

Drain: RUSSELL SHUGART DRAIN **Drain #:** 320
Improvement/Arm: HAZEL DELL WOODS - SECTION 3
Operator: JPH **Date:** _____
Drain Classification: Urban/Rural **Year Installed:** 2003

GIS Drain Input Checklist

- Pull Source Documents for Scanning JPH
- Digitize & Attribute Tile Drains N/A
- Digitize & Attribute Storm Drains JPH
- Digitize & Attribute SSD JPH
- Digitize & Attribute Open Ditch N/A
- Stamp Plans JPH
- Sum drain lengths & Validate JPH
- Enter Improvements into Posse JPH
- Enter Drain Age into Posse JPH
- Sum drain length for Watershed in Posse JPH
- Check Database entries for errors JPH



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 24, 2003

To: Hamilton County Drainage Board

Re: Russell Shuggart Drain, Hazel Dell Woods Section 3 Arm

Attached is a petition, non-enforcement request, plans, calculations, quantity summary and assessment roll for the Hazel Dell Woods Section 3 Arm, Russell Shuggart 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	5,256 ft	15" RCP	361 ft	21" RCP	944 ft
12" RCP	642 ft	18" RCP	52 ft	24" RCP	280 ft

The total length of the drain will be 8,402 feet.

The dry retention pond in Section 3 located in Common Area "F" 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 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 drain.

I have reviewed the plans and believe the drain will benefit each lot equally. Therefore, I recommend each lot be assessed equally per the assessment schedule established for the Russell Shugart Drain. 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, with a \$65.00 minimum. With this assessment the total annual assessment for this drain/this section will be \$4,221.30.

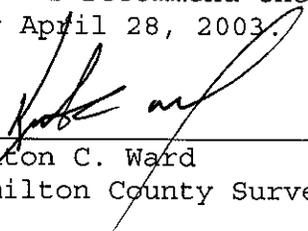
Parcels assessed to this drain may be assessed for the Emily Vestal Drain at sometime in the future. This arm shall be assessed as part of the Russell Shugart Drain and not as a separate drain.

The offsite drainage for this development was done under the Russell Shugart Drain reconstruction. See my report dated June 12, 2000.

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 Hazel Dell Woods Section 3 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for April 28, 2003.



KenCon C. Ward
Hamilton County Surveyor

KCW/llm

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Hazel Dell Woods Section 3

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: Allan H. Weihe Date: August 28, 2003

Type or Print Name: Allan H. Weihe

Business Address: 10505 N. College Avenue

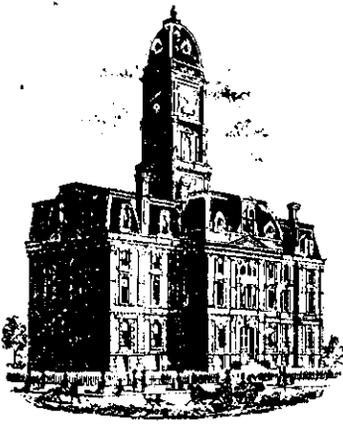
Indpls., Indiana 46280

Telephone Number: 317-846-6611



INDIANA REGISTRATION NUMBER

8827



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

April 5, 2004

Re: Russell Shuggart Drain:
 Hazeldell Woods Sec. 3 Arm

Attached are as-builts, certificate of completion & compliance, and other information for Hazeldell Woods Sec. 3 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 March 24, 2003. The report was approved by the Board at the hearing held April 28, 2003. (See Drainage Board Minutes Book 7, Pages 42-44)

The changes are as follows:

Structure:	T.C.:	I.E.:	Pipe:	Length:	Grade:	Original:	Difference:
798		830.4					
797	834.4	830.34	18	26	0.5		
797	834.4	830.34					
796	834.4	830.19	21	30	0.5		
796	834.4	830.19					
795	833.8	829.47	21	145	0.5		
795	833.8	829.47					
783	834	829.33	21	28	0.48		
788	837	834.5					
787	838.46	833.78	15	137	0.53		
787	838.46	833.78					
786	838.46	833.62	15	30	0.53		
786	838.46	833.62					
785	839	833.48	18	26	0.54		
785	839	833.48					
784	838.3	831.62	21	358	0.52		
784	838.3	831.62					
783	834	830.16	24	280	0.52		
783	834	829.33					
782		829.18	27	31	0.48		
794	835.8	833.3					
793	839.8	832.7	12	116	0.52		

793	839.8	832.7				
792	839.06	832.53	12	33	0.52	
792	839.06	832.53				
791	839.06	832.37	12	30	0.53	
791	839.06	832.37				
784	838.3	831.62	15	145	0.52	
790A	839.65	835.65				
790	839.5	835.39	12	52	0.5	
790	839.5	835.39				
789	839.61	835.14	12	50	0.5	
789	839.61	835.14				
785	839	833.48	12	145	1.14	
811	838.6	834.6				
810	838.5	834.36	12	48	0.5	
810	838.5	834.36				
807	838.6	833.66	15	49	1.43	
809	836.35	834.37				
808	837.93	833.76	12	112	0.54	
808	837.93	833.76				
807	837.74	833.52	12	56	0.43	
807	837.74	833.52				
806	836.91	833.21	21	100	31	
806	836.91	833.21				
805	835.1	832.41	21	129	0.62	
805	835.1	832.41				
804	834.23	830.68	21	154	1.12	
804	834.23	830.68				
803	841.38	829.64	27	241	0.43	
803	841.38	829.64				
802	833.12	829.19	27	204	0.22	
802	833.12	829.19				
801	837.95	828.72	27	175	0.27	
801	837.95	828.72				
800	839.22	828.09	27	72	0.88	
800	839.22	828.09				
799		827.15	27	144	0.65	

6" SSD Streets:

Bittner Ct	254.76
Bittner Way	1101.84
Bruce Blvd	1256.76
x2	

Total: 5226.72

RCP Pipe Totals:

12	642
15	361
18	52
21	944
24	280
27	867

Total: 3146

The length of the drain due to the changes described above is now **8,372.72 feet**.

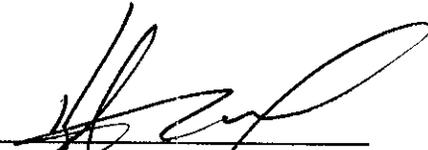
*Note: Structures 803- 799 were not listed on the original report.

The non-enforcement was approved by the Board at its meeting on April 28, 2003 and recorded under instrument #200300093874.

Bonds for this project were not obtained.

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

Sincerely,

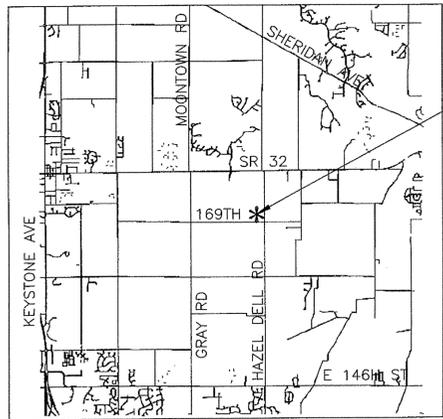


Kenton C. Ward,
Hamilton County Surveyor

KCW/slm

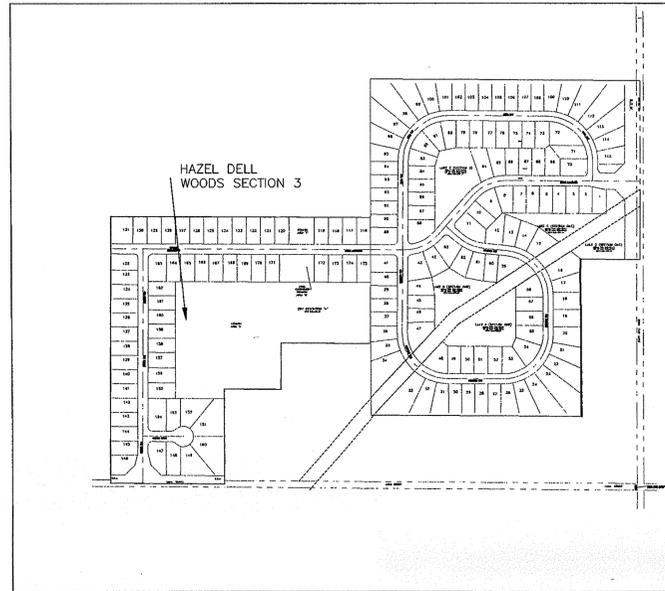
CONSTRUCTION PLANS FOR HAZEL DELL WOODS SECTION 3

- GENERAL NOTES:
- 1) 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.
 - 2) 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.
 - 3) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY AND COORDINATE CONSTRUCTION WITH ALL RESPECTIVE UTILITIES.
 - 4) ALL QUANTITIES GIVEN ON THESE PRINTS, VERBALLY OR IN THE SCOPE OF WORK SECTION ARE ESTIMATES AND SHALL BE CONFIRMED BY THE BIDDING CONTRACTORS.
 - 5) 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.
 - 6) IN ADDITION, EXCAVATION EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
 - 7) IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND CONTRACTOR TO MAINTAIN QUALITY CONTROL THROUGHOUT THIS PROJECT.
 - 8) TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL STANDARDS.
 - 9) THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
 - 10) ANY FIELD TILES ENCOUNTERED DURING EXCAVATION SHALL BE REPAIRED AND CONNECTED TO NEW STORM SEWERS AND POSITIVE DRAINAGE PRESERVED.
 - 12) THE SITE DOES NOT LIE IN A SPECIAL FLOOD HAZARD AREA AS ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY - NATIONAL FLOOD INSURANCE PROGRAM, MAP #180082 0015E, DATED SEPTEMBER 24, 1982.
 - 13) BEARINGS, DIMENSIONS AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS & PLAT FOR EXACT INFORMATION.
 - 14) THE SITE DOES NOT CONTAIN A WETLANDS AS ESTABLISHED BY THE U.S. DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE, NOBLESVILLE, INDIANA, NATIONAL WETLANDS INVENTORY MAP DATED 1989.
 - 15) CONSTRUCTION DRAWINGS WILL BE SUBMITTED TO EQUILON FOR THEIR APPROVAL BEFORE ANY CONSTRUCTION AROUND THE PIPELINE.
 - 16) A 48 HOUR NOTICE MUST BE GIVEN TO APPROPRIATE ONE-CALL SYSTEM BEFORE CONSTRUCTION BEGINS. A EQUILON REPRESENTATIVE WILL BE PRESENT DURING ACTIVITY AROUND THE PIPELINE.
R. E. (DICK) WADDELL, OPERATIONS SUPERVISOR
EQUILON PIPELINE COMPANY LLC
P.O. BOX 7,
ZIONSVILLE, INDIANA 46268
TELEPHONE (317) 870-0122



AREA MAP
INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	EXISTING CONDITIONS / DEMOLITION PLAN
3	DEVELOPMENT PLAN
4-6	STREET PLAN & PROFILE SHEETS
7-9	STORM SEWER PLAN & PROFILE SHEETS
10-11	SANITARY SEWER PLAN & PROFILE SHEETS
12-13	EROSION CONTROL PLAN
14	TRAFFIC MAINTENANCE / ENTRANCE PLAN
15	TRAFFIC CONTROL PLAN
16	INTERSECTION DETAIL SHEET
17-18	DETAIL SHEET
19-29	NOBLESVILLE STANDARD DETAILS
30	SPECIFICATION SHEET
31-32	WATER MAIN PLAN
33	WATER MAIN DETAIL SHEET
34	WATER MAIN SPECIFICATION SHEET



SITE LOCATION MAP

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: 6-18-04
Entered by: JOH

BENCHMARK
2.5 miles west along the Central Indiana Railway from the station at Noblesville, in the SW angle of the crossing with Mill Creek Road, 55 feet west of the centerline of the road, 11 feet south of the south rail, 35 feet west of a fence corner, 9 feet north of the fence line, and about 2 feet higher than the track. A slate survey standard disk, stamped "104" and set in the top of a concrete post flush with the ground.
ELEVATION - 809.50 (NGVD 1929)

PLANS PREPARED FOR:

BAY DEVELOPMENT CORP.
10415 N. COLLEGE AVE.
INDIANAPOLIS, IN 46280
TELEPHONE: (317) 844-8844
CONTACT PERSON: URSELL COX

PLANS PREPARED BY:

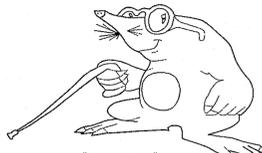
WEIHE ENGINEERS, INC.
10505 N. COLLEGE AVE.
INDIANAPOLIS, IN 46280
TELEPHONE: (317) 846-6611
CONTACT PERSON: MAX MOUSER - ENGINEER
PAUL MONKE - STAKING

OPERATING AUTHORITIES:

- | | | |
|--|--|--|
| Hamilton County Surveyor
One Hamilton Square, Suite 146
Noblesville IN 46060
(317) 776-8495 | City of Noblesville
Wastewater Utility
197 Washington Street
Noblesville IN 46060
(317) 776-6353 | CINERGY/FSI ENERGY
100 S. MILL CREEK
NOBLESVILLE, IN 46060
(800) 521-2232 |
| Indiana Gas Company
15900 Allisonville Road
Noblesville IN 46060
(317) 773-0430 | Insight Cablevision
15229 Stony Creek Way
Noblesville IN 46060
(317) 776-0660 | Hamilton County Soil Conservation Service
925 Division Street
Noblesville IN 46060
(317) 773-1406 |
| Ameritech
5858 N College Ave.
Indianapolis IN 46220
(317) 252-4267 | Indianapolis Water Company/
Harbor Water
P.O. Box 1220
Indianapolis, IN 46206
(317) 263-6347 | |
| Equilon Pipeline Company, LLC.
P.O. Box 7
Zionsville, IN 46268
(317) 870-0122 | | |

REVISIONS

SHEET NO.	DESCRIPTION	DATE
ALL	REVISIONS PER T.A.C. REVIEW	8/30/02
1,3,7,9	REVISIONS PER T.A.C. REVIEW	10/02/02
1,3,17	ADDED END OF ROAD MARKER	11/01/02
1,3,17	REVISED STORM STR. #795	11/21/02
1,3,14	REMOVED CHAIRBACK CURB ON 169TH STREET	2/3/03
1,3,10,11	SANITARY AS-BUILTS	5/28/03
1,3,7-9	STORM AS-BUILTS	7/22/03
1,3,9	REVISED STORM AS-BUILTS - REVISED UNDERDRAIN	10/80/03



"Holey Moley" says,
"DON'T DIG BLIND!"

Call Money through Friday 7:00 AM to 6 PM
1-800-383-5344 4239-5200
Within Indiana Outside Indiana

PER INDIANA STATE LAW IS-69-1991, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

INDIANA STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS LATEST EDITION TO BE USED WITH THESE PLANS.

DESIGN DATA:
TOTAL ACREAGE = 28.78± ACRES
NUMBER LOTS = 60
DESIGN SPEED = 25 M.P.H.

STORM SEWER INVENTORY

- 12" RCP CLASS III - 642'
- 15" RCP CLASS III - 361'
- 18" RCP CLASS III - 52'
- 21" RCP CLASS III - 914'
- 27" RCP CLASS III - 867'
- 24" RCP CLASS III - 280'
- 21" RCP CLASS V - 30'

- INLET TYPE A - 5
- INLET TYPE B - 5
- MANHOLE TYPE C - 14
- MANHOLE TYPE H - 4

SANITARY SEWER INVENTORY

- 8" PVC SDR-35 PIPE - 964'
- 8" PVC SDR-26 PIPE - 1306'
- 10" PVC SDR-35 PIPE - 173'
- TYPE 'A' MANHOLES - 10

STREET INVENTORY

STREET NAME	LENGTHS
BRUCE BOULEVARD	1,286.13'
BRUCE BOULEVARD	1,154.18'
BITTNER WAY	199.50'

RECORD DRAWING
STORM SEWER AS-BUILTS
STORM SEWER UNDERDRAIN ONLY
10/8/03

RECORD DRAWING
STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
7/22/03

RECORD DRAWING
SANITARY SEWER AS-BUILTS
SANITARY SEWER STRUCTURES ONLY
5/28/03

WEIHE ENGINEERS, INC.
10505 NORTH COLLEGE AVENUE
INDIANAPOLIS, INDIANA 46280
(317) 846-6611 FAX: (317) 843-0546
TOLL-FREE (800) 452-6468

ALLAN H. WEIHE
REGISTERED CIVIL ENGINEER
REGISTERED LAND SURVEYOR
PRESIDENT

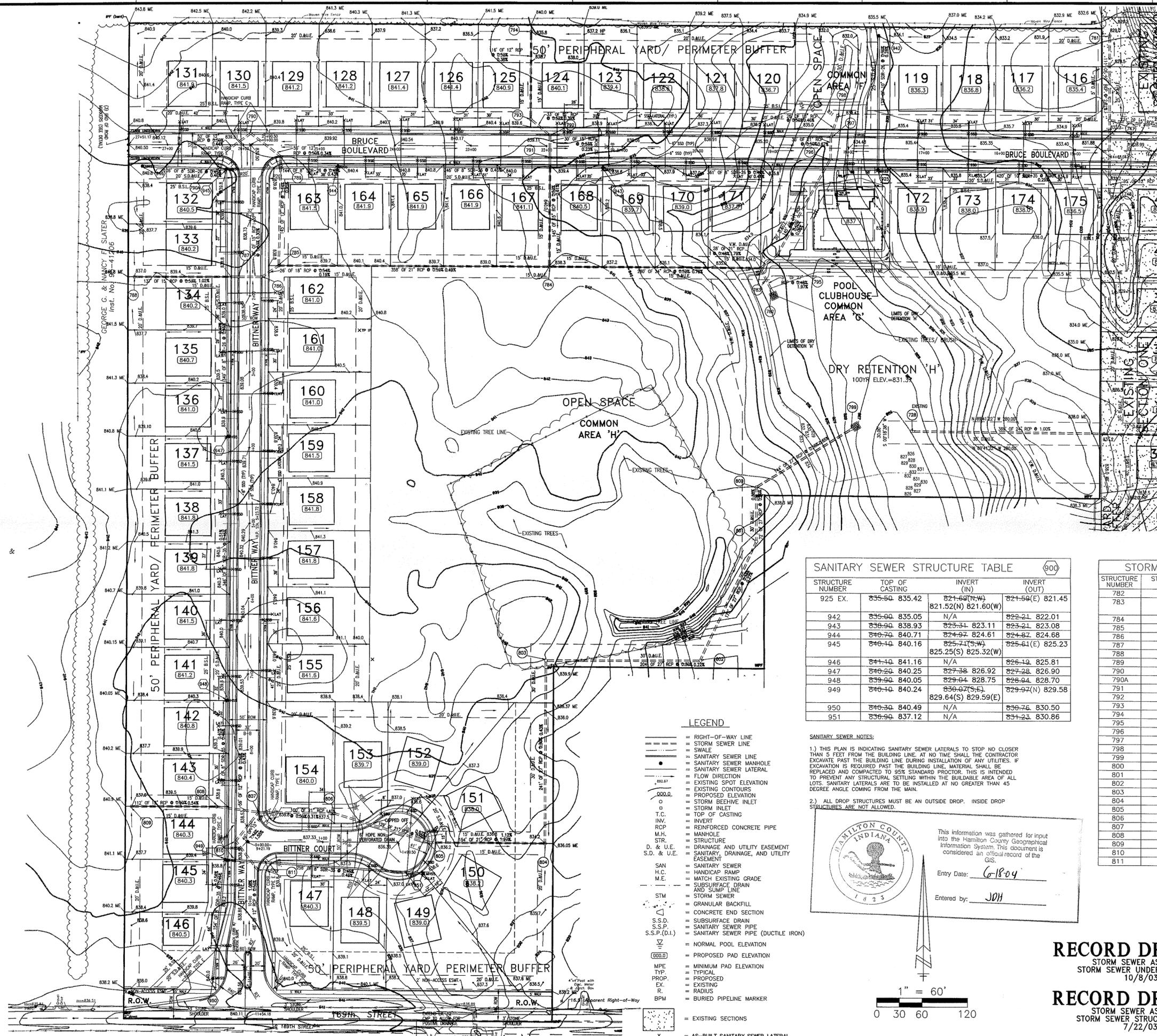
CIVIL ENGINEERS • LAND SURVEYORS • LAND PLANNERS • LANDSCAPE ARCHITECTS

PROJECT NO.	DATE	BY	DATE	BY	DATE
99-0089	7/22/02	DRG. NAME	7/22/02	DRG. NAME	7/22/02
		FILED BY:		FILED BY:	
		DRAWN BY:		DRAWN BY:	
		CHECKED BY:		CHECKED BY:	

ALLAN H. WEIHE P.E. 8827

PREPARED FOR:
HAZEL DELL WOODS SECTION 3
BAY DEVELOPMENT CORP.
TITLE SHEET

SHEET NO. 1
PROJECT NO. 99-0089



- NOTES:
- 1.) SIDEWALKS TO BE INSTALLED AS SHOWN ON THIS PLAN
 - 2.) CURB UNDERDRAINS WILL BE INSTALLED THROUGHOUT THIS ENTIRE PROJECT.
 - 3.) 2" ROLLED CURB & GUTTER SHALL BE INSTALLED THROUGHOUT ENTIRE PROJECT AS SHOWN UNLESS NOTED OTHERWISE.
 - 4.) A HANDICAP RAMP IS TO BE INSTALLED AT ALL LOCATIONS WHERE A SIDEWALK IS SHOWN INTERSECTING A CURB & SHALL NOT BE INTERFERED WITH BY STORM DRAINAGE INLETS.
 - 5.) CONTRACTOR TO DESIGNATE SANITARY LATERAL ENDS WITH A WOODEN 2"x4" ABOVE GROUND PAINTED BRIGHT GREEN STAKE.
 - 6.) ANY DRAINAGE TILE SYSTEM COMING ONTO HAZEL DELL WOODS DEVELOPMENT SHALL BE CONNECTED INTO THE PROPOSED DRAINAGE SYSTEM IN ORDER TO MAINTAIN POSITIVE DRAINAGE FOR THE OFFSITE SYSTEM.
 - 7.) THE LOWEST FLOOR ELEVATION RECEIVING GRAVITY SERVICE MUST BE A MINIMUM OF ONE FOOT ABOVE THE TOP OF CASTING OF THE NEAREST SANITARY MANHOLE, OR A GRINDER PUMP SHALL BE REQUIRED.
 - 8.) THE FINISHED FLOOR ELEVATION SHALL BE 12" ABOVE THE PAD ELEVATION.
 - 9.) TRASH GUARDS TO BE PLACED ON ALL CONCRETE END SECTIONS ACCEPTING WATER AND ALL POND OUTLETS.
 - 10.) NO UTILITY PEDESTALS TO BE INSTALLED OVER A STORM OR SANITARY SEWER LINE, I.E. ELECTRIC.
 - 11.) NO PLANTS OR TREES ARE TO BE PLACED WITHIN THE REGULATED DRAIN EASEMENTS.
 - 12.) FULL DEPTH GRANULAR BACKFILL IS REQUIRED FROM RIGHT-OF-WAY LINE TO RIGHT-OF-WAY LINE FOR ALL LATERALS.
 - 13.) THERE SHALL BE NO CONNECTIONS MADE TO THE STREET SUBSURFACE DRAIN.

- GENERAL NOTES:
- 1.) 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.
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 - 8.) TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL STANDARDS.
 - 9.) BEARINGS, DIMENSIONS, AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS AND PLATS FOR EXACT INFORMATION.
 - 10.) DO NOT STAKE HOMES FROM THESE PLANS, SEE PLOT PLANS FOR DETAILS OF HOMES AND DIMENSIONS.
 - 11.) END OF ROAD MARKERS TO BE PLACED AT ALL STREET STUBS.
 - 12.) ALL STORM STRUCTURES DEEPER THAN 4' SHALL BE MANHOLE STRUCTURES.
 - 13.) NO TREES, SIGNS, STREET LIGHTING, LANDSCAPING OR OTHER SUCH AMENITIES SHALL BE PERMITTED WITHIN THE MEDIAN OR ANY OTHER RIGHT OF WAY.

STRUCTURE NUMBER	TOP OF CASTING	INVERT (IN)	INVERT (OUT)
925 EX.	835.50	821.52(N) 821.60(W)	821.59(E) 821.45
942	835.60	N/A	822.21 822.01
943	836.90	823.34 823.11	823.21 823.08
944	840.70	824.92 824.61	824.82 824.68
945	840.40	825.71(S-W) 825.25(S) 825.32(W)	825.61(E) 825.23
946	841.10	N/A	826.10 825.81
947	840.20	827.38 826.92	827.28 826.90
948	839.90	829.04 828.75	828.84 828.70
949	840.10	830.07(S-E) 829.64(S) 829.59(E)	829.97(N) 829.58
950	840.30	N/A	830.76 830.50
951	839.90	N/A	831.23 830.86

STRUCTURE NUMBER	STRUCTURE TYPE	CASTING TYPE	TOP OF CASTING	INVERT
782	CES	NONE	N/A	829.48 828.81
783	MANHOLE	BEEHIVE	834.00	833.59 829.16(N) 828.81(N.S.W) 829.33(N.S.E) 829.42
784	MANHOLE	BEEHIVE	839.30	837.72 831.62 831.60
785	MANHOLE	SOLID	839.00	837.65 835.48 833.37
786	MANHOLE	CURB (TR)	839.46	837.95 835.62 833.42
787	MANHOLE	CURB (TR)	839.46	837.95 835.78 833.51
788	INLET	BEEHIVE	839.60	836.86 834.60 834.91
789	MANHOLE	CURB (R-3501-R)	839.61	838.74 835.44 834.75
790	MANHOLE	CURB (R-3501-R)	839.60	838.98 835.30 834.92
790A	INLET	CURB (R-3501-R)	839.65	838.99 835.65 835.15
791	MANHOLE	CURB (TL)	839.66	839.12 832.37 832.49
792	MANHOLE	CURB (TR)	839.66	839.10 832.53 832.56
793	MANHOLE	SOLID	839.90	839.90 832.70 832.69
794	INLET	CURB	835.80	835.25 833.30 833.13
795	MANHOLE	R-3070-L	834.80	835.20 829.47 829.92
796	MANHOLE	CURB (TL)	834.40	834.39 830.48 830.04
797	MANHOLE	CURB (TR)	834.40	834.36 830.24
798	CES	NONE	N/A	830.47 830.36
799	CES	NONE	N/A	827.46 827.15
800	MANHOLE	BEEHIVE	839.60	839.22 826.48 828.09
801	MANHOLE	BEEHIVE	839.80	837.95 826.84 828.72
802	MANHOLE	BEEHIVE	839.60	833.12 829.12 829.19
803	MANHOLE	BEEHIVE	841.30	841.38 829.73 829.64
804	INLET	BEEHIVE	834.20	834.23 830.45 830.68
805	INLET	CURB (R-3501-R)	835.96	835.10 832.40 832.41
806	MANHOLE	CURB (R-3501-R)	837.70	836.91 833.16 833.21
807	MANHOLE	CURB (R-3501-R)	838.60	837.74 835.66 833.52
808	MANHOLE	SOLID	839.10	837.93 835.94 833.76
809	INLET	BEEHIVE	837.00	836.35 834.50 834.37
810	MANHOLE	CURB (R-3501-R)	838.60	837.59 834.36 834.28
811	INLET	CURB (R-3501-R)	838.60	837.65 834.60 834.80

- LEGEND
- RIGHT-OF-WAY LINE
 - STORM SEWER LINE
 - SWALE
 - SANITARY SEWER LINE
 - SANITARY SEWER MANHOLE
 - SANITARY SEWER LATERAL
 - FLOW DIRECTION
 - EXISTING SPOT ELEVATION
 - EXISTING CONTOURS
 - PROPOSED ELEVATION
 - STORM INLET
 - T.C.
 - INV.
 - RCP
 - M.H.
 - STR.
 - D. & U.E.
 - S.D. & U.E.
 - SAN
 - H.C.
 - M.E.
 - STM
 - S.S.D.
 - S.S.P.
 - S.S.P.(D.I.)
 - MPE
 - TYP.
 - PROP.
 - EX.
 - R.
 - BPM
 - EXISTING SECTIONS
 - AS-BUILT SANITARY SEWER LATERAL

SANITARY SEWER NOTES:

- 1.) THIS PLAN IS INDICATING SANITARY SEWER LATERALS TO STOP NO CLOSER THAN 5 FEET FROM THE BUILDING LINE. AT NO TIME SHALL THE CONTRACTOR EXCAVATE PAST THE BUILDING LINE DURING INSTALLATION OF ANY UTILITIES. IF EXCAVATION IS REQUIRED PAST THE BUILDING LINE, MATERIAL SHALL BE REPLACED AND COMPACTED TO 98% STANDARD PROCTOR. THIS IS INTENDED TO PREVENT ANY STRUCTURAL SETTLING WITHIN THE BUILDABLE AREA OF ALL LOTS. SANITARY LATERALS ARE TO BE INSTALLED AT NO GREATER THAN 45 DEGREE ANGLE COMING FROM THE MAIN.
- 2.) ALL DROP STRUCTURES MUST BE AN OUTSIDE DROP. INSIDE DROP STRUCTURES ARE NOT ALLOWED.

HAMILTON COUNTY INDIANA

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: 6/18/04

Entered by: JDH

RECORD DRAWING
STORM SEWER AS-BUILTS
STORM SEWER UNDERDRAIN ONLY
10/8/03

RECORD DRAWING
STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
7/22/03

RECORD DRAWING
SANITARY SEWER AS-BUILTS
SANITARY SEWER STRUCTURES ONLY
5/28/03

WEIHE ENGINEERS, INC.

10505 NORTH COLLEGE AVENUE
INDIANAPOLIS, INDIANA 46280
TOLL-FREE (800) 642-6466

ALLAN H. WEIHE
REGISTERED CIVIL ENGINEER
REGISTERED LAND SURVEYOR
PRESIDENT

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PROJECT NO.: 99-0089

DATE: 7/22/03

BY: JAC
CHECKED BY: JAC

DATE: 7/22/03

REVISIONS AND ISSUES:

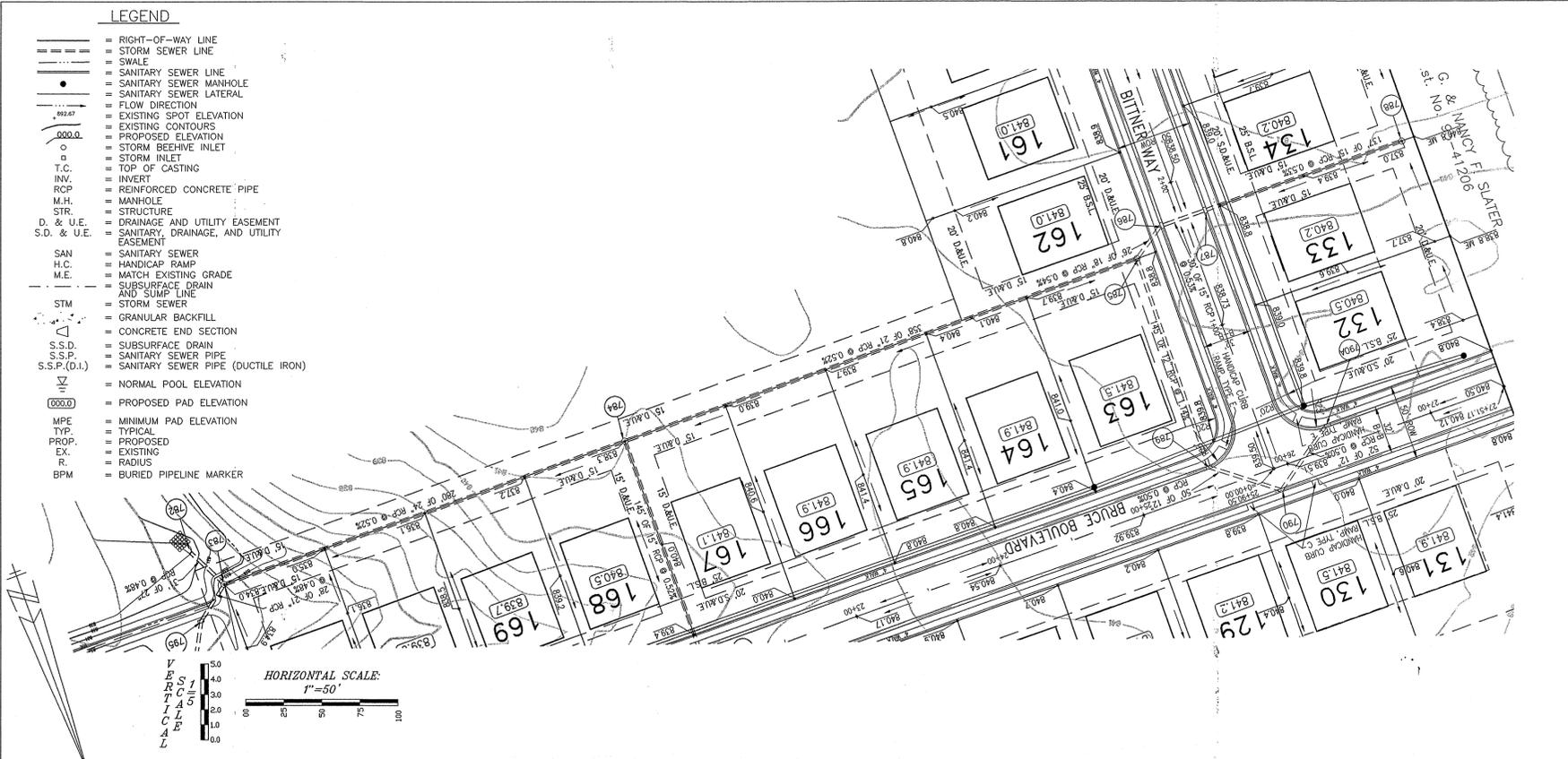
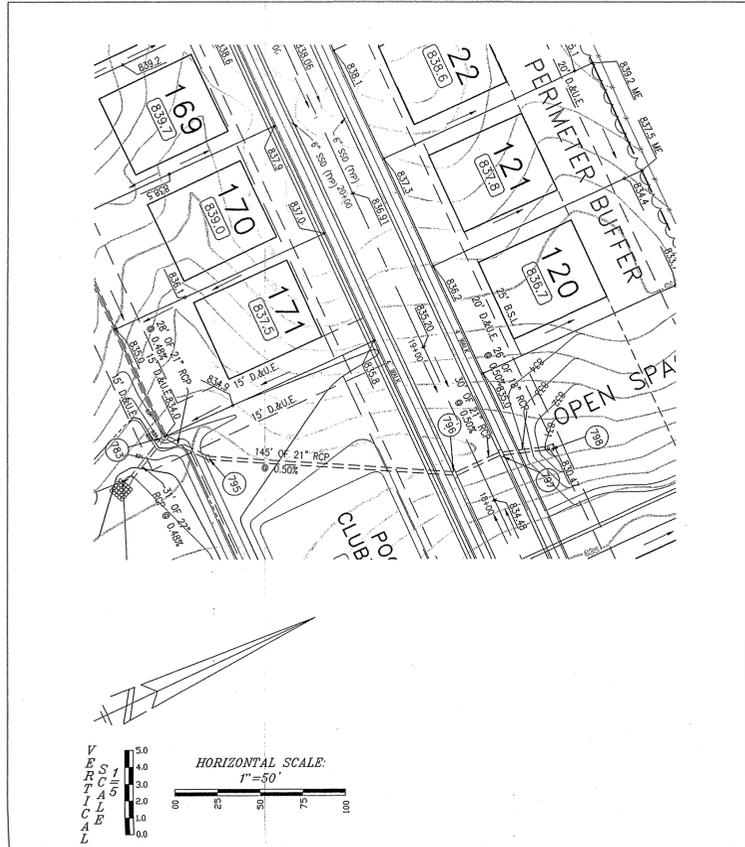
1. 7/22/03
2. 7/22/03
3. 7/22/03
4. 7/22/03
5. 7/22/03
6. 7/22/03
7. 7/22/03
8. 7/22/03
9. 7/22/03
10. 7/22/03
11. 7/22/03
12. 7/22/03
13. 7/22/03

PREPARED FOR:
HAZEL DELL WOODS SECTION 3
BAY DEVELOPMENT CORP.

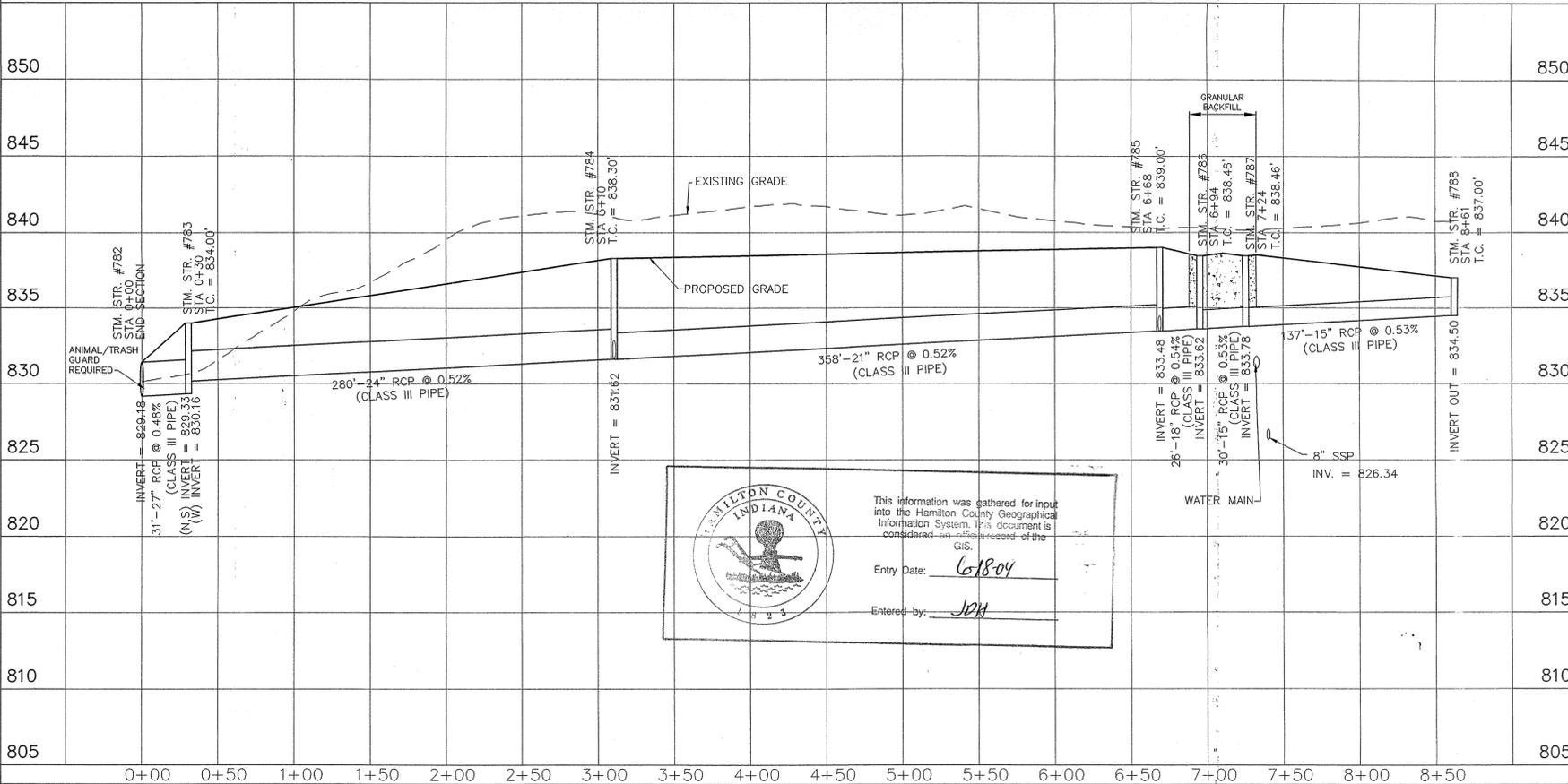
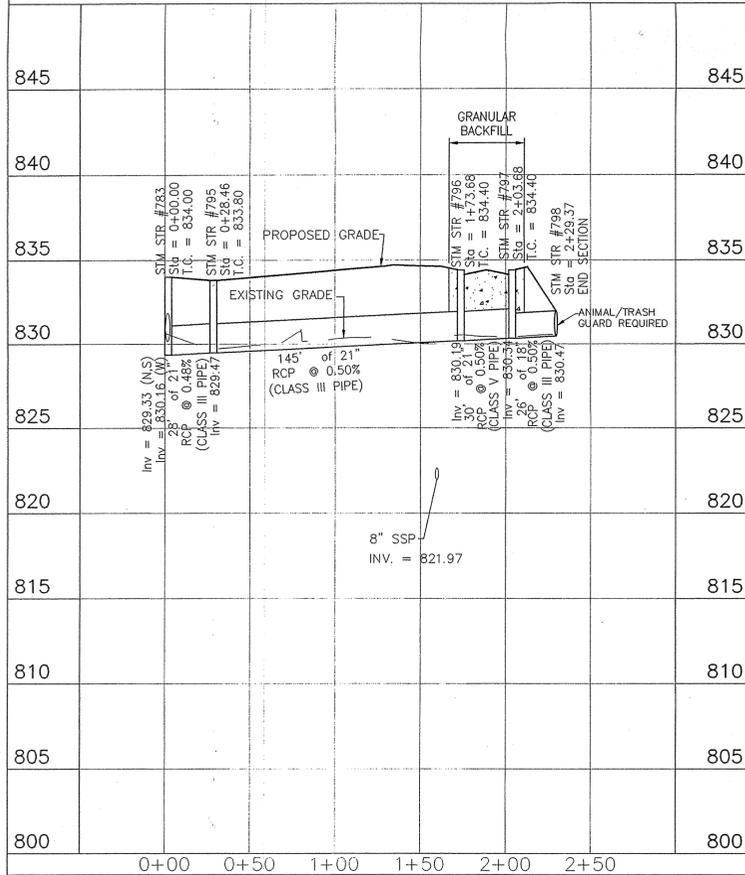
DEVELOPMENT PLAN

SHEET NO. **3**

PROJECT NO. 99-0089



- LEGEND**
- RIGHT-OF-WAY LINE
 - STORM SEWER LINE
 - SWALE
 - SANITARY SEWER LINE
 - SANITARY SEWER MANHOLE
 - SANITARY SEWER LATERAL
 - FLOW DIRECTION
 - EXISTING SPOT ELEVATION
 - EXISTING CONTOURS
 - PROPOSED ELEVATION
 - STORM BEEHIVE INLET
 - STORM INLET
 - TOP OF CASTING
 - INVERT
 - REINFORCED CONCRETE PIPE
 - M.H. STR.
 - STRUCTURE
 - D. & U.E.
 - S.D. & U.E.
 - SANITARY SEWER
 - H.C.
 - M.E.
 - SUBSURFACE DRAIN AND SUMP LINE
 - STM
 - GRANULAR BACKFILL
 - CONCRETE END SECTION
 - S.S.D.
 - S.S.P.
 - S.S.P.(D.I.)
 - NORMAL POOL ELEVATION
 - PROPOSED PAD ELEVATION
 - MINIMUM PAD ELEVATION
 - TYPICAL
 - PROPOSED
 - EX.
 - R.
 - BURIED PIPELINE MARKER





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 Entry Date: 6/18/04

 Entered by: JPH

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 REGISTERED LAND SURVEYOR
 PRESIDENT
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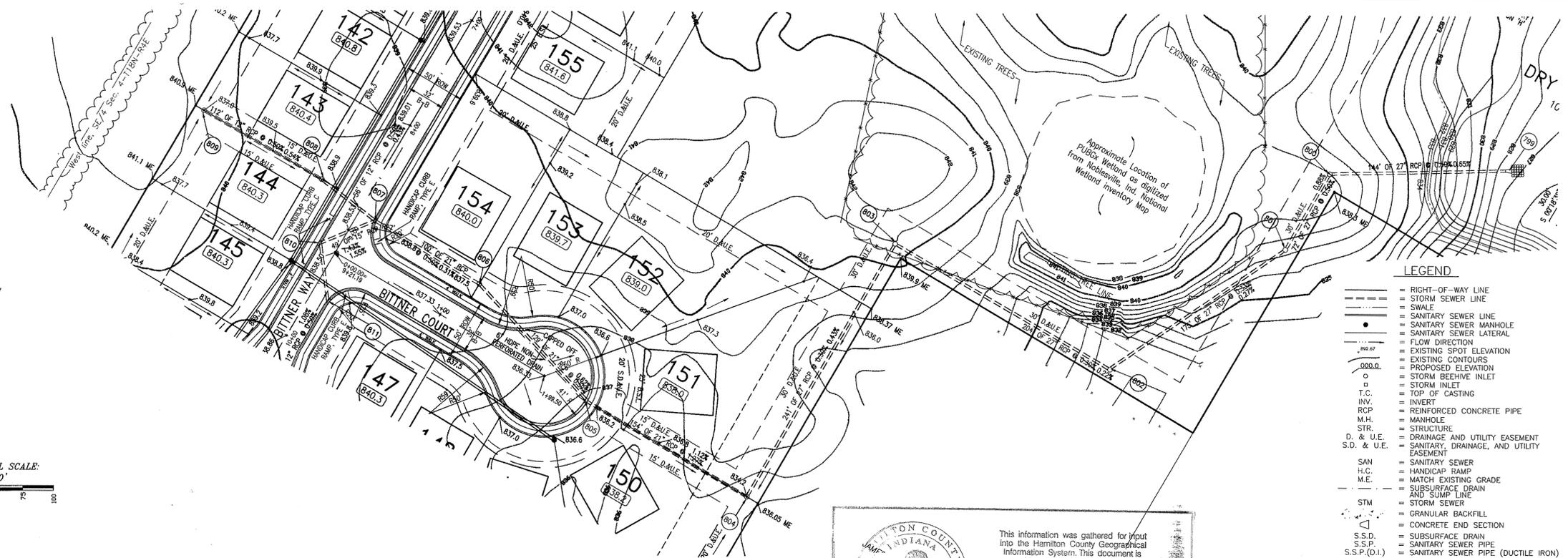
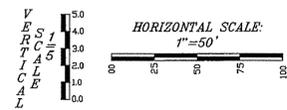
PROJECT NO.:	99-0089
DWG. NAME:	STORM SEWER PLAN
FIELD BY:	JPH
DRAWN BY:	EAC
CHECKED BY:	JPH
DATE:	7/22/04

ALLAN H. WEIHE
 REGISTERED
 NO. 8827
 PROFESSIONAL ENGINEER
 STATE OF INDIANA
 ALLAN H. WEIHE P.E. 8827

PREPARED FOR:
HAZEL DELL WOODS SECTION 3
 BAY DEVELOPMENT CORP.
STORM SEWER PLAN & PROFILE SHEET
Part of the S-152 & 300 1/2' of the S-151, Sec. 4, T18N, R4E, W4E, Madison County, Indiana

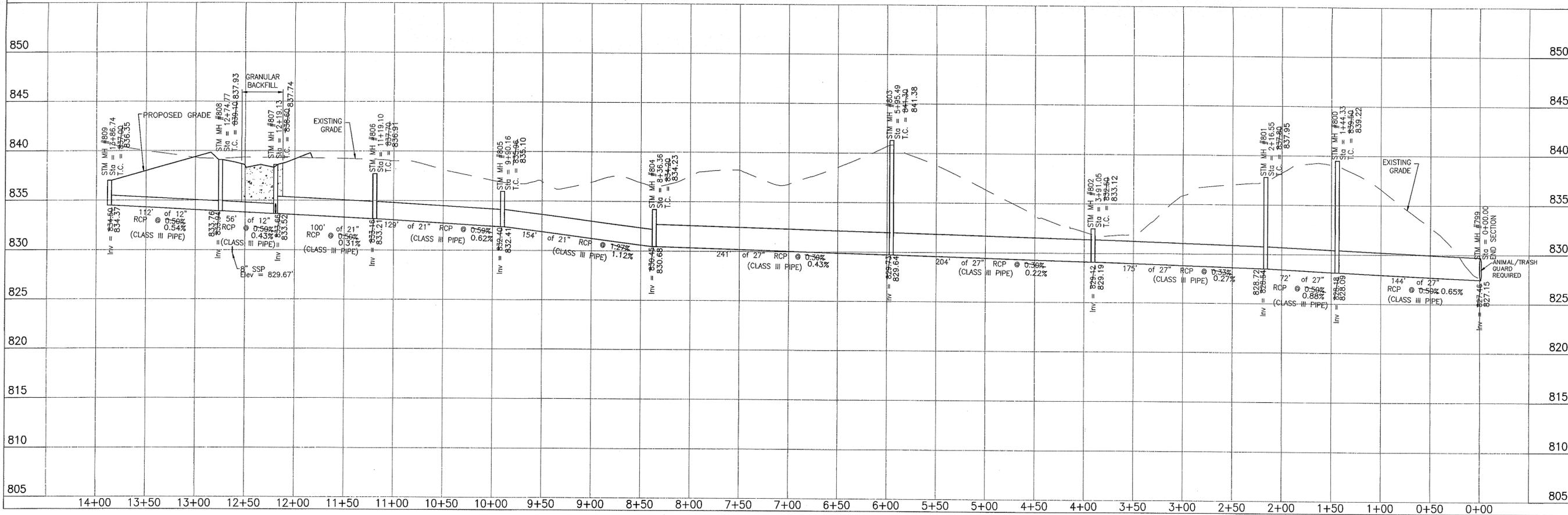
SHEET NO. **7**
 PROJECT NO. 99-0089

LOCATION: W-152 & 300 1/2' of the S-151, Sec. 4, T18N, R4E, W4E, Madison County, Indiana
 DATE: FILE: October 02, 2002
 PLOT: 31' x 42'



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: 6-18-04
 Entered by: JDH

- LEGEND**
- RIGHT-OF-WAY LINE
 - STORM SEWER LINE
 - SWALE
 - SANITARY SEWER LINE
 - SANITARY SEWER MANHOLE
 - SANITARY SEWER LATERAL
 - FLOW DIRECTION
 - EXISTING SPOT ELEVATION
 - EXISTING CONTOURS
 - PROPOSED ELEVATION
 - STORM BEEHIVE INLET
 - STORM INLET
 - T.C. = TOP OF CASTING
 - INVERT
 - RCP = REINFORCED CONCRETE PIPE
 - M.H. = MANHOLE
 - STR. = STRUCTURE
 - D. & U.E. = DRAINAGE AND UTILITY EASEMENT
 - S.D. & U.E. = SANITARY, DRAINAGE, AND UTILITY EASEMENT
 - SAN = SANITARY SEWER
 - H.C. = HANDICAP RAMP
 - M.E. = MATCH EXISTING GRADE
 - SURFACE DRAIN AND SUMP LINE
 - STM = STORM SEWER
 - GRANULAR BACKFILL
 - CONCRETE END SECTION
 - SUBSURFACE DRAIN
 - S.S.P. = SANITARY SEWER PIPE
 - S.S.P.(D.I.) = SANITARY SEWER PIPE (DUCTILE IRON)
 - ▽ = NORMAL POOL ELEVATION
 - (000.0) = PROPOSED PAD ELEVATION
 - MPE = MINIMUM PAD ELEVATION
 - TYP. = TYPICAL
 - PROP. = PROPOSED
 - EX. = EXISTING
 - R. = RADIUS
 - BPM = BURIED PIPELINE MARKER



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PROJECT NO.:	99-0089
DATE:	7/22/03
BY:	JDH
CHECKED BY:	MLM
DATE:	7/22/03

REVISIONS AND ISSUES

NO.	DATE	DESCRIPTION
1	6/20/02	EAC
2	7/22/03	DUH
3	7/22/03	DUH
4	7/22/03	EAC

ALLAN H. WEIHE
 REGISTERED
 NO. 8827
 STATE OF INDIANA
 PROFESSIONAL ENGINEER

PREPARED FOR:
HAZEL DELL WOODS SECTION 3
 BAY DEVELOPMENT CORP.

STORM SEWER PLAN & PROFILE SHEET

PROJECT NO. 99-0089

RECORD DRAWING RECORD DRAWING
 STORM SEWER AS-BUILTS STORM SEWER AS-BUILTS
 STORM SEWER UNDERDRAIN ONLY STORM SEWER STRUCTURES ONLY
 10/8/03 7/22/03

SHEET NO. **9**

DATE PLOTTED: 10/18/03 10:00 AM
 PLOTTED BY: JWH