at sometime in the future. Parcels assessed for this drain will also be assessed for the J. W. Brendle Drain.

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 easement widths as shown on the secondary plat for Hayden Run Section 1 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for January 27, 2003.



Kenton C. Ward
Hamilton County Surveyor

KCW/llm

STATE OF INDIANA)
)
COUNTY OF HAMILTON)

TO: HAMILTON COUNTY DRAINAGE BOARD
 % Hamilton County Surveyor, Courthouse, Noblesville, IN 46060

In the matter of Hayden Run Subdivision, Section One 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 Hayden Run, Sec. 1a 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 benefitted 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 for the portion of the drainage system which will be made a regulated drain. The bond will be in the amount of 100% of the Engineers 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 Petitioner cost as per IC 36-9-27-46.

The Petitioner further requests that the Drain be classified as an Urban Drain.

THOMAS L. KUTZ

LAND DEVELOPMENT MANAGER

Printed Name

Signed

JK 5/2/02
 Centex Homes, A Nevada General Partnership
 By: Centex Real Estate Corporation, A Nevada Corporation
 Its: Managing General Partner

Printed Name

RECORDED OWNER(S) OF LAND INVOLVED

DATE 5/2/02

FINDINGS AND ORDER

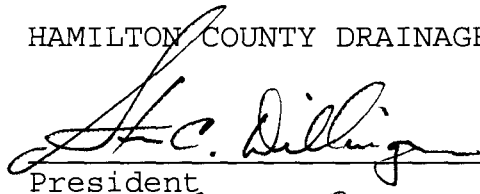
CONCERNING THE MAINTENANCE OF THE

J. W. Brendle Drain, Hayden Run Section 1

On this *27th day of January 2003*, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the *J. W. Brendle Drain, Hayden Run Section 1*.

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




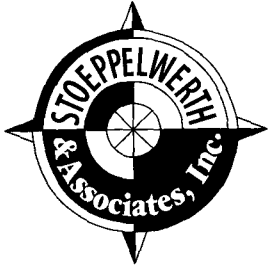
President



Member

Member

Attest: 



CONSULTING ENGINEERS
LAND SURVEYORS

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

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Hayden Run, Section One

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.

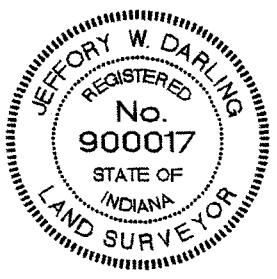
Signature: Jeffory W. Darling Date: January 9, 2003

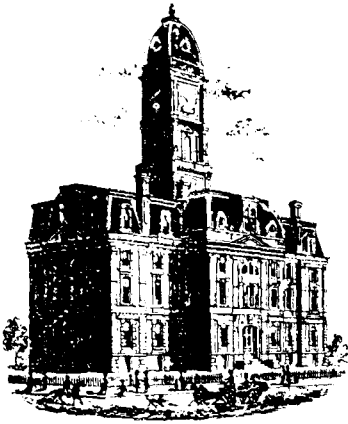
Type or Print Name: Jeffory W. Darling

Business Address: Stoepelwerth & Associates, Inc.
9940 Allisonville Road, Fishers, Indiana 46038

Telephone Number: (317) 849-5935

SEAL INDIANA REGISTRATION NUMBER
900017





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 16, 2006

Re: JW Brendle Drain: Hayden Run Section 1 Arm

Attached are as-builts, certificate of completion & compliance, and other information for Hayden Run Section 1. 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 November 20, 2002. The report was approved by the Board at the hearing held January 27, 2003. (See Drainage Board Minutes Book 6, Pages 523-524) The changes are as follows:

Structure:	Length:	Size	Material:	Up Invert:	Dn Invert	Grade:	Changes(ft):
101-100	99	48	RCP	895.58	895.12	0.46	-3
121-120	36	15	RCP	898.07	897.86	0.58	
120-119	209	15	RCP	897.86	895.67	1.05	-7
103-102	139	12	RCP	899	895.5	2.52	
118-117	36	18	RCP	902.82	899.62	0.25	
117-116	205	18	RCP	899.53	898.98	0.27	-1
105-104	115	12	RCP	903.09	899.06	3.5	-5
115-114	141	21	RCP	904.19	903.45	0.52	-3
114-113	36	21	RCP	903.45	903.31	0.39	
113-112	66	21	RCP	903.31	903.09	0.33	-2
111-110	165	12	RCP	908.67	907.1	0.95	
110-109	61	12	RCP	907.1	906.89	0.34	
109-108	30	15	RCP	906.89	906.31	1.93	
108-107	58	15	RCP	906.31	905.98	0.57	-1
107-106	108	15	RCP	905.98	903	2.76	

6" SSD Streets:

Tuscany Blvd	1470
Tantara Bend	248
Totalx2:	3436

RCP Pipe Totals:

12	480
15	441
18	241
21	243
48	99

Total: 1504

The length of the drain due to the changes described above is now **4,940 feet**.

The non-enforcement was approved by the Board at its meeting on January 27, 2003 and recorded under instrument #200300011400.

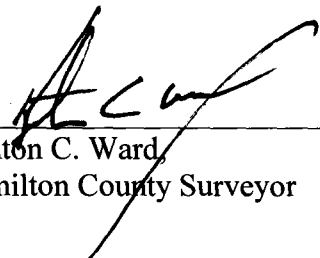
The following sureties were guaranteed by SAFECO Insurance Company and released by the Board on its November 28, 2005 meeting.

Bond-LC No: 6161759
Insured For: Storm Sewers
Amount: \$67,088.47
Issue Date: April 10, 2002

Bond-LC No: 6161760
Insured For: Erosion Control
Amount: \$43,546.2
Issue Date: April 10, 2002

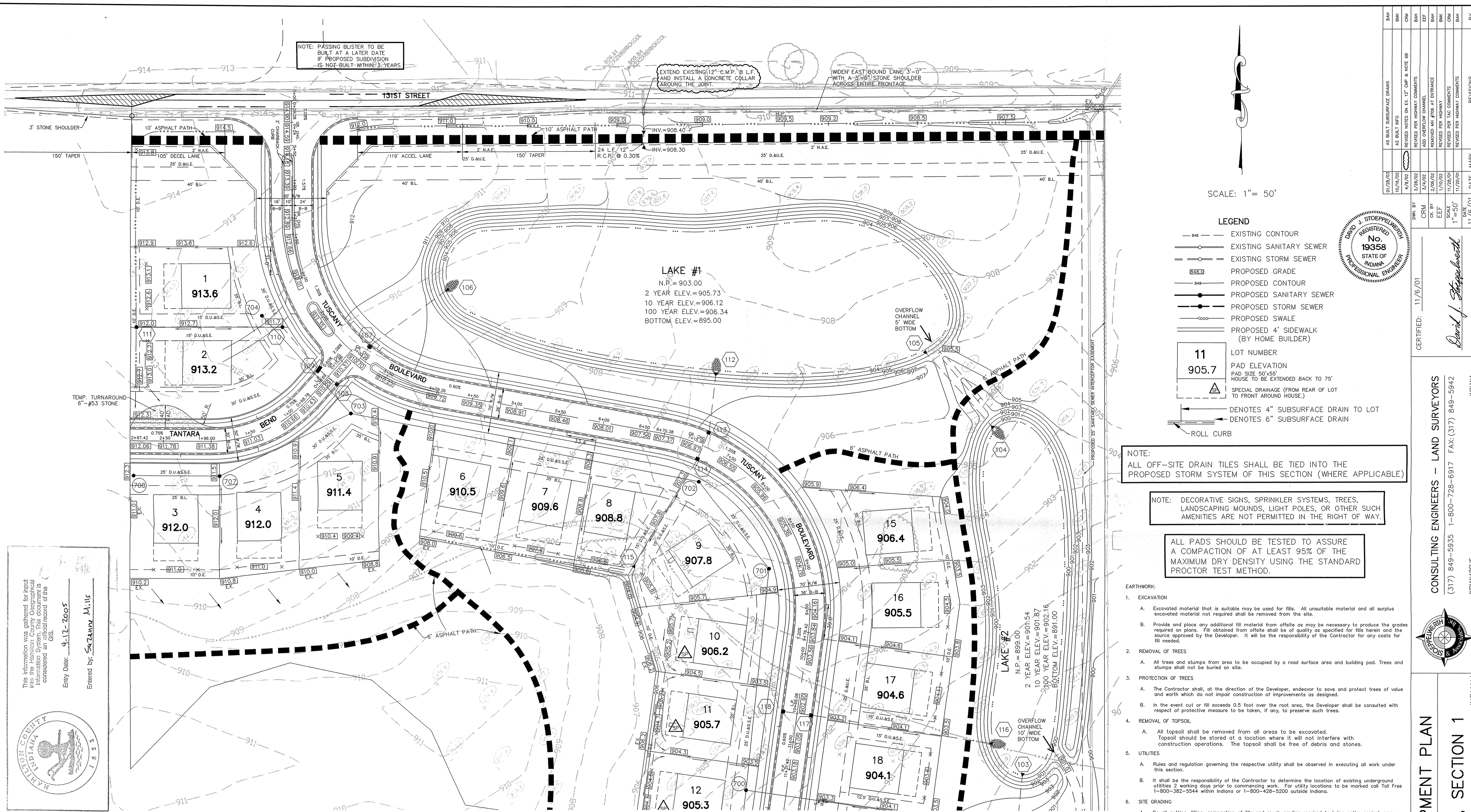
I recommend the Board approve the drain's construction as complete and acceptable.

Sincerely,



Kenton C. Ward
Hamilton County Surveyor

KCW/slm



NOTE: PASSING BUSTER TO BE BUILT AT A LATER DATE IF PROPOSED SUBDIVISION IS NOT BUILT WITHIN 3 YEARS.

EXTEND EXISTING 12" C.M.P. 8 L.F. AND INSTALL A CONCRETE COLLAR AROUND THE JOINT.

WIDEN EAST BOUND LANE 3'-0" WITH A 3'-0" STONE SHOULDER ACROSS ENTIRE FRONTAGE.

SCALE: 1" = 50'

LEGEND

- 848 — EXISTING CONTOUR
- 848 — EXISTING SANITARY SEWER
- 848 — EXISTING STORM SEWER
- 848 — PROPOSED GRADE
- 848 — PROPOSED CONTOUR
- 848 — PROPOSED SANITARY SEWER
- 848 — PROPOSED STORM SEWER
- 848 — PROPOSED SWALE
- 848 — PROPOSED 4' SIDEWALK (BY HOME BUILDER)
- 848 — LOT NUMBER
- 848 — PAD ELEVATION
- 848 — HOUSE TO BE EXTENDED BACK TO 75'
- 848 — SPECIAL DRAINAGE (FROM REAR OF LOT TO FRONT AROUND HOUSE)
- 848 — DENOTES 4" SUBSURFACE DRAIN TO LOT
- 848 — DENOTES 6" SUBSURFACE DRAIN
- 848 — ROLL CURB

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

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

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

EARTHWORK:

1. EXCAVATION
 - A. Excavated material that is suitable may be used for fill. 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 from area to be occupied by a road surface area and building pad. 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 of protective measure to be taken, if any, to preserve such trees.
4. REMOVAL OF TOPSOIL
 - A. All topsoil shall be removed from all areas to be excavated. 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.

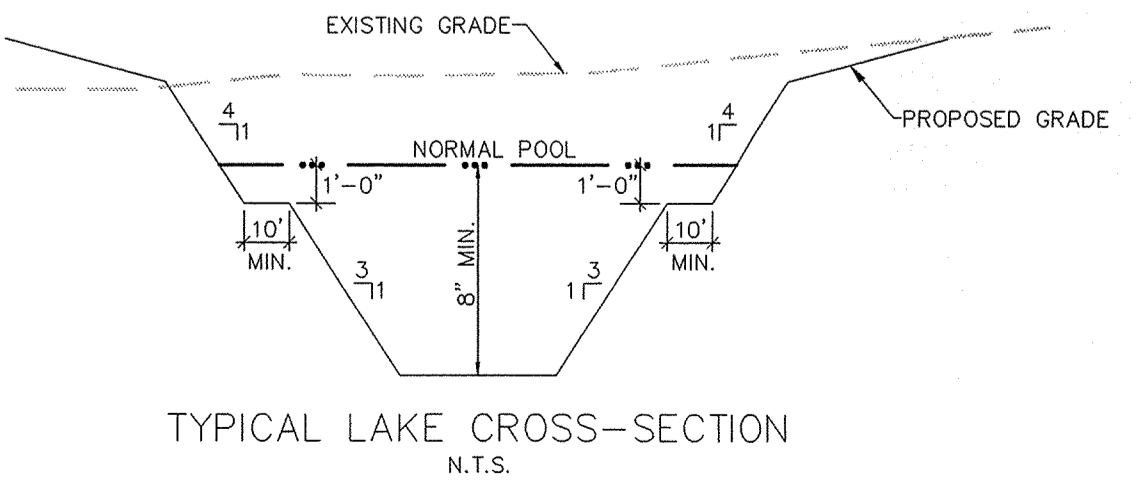
FORM/EARTHWORK

"HOLEY MOLEY" SAYS:

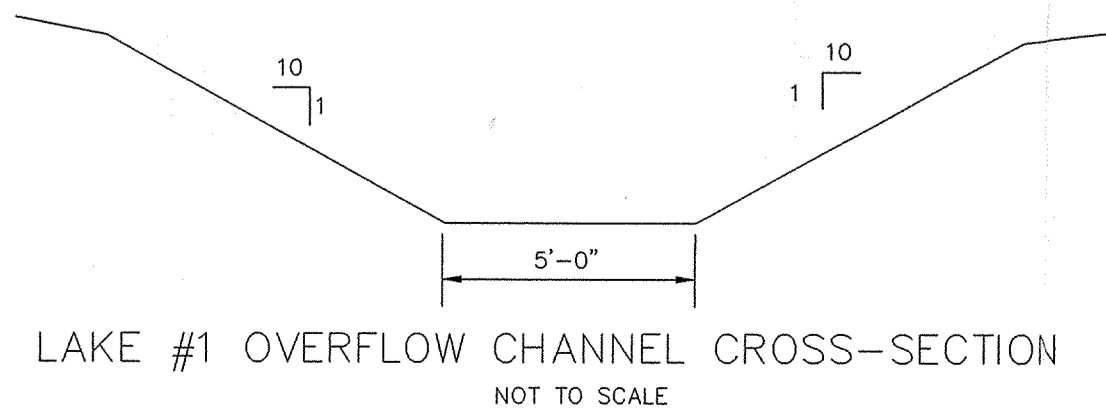


1-800-382-5544
CALL TOLL FREE
1-800-428-5200
FOR CALLS OUTSIDE OF INDIANA

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.



NOTE: SIDEWALK ADJACENT TO COMMON AREA TO BE INSTALLED BY CONTRACTOR.



This information was gathered for input into the Hamilton County Geographical Information System. The Geographical Information System is a computerized official record of the GIS.
Entry Date: 12-20-05
Entered by: SAZANNA MILLS

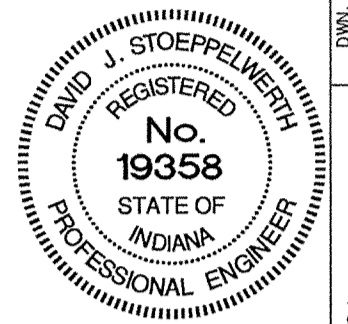
RECORD DRAWING

JEFFERY W. DARLING
JEFFERY W. DARLING
Registered Land Surveyor
No. 900017



BENCHMARKS:
T.B.M.#1 (S&A) - NAIL SET @ S. SIDE, TEL. POLE ON THE S. SIDE OF 131ST APPROX. 70'± W OF W PROPERTY LINE 1.5' UP FROM GROUND. ELEV. = 915.10
T.B.M.#2 (S&A) - NAIL SET @ W. SIDE OF PWR POLE ON THE S. SIDE OF 131ST APPROX. 130'± E. OF E. PROPERTY LINE 1.5' UP FROM GROUND. POLE #55-125 ELEV. = 906.04
S&A CP (M4) - REBAR SET @ S. SIDE OF 131ST APPROX. 300'± E. OF W. PROPERTY LINE. ELEV. = 911.65

DATE	BY	REVISIONS
07/29/02	BAH	AS BUILT SUBSURFACE DRAINS
10/19/02	BAH	AS BUILT INFO
4/9/02	CRM	REVISED NOTES ON EX. 12" C.M.P. & NOTE #8
3/29/02	CRM	REVISED PER HIGHWAY COMMENTS
3/4/02	BAH	ADD OVERFLOW CHANNEL
2/9/02	BAH	REVISED MH #708 AT ENTRANCE
1/10/02	BAH	REVISED PER HIGHWAY
1/10/02	BAH	REVISED PER TAC COMMENTS
11/20/01	BAH	REVISED PER HIGHWAY COMMENTS
11/20/01	BAH	REVISED PER HIGHWAY COMMENTS



CERTIFIED: 11/6/01

David J. Stoppelbech

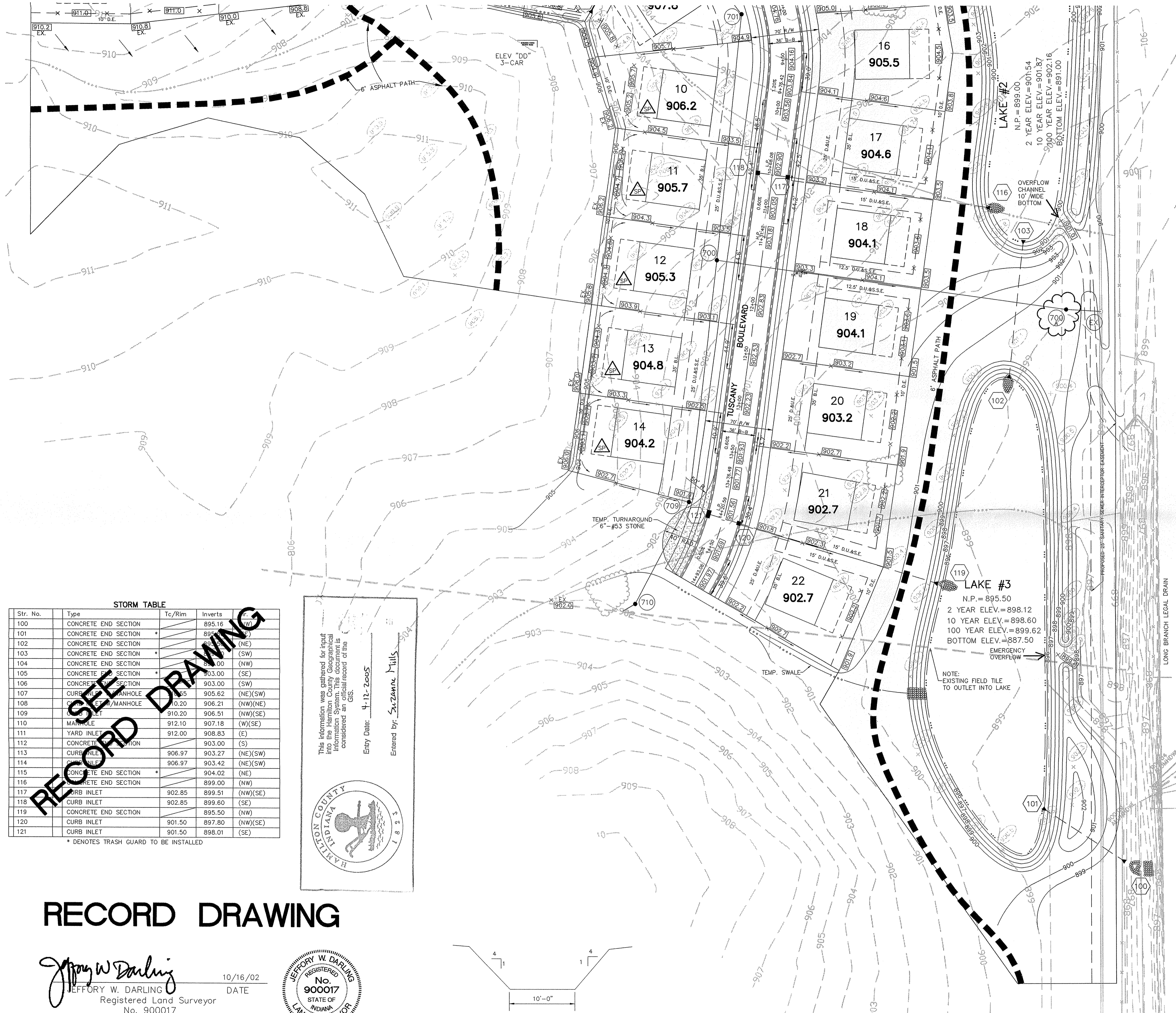
CONSULTING ENGINEERS — LAND SURVEYORS
(317) 849-5935 1-800-728-6917 FAX: (317) 849-5942
INDIANAPOLIS INDIANA



INDIANA

SITE DEVELOPMENT PLAN
HAYDEN RUN, SECTION 1
CARMEL

SHEET NO. 3 OF 21 SHEETS
AUG 15 2003
OFFICE OF HAMILTON COUNTY SUPERVISOR 40605



STORM TABLE

Str. No.	Type	Tc/Rim	Inverts	Dr. Inverts	Dr. Type
100	CONCRETE END SECTION		895.16	895.16	(W)
101	CONCRETE END SECTION		895.16	895.16	(NE)
102	CONCRETE END SECTION		895.16	895.16	(SW)
103	CONCRETE END SECTION		895.16	895.16	(NW)
104	CONCRETE END SECTION		903.00	903.00	(SE)
105	CONCRETE END SECTION		903.00	903.00	(SW)
106	CURB INLET		905.62	905.62	(NE)(SW)
107	MANHOLE	90.20	906.21	906.21	(NW)(NE)
108	MANHOLE	910.20	906.51	906.51	(NW)(SE)
109	MANHOLE	912.10	907.18	907.18	(W)(SE)
110	YARD INLET		908.83	908.83	(E)
111	CONCRETE END SECTION		903.00	903.00	(S)
112	CONCRETE END SECTION		906.97	906.97	(NE)(SW)
113	CONCRETE END SECTION		906.97	906.97	(NE)(SW)
114	CONCRETE END SECTION		904.02	904.02	(NE)
115	CONCRETE END SECTION		899.00	899.00	(NW)
116	CURB INLET		892.85	892.85	(NW)(SE)
117	CURB INLET		892.85	892.85	(SE)
118	CONCRETE END SECTION		895.50	895.50	(NW)
119	CONCRETE END SECTION		901.50	897.80	(NW)(SE)
120	CURB INLET		901.50	898.01	(SE)
121	CURB INLET				

* DENOTES TRASH GUARD TO BE INSTALLED

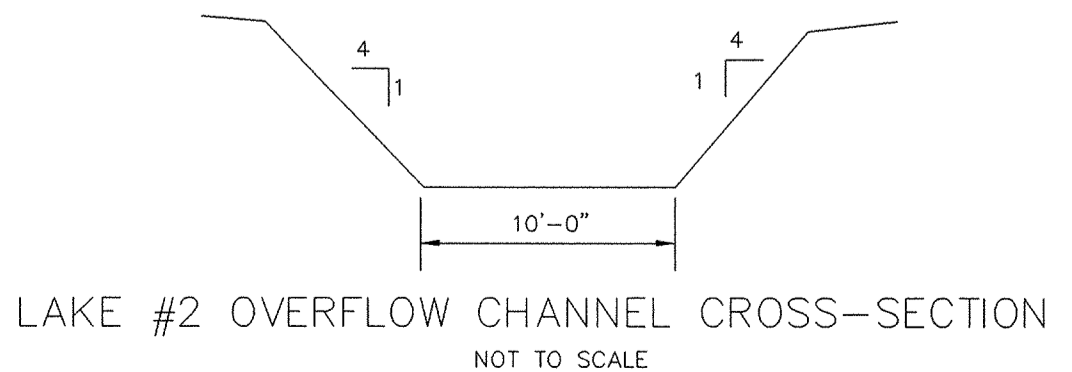
This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of this GIS.

Entry Date: 4-12-2005
Entered by: Sr. Zoning Mills



RECORD DRAWING

Jeffery W. Darling
JEFFERY W. DARLING
Registered Land Surveyor
No. 900017



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)

11 LOT NUMBER
905.7 PAD ELEVATION
PAD SIZE 50'x55'
HOUSE TO BE EXTENDED BACK TO 75'
SPECIAL DRAINAGE (FROM REAR OF LOT TO FRONT AROUND HOUSE.)

--- DENOTES 4" SUBSURFACE DRAIN TO LOT
--- DENOTES 6" SUBSURFACE DRAIN
--- ROLL CURB

NOTE:
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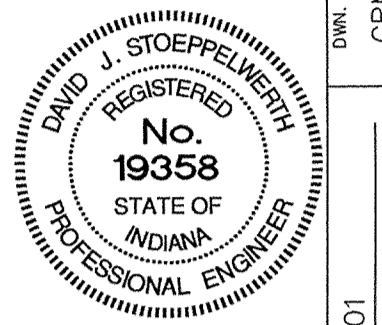
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 - A. Do all cutting, filling, compacting of fills and rough grading required to bring entire project area to subgrade as shown on the drawing.
 - B. The tolerance for paved areas shall not exceed 0.05 feet above established subgrade. All other areas 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.
- FORM EARTHWORK

"HOLEY MOLEY" SAYS:

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.

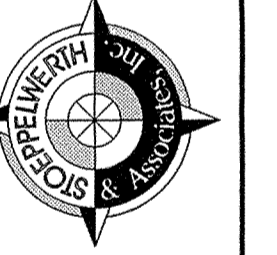
1-800-382-5544
CALL TOLL FREE
1-800-428-5200
FOR CALLS OUTSIDE OF INDIANA

DATE	BY	REVISIONS
07/29/02	DAW	AS BUILT SUBSURFACE DRAIN
10/24/02	DAW	REVISED AS BUILT INFO
10/16/02	DAW	AS BUILT INFO
5/19/02	DAW	ADD EMERGENCY OVERFLOW TO LAKE 3
4/16/02	DAW	ADD CHANGED THE TOLERANCE GRADE IN NOTE 6B
3/17/02	DAW	ADD OVERFLOW CHANNEL DETAIL
1/17/02	DAW	REVISED PER IAC COMMENTS
11/29/01	DAW	REVISED PER IAC COMMENTS
11/29/01	DAW	SCALE 1"=50'
11/29/01	DAW	DATE
11/29/01	DAW	MARK
11/29/01	DAW	REVISIONS



CERTIFIED: 11/6/01
David J. Stoppelbech

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



INDIANA

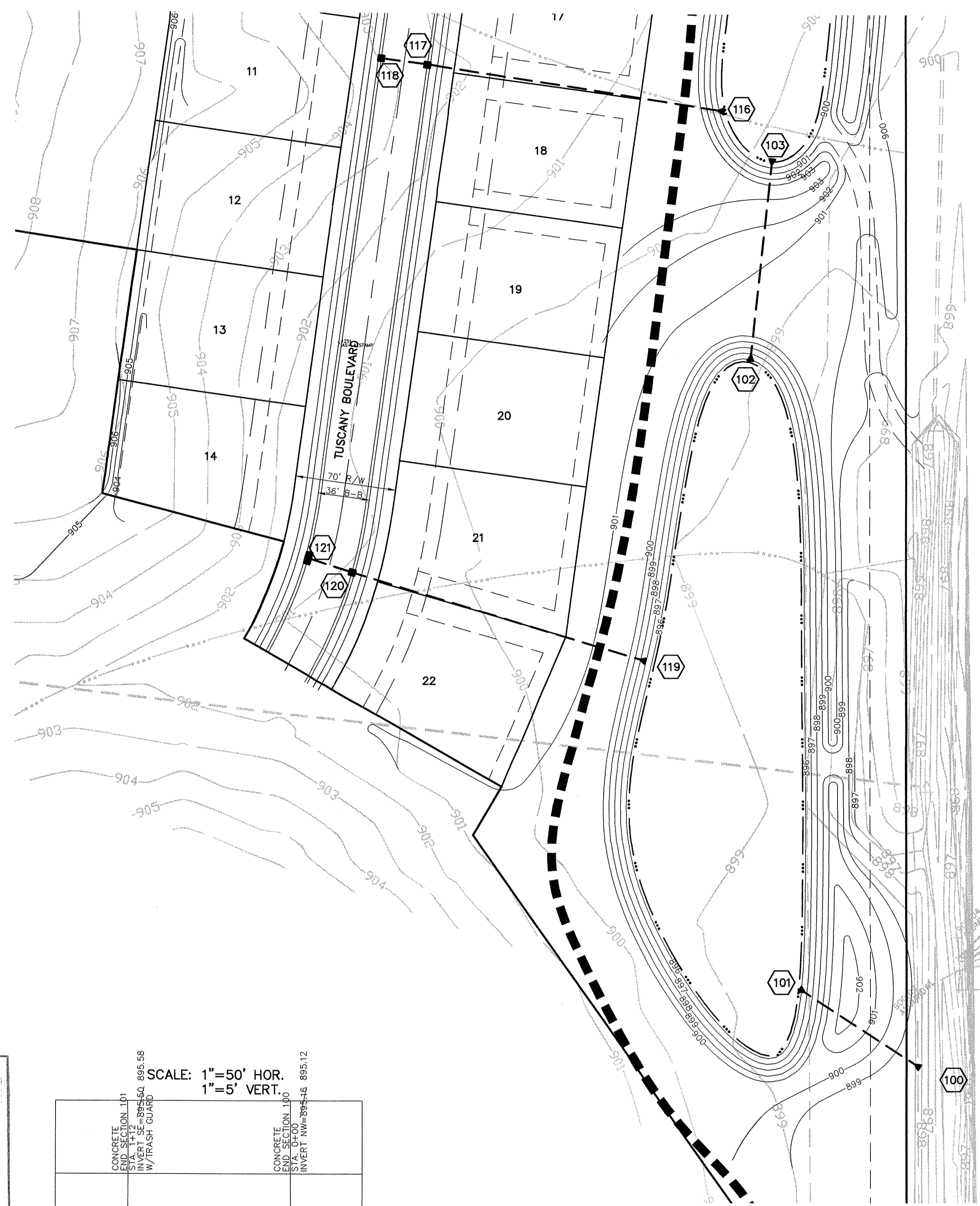
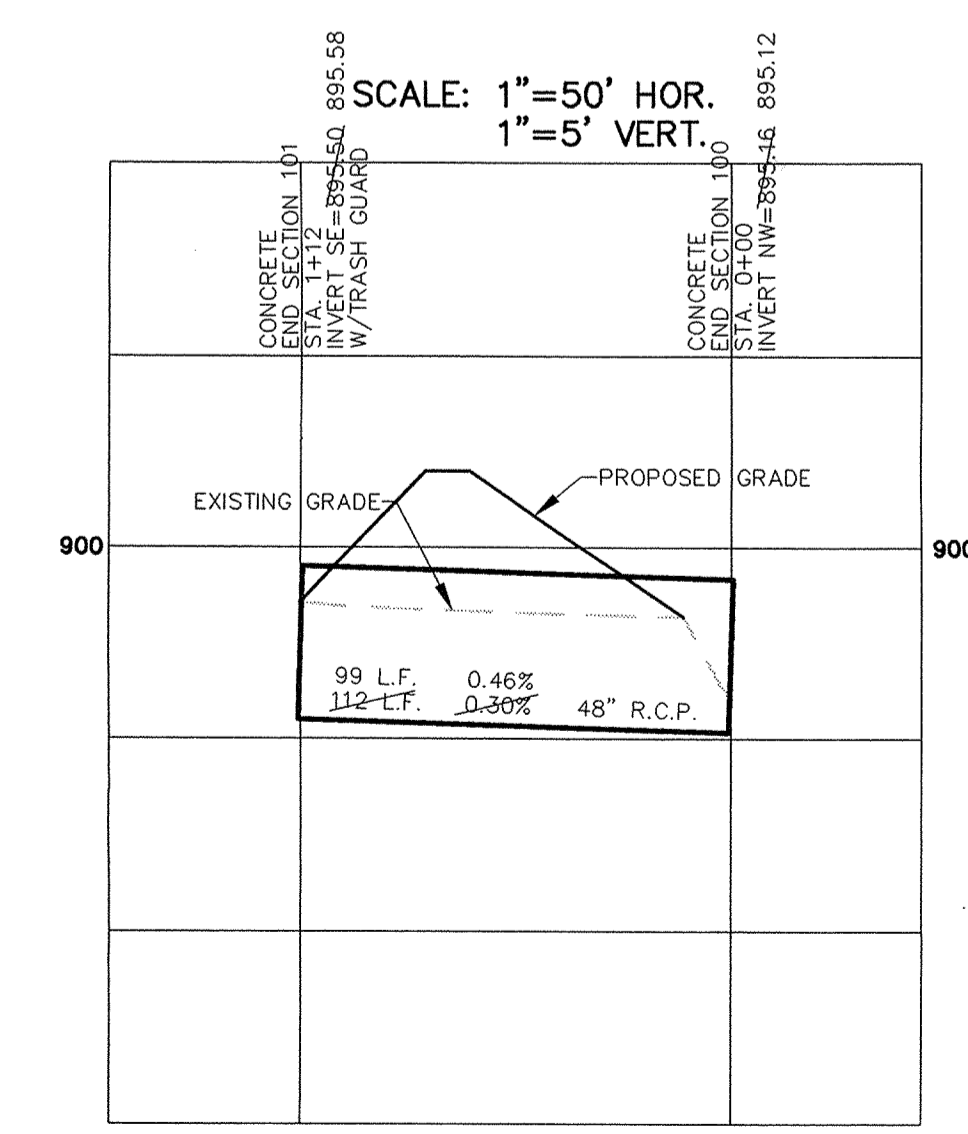
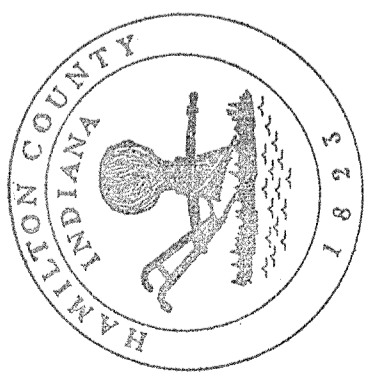
SITE DEVELOPMENT PLAN
HAYDEN RUN, SECTION 1
CARMEL

SHEET NO. 4
OF 21 SHEETS
JOB NO. 40605

FILED
AUG 15 2003

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

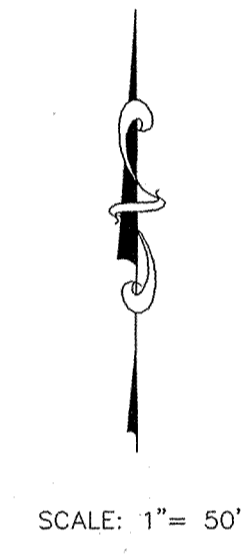
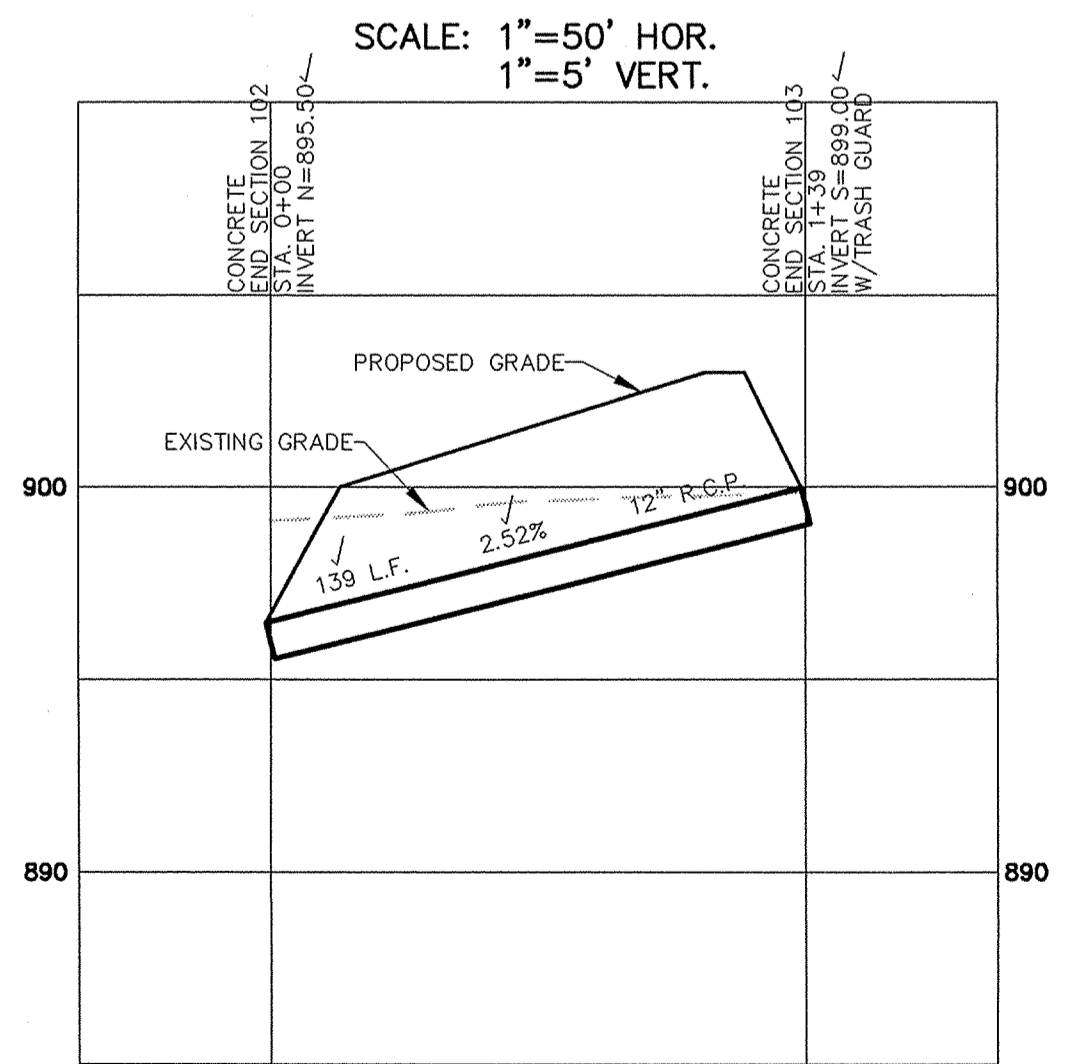
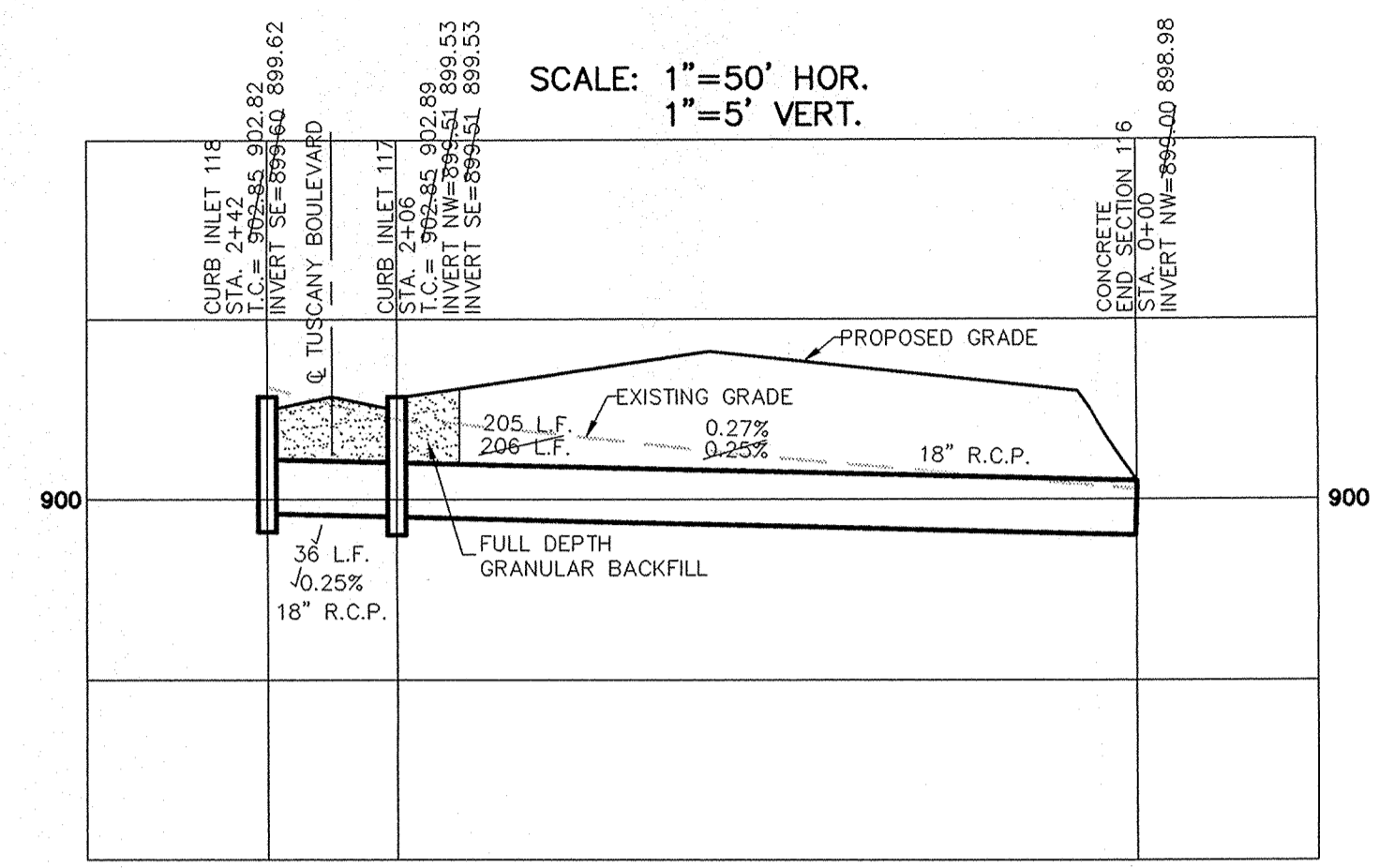
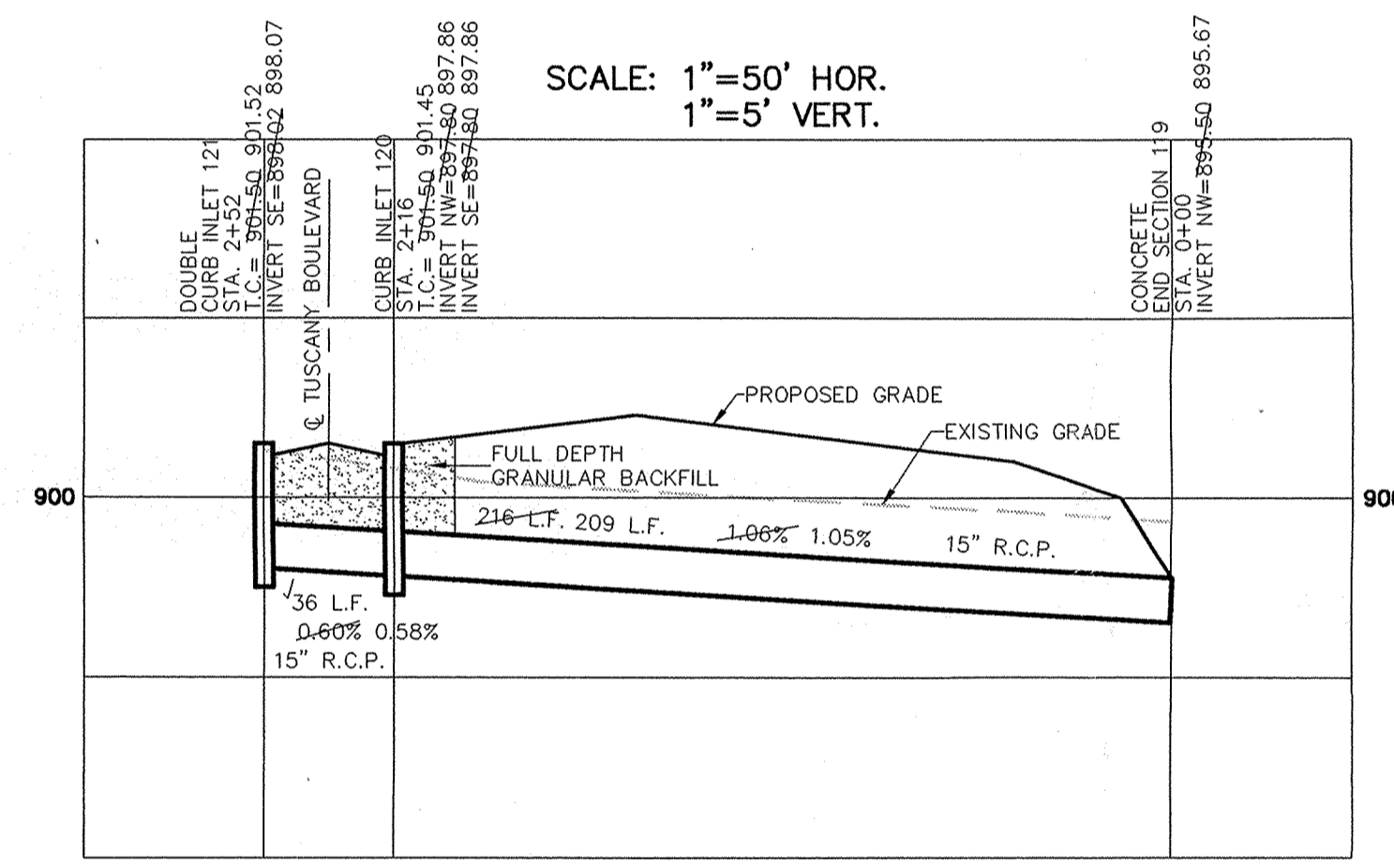
Entry Date: 4-12-2005
 Entered by: SACZMANN, Mills



RECORD DRAWING

Jeffery W. Darling
 JEFFERY W. DARLING
 Registered Land Surveyor
 No. 900017

10/16/02
 DATE



FILED
 JAN 10 2003

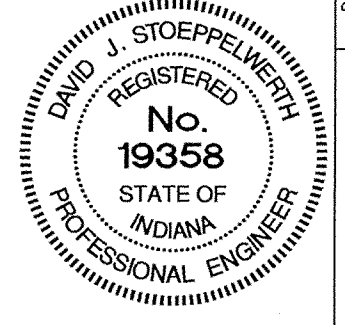
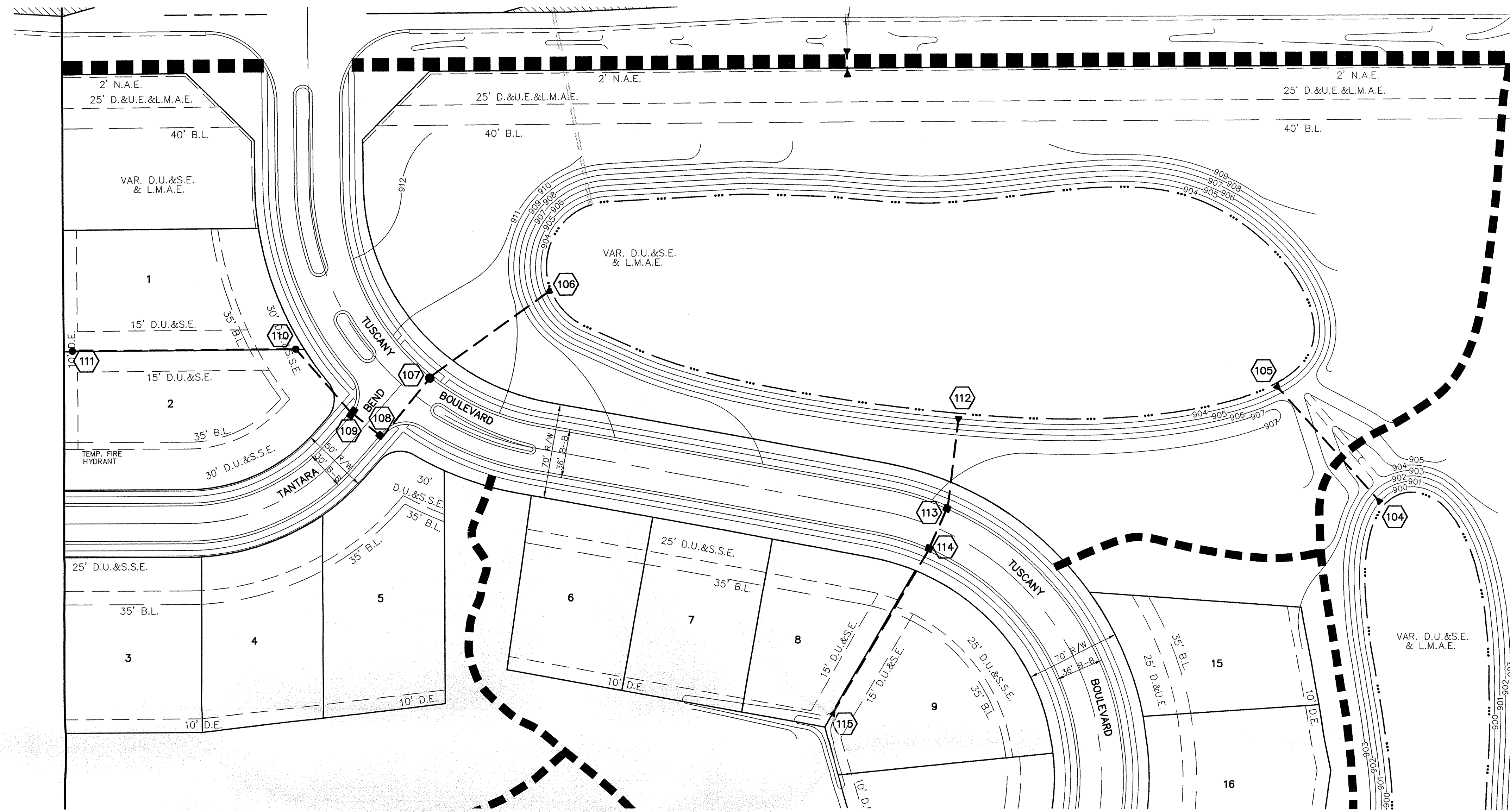
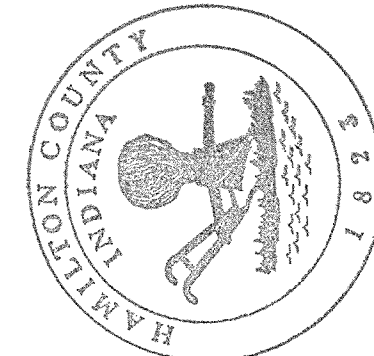


CONSULTING ENGINEERS - LAND SURVEYORS (317) 849-5935 1-800-728-6917 FAX: (317) 849-5942 INDIANAPOLIS INDIANA		CERTIFIED: 11/9/01	OWN. BY: CRM	DATE: 11/6/01	MARK	REVISIONS
STORM SEWER PLAN & PROFILE HAYDEN RUN, SECTION 1 CARMEL INDIANA		DAVID J. STAPPELER REGISTERED PROFESSIONAL ENGINEER No. 19358 STATE OF INDIANA	DATE: 11/29/01	DATE: 11/29/01	DATE: 11/29/01	DATE: 11/29/01
SHEET NO. 15 OF 21 SHEETS JOB NO. 40605		BY: CRM	CHK BY: EEF	SCALE: 1"=50'	AS BUILT INFO	REVISIONS

This information was gathered for input into the Hamilton County Geographical Information System. This information is considered an "As-Built" record of the City.

Entry Date: 4-12-2005

Entered by: *Suzanne Mills*



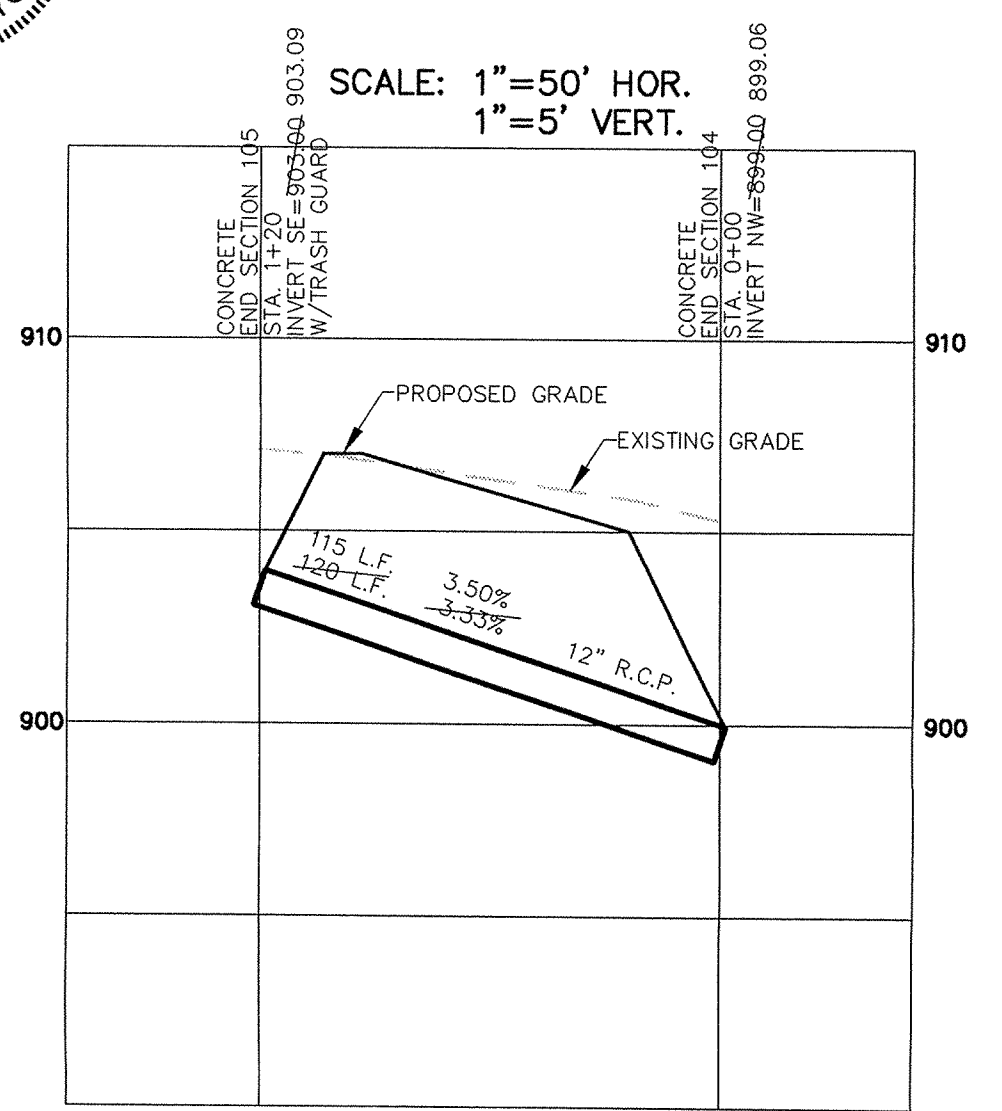
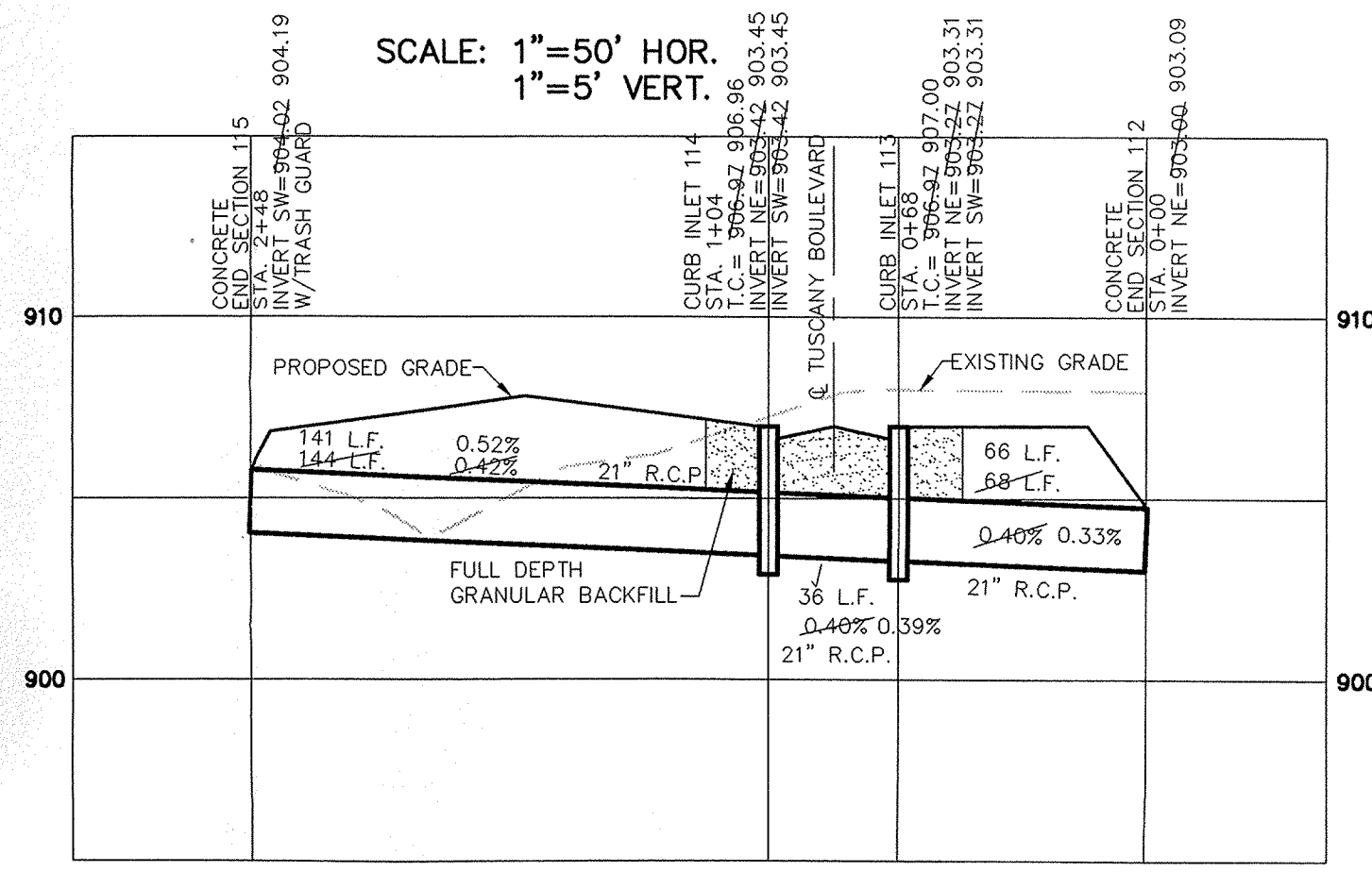
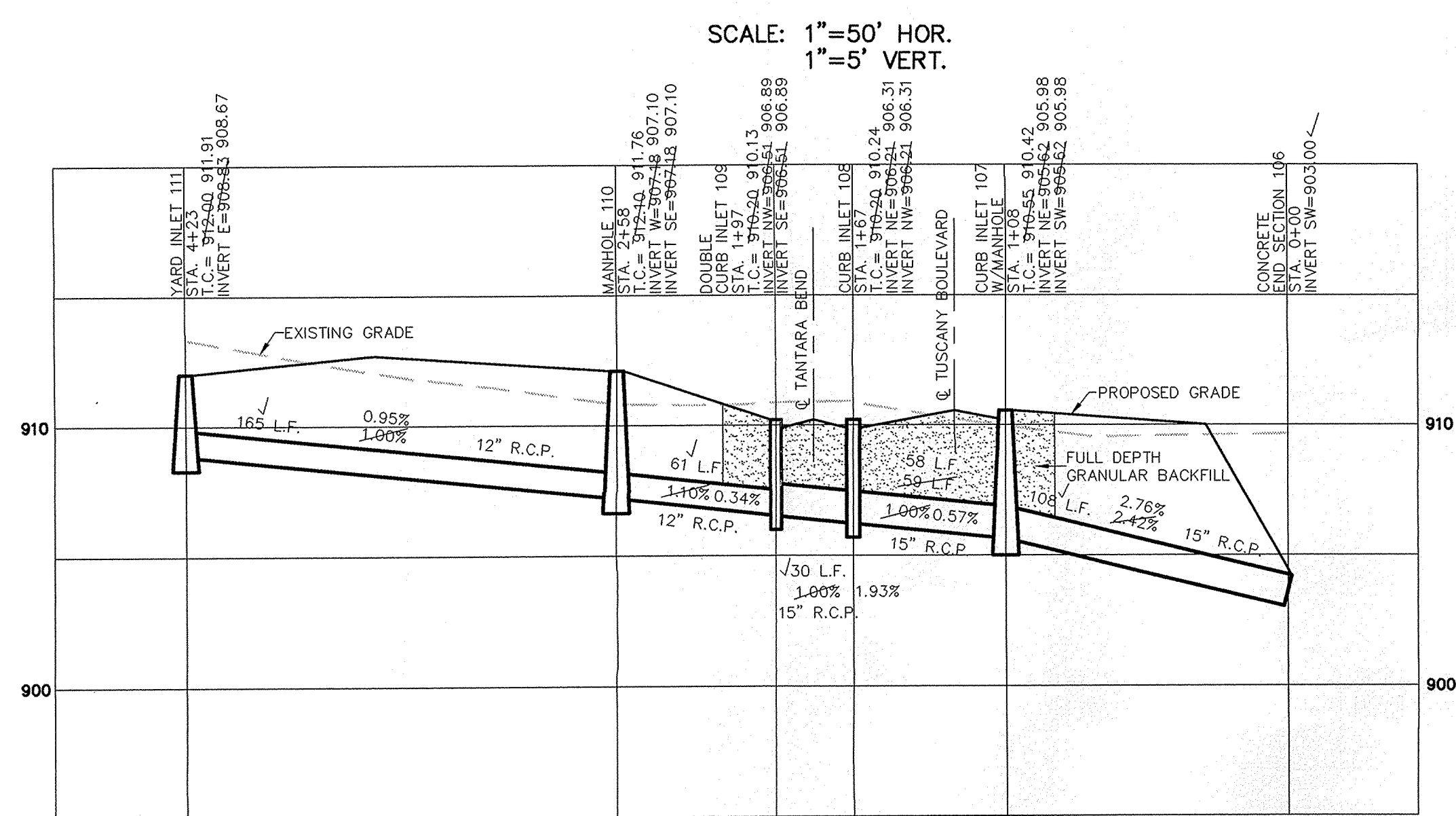
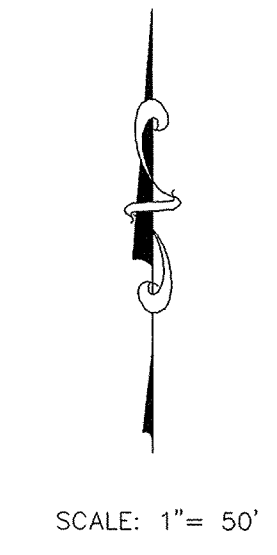
CERTIFIED: 11/6/01

BY: *David J. Stoppelbech*

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

RECORD DRAWING

Jeffery W. Darling
 JEFFERY W. DARLING 10/16/02
 Registered Land Surveyor DATE
 No. 900017



STORM SEWER PLAN & PROFILE
 HAYDEN RUN, SECTION 1
 CARMEL INDIANA

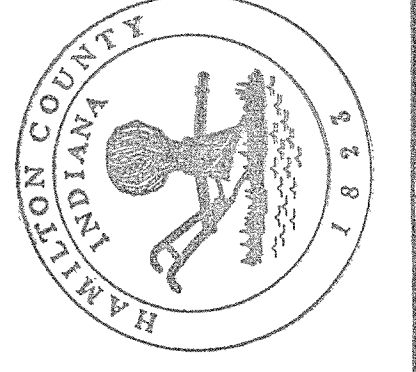
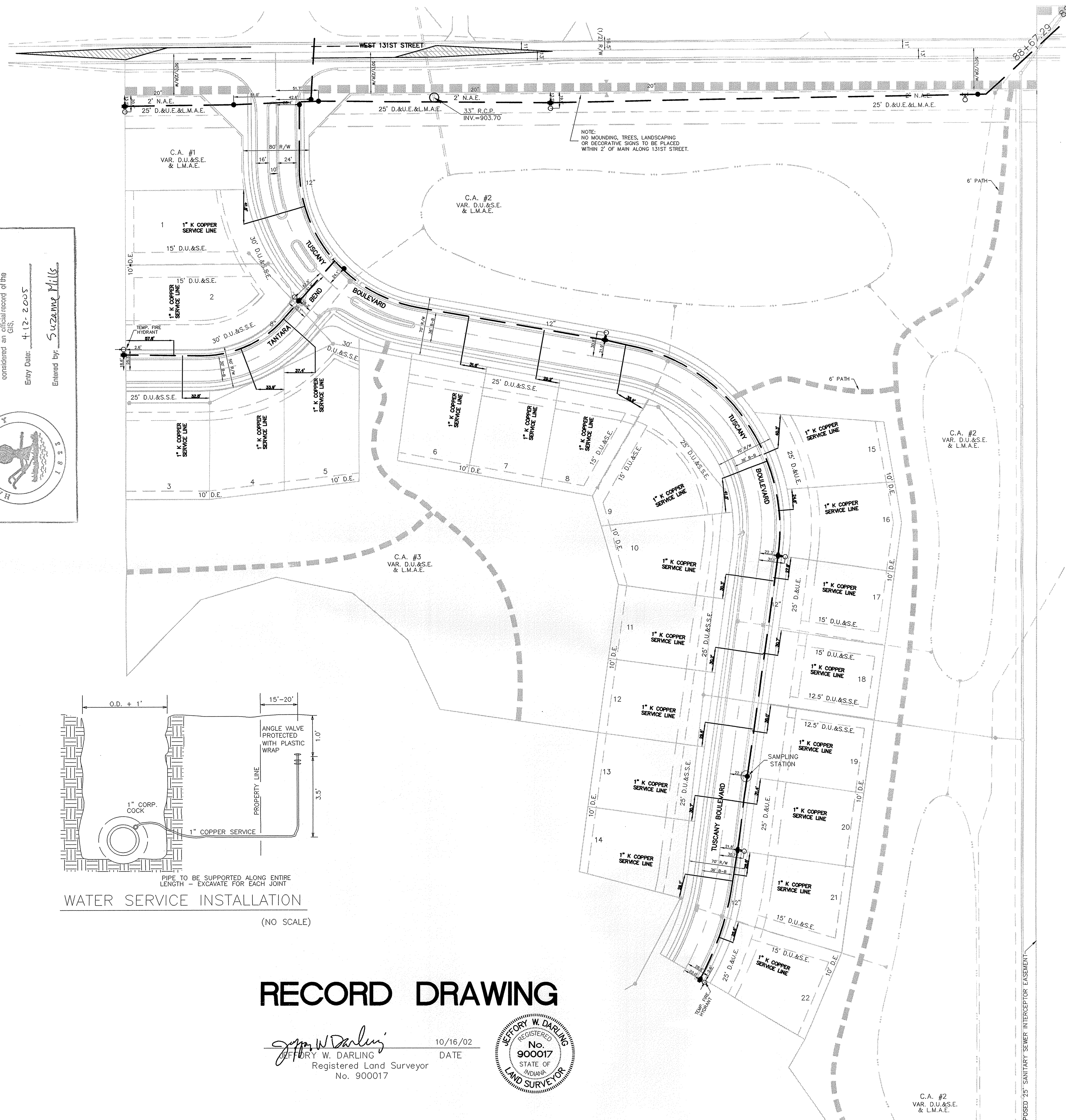
FILED
 JAN 10 2003

SHEET NO.
16
 of 21 SHEETS
 JOB NO. 40605

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

Entry Date: 4-17-2005





Entered by: *Suzanne Mills*

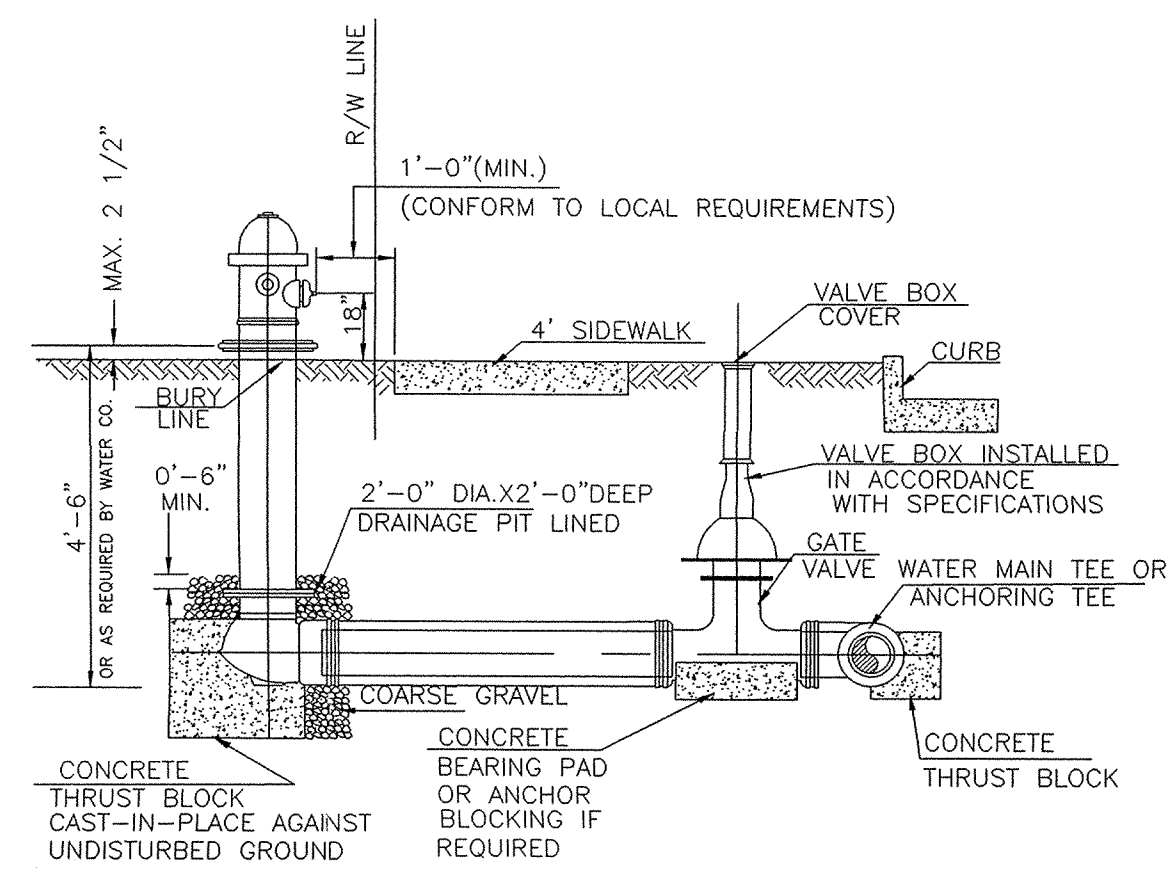



SEE OFFSITE WATER PLANS

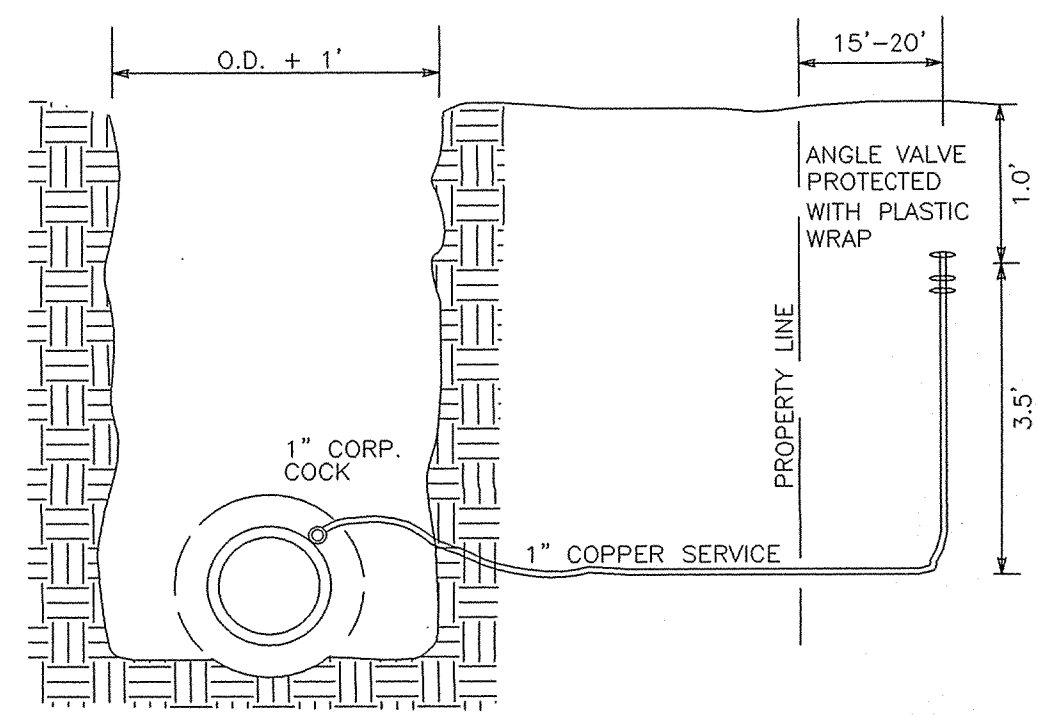
SCALE: 1" = 60'

LEGEND

-  PROPOSED HYDRANT
-  VALVE
-  BLOW OFF ASSEMBLY
-  REDUCER



FIRE HYDRANT DETAIL
(NO SCALE)



WATER SERVICE INSTALLATION
(NO SCALE)

ALL WATER MAINS TO BE CLASS 50 DUCTILE IRON PIPE AND MEGA LUGS TO BE USED AT ALL MECHANICAL JOINTS

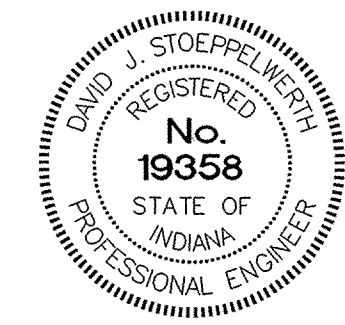
NOTE: POSI-CAPS OR EQUIVALENT IS REQUIRED ON ALL WATER VALVE INSTALLATION.

NO WATERMAIN VALVES ARE TO BE PLACED WITHIN THE STREETS.

RECORD DRAWING

Jeffery W. Darling
JEFFERY W. DARLING
Registered Land Surveyor
No. 900017

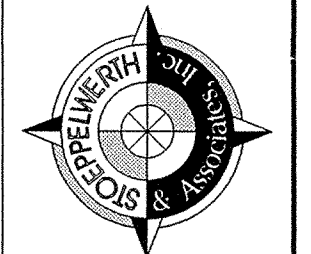
10/16/02
DATE



CERTIFIED: 2/23/02

David J. Stappeworth

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



WATER DISTRIBUTION PLAN
HAYDEN RUN SECTION 1
INDIANAPOLIS INDIANA
CARMEL

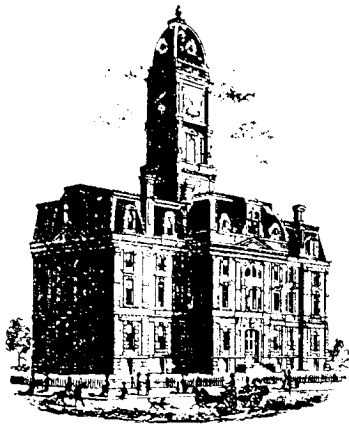
FILED
JAN 10 2003

"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.

SHEET NO.
17
OF 21 SHEETS
JOB NO. 4060551



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, CEM
 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

March 11, 2008

**Re: JW Brendle Drain: Hayden Run Section 1 Arm
 (Revised Final Report)**

Attached are as-builts, certificate of completion & compliance, and other information for Hayden Run Section 1. 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 November 20, 2002. The report was approved by the Board at the hearing held January 27, 2003. (See Drainage Board Minutes Book 6, Pages 523-524) The changes are as follows:

Structure:	Length:	Size	Material:	Up Invert:	Dn Invert	Grade:	Changes(ft):
101-100	99	48	RCP	895.58	895.12	0.46	-3
121-120	36	15	RCP	898.07	897.86	0.58	
120-119	209	15	RCP	897.86	895.67	1.05	-7
103-102	139	12	RCP	899	895.5	2.52	
118-117	36	18	RCP	902.82	899.62	0.25	
117-116	205	18	RCP	899.53	898.98	0.27	-1
105-104	115	12	RCP	903.09	899.06	3.5	-5
115-114	141	21	RCP	904.19	903.45	0.52	-3
114-113	36	21	RCP	903.45	903.31	0.39	
113-112	66	21	RCP	903.31	903.09	0.33	-2
111-110	165	12	RCP	908.67	907.1	0.95	
110-109	61	12	RCP	907.1	906.89	0.34	
109-108	30	15	RCP	906.89	906.31	1.93	
108-107	58	15	RCP	906.31	905.98	0.57	-1
107-106	108	15	RCP	905.98	903	2.76	

6" SSD Streets:

Tuscany Blvd	1470
Tantara Bend	248
Totalx2:	<u>3436</u>

RCP Pipe Totals:

12	480
15	441
18	241
21	243

Total: 1504

The length of the drain due to the changes described above is now 4,940 feet. In 2006, Centex Homes agreed to add additional pipes between two of the Lakes in Section 1. These pipes consist of 124 feet of 21" RCP and 145 feet of 36" RCP. The as-builts shot by our office, dated 02-27-2007, show the pipes and their inverts. These pipes were installed to alleviate flooding occurring to the east of the ponds. Therefore length of drain, due to the above listed revision, is now **5209 feet**.

The non-enforcement was approved by the Board at its meeting on January 27, 2003 and recorded under instrument #200300011400.

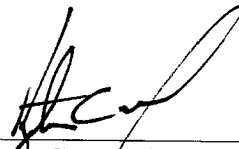
The following sureties were guaranteed by SAFECO Insurance Company and released by the Board on its November 28, 2005 meeting.

Bond-LC No: 6161759
Insured For: Storm Sewers
Amount: \$67,088.47
Issue Date: April 10, 2002

Bond-LC No: 6161760
Insured For: Erosion Control
Amount: \$43,546.2
Issue Date: April 10, 2002

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

Sincerely,

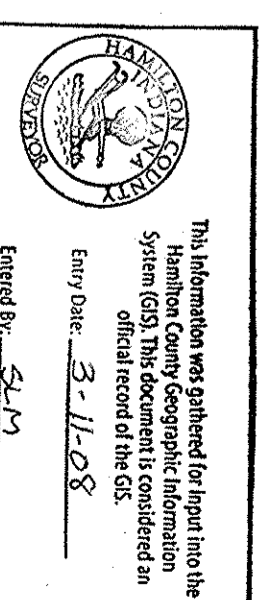


Kenton C. Ward,
Hamilton County Surveyor

KCW/slm

W 131ST ST

HAYDEN RUN, SECTION 1



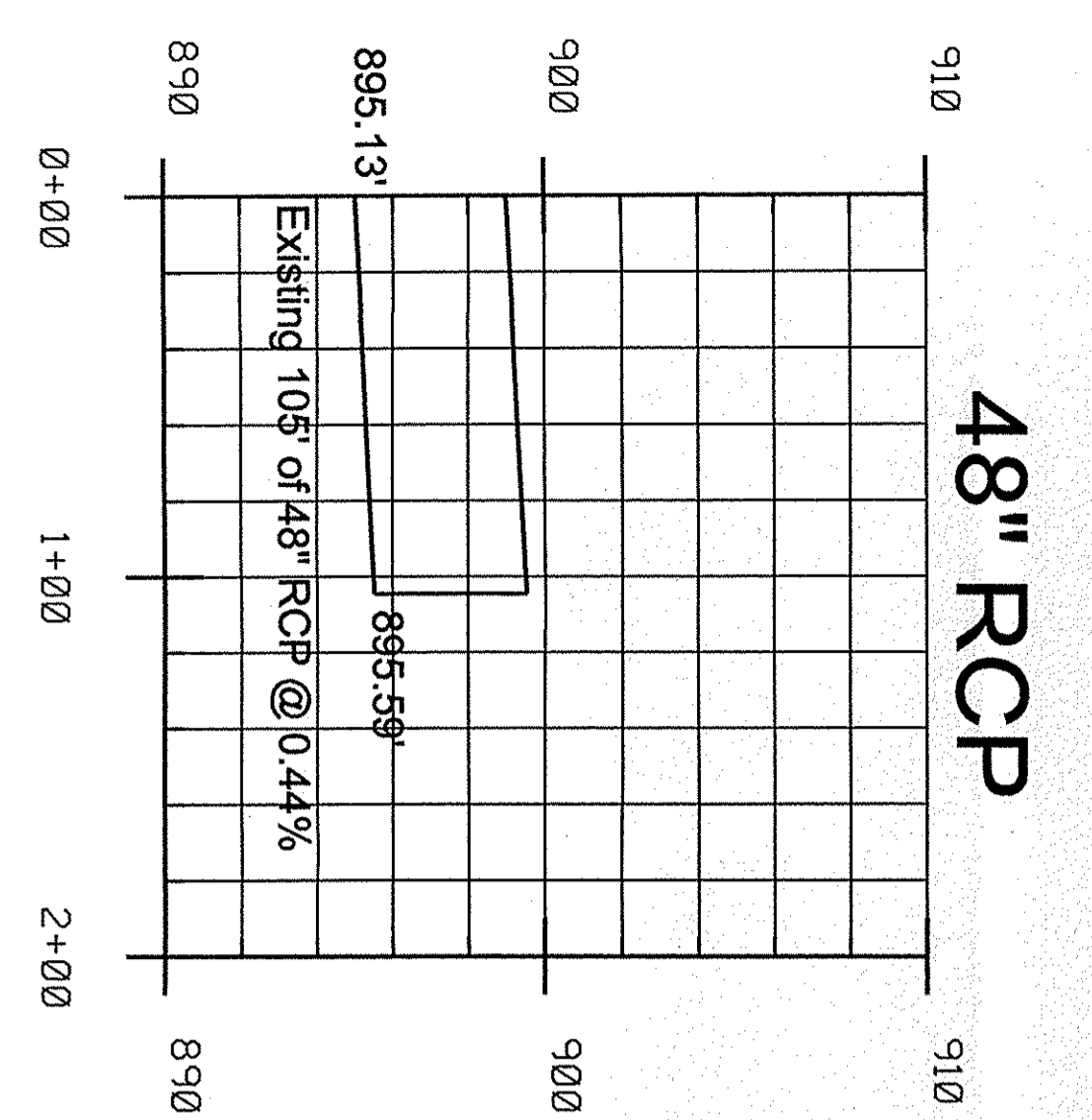
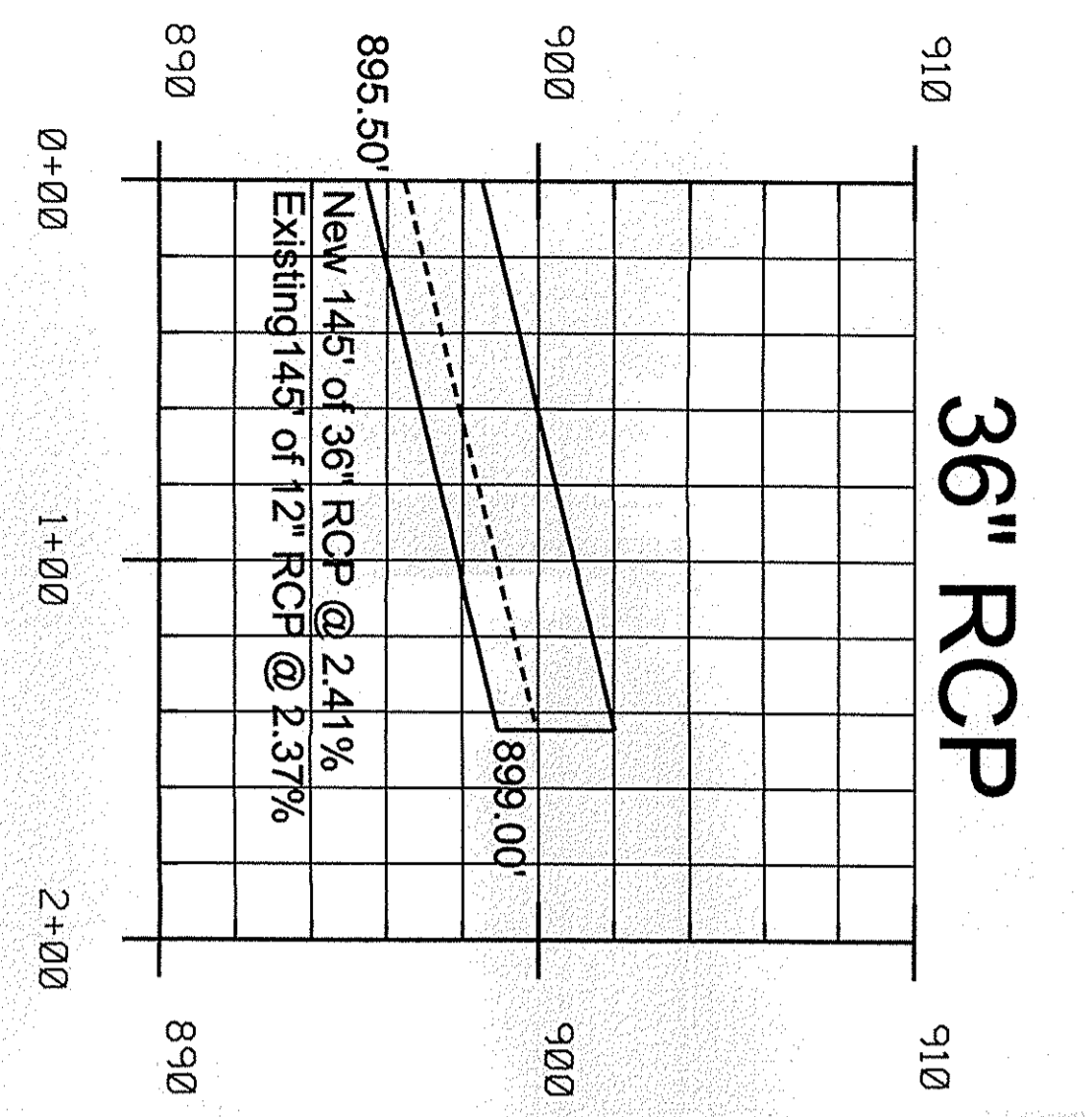
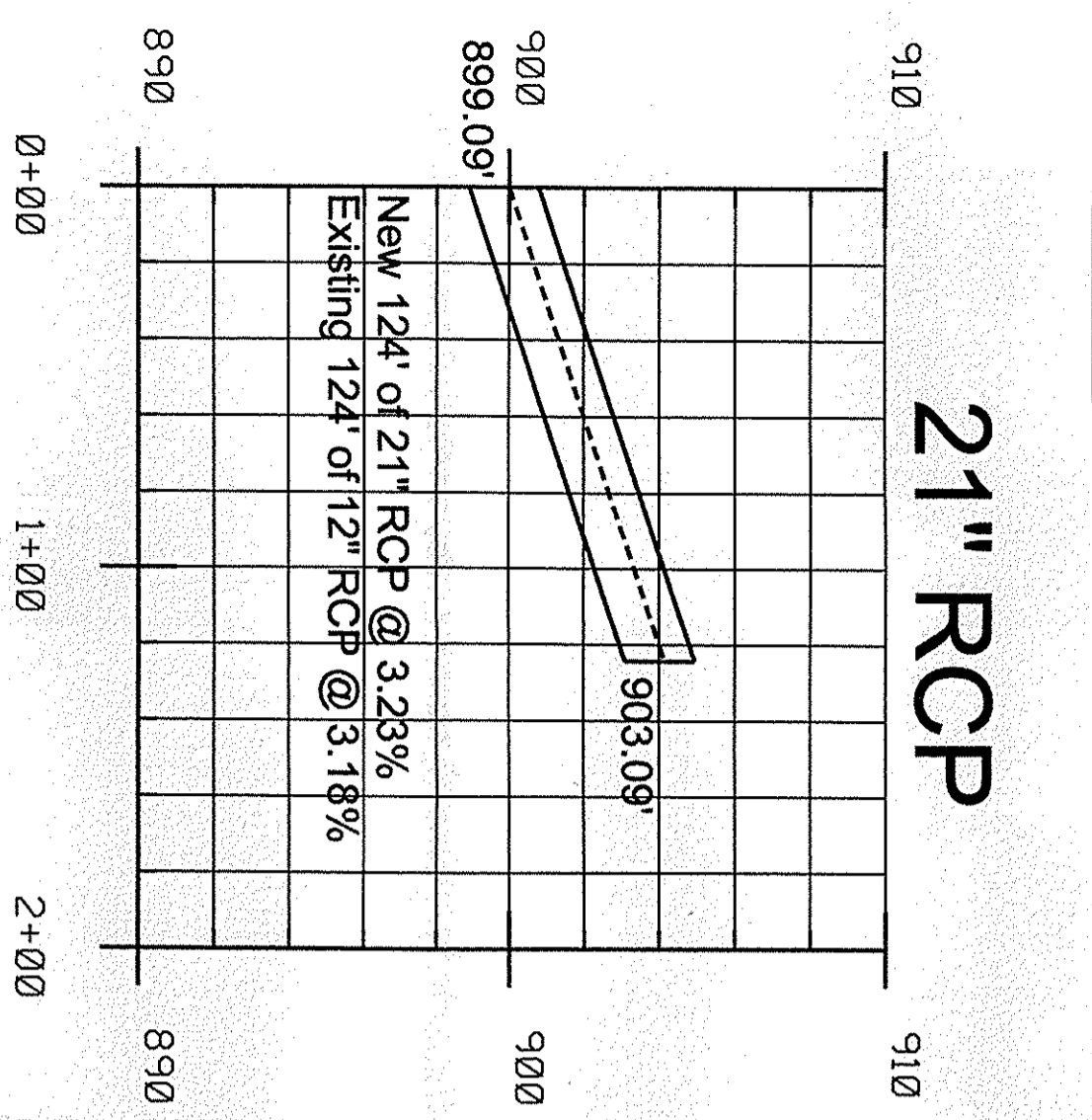
Existing 124' of 12" RCP with End Sections @ 3.18%
 North Inv. 903.01', South Inv. 899.07'

Top of Over Flow North Pond 905.8'

New 124' of 21" RCP with End Sections @ 3.23%
 North Inv. 903.09', South Inv. 899.09'

TANTARA BEND

TUSCANY BLVD



PLAN VIEW
 SCALE 1" = 50'
 PROFILE VIEW
 HORIZONTAL SCALE 1" = 50'
 VERTICAL SCALE 1" = 5'

Existing 105' of 48" RCP with End Sections @ 0.44%
 North Inv. 895.59'; South 895.13' into Open Ditch

New 145' of 36" RCP with Ean Sections @2.41%
 North Inv. 899.00'; South 895.50'

Existing 145' of 12" RCP with Ean Sections @2.37%
 North Inv. 898.94'; South 895.50'

Top of Over Flow South Pond 899.0'

Top of Over Flow Middle Pond 902.1'

J.W. Brindle Open Ditch

Project Name:
HAYDEN RUN, SECTION 1
 AS-BUILT

AS-Built of the
 21", 36" & 48" RCP Pipes

1 OF 1 SHEET NO.

PLLOT DATE: \$\$\$SSSDATISSSSSS

Certified By: *Jeffrey Powell*
 Jeffrey Powell L.S.

Revisions:	Date:	By:	Project No:



HAMILTON COUNTY, INDIANA

Hamilton County Surveyor's Office
 Hamilton County Government and
 Judicial Center
 One Hamilton County Square, Suite 188
 Noblesville, IN 46060
 (317) 776-9495
 (317) 776-9828
 surveyor@co.hamilton.in.us