

**Drain:** MERRIMAC DRAIN **Drain #:** 278  
**Improvement/Arm:** MERRIMAC-SECTION 4  
**Operator:** DMW/JDH **Date:** 2-11-04  
**Drain Classification:** Urban/Rural **Year Installed:** 2000

### GIS Drain Input Checklist

- Pull Source Documents for Scanning GA 2-11
- Digitize & Attribute Tile Drains N/A
- Digitize & Attribute Storm Drains DMW/GA 2-11
- Digitize & Attribute SSD DMW/GA 2-11
- Digitize & Attribute Open Ditch N/A
- Stamp Plans DMW/GA 2-11
- Sum drain lengths & Validate GA 2-11
- Enter Improvements into Posse GA 2-11
- Enter Drain Age into Posse Jan 3-1
- Sum drain length for Watershed in Posse Jan 31
- Check Database entries for errors GA 2-11

**Gasb 34 Footages for Historical Cost**  
**Drain Length Log**

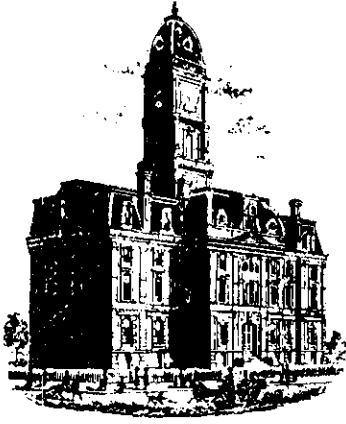
Drain-Improvement: MERRIMAC DRAIN - MERRIMAC - SECTION 4

Drain Type:	Size:	Length <small>SURVEYORS REPORT</small>	Length (DB Query)	Length Reconcile	If Applicable	
					Price:	Cost:
SSD	6"	7,141.42'	7,141.42'	Ø	\$ 2.00	\$ 14,282.84
RCP	12"	1,196'	1,196'	Ø	7.25	8,671.00
	15"	369'	369'	Ø	9.50	3,505.50
	18"	95'	95'	Ø	10.50	997.50
	21"	157'	157'	Ø	14.25	2,237.25
	24"	374'	374'	Ø	18.00	6,732.00
	36"	433'	433'	Ø	32.25	13,964.25

Sum: 9,765.42' 9,765.42' Ø ~~\$ 50,390.34~~  
slm

Final Report: \_\_\_\_\_

Comments:  
\* See Posse for Bonds for Section 4 (slm 5-10-2004)  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



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*

July 13, 1998

TO: Hamilton County Drainage Board

RE: Merrimac Drain-Section 4

Attached is a petition, non-enforcement request, plans, calculations, quantity summary and assessment roll for the Section 4 Arm, Merrimac 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	5605 ft	21" RCP	97 ft
12" RCP	1058 ft	24" RCP	378 ft
15" RCP	370 ft	36" RCP	439 ft
18" RCP	94 ft		

The total length of the drain will be 8101 feet.

The retention pond (lake) located at the rear of Lots 49-51, 54-62 is part of the Osborn-Collins regulated drain. The inlet and outlet will be maintained as part of the Merrimac 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 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 A 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 \$30.00 per lot, \$5.00 per acre for roadways, with a \$30.00 minimum. With this assessment for this drain/this section will be \$ 1, 698.00

Parcels assessed for this drain may be assessed for the Osborn-Collins or Williams Creek Drain at sometime in the future.

I believe this proposed drain meets the requirements for Urban Drain Classification as set out in IC 36-9-27-67-69. Therefore, this drain shall be designed 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 Merrimac Section 4 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for 24 August 1998.

---

Kenton C. Ward  
Hamilton County Surveyor  
KCW/no

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Merrimac Section 4

I hereby certify that:

1. I am a Registered ~~Land Surveyor~~ 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 comformity with all plans and specifications .

Signature: David K. Sexton Date: 4/6/2000

Type or Print Name: David K. Sexton

Business Address: The Schneider Corporation

3020 N. Post Road Indianapolis, IN 46226

Telephone Number: 317-898-8282

SEAL



INDIANA REGISTRATION NUMBER

9500028

CERTIFICATE OF COMPLETION AND COMPLIANCE

TO: HAMILTON COUNTY SURVEYOR  
RE: Merrimac Section 4

I hereby certify that:

1. I am a Register 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, 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: \_\_\_\_\_

*David K. Sexton*

Date: May 1, 2000

Type or print name: David K. Sexton, P.E.

Business /Address: The Schneider Corporation

3020 N. Post Road Indianapolis, IN 46226

Telephone: (317) 898-8282

INDIANA REGISTRATION NUMBER

PE 9500028

SEAL



**FILED**

MAY 03 2000

**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

April 5, 2001

Re: Merrimac Drain – Section 4 Arm

Attached are as-builts, certificate of completion & compliance, and other information for Merrimac Section 4. 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 July 13, 1998. The changes are as follows:

**Structure:      T.C.:      I.E.:      Pipe:      Length: Original Plans: Difference:**

	613	894.01	890.46				
	612	893.49	890.19	12	28		
	612	893.49	890.19				✓
	611	894.42	889.32	15	26	25	1
	611	894.42	889.32				
	610		889.02	36	129	136	-7
	612	893.49	890.24				
	614	894.1	890.75	12	48		
	611	894.42	889.32				
	615	985.09	889.59	36	78	75	3
	615	985.09	889.59				
	616	894.79	889.89	36	127	130	-3
	616	894.79	889.89				
	617	894.37	890.1	36	99	98	1
	616	894.79	892.04				
617A			893.02	12	21	20	1
	622	895.04	891.84				
	621	895.06	891.71	12	28		
	621	895.06	891.71				✓
	620	894.92	888.82	12	117		
	623	896.19	890.69				
	624	895.48	891.88	15	162	160	2

624	895.48	891.88				
625	895.46	892.06	12	28		
602	892.02	889.27				
601		888.01	12	169	161	8
618		888.06				
619	894.96	888.76	24	175	180	-5
619	894.96	888.76				
620	894.92	888.82	24	28		
620	894.92	888.82				
623	896.19	889.34	24	171	170	1
623	896.19	889.34				
626	896.18	889.78	21	157	154	3
626	896.18	889.78				
627	897.1	890.35	18	95	97	-2
609	897.64	894.49				
608	893.58	890.53	12	150		
608	893.58	890.53				
607	893.56	890.26	12	28		
607	893.56	890.26				
606		888.01	12	180	184	-4
605	893.1	889.8				
604	892.99	889.69	12	28		
604	892.99	889.69				
603		887.91	15	181	185	-4
627	897.1	890.5				
628	899.93	895.83	12	162		
628	899.93	895.83				
629	899.87	896.27	12	28		
629	899.87	896.27				
630	900.48	896.43	12	39		
630	900.48	896.43				
631	900.21	897.21	12	142	143	-1

**6" SSD Streets:**

SHETLAND COURT	574.81
FRANCIS COURT	1130.06
WARNER DRIVE	768.25
HAMPTON ROAD	922.45
UNNAMED ROAD	175.14
X2	

**Total:** 7141.42

**RCP Pipe Totals:**

12	1196
15	369
18	95
21	157
24	374
36	433

**Total:** 2624

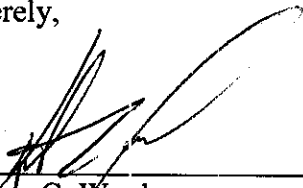


The length of the drain due to the changes described above is now **9765.42 feet**.  
The non-enforcement was approved by the Board at its meeting on August 24<sup>th</sup>, 1998.

The bond or letter of credit from Lasalle National Bank and Fidelity & Deposit, number 9200102534 and 8078070; in the amount of \$47,759.00 and \$140,401.00; was released June 26, 2000.

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

Sincerely,

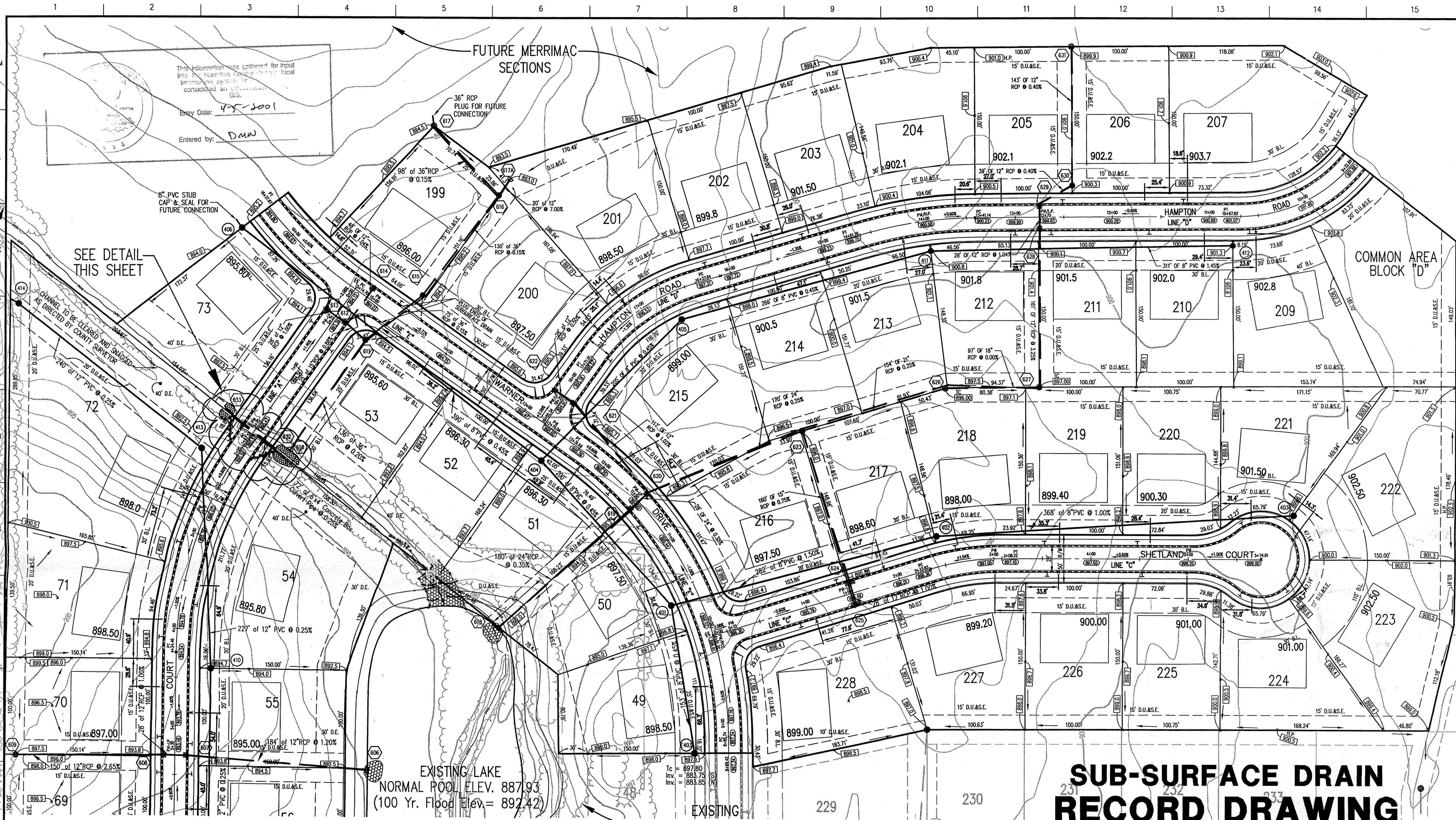


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Kenton C. Ward,  
Hamilton County Surveyor

KCW/slm





This information was gathered for input into the Hamilton County GIS. It is not intended to be used for any other purpose. Considered an official record of the GIS.  
 Entry Date: 4-5-2001  
 Entered by: Dawn

SEE DETAIL THIS SHEET

COMMON AREA BLOCK "D"

EXISTING LAKE  
 NORMAL POOL ELEV. 887.93  
 (100 Yr. Flood Elev. = 892.42)

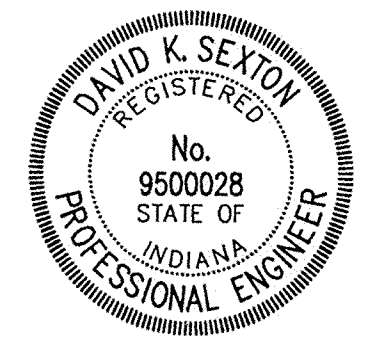
# SUB-SURFACE DRAIN RECORD DRAWING

- ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES.
- IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO HIS PHASE OF WORK. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES FOR PROPER STAKE LOCATIONS FOR EACH UTILITY BEFORE WORK IS STARTED. THE CONTRACTOR SHALL NOTIFY IN WRITING THE OWNER OR THE ENGINEER OF ANY CHANGES, OMISSIONS, OR ERRORS FOUND ON THESE PLANS OR IN THE FIELD BEFORE WORK IS STARTED OR RESUMED.
- STANDARD SPECIFICATIONS FOR HAMILTON WESTERN UTILITIES, SHALL APPLY FOR ALL SANITARY SEWERS.
- ANY PART OF THE SANITARY OR STORM SEWER TRENCHES RUNNING UNDER PAVED AREAS TO BE BACKFILLED WITH GRANULAR MATERIAL.
- THE SIZE AND LOCATION OF EXISTING UTILITIES SHOWN ARE PER INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES. ALL UTILITY COMPANIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION FOR FIELD LOCATION OF SERVICES.
- SERVICE WALKS SHALL BE NON-REINFORCED CONCRETE 4" THICK AND 4' IN WIDTH.
- 4" CONCRETE SERVICE WALK ACROSS FRONTAGE OF EACH LOT TO BE CONSTRUCTED BY OTHERS.
- EXPANSION JOINTS ARE TO BE PLACED AT ALL WALK INTERSECTIONS AND BETWEEN WALKS AND PLATFORMS. SIDEWALK SPACES ARE TO BE EQUALLY SPACED BETWEEN EXPANSION JOINTS, CONTRACTION JOINTS AND PERPENDICULAR SIDEWALKS AT 5' INTERVALS OR LESS WITH A CONTRACTION JOINT EVERY 20' OR LESS.
- TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
- ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
- CONTRACTOR SHALL MINIMIZE DAMAGE TO EXISTING TREES.
- REMOVE AND BACKFILL ALL AREAS WHERE ANY FIELD TILE CROSSES PROPOSED HOUSE PADS. ALL FIELD TILES INTERCEPTED TO BE PERMANENTLY INTO STORM SEWER SYSTEM OR LAKE. THE SUBCONTRACTOR SHALL NOTIFY IN WRITING THE OWNER AND THE ENGINEER IN ANY CIRCUMSTANCES WHERE THIS CANNOT BE ACCOMPLISHED.
- ALL FILL AREAS SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY (ASTM D-1557).

- Revisions
- BGC 12/19/97 REVISED CHANNEL EASEMENT ALONG LOTS 72, 73, 51-53
  - BGC 03/06/98 REVISED RIP RAP BY REMOVING FROM STREAM BED
  - BGC 03/19/98 REVISED SANITARY SEWER RUN 409 THRU 414
  - BGC 04/02/98 SANITARY PIPE FROM EXISTING STR. 403 TO 406 WAS 10" PVC
  - TBM 05/05/98 MOVED DUCTILE CROSSING TO 6' x 4' BOX
  - RAH 05/27/98 ADDED NOTE FOR SIDEWALK
  - TSC 06/08/98 REVISE SUBSURFACE DRAIN @ BOX CULVERT & ADD DETAIL & REVISE SUBSURFACE DRAIN BETWEEN STR# 611 & # 615.

## CERTIFICATION FOR "RECORD DRAWING"

NOTE:  
 Record drawing certification for sub-surface drain lateral marker locations only.  
 All other information is excluded from this certification.



CERTIFIED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 THIS DRAWING AND THE IDEAS, DESIGNS AND CONCEPTS CONTAINED HEREIN ARE THE EXCLUSIVE INTELLECTUAL PROPERTY OF SCHNEIDER ENGINEERING CORPORATION AND ARE NOT TO BE USED OR REPRODUCED IN WHOLE OR IN PART, WITHOUT THE WRITTEN CONSENT OF SCHNEIDER ENGINEERING CORPORATION.  
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NOTE:  
 FOR STRUCTURE DATA TABLE  
 SEE SHEET C102

### BENCHMARK

U.S.G.S. 93 RHP (1951)  
 BRONZE TABLET SET IN CONCRETE POST, LOCATED ON THE SOUTH SIDE OF 146th STREET, APPROX. 25' WEST OF THE CENTERLINE OF DITCH ROAD.  
 (ELEVATION = 903.373)

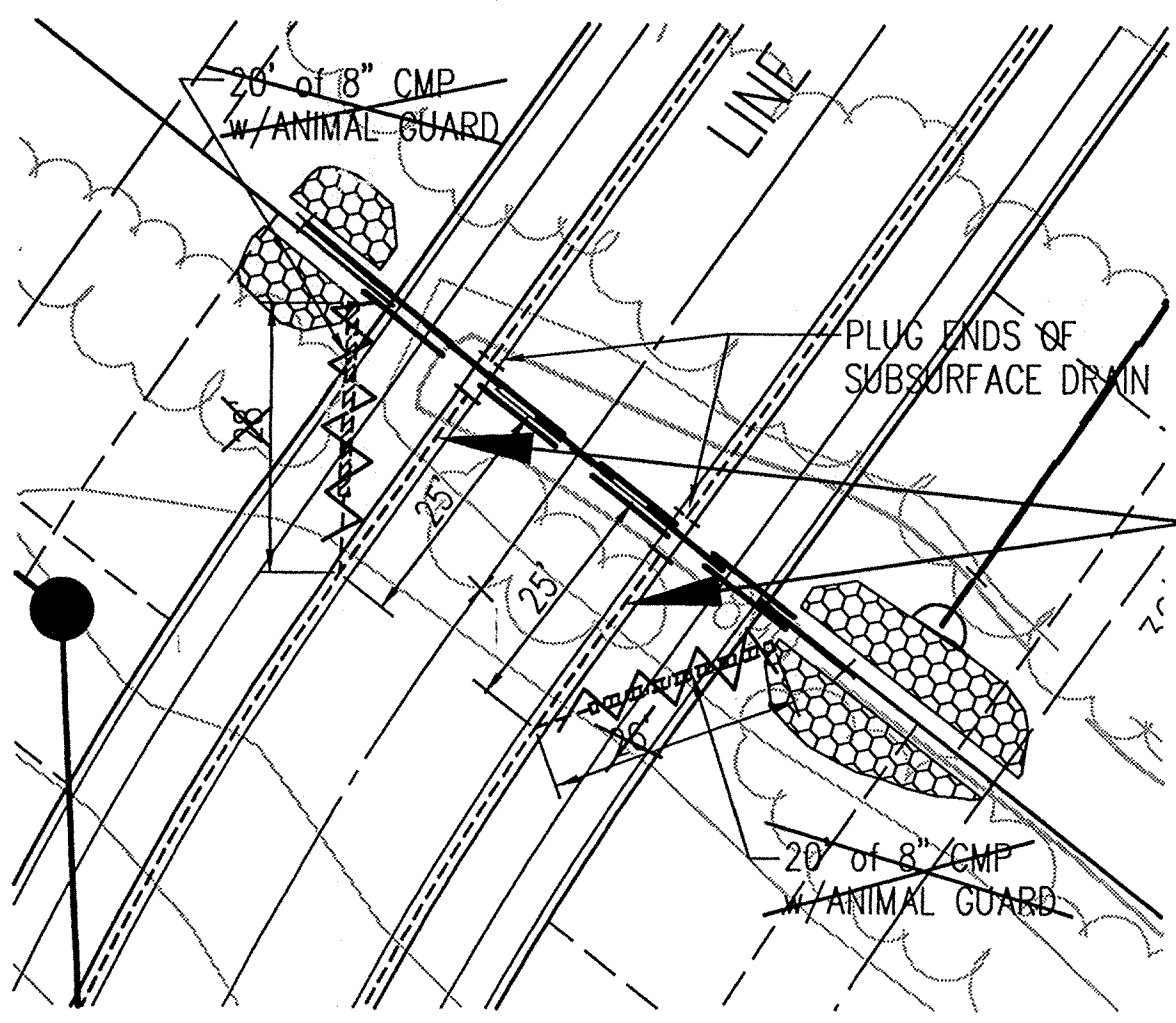
### LEGEND

	Existing Storm Sewer		Storm Structure Number
	New Storm Sewer		Sanitary Structure Number
	Existing Sanitary Sewer		Flow Arrow
	New Sanitary Sewer		Denotes Elevation and Approximate Pad Size
	Existing Contour		6" Subsurface Drain
	Existing Elevation		Swale (f)
	New Pavement Grade		Water Main
	All Other Finish Grades		
	Corrected Grades		

HOLEY MOLEY SAYS  
**"DON'T DIG BLIND"**  
 CALL TODAY!  
 1-800-382-5544  
 1-800-428-5200  
 FOR CALLS OUTSIDE OF 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.

ASSUMED NORTH SCALE: 1" = 50'

SSD WAS "SHALLOWED UP" PLACED UNDER CURB AND DRAINS SOUTHWARD TO STRUCTURES #607 & #608.



SUBSURFACE DRAIN LATERAL MARKER LOCATION  
 SCALE: 1" = 20'

LEGEND (RECORD DRAWING)  
 x SUB-SURFACE DRAIN LATERAL MARKER LOCATION

FOR CONTINUATION SEE SHEET C102

### UTILITY OWNERS

- SANITARY SEWERS AND WATER**  
 HAMILTON WESTERN UTILITIES  
 1350 GRAYHOUND PASS  
 CARMEL, IN. 46032  
 MARK LA BARR 581.3041  
 BEAU WILFONG 848-6882
- GAS**  
 INDIANA GAS CO.  
 505 WEST CR. 125 S.  
 LEBANON, IN. 46052  
 JEFF ATRY (317) 482-6456
- ELECTRIC**  
 PSI ENERGY  
 P.O. BOX 876  
 CARMEL, IN. 46032
- PHONE**  
 AMERITECH  
 5858 N. COLLEGE AVE.  
 INDPLS. IN. 46220  
 JANE MESSENGER 252-4275
- CATV**  
 JONES INTERCABLE  
 516. E. CARMEL DR.  
 CARMEL, IN. 46023  
 844-8877

**Schneider Engineering Corporation**  
 3020 North Post Road  
 Indianapolis, Indiana 46228-0008  
 317-898-8282  
 317-898-8010 Fax

Engineering  
 Surveying  
 Landscape Architecture  
 GIS + LIS  
 Geology

A Partnered Entity with Bohlen, Meyer, Gibson & Associates, Incorporated

MERRIMAC CORPORATION  
 MERRIMAC SECTION 4  
 Westfield, Indiana

DEVELOPMENT PLAN  
 (NORTH VIEW)

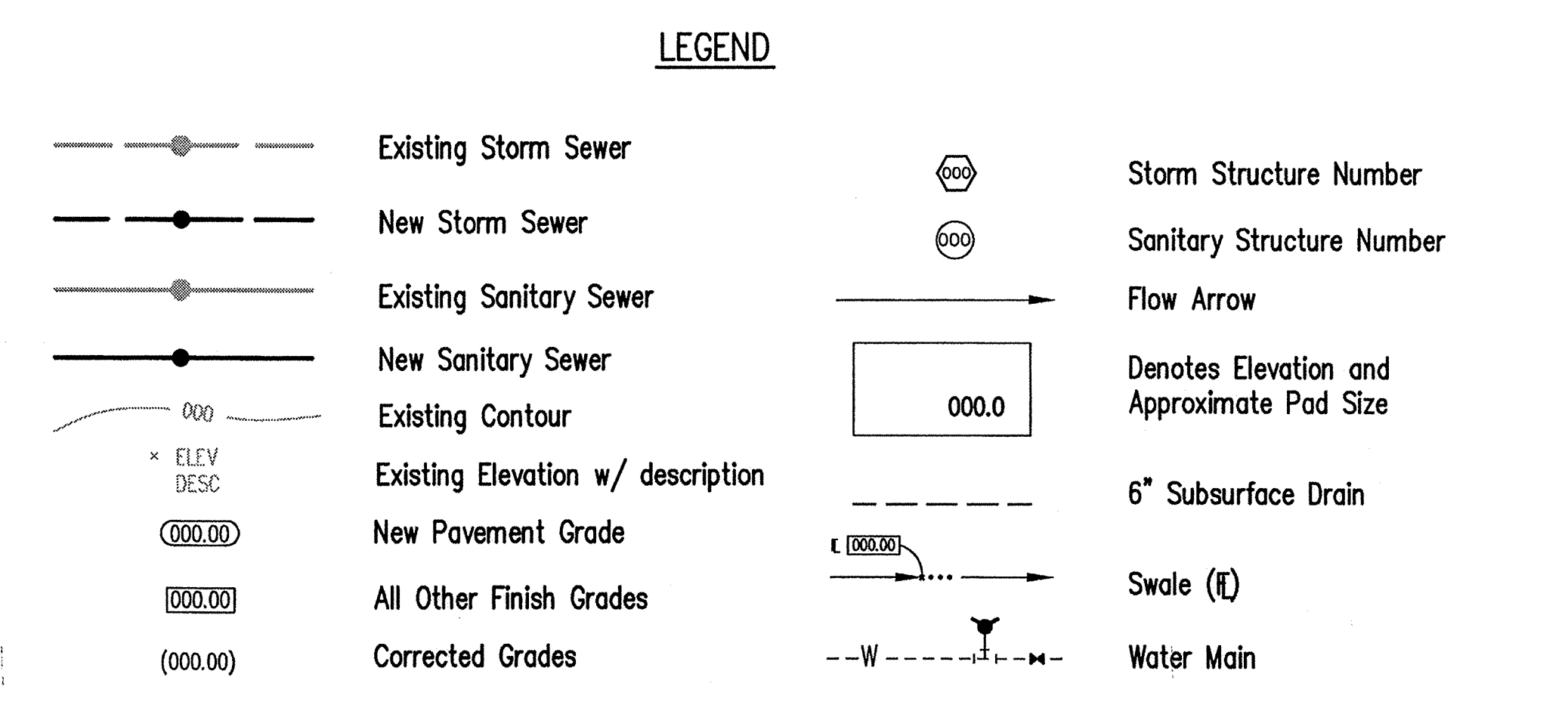
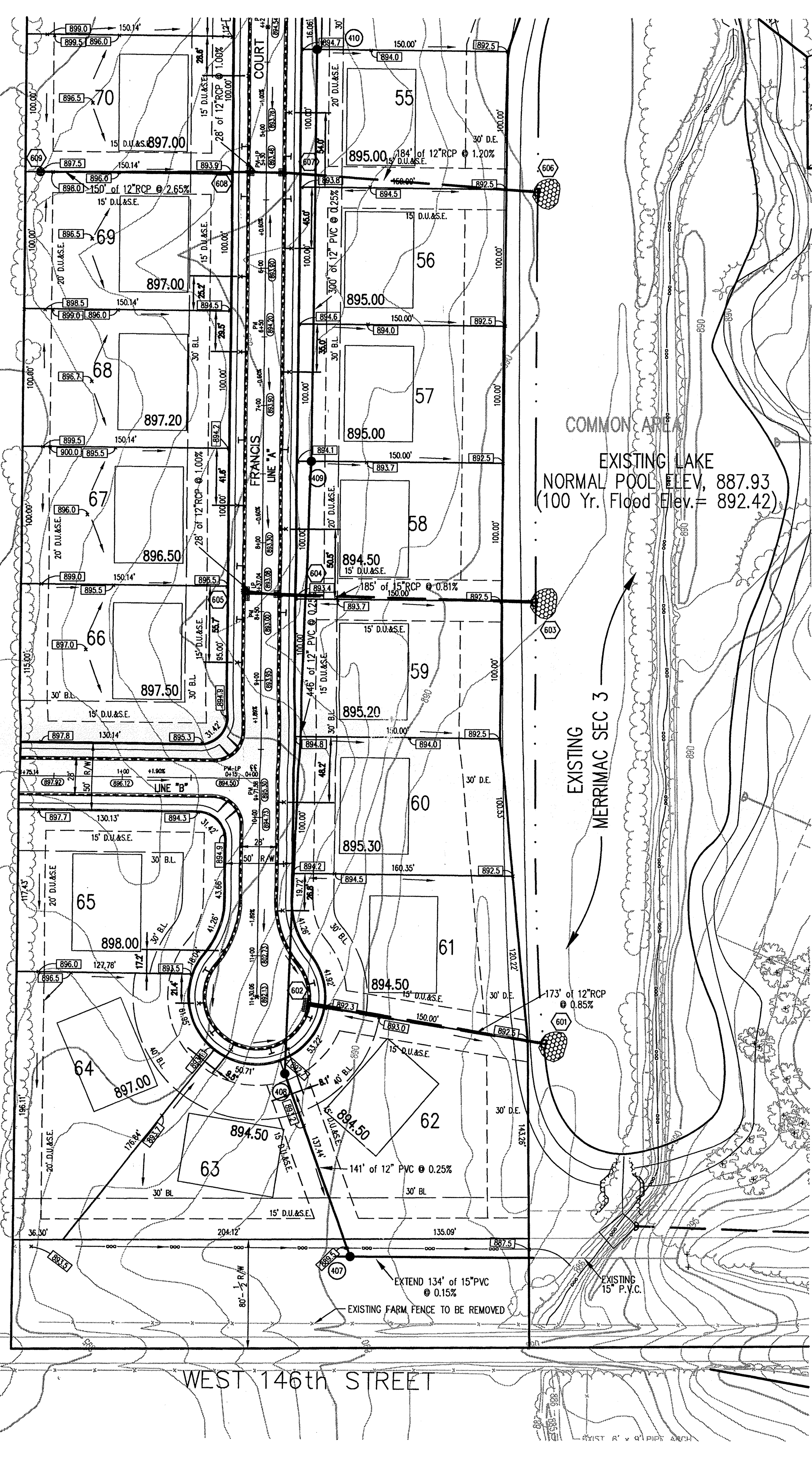
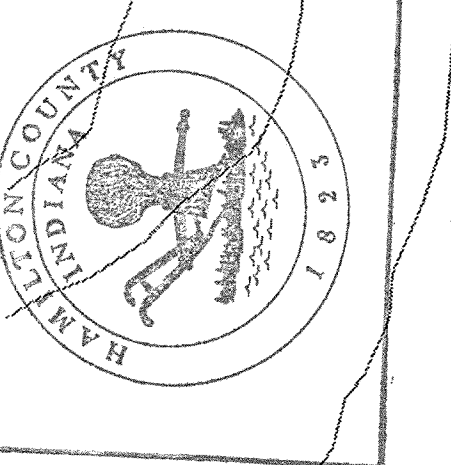
Date 10/22/97 Project No. 1045.001  
 Drawn & 2000  
 Checked by BGC  
 Approved by BGC  
 Computer Files  
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 XREF: \\1045\DWG\1045\DWG\1045SPL  
 XREF: \\1045\DWG\1045\DWG\1045TOPD  
 XREF: \\1045\DWG\1045\DWG\1045TILE1

**C101**



This information was entered for input into the Hamilton County Geographic Information System. This document is confidential and a public record of the GIS.

Entry Date: 5-5-2007  
Entered by: D. Pfeiffer

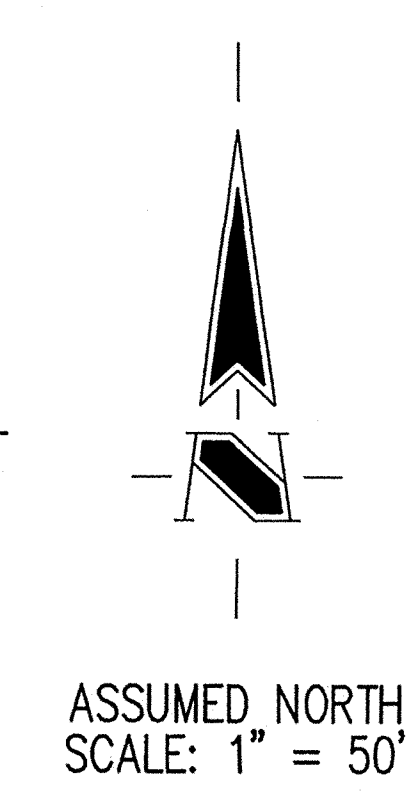


**BENCH MARK**  
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BRONZE TABLET SET IN CONCRETE POST, LOCATED ON THE SOUTH SIDE OF 146th STREET, APPROX. 25' WEST OF THE CENTERLINE OF DITCH ROAD.  
(ELEVATION = 903.373)

**LEGEND (RECORD DRAWING)**  
× SUB-SURFACE DRAIN LATERAL MARKER LOCATION

**HOLEY MOLEY SAYS "DON'T DIG BLIND"**

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FOR CALLS OUTSIDE OF 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.



**STORM SEWER TABLE**

STR #	STA BASELINE	OFFSET	LT/RT	TYPE	TC	INVERTS
601	11+61.90	A 209.60'	LT	END SECTION		888.03 (W)
602	11+35.92	A 38.56'	LT	CURB INLET	892.00	889.50 (E)
603	8+41.14	A 198.95'	LT	END SECTION		888.06 (W)
604	8+37.05	A 14.00'	LT	CURB INLET	893.11	889.82 (W), 889.55 (E)
605	8+37.05	A 14.00'	RT	DOUBLE CURB INLET	893.11	890.10 (E)
606	5+42.31	A 197.59'	LT	END SECTION		888.04 (W)
607	5+30.01	A 14.00'	LT	CURB INLET	893.48	890.25 (E,W)
608	5+30.01	A 14.00'	RT	CURB INLET	893.48	890.53 (E,W)
609	5+31.58	A 164.00'	RT	BEEHIVE	897.50	894.50 (E)
610	1+72.77	A 41.00'	LT	END SECTION		889.00 (NE)
611	0+36.78	A 38.84'	LT	MAN HOLE	894.50	890.03 (NW), 899.27 (NE,SW)
612	0+34	A 14.0'	LT	CURB INLET	893.39	890.80 (NW), 890.50 (NE), 890.25 (SE)
613	0+34	A 14.00'	RT	CURB INLET	893.39	890.80 (SE), 890.50 (NE)
614	15+00	E 14.00'	RT	CURB INLET	894.03	891.00 (SW)
615	14+54.31	E 35.06'	RT	MANHOLE	895.00	889.37 (SW,NE)
616	14+50	E 165.00'	RT	MANHOLE	894.20	889.57 (NW,SW), 891.60 (NE)
617A	14+50.14	E 185.00'	RT	END SECTION		893.00 (SW)
617	15+70.89	E 181.93'	RT	BEEHIVE	894.50	889.72 (N,SE)
618	11+48.46	E 194.00'	LT	END SECTION		888.00 (NE)
619	11+50	E 14.00'	LT	CURB INLET	894.90	888.63 (NE,SW)
620	11+50	E 14.00'	RT	CURB INLET	894.90	888.73 (NE,SW), 890.57 (NW)
621	18+21.34	D 14.00'	LT	CURB INLET	894.91	891.76 (NW,SE)
622	18+21.34	D 14.00'	RT	CURB INLET	894.91	891.90 (SE)
623	15+75.90	D 176.72'	LT	BEEHIVE	894.90	888.73 (NE,SW), 890.57 (NW)
624	1+50	C 14.00'	LT	DOUBLE CURB INLET	895.49	892.22 (SE), 892.00 (NW)
625	1+50	C 14.00'	RT	DOUBLE CURB INLET	895.49	892.50 (NW)
626	13+94.47	D 173.67'	LT	BEEHIVE	896.00	889.96 (SW), 889.78 (E)
627	12+76	D 175.00'	LT	BEEHIVE	897.00	890.84 (N), 890.35 (W)
628	12+75	D 14.00'	LT	CURB INLET	899.83	896.07 (N,S)
629	12+75	D 14.00'	RT	CURB INLET	899.83	896.37 (NE,S)
630	12+41.14	D 32.50'	RT	MANHOLE	900.40	896.52 (N,SW)
631	12+41.14	D 175.00'	RT	BEEHIVE	899.90	897.09 (S)
632	1+81.80	A 28.04'	LT	BOX CULVERT		889.00 (NW)
633	1+78.80	A 27.88'	RT	BOX CULVERT		889.14 (SE)

**SANITARY SEWER TABLE**

STR #	STA BASELINE	OFFSET	LT/RT	TYPE	TC	INVERTS
EX403	9+02.12	E 35.00'	LT	EXISTING MANHOLE	897.80	883.75 (S), 883.85 (N)
401	10+36.93	E 30.00'	LT	MANHOLE	896.60	894.41 (NW), 885.77 (NE), 884.31 (S)
402	2+47.47	C 31.00'	LT	MANHOLE	897.00	890.12 (E), 890.00 (W)
403	6+07.91	C 45.33'	LT	MANHOLE	899.80	893.80 (W)
404	12+56.49	E 33.00'	LT	MANHOLE	895.80	885.11 (NW), 885.74 (NE), 885.01 (SE)
405	16+66.55	D 30.00'	LT	MANHOLE	897.50	886.76 (NE), 886.66 (SW)
406	2+05.70	A 274.00'	RT	MANHOLE	895.20	886.28 (SE), 886.38 (NW)
END	13+17.43	A 203.97'	LT	PIPE TO PIPE		880.84+ (WE)
407	13+18.49	A 69.97'	LT	MANHOLE	889.70	881.30 (NW), 881.05 (E), 881.15 (W)
408	11+48.31	A 20.89'	LT	MANHOLE	892.90	881.75 (N), 881.65 (SE)
409	7+40.52	A 35.00'	LT	MANHOLE	894.20	882.97 (N), 882.87 (S)
410	4+40.53	A 35.97'	LT	MANHOLE	894.80	883.62 (N), 883.72 (S)
411	13+90.61	D 31.23'	LT	MANHOLE	900.90	889.90 (E), 889.42 (SW)
412	10+76	D 30.00'	LT	MANHOLE	901.40	894.40 (W)
413	2+22.24	A 35.07'	RT	MANHOLE	895.50	884.49 (NW), 884.39 (S)
414	2+05.70	A 274.0'	RT	MANHOLE	895.00	885.09 (SE), 885.19 (NW)

**UTILITY OWNERS**

**SANITARY SEWERS AND WATER**  
HAMILTON WESTERN UTILITIES  
1350 GRAYHOUND PASS  
CARMEL, IN. 46032  
BEAU WILFONG 848-6882

**GAS**  
INDIANA GAS CO.  
505 WEST CR. 125 S.  
LEBANON, IN. 46052  
JEFF AUTRY (317) 482-6456

**ELECTRIC**  
PSI ENERGY  
P.O. BOX 876  
CARMEL, IN. 46032  
MARK LA BARR 581.3041

**PHONE**  
AMERITECH  
5858 N. COLLEGE AVE.  
INDPLS. IN. 46220  
JANE MESSENGER 252-4275

**CATV**  
JONES INTERCABLE  
516 E. CARMEL DR.  
CARMEL, IN. 46023  
844-8877

**SUB-SURFACE DRAIN RECORD DRAWING**

- ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES.
- IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO HIS PHASE OF WORK. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES FOR PROPER STAKE LOCATIONS FOR EACH UTILITY BEFORE WORK IS STARTED. THE CONTRACTOR SHALL NOTIFY IN WRITING THE OWNER OR THE ENGINEER OF ANY CHANGES, OMISSIONS, OR ERRORS FOUND ON THESE PLANS OR IN THE FIELD BEFORE WORK IS STARTED OR RESUMED.
- STANDARD SPECIFICATIONS FOR HAMILTON WESTERN UTILITIES SHALL APPLY FOR ALL SANITARY SEWERS.
- ANY PART OF THE SANITARY OR STORM SEWER TRENCHES RUNNING UNDER PAVED AREAS TO BE BACKFILLED WITH GRANULAR MATERIAL.
- THE SIZE AND LOCATION OF EXISTING UTILITIES SHOWN ARE PER INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES. ALL UTILITY COMPANIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION FOR FIELD LOCATION OF SERVICES.
- SERVICE WALKS SHALL BE NON-REINFORCED CONCRETE 4" THICK AND 4' IN WIDTH.
- 4' CONCRETE SERVICE WALK ACROSS FRONTAGE OF EACH LOT TO BE CONSTRUCTED BY OTHERS.
- EXPANSION JOINTS ARE TO BE PLACED AT ALL WALK INTERSECTIONS AND BETWEEN WALKS AND PLATFORMS. SIDEWALK SCORES ARE TO BE EQUALLY SPACED BETWEEN EXPANSION JOINTS, CONTRACTION JOINTS AND PERPENDICULAR SIDEWALKS AT 5' INTERVALS OR LESS WITH A CONTRACTION JOINT EVERY 20' OR LESS.
- TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
- ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
- CONTRACTOR SHALL MINIMIZE DAMAGE TO EXISTING TREES.
- REMOVE AND BACKFILL ALL AREAS WHERE ANY FIELD TILE CROSSES PROPOSED HOUSE PADS. ALL FIELD TILES INTERCEPTED TO BE PERPETUATED INTO STORM SEWER SYSTEM OR LAKE. THE SUBCONTRACTOR SHALL NOTIFY IN WRITING THE OWNER AND THE ENGINEER IN ANY CIRCUMSTANCES WHERE THIS CANNOT BE ACCOMPLISHED.
- ALL FILL AREAS SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY (ASTM D-1557).

**Revisions**  
1. BGC 12/19/97 IDENTIFIED LAND OWNER TO WEST OF SITE  
2. BGC 03/06/98 REVISED SANITARY SEWER RUN 409 THRU 414  
3. BGC 03/19/98 ADDED STRUCTURE DATA TABLE TO SHEET

**CERTIFICATION FOR "RECORD DRAWING"**

**NOTE:**  
Record drawing certification for sub-surface drain lateral marker locations only.  
All other information is excluded from this certification.



CERTIFIED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

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MERRIMAC SECTION 4  
Westfield, Indiana

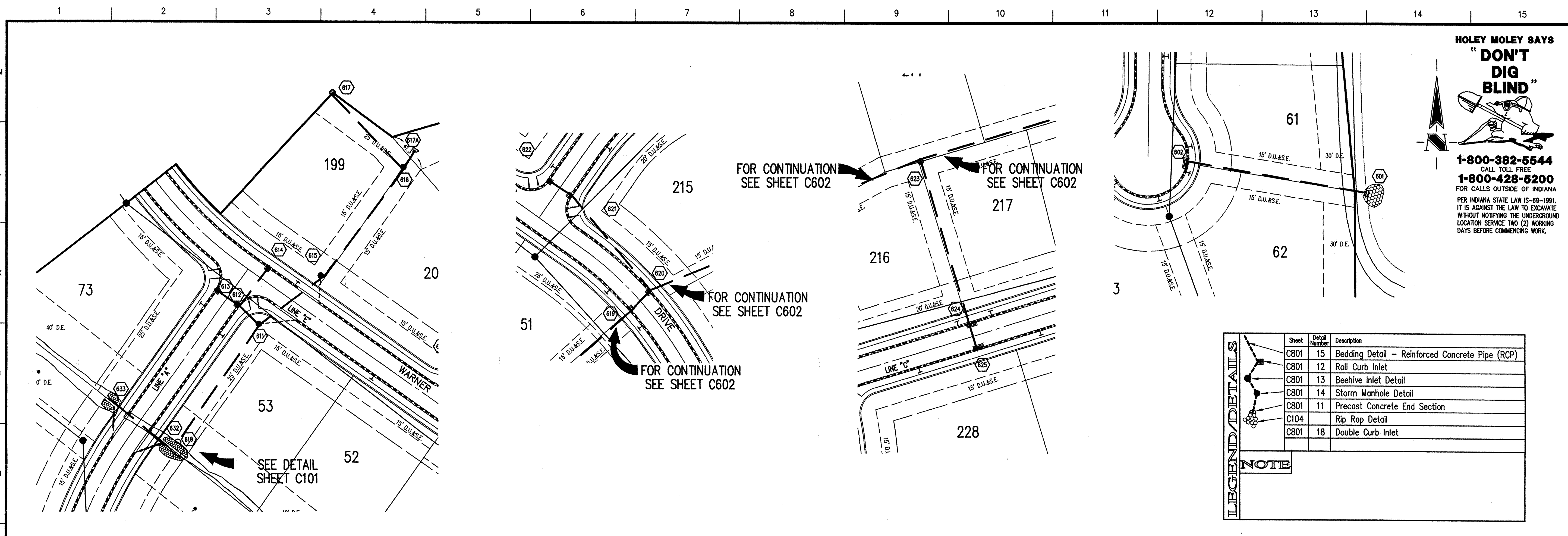
**DEVELOPMENT PLAN (SOUTH HALF) - E.D.**

Date: 10/22/97 Project No. 1045.001 Drawn by: BGC 4 2007 Approved by: \_\_\_\_\_

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XREF: J:\1045\001\DWG\104504D0  
XREF: J:\1045\001\DWG\TITLE1

Sheet: \_\_\_\_\_ of \_\_\_\_\_  
C102





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**1-800-428-5200**  
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Sheet	Detail Number	Description
C801	15	Bedding Detail - Reinforced Concrete Pipe (RCP)
C801	12	Roll Curb Inlet
C801	13	Beehive Inlet Detail
C801	14	Storm Manhole Detail
C801	11	Precast Concrete End Section
C104		Rip Rap Detail
C801	18	Double Curb Inlet

**LEGEND/DETAILS**  
**NOTE**

**GENERAL NOTES**

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**BENCHMARK**

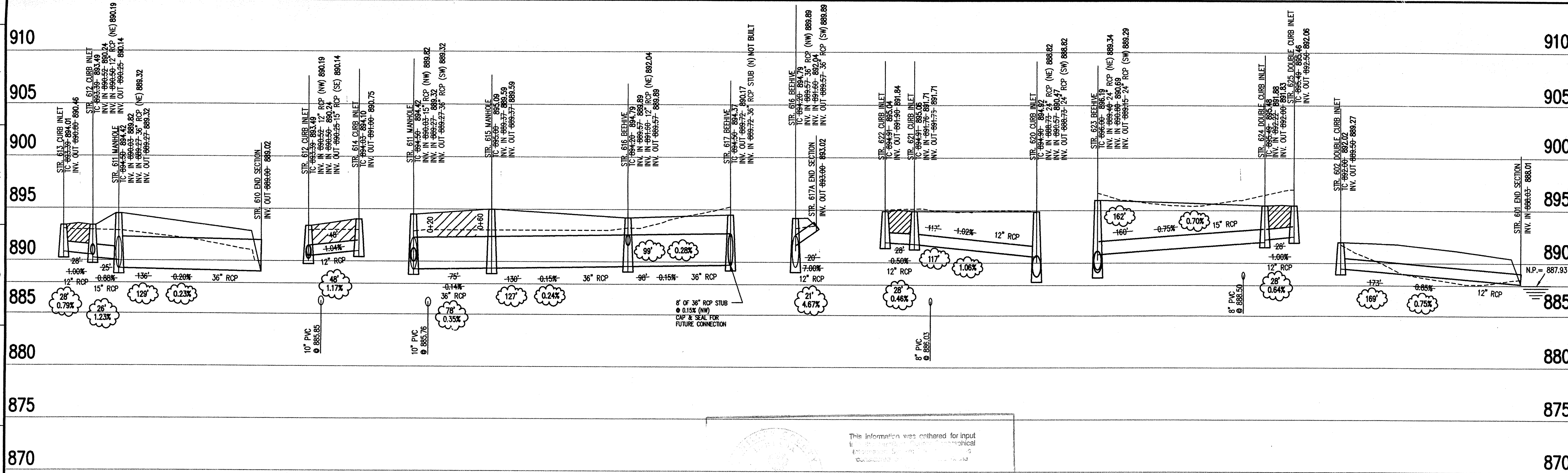
**BENCH MARK**  
 U.S.G.S. 93 RHP (1951)  
 BRONZE TABLET SET IN CONCRETE POST, LOCATED ON THE SOUTH SIDE OF 146TH STREET, APPROX. 25' WEST OF THE CENTERLINE OF DITCH ROAD.  
 (ELEVATION = 903.373)

**Revisions**

- 05/12/98 REVISE SUBSURFACE DRAIN BETWEEN STR.#611 & 615 AND 632 & 633.
- 12 - 30 NOV 98 - STORM SEWER RECORD DRAWING.

**STORM SEWER PLAN**

SCALE: 1"=50'



**CERTIFICATION FOR "RECORD DRAWING"**

**NOTE:**  
 Record drawing certification only for top of casting, invert elevations and lengths of pipe. Slope percentage represents a calculated figure and is for general information only.

**Professional Seal:**  
 MERRIMAC H. ANSELMIAN  
 No. 50461  
 INDIANA  
 LAND SURVEYOR

CERTIFIED BY: [Signature]  
 DATE: 12-07-98

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Entry Date: 4-5-2001  
 Entered by: bmv / 9/9 2-11-04

**STORM SEWER RECORD DRAWING**

**STORM SEWER PROFILE**

**LEGEND**

	Existing Grade
	New Grade
	Granular Backfill

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

**MERRIMAC CORPORATION**  
**MERRIMAC SECTION 4**  
 Westfield, Indiana

**FILED**

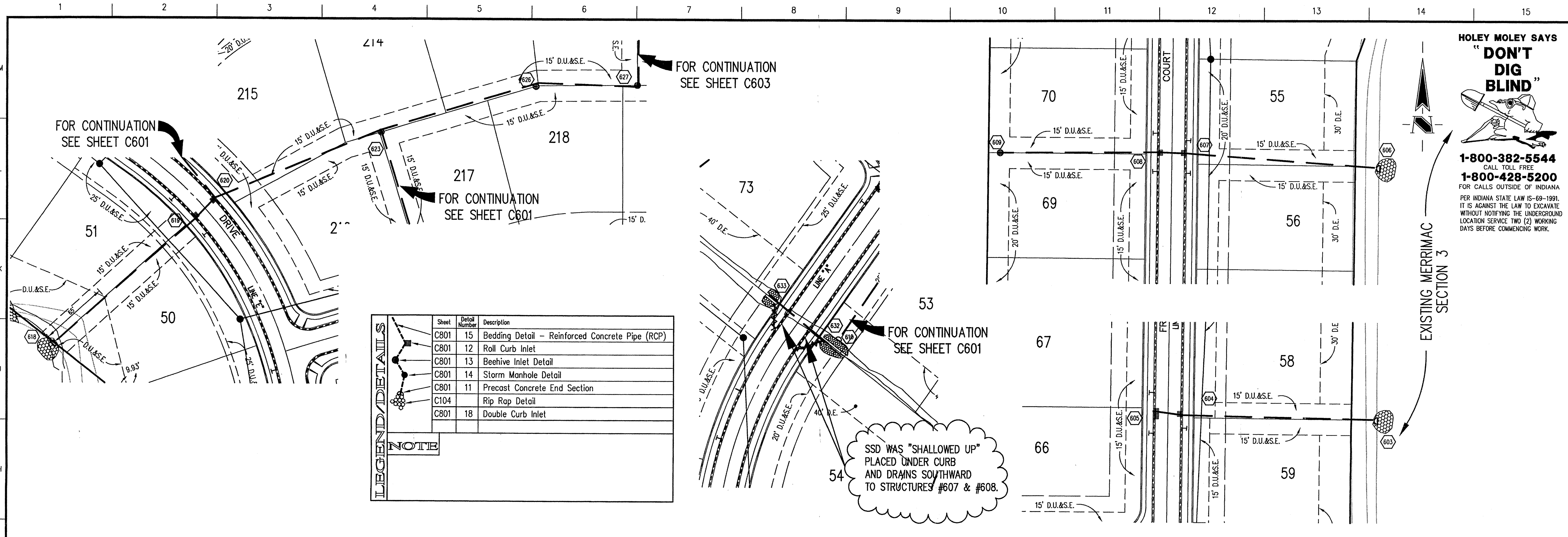
**STORM SEWER PLAN**

Date: 10/22/97  
 Project No.: 1045.001  
 Drawn: BGG  
 Approv.: [Signature]

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 XREF: J:\1045\001\DWG\S\104504BS  
 XREF: J:\1045\DWG\S\03\104503PL  
 XREF: J:\1045\001\DWG\S\TITLE

Sheet No.  
**C601**





**LEGEND/DETAILS**

Sheet	Detail Number	Description
C801	15	Bedding Detail - Reinforced Concrete Pipe (RCP)
C801	12	Roll Curb Inlet
C801	13	Beehive Inlet Detail
C801	14	Storm Manhole Detail
C801	11	Precast Concrete End Section
C104		Rip Rap Detail
C801	18	Double Curb Inlet

**NOTE**

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 WITHOUT NOTIFYING THE UNDERGROUND  
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**BENCHMARK**

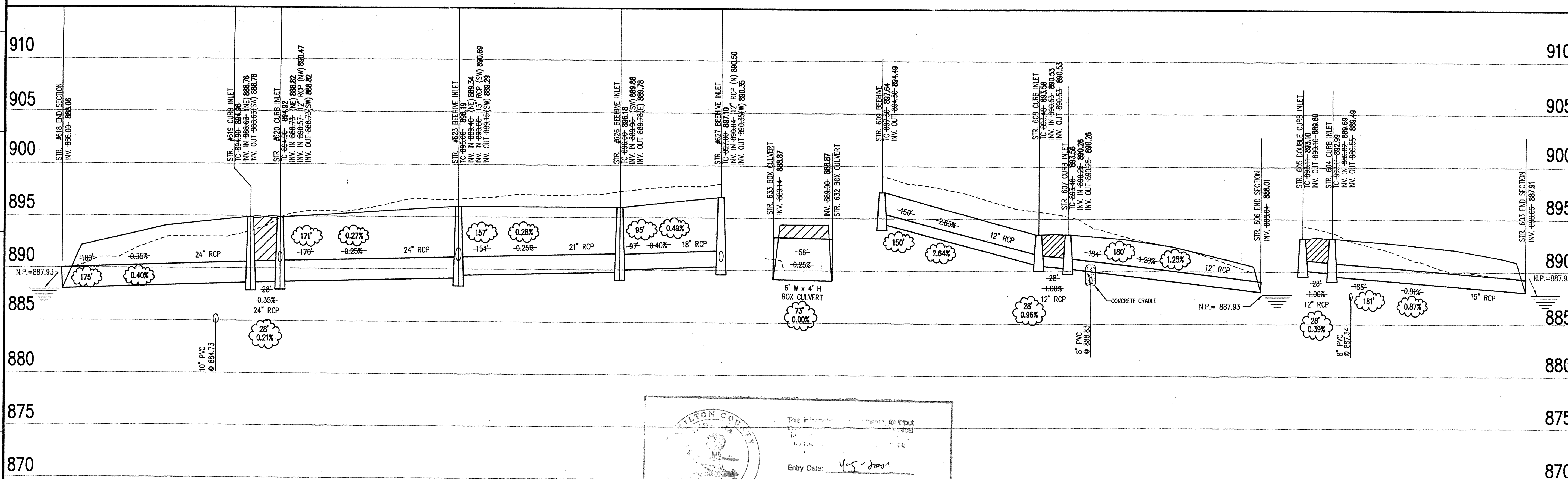
**BENCH MARK**  
 U.S.C.S. 93 RHP (1951)  
 BRONZE TABLET SET IN CONCRETE POST, LOCATED ON THE SOUTH SIDE OF 146th STREET, APPROX. 25' WEST OF THE CENTERLINE OF DITCH ROAD.  
 (ELEVATION = 903.373)

**Revisions**

- BGG 03/19/99 STRUCTURE NUMBERS 632 & 633 WERE 631 & 632 RESPECTIVELY
- TBM 05/05/98 MODIFIED CULVERT CROSSING TO 6' x 4' BOX.
- TJ - 30 NOV 98 - STORM SEWER RECORD DRAWING.

**STORM SEWER PLAN**

SCALE: 1"=50'



**CERTIFICATION FOR "RECORD DRAWING"**

**NOTE:**  
 Record drawing certification only for top of casting, invert elevations and lengths of pipe. Slope percentage represents a calculated figure and is for general information only.

CERTIFIED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

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WILTON COUNTY  
 This information is intended for input  
 Entry Date: 4-5-2001  
 Entered by: DMN/2-11-01

**STORM SEWER RECORD DRAWING**

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 MERRIMAC SECTION 4  
 Westfield, Indiana

**FILED**  
 APR 24 2000  
 OFFICE OF HAMILTON COUNTY SURVEYOR

Date: 10/22/97 Project No. 1045.001 Drawn: BGG

**STORM SEWER PROFILE**

**LEGEND**

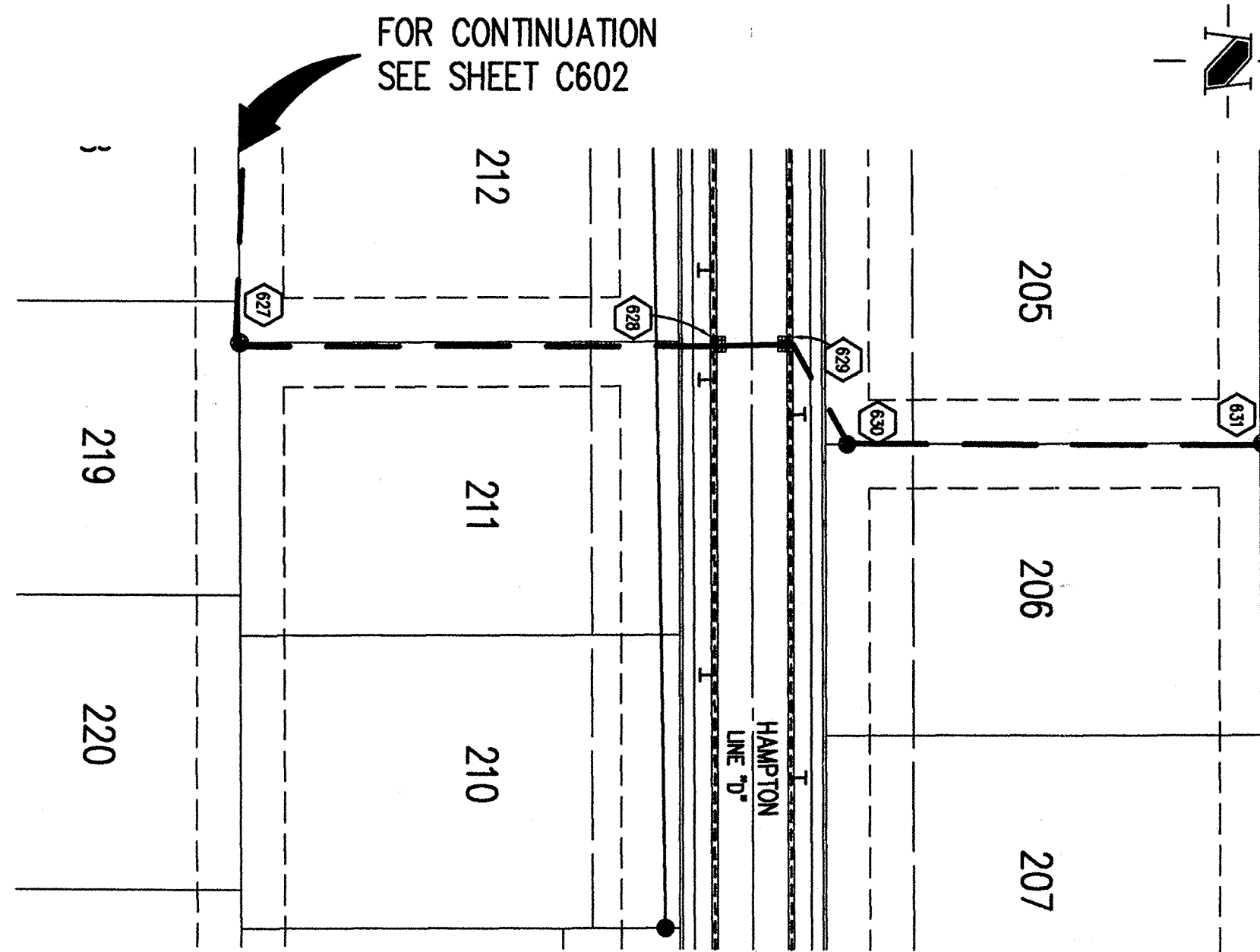
	Existing Grade
	New Grade
	Granular Backfill

SCALE: **HORZ.: 1"=50'**  
**VERT.: 1"=5'**

Computer Files  
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 XREF: J:\045\DWGS\03\104503PL  
 XREF: J:\045\001\DWGS\TITLE

Sheet No.  
**C602**





**HILTON COUNTY INDIANA**

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

Entry Date: 4-5-2001

Entered by: *dmw/2/21/04*

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C104		Rip Rap Detail
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**LEGEND/DETAILS**

**NOTE**

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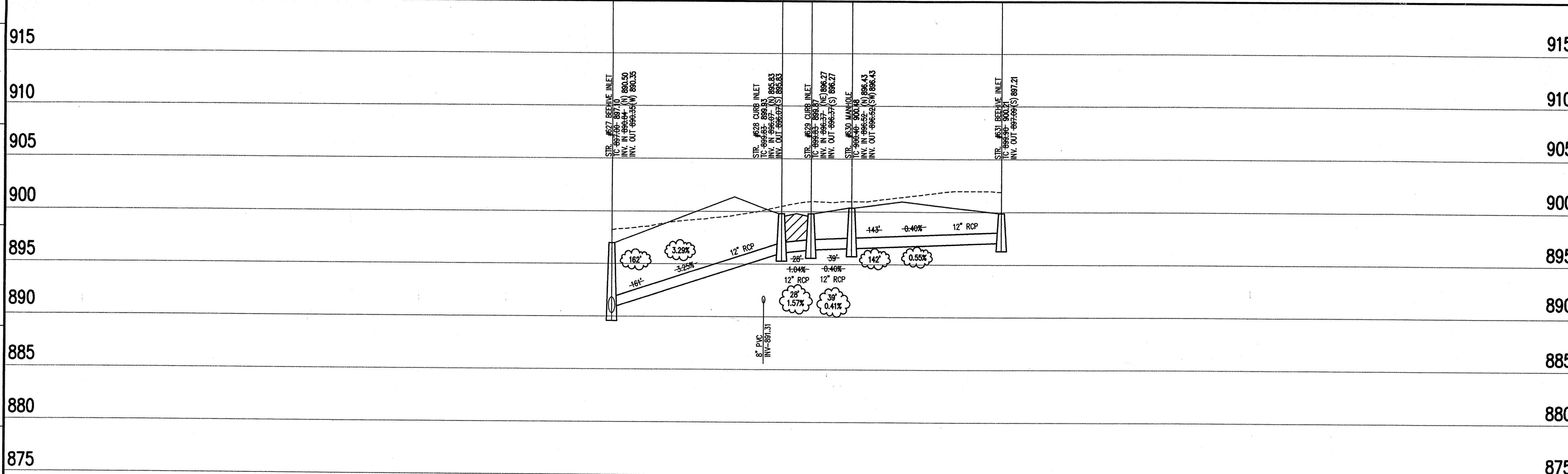
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- Revisions**
- TJ - 30 NOV 98 - STORM SEWER RECORD DRAWING.

**STORM SEWER PLAN**

SCALE: 1"=50'



**CERTIFICATION FOR "RECORD DRAWING"**

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CERTIFIED BY *Norman H. Hisekman*  
DATE: 12-07-98

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STORM SEWER PLAN

Date: 10/22/97  
Project No.: 1045.001  
Drawn: DMW  
Approv.

Computer Files  
S:\1045\001\DWG\C603  
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Sheet No.  
**C603**

**STORM SEWER RECORD DRAWING**

SCALE:  $\frac{\text{HORZ.: 1"=50'}}{\text{VERT.: 1"=5'}}$

**LEGEND**

	Existing Grade
	New Grade
	Granular Backfill

**STORM SEWER PROFILE**

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