



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*

September 30, 2005

To: Hamilton County Drainage Board

Re: J. W. Brendel Drain, Aberdeen Bend Arm

Attached is a petition filed by Aberdeen Bend, LLC along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Aberdeen Bend Arm, J. W. Brendle Drain to be located in Clay Township. 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	7,158 ft	18" RCP	976 ft	30" RCP	667 ft
12" RCP	120 ft	21" RCP	80 ft	36" RCP	731 ft
15" RCP	960 ft	24" RCP	914 ft		

The total length of the drain will be 11,606 feet.

The Retention Pond #1 located in Common Area #2 is to be considered part of the regulated drain. Pond maintenance shall include the inlet, outlet, sediment removal and erosion control along the banks as part of the regulated drain. The maintenance of the pond (lake) such as mowing and aquatic vegetation control will be the responsibility of the Homeowners Association. The Board will also retain jurisdiction for ensuring the storage volume for which the pond (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 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 \$10.00 per acre for common areas and platted lots, \$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 \$3,603.10.

The petitioner has submitted surety for the proposed drain at this time. Sureties shall be submitted prior to the approval of the Hamilton County Board of Commissioners/commencement of construction. The sureties which are in the form of a Letter of Credit are as follows:

Agent: Fifth Third Bank  
Date: June 15, 2005  
Number: CIS403983  
For: Storm Sewers  
Amount: \$295,875.00

Agent: Fifth Third Bank  
Date: June 15, 2005  
Number: CIS403984  
For: Subsurface Drains  
Amount: \$58,159.00

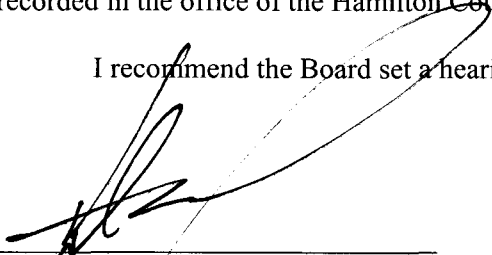
Agent: Fifth Third Bank  
Date: June 1, 2005  
Number: CIS403935  
For: Erosion Control  
Amount: \$51,378.00

Parcels assessed for this drain may be assessed for the Long Branch Drain at sometime in the future.

I believe this proposed drain meets the requirements for Urban Drain Classification as set out in IC36-9-27-67 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. The request is for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for Aberdeen Bend as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for January 23, 2006.



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Kenton C. Ward  
Hamilton County Surveyor

KCW/llm

STATE OF INDIANA )  
 )  
COUNTY OF HAMILTON )

TO: HAMILTON COUNTY DRAINAGE BOARD

% Hamilton County Surveyor  
One Hamilton County Square, Suite 188  
Noblesville, IN. 46060-2230

In the matter of Aberdeen Bend 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 Aberdeen Bend, a 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 benefited 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 or Non-Revocable Letter of Credit for the portion of the drainage system which will be made a regulated drain. The bond will be in the amount of 120% of the Engineer's 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 Petitioners cost as per IC 36-9-27-46.



The Petitioner further requests that the Drain be classified as an Urban Drain as per IC 36-9-27-69(d).

**RECORDED OWNER(S) OF LAND INVOLVED**

Abendeen Bend, LLC by  
\_\_\_\_\_  
Signed

Mark A. Zherman  
\_\_\_\_\_  
Printed Name

2-28-05  
\_\_\_\_\_  
Date

\_\_\_\_\_  
Signed

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signed

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signed

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Date

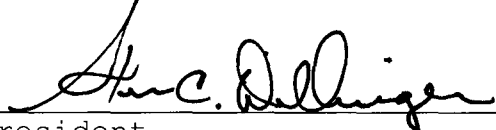



**FINDINGS AND ORDER**  
**CONCERNING THE MAINTENANCE OF THE**  
**J. W. Brendle Drain, Aberdeen Bend Arm**

On this **23rd day of January 2006**, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the **J. W. Brendle Drain, Aberdeen Bend Arm**.


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:   
\_\_\_\_\_  
Secretary

**122-0274 ABERDEEN BEND**  
**Cost Estimate**  
**for Hamilton County Surveyor's Office**

6/1/2005

Contract Item	Unit	Quantity	Unit Cost	Total
4" Tie-in for existing pond	LF	91	13	\$1,219
Rip-rap around end section	EA	3	371	\$1,112
Pipe, RCP, Type II, 12 in	LFT	120	17	\$2,011
Pipe, RCP, Type II, 15 in	LFT	960	22	\$21,120
Pipe, RCP, Type II, 18 in	LFT	971	22	\$21,362
Pipe, RCP, Type II, 21 in	LFT	80	27	\$2,160
Pipe, RCP, Type II, 24 in	LFT	914	32	\$29,248
Pipe, RCP, Type II, 30 in	LFT	625	45	\$28,125
Pipe, RCP, Type II, 36 in	LFT	718	53	\$38,054
12" End Section, Storm	EA	2	840	\$1,680
30" End Section, Storm	EA	2	1,340	\$2,680
36" End Section, Storm	EA	1	1,625	\$1,625
Set 24"x24" box structure	EA	13	1,081	\$14,053
Set 24"x36" box structure	EA	4	1,216	\$4,864
Set 36"x36" box structure	EA	2	1,443	\$2,886
48" dia manhole ( depth 0-6 ft)	EA	4	1,443	\$5,772
48" dia manhole ( depth 6-10 ft)	EA	3	3,295	\$9,885
60" dia manhole ( depth 0-6 ft)	EA	2	2,330	\$4,660
60" dia manhole ( depth 6-10 ft)	EA	7	2,623	\$18,361
72" dia manhole ( depth 0-6 ft)	EA	2	3,143	\$6,286
72" dia manhole ( depth 6-10 ft)	EA	1	3,295	\$3,295
Mobilization storm crew	LS	1	445	\$445
Hamilton County Finish MH	EA	39	150	\$5,850
Fill sand for storm sewer	LS	1	15,233	\$15,233
Grout inlets	EA	18	104	\$1,872
Jel storm sewer	LS	4,362	0.62	\$2,704
Sub-Surface Drains	EA	50	50	\$2,500
Underdrain 6"PVC	LFT	7,661	6	\$45,966
Erosion control	LS	1	42,815	\$42,815
Monumentation (No Streets)	LS	1	8,500	\$8,500
<b>SUB-TOTAL</b>				<b>\$346,344</b>

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD  
IN THE MATTER OF  
***J. W. Brendle Drain, Aberdeen Bend Arm***

NOTICE

To Whom It May Concern and: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Notice is hereby given of the hearing of the Hamilton County Drainage Board on the **J. W. Brendle Drain, Aberdeen Bend Arm** on **January 23, 2006** at **9:20 A.M.** in Commissioners Court, Hamilton County Judicial Center, One Hamilton County Square, Noblesville, Indiana, and which construction and maintenance reports of the Surveyor and the Schedule of Assessments made by the Drainage Board have been filed and are available for public inspection in the office of the Hamilton County Surveyor.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD  
IN THE MATTER OF THE

***J. W. Brendle Drain, Aberdeen Bend Arm***

NOTICE

Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on **January 23, 2006** has issued an order adopting the Schedule of Assessments, filed the same and made public announcement thereof at the hearing and ordered publication. If judicial review of the findings and order of the Board is not requested pursuant to Article Eight of this code within twenty (20) days from the date of this publication, the order shall be conclusive.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY



**CERTIFICATE OF COMPLETION AND COMPLIANCE**

To: Hamilton County Surveyor

Re: **Aberdeen Bend Subdivision**

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 been installed and completed in conformity with all plans and specifications.
5. The drainage facilities within the above referenced subdivision to the best of my knowledge, information and belief have been correctly represented on the Record Drawings, Digital Record Drawings and the Structure Data Spreadsheet.

Signature: *Allan H. Weihe* Date: 9-27-05

Type or Print Name: **Allan H. Weihe**

Business Address: **10505 N. College Ave.**

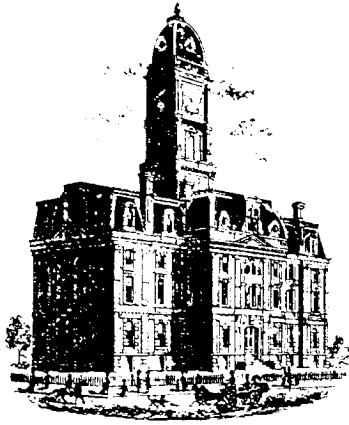
**Indianapolis, IN 46280**

Telephone Number: **317-846-6611**

SEAL

INDIANA REGISTRATION NUMBER

**#8827**



SURVEYOR'S OFFICE

# Hamilton County

*Kenton C. Ward, CFM*  
 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 1, 2007**

**Re: JW Brendle: Aberdeen Bend**

Attached are as-builts, certificate of completion & compliance, and other information for Aberdeen Bend. 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 September 30, 2005. The report was approved by the Board at the hearing held January 23, 2006. (See Drainage Board Minutes Book 9, Pages 18-19)  
 The changes are as follows:

Structure:	Length:	Size	Material:	Up Invert:	Dn Invert	Grade:	Changes(ft):
1-2	30	15	RCP	909.41	909.2	0.7	
2-3	39	15	RCP	909.2	907.7	3.85	-1
3-4	159	18	RCP	907.7	906.84	0.54	
4-5	136	24	RCP	906.84	906.01	0.62	
5-6	184	30	RCP	906.01	905.3	0.39	1
6-7	106	30	RCP	905.3	905.02	0.26	18
8-9	30	12	RCP	907.62	907.62	0.6	
9-6	211	15	RCP	907.44	905.3	1.01	-1
16A-16	351	18	RCP	908.58	907.32	0.36	1
16-11	330	24	RCP	907.32	906.58	0.22	5
11-12	152	24	RCP	906.58	905.68	0.59	-1
12-13	30	30	RCP	905.68	905.47	0.7	
13-14	221	30	RCP	905.47	905.16	0.14	
14-15	86	30	RCP	905.16	905.02	0.13	-9
17B-17A	51	15	RCP	910.24	909.37	1.71	1
17A-17	200	15	RCP	909.37	907.29	1.04	
17-18	83	21	RCP	907.29	907.1	0.23	3
23-22	30	15	RCP	907.11	907.01	0.33	
22-21	118	18	RCP	907.01	906.98	0.03	
21-20	117	24	RCP	906.98	906.75	0.2	
20-19	30	30	RCP	906.75	906.68	0	
19-39B	20	30	RCP	906.75	906.68	0.35	

38-39	30	12	RCP	911.21	911.04	0.57	
39-39A	15	15	RCP	911.04	910.76	1.87	-1
39A-39B	222	15	RCP	910.76	906.61	1.87	-1
28-29	30	12	RCP	911.74	911.27	1.57	
29-30	31	15	RCP	911.27	910.97	0.97	-1
30-31	129	15	RCP	910.97	905.34	4.36	2
31-32	174	36	RCP	905.34	905.06	0.23	-11
26A-26	30	12	RCP	906.4	906.17	0.77	
24-25	30	36	RCP	906.47	906.47	0	
39B-24	157	36	RCP	906.61	906.47	0.1	1
25-26	150	36	RCP	906.47	906.17	0.2	-3
26-27	94	36	RCP	906.17	905.77	0.43	-3
27-31	108	36	RCP	905.77	905.34	0.4	1
36-35	167	18	RCP	904.18	902.91	0.76	3
37-36	134	18	RCP	904.89	904.18	0.53	-21
35-Ex	18	18	RCP	902.91	901.89	5.67	-12
18-39B	155	24	RCP	907.1	906.61	0.32	-19

**RCP Pipe Totals:**

12	120
15	958
18	947
21	83
24	890
30	677
36	713

**Total:** 4388

**6" SSD Streets:**

Tantara Bend	1368.5
Birkenstock St	765
Petronia Ct	296.5
Truman Ct	481.5
Tram Ln	557.5
x2	

**Total:** 6938

The length of the drain due to the changes described above is now **11,326 feet**.

The non-enforcement was approved by the Board at its meeting on January 23, 2006 and recorded under instrument # 200600004911.

The following sureties were guaranteed by Fifth Third Bank and will be released by the Board on its March 12, 2007 meeting.

**Bond-LC No:** CIS403983  
**Insured For:** Storm Sewers  
**Amount:** \$295,875.00  
**Issue Date:** June 15, 2005

**Bond-LC No:** CIS403984  
**Insured For:** Sub-Surface Drains  
**Amount:** \$58,159.00  
**Issue Date:** June 15, 2005

**Bond-LC No:** CIS403935  
**Insured For:** Erosion Control  
**Amount:** \$51,378.00  
**Issue Date:** June 15, 2005

# SITE CONSTRUCTION PLANS FOR ABERDEEN BEND SUBDIVISION

SECTION 29, TOWNSHIP 18 NORTH, RANGE 3 EAST  
CLAY TOWNSHIP  
HAMILTON COUNTY, INDIANA

INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
<del>2</del>	<del>SPECIFICATIONS</del>
<del>3-4</del>	<del>SITE PLAN</del>
<del>5-6</del>	<del>GRADING PLAN</del>
<del>7-8</del>	<del>UTILITY PLAN</del>
<del>9-10</del>	<del>EROSION CONTROL PLAN</del>
<del>11</del>	<del>EROSION CONTROL DETAILS</del>
<del>11A</del>	<del>EROSION CONTROL SPECIFICATIONS</del>
<del>11B</del>	<del>EROSION CONTROL SPECIFICATIONS</del>
<del>12-14</del>	<del>STREET CENTERLINE PLAN &amp; PROFILE</del>
<del>15-18</del>	<del>SANITARY SEWER PLAN &amp; PROFILE</del>
<del>19-22</del>	<del>STORM SEWER PLAN &amp; PROFILE</del>
<del>23</del>	<del>MAINTENANCE OF TRAFFIC</del>
<del>24</del>	<del>TRAFFIC CONTROL PLAN</del>
<del>25</del>	<del>ENTRANCE PLAN</del>
<del>26</del>	<del>INTERSECTION &amp; CUL-DE-SAC DETAILS</del>
<del>27-30</del>	<del>CONSTRUCTION DETAILS</del>
<del>31</del>	<del>SANITARY DETAILS</del>
<del>32-33</del>	<del>WATER LINE PLAN</del>
<del>34</del>	<del>WATER LINE DETAILS</del>
<del>35</del>	<del>SANITARY DETAILS</del>

REVISIONS		
SHEET NO.	DATE	DESCRIPTION
3-4,15-18,25,27-30,32-33,35a-35b	3/18/05	REVISION PER CITY
5-18,19-22	3/18/05	REVISION PER ENGINEER
5-6,19-22,27-30	3/18/05	REVISION PER SURVEYOR
1-35b	5/19/05	REVISIONS PER CARMEL ENGINEERING, CROSSROAD ENGINEERING, HCSWCD AND HCSO
7-8, 19-21, 32-33	6/09/05	REVISED PIPE LENGTHS PER FIELD REQUEST
24, 25, 30	7/07/05	REVISED PER CITY ENGINEER COMMENTS
3,4,24, 25	7/26/05	REVISED PER CITY ENGINEER COMMENTS
7,8,15-18,19-22,32-33	9/26/05	SANITARY, STORM & WATER ASBUILTS

**UTILITY COMPANIES:**

**WATER**  
CARMEL UTILITIES  
130 FIRST AVENUE SW  
CARMEL, IN 46032  
(317) 571-2648  
ATTN: PAUL PAGE

**SANITARY SEWER**  
Joy W. Alley  
Clay Township Regional Waste District  
10701 N. College Ave. Suite A  
Indianapolis, Indiana 46240  
Tel 844-9200 Fax 844-9203

**STREETS**  
Mike McBride  
Carmel Engineering Department  
One Civic Square  
Carmel, Indiana 46032  
Tel 571-2441  
Fax 571-2439

**GAS**  
Chuck Shupperd  
Vectren  
P.O. Box 1700  
Noblesville, Indiana 46060  
Tel 776-5597 Fax 776-5553

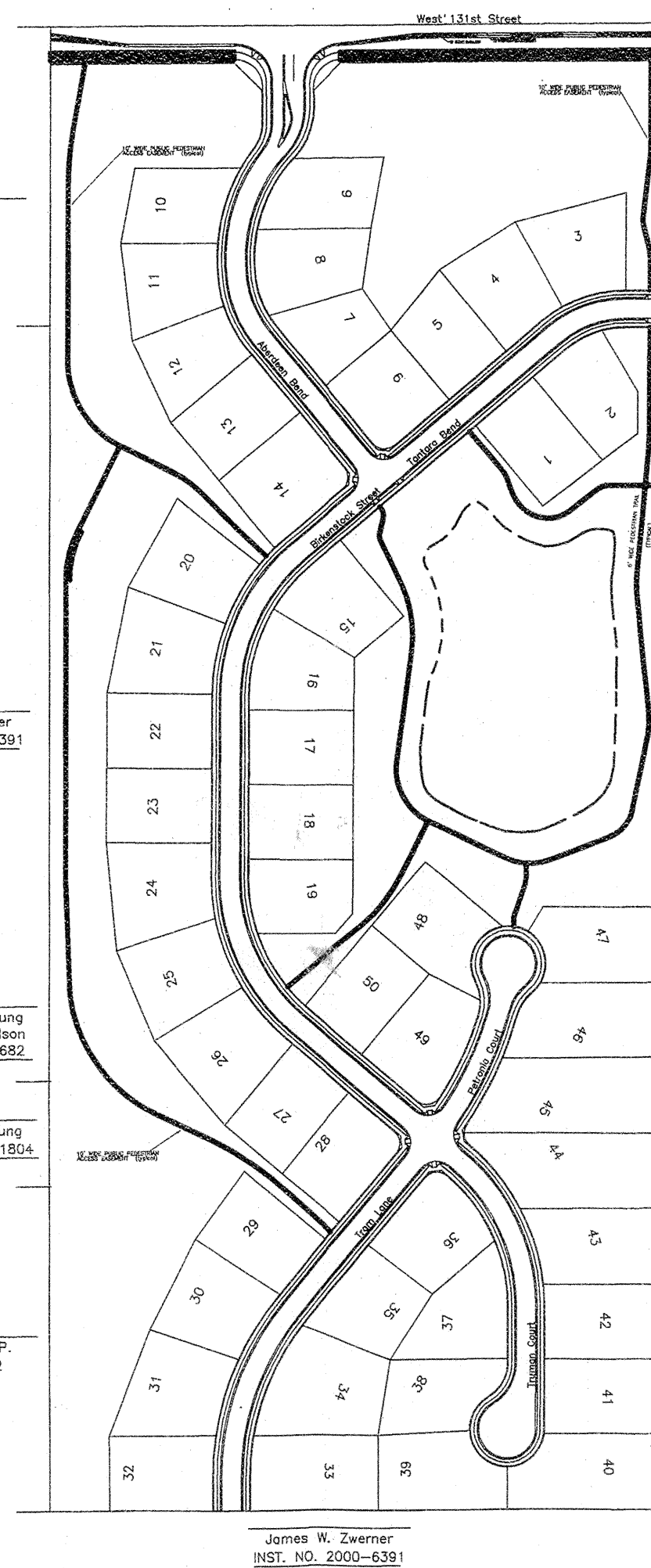
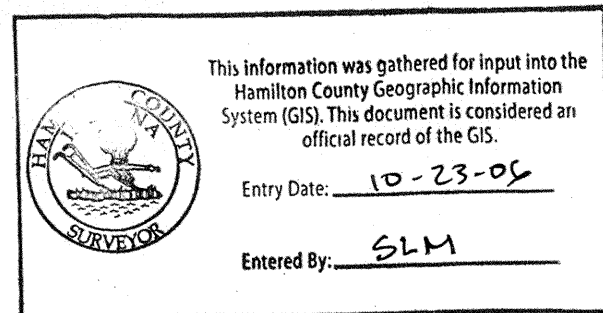
**ELECTRIC**  
Dean Groves  
CINERGY  
1441 South Guilford  
Carmel, Indiana 46032  
Tel 581-3052 Fax 581-3031

**TELEPHONE**  
Greg Cammack  
SBC  
5858 North College Avenue  
Indianapolis, Indiana 46220  
Tel 252-4274 Fax 252-5000

**CABLE TV**  
Jeff Farmer  
BrightHouse Networks  
516 East Carmel Drive  
Carmel, IN 46032  
Tel 844-8877

**NOTES:**

CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PERMIT ISSUING AGENCIES WITHIN THE TIME FRAME SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING CONSTRUCTION. ANY ALTERATIONS TO THESE PLANS NOT AUTHORIZED BY MID-STATES ENGINEERING AND NOT IN ACCORDANCE WITH THE PLANS AND RECORDS ON FILE AT MID-STATES ENGINEERING OFFICES SHALL RELIEVE MID-STATES ENGINEERING OF RESPONSIBILITY FOR OVERALL ACCURACY OF PLANS.



SCALE: 1" = 200'

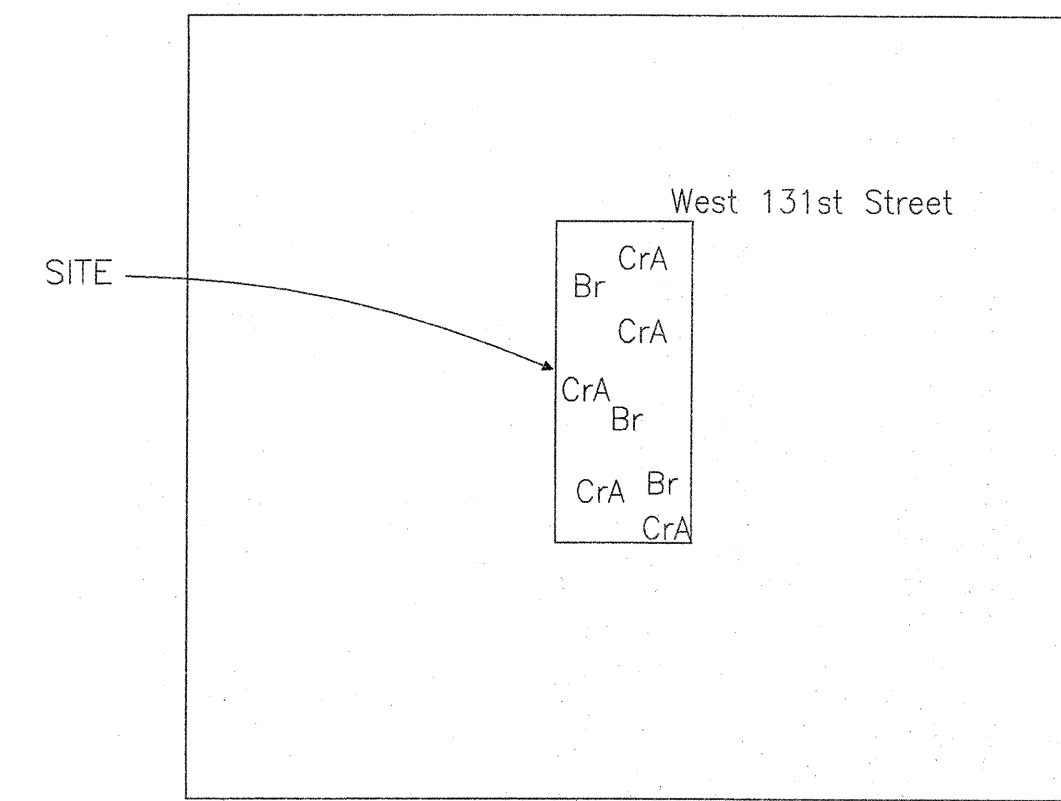
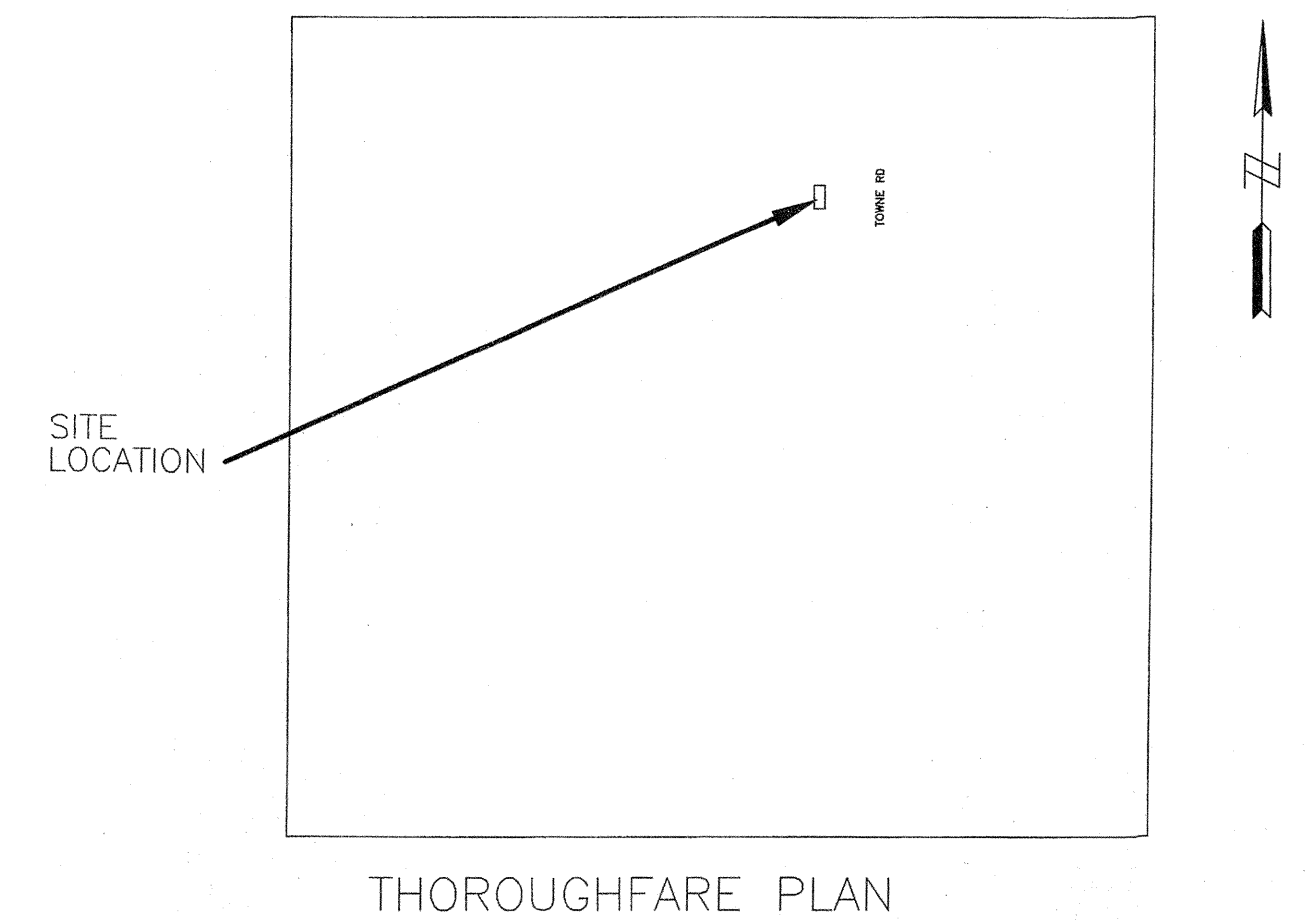
PLANS PREPARED BY:



350 E. New York St. Suite 300  
Indianapolis, IN, 46204  
(317) 634-6434 Phone  
(317) 634-3576 Fax

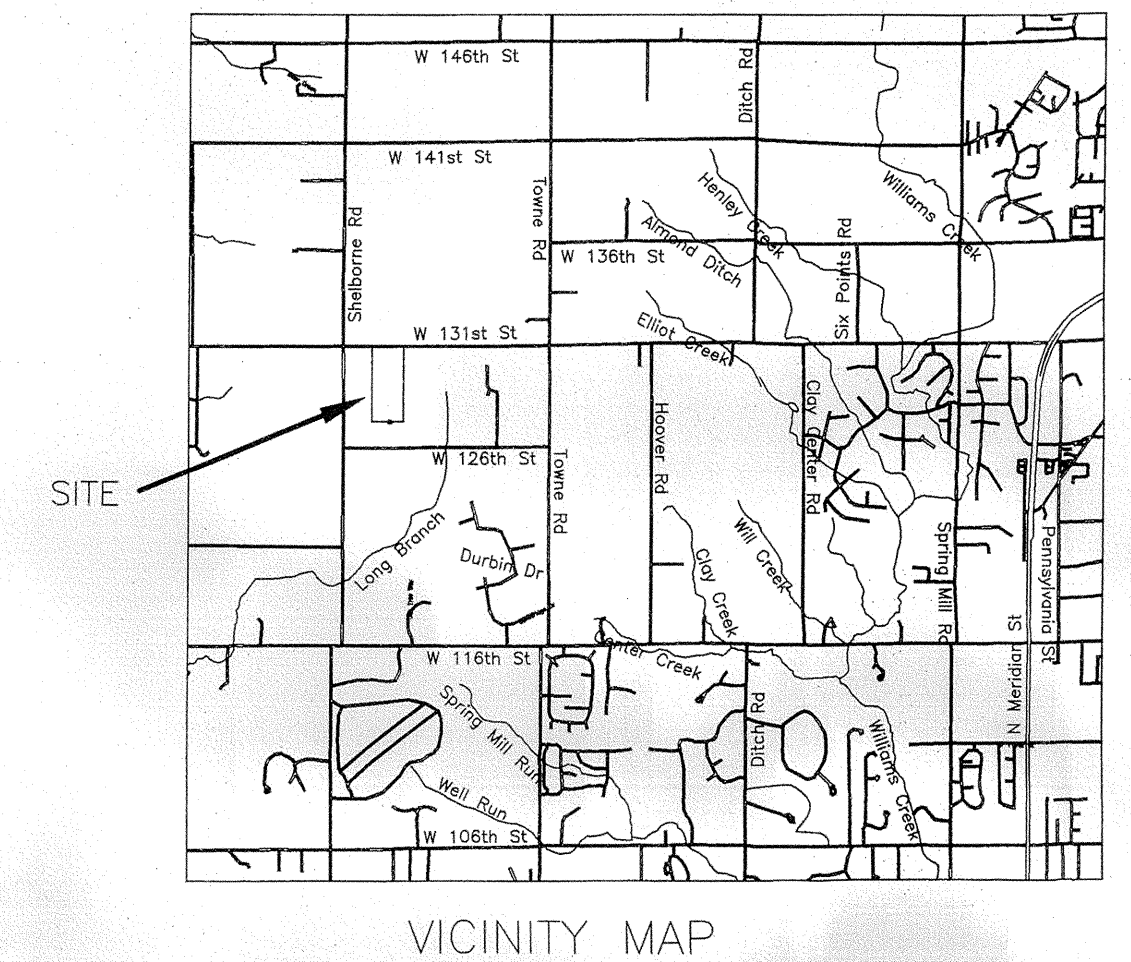
PLANS PREPARED FOR:

EQUICOR  
9011 North Meridian St., Suite 202  
Indianapolis, IN, 46260  
(317) 573-8100 Ph.  
(317) 573-9100 Fax.  
Contact: Dan Small



**Br**—Brookston silt clay loam. This nearly level, deep, very poorly drained soil is in broad depressions, swales, and narrow drainage ways on till plains. In a typical profile the surface layer is very dark grayish brown and very dark gray silty clay loam about 11 inches thick. The subsoil extends to a depth of 58 inches and is dark gray, gray, and grayish brown, mottled, firm clay loam and loam. The substratum, to a depth of 70 inches, is brown loam. In some places this soil is silty clay loam to a depth of 40 inches.

**Cr**—Crosby silt loam, 0 to 3 percent slopes. This nearly level, deep, somewhat poorly drained soil is on slight rises on broad, undulating till plains. In a typical profile the surface layer is dark grayish brown silt loam about 8 inches thick. The subsurface layer is dark grayish brown silt loam about 3 inches thick. The subsoil is dark yellowish brown and yellowish brown, mottled, firm silty clay loam and clay loam about 21 inches thick. The underlying material, to a depth of 60 inches, is brown calcareous loam.



25 MPH DESIGN SPEED

DESIGN DATA

LOTS:	50	WATER MAIN:	
ACRES:	36.88 AC	8" D.I.	2807 LF
LOTS (UNITS) / ACRE:	1.36 U/A	6" D.I.	796 LF
STREETS:			
ABERDEEN BEND	687 LF	SANITARY SEWER:	
TANTARA BEND	455 LF	8" PVC	3533 LF
BIRKENSTOCK STREET	1064 LF		
TRUMAN COURT	436 LF	STORM SEWER:	
PETRONIA COURT	257 LF	12" RCP	120 LF
TRAM LANE	581 LF	15" RCP	960 LF
TOTAL LENGTH IN MILES:	0.66 MI	18" RCP	971 LF
		21" RCP	80 LF
		24" RCP	914 LF
		30" RCP	625 LF
		36" RCP	718 LF

## RECORD DRAWING

SANITARY SEWER AS-BUILTS  
SANITARY SEWER STRUCTURES ONLY  
9/26/05

Allan H. Weihe  
ALLAN H. WEIHE-REG P.E.-IN #8827

## RECORD DRAWING

STORM SEWER AS-BUILTS  
STORM SEWER STRUCTURES ONLY  
9/26/05

Allan H. Weihe  
ALLAN H. WEIHE-REG P.E.-IN #8827

## RECORD DRAWING

WATER AS-BUILTS  
WATER STRUCTURES ONLY  
9/26/05

Allan H. Weihe  
ALLAN H. WEIHE-REG P.E.-IN #8827

ASBUILTS PREPARED BY:

## WEIHE ENGINEERS INC.

10505 NORTH COLLEGE AVENUE  
INDIANAPOLIS, INDIANA 46280  
WWW.WEIHENET

317.846.6611  
FAX 317.843.0546  
TOLL FREE 800.452.6408

ALLAN H. WEIHE, P.E., L.S. - PRESIDENT  
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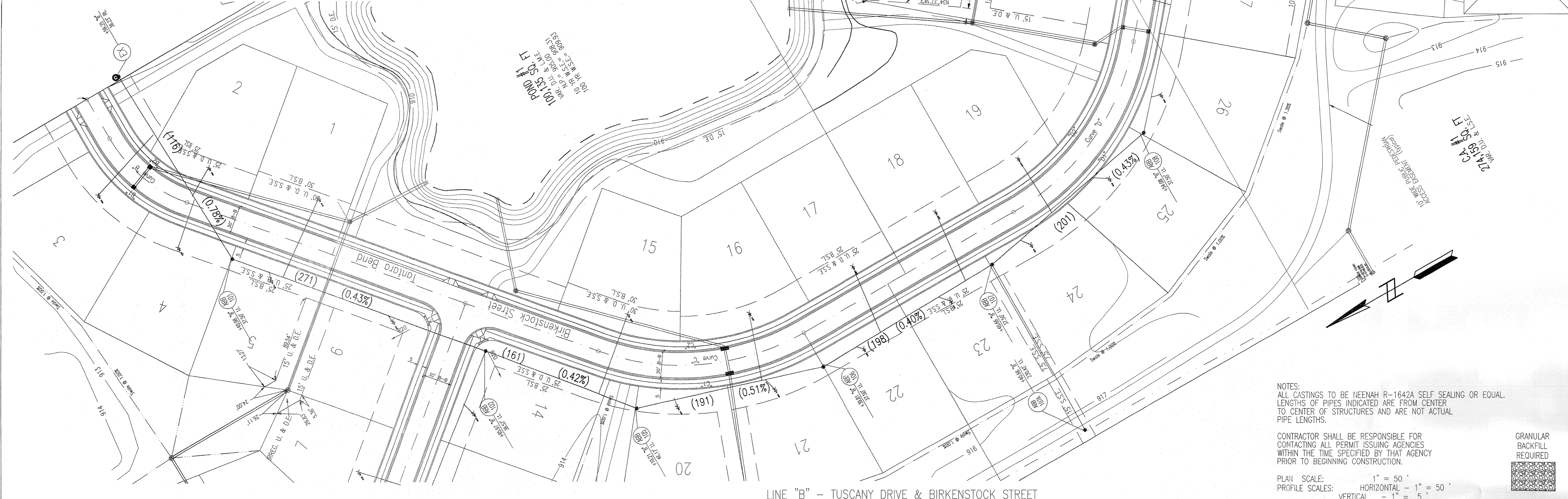
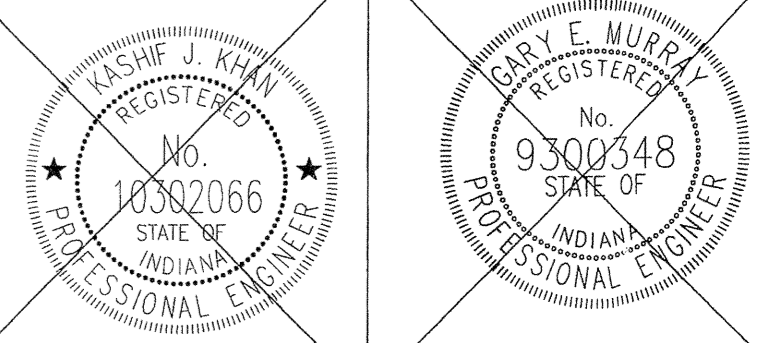
CERTIFIED  
THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2005

KASHIF J. KHAN  
REGISTERED PROFESSIONAL ENGINEER NO. 10302066 - INDIANA

Certification Hereon  
For Latest Revision

JOB NO. 122-0274 SHEET 1 OF 35

W050183



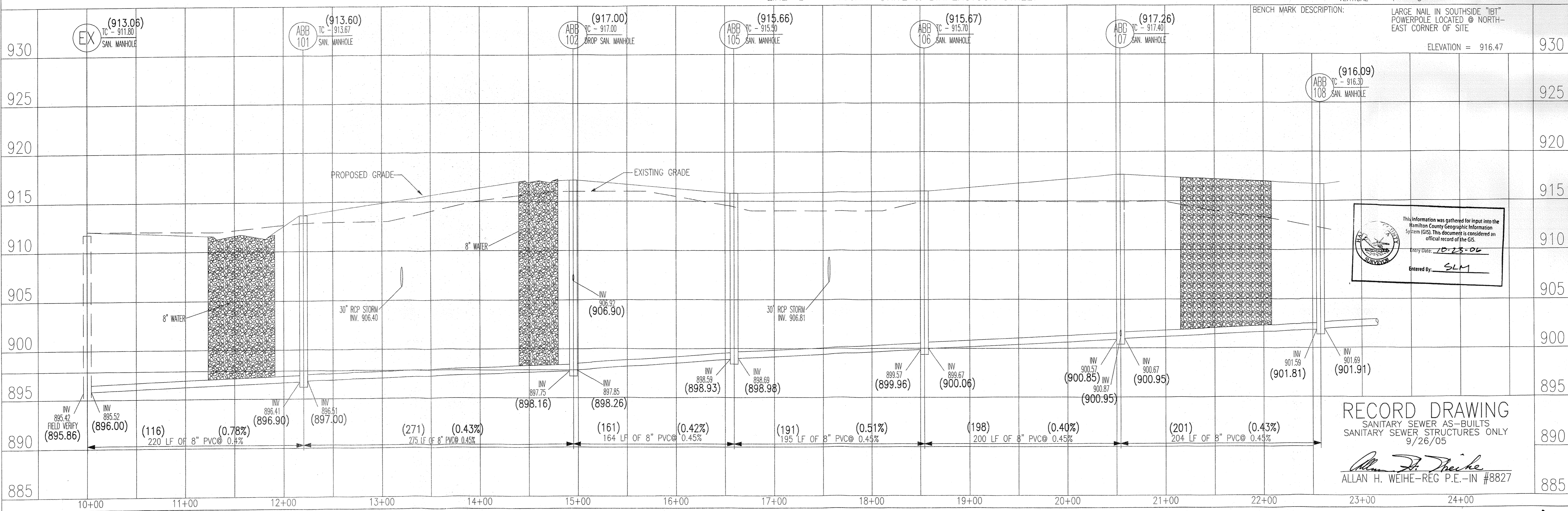
NOTES:  
 ALL CASTINGS TO BE HEENAH R-1642A SELF SEALING OR EQUAL.  
 LENGTHS OF PIPES INDICATED ARE FROM CENTER TO CENTER OF STRUCTURES AND ARE NOT ACTUAL PIPE LENGTHS.  
 CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PERMIT ISSUING AGENCIES WITHIN THE TIME SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING CONSTRUCTION.  
 GRANULAR BACKFILL REQUIRED

PLAN SCALE: 1" = 50'  
 PROFILE SCALES: HORIZONTAL - 1" = 50'  
 VERTICAL - 1" = 5'

REVISIONS AND DATES

Designed by:	CAK
Drawn by:	KRG
Checked by:	WC
Approved by:	KJK

ABERDEN BEND SUBDIVISION  
 131st & SHELBORNE ROAD, CARMEL INDIANA  
 SANITARY SEWER PLAN & PROFILE



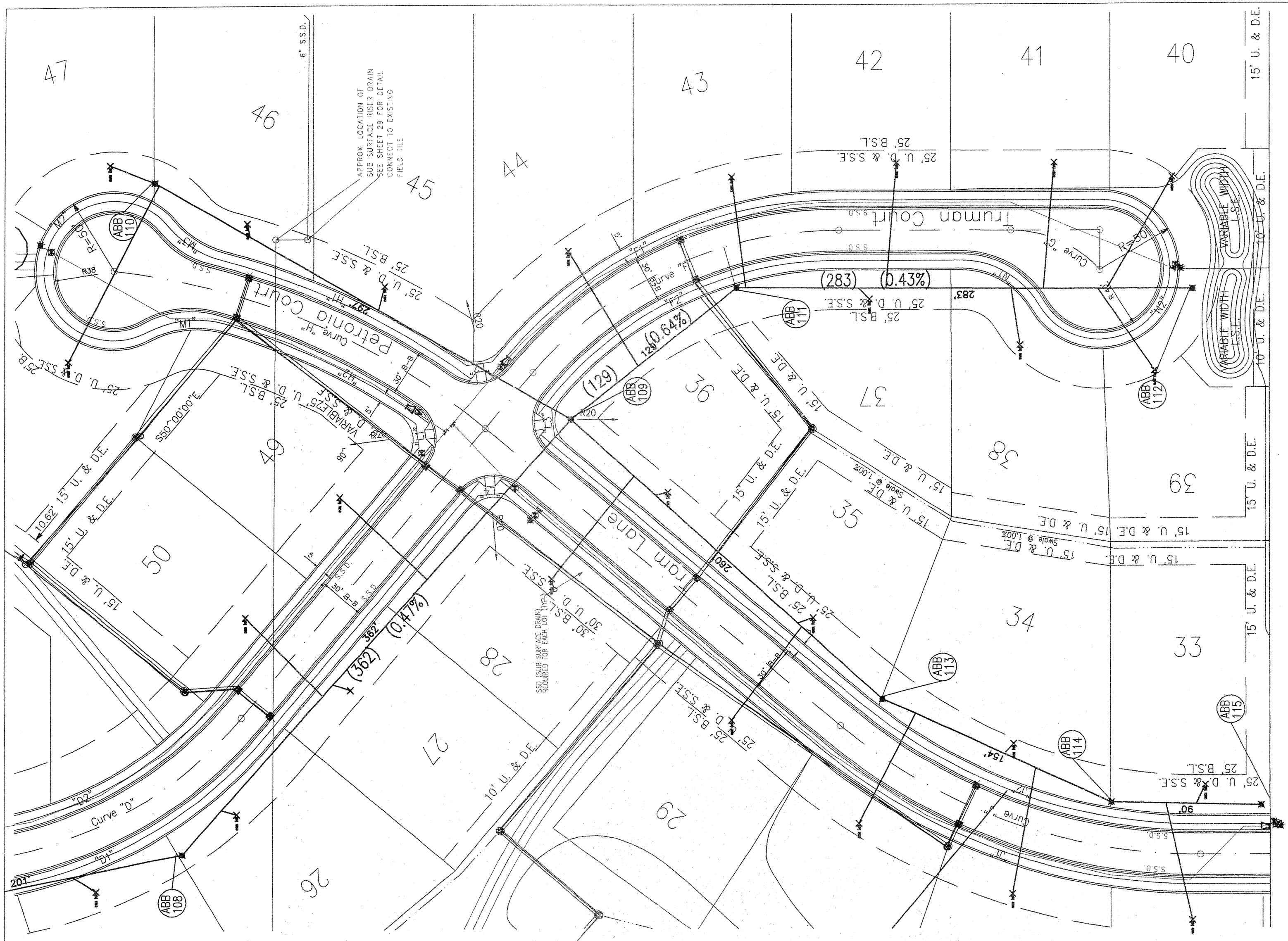
Information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.  
 Entry Date: 10-28-06  
 Entered By: SLM

**RECORD DRAWING**  
 SANITARY SEWER AS-BUILTS  
 SANITARY SEWER STRUCTURES ONLY  
 9/26/05  
 Allan H. Weihe  
 ALLAN H. WEIHE-REG. P.E.-IN #8827

PREPARED BY:  
**Mid-States ENGINEERING**  
 9615 E. 14th St, Suite 6  
 Noblesville, IN 46060  
 (317) 776-8865 Phone  
 (317) 776-8866 Fax

PREPARED FOR:  
 EQUICOR  
 900 NORTH MERIDIAN, SUITE 202  
 INDIANAPOLIS, IN 46260

DATE: JAN. 27, 2005  
 SCALE: AS NOTED  
 PROJECT NO. 122-0274  
 SHEET NO. 15 OF 35



ASBUILTS PREPARED BY:  
**WEIHE ENGINEERS INC.**

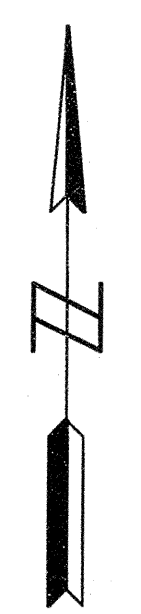
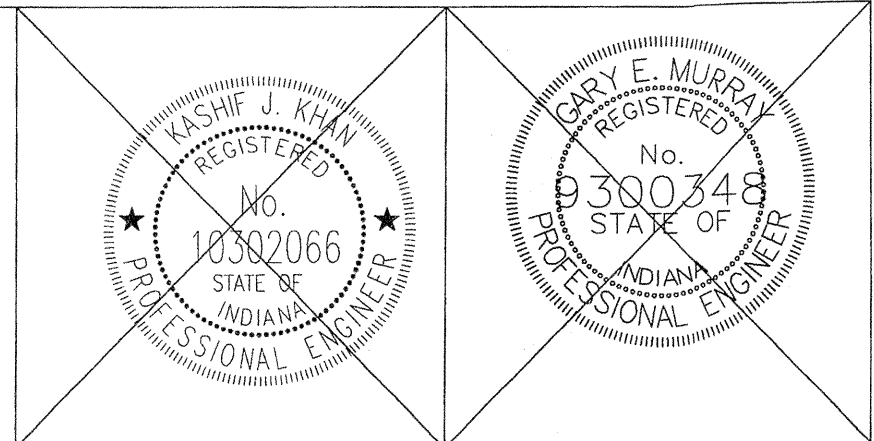
10505 NORTH COLLEGE AVENUE 317.846.6611  
 INDIANAPOLIS, INDIANA 46280 FAX 317.843.0546  
 WWW.WEIHE.NET TOLL FREE 800.452.6408

ALLAN H. WEIHE, P.E., L.S. - PRESIDENT  
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**RECORD DRAWING**

SANITARY SEWER AS-BUILTS  
 SANITARY SEWER STRUCTURES ONLY  
 9/26/05

*Allan H. Weihe*  
 ALLAN H. WEIHE-REG P.E.-IN #8827



DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
CAK	KRG	WC	KJK

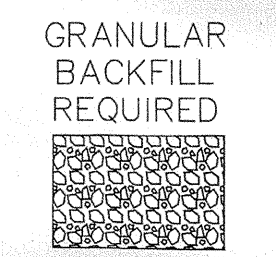
REVISIONS AND DATES

ABERDEEN BEND SUBDIVISION  
 131st & SHELBORNE ROAD, CARMEL INDIANA  
 SANITARY SEWER PLAN & PROFILE

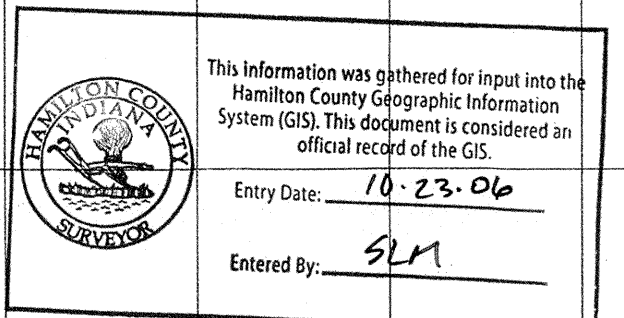
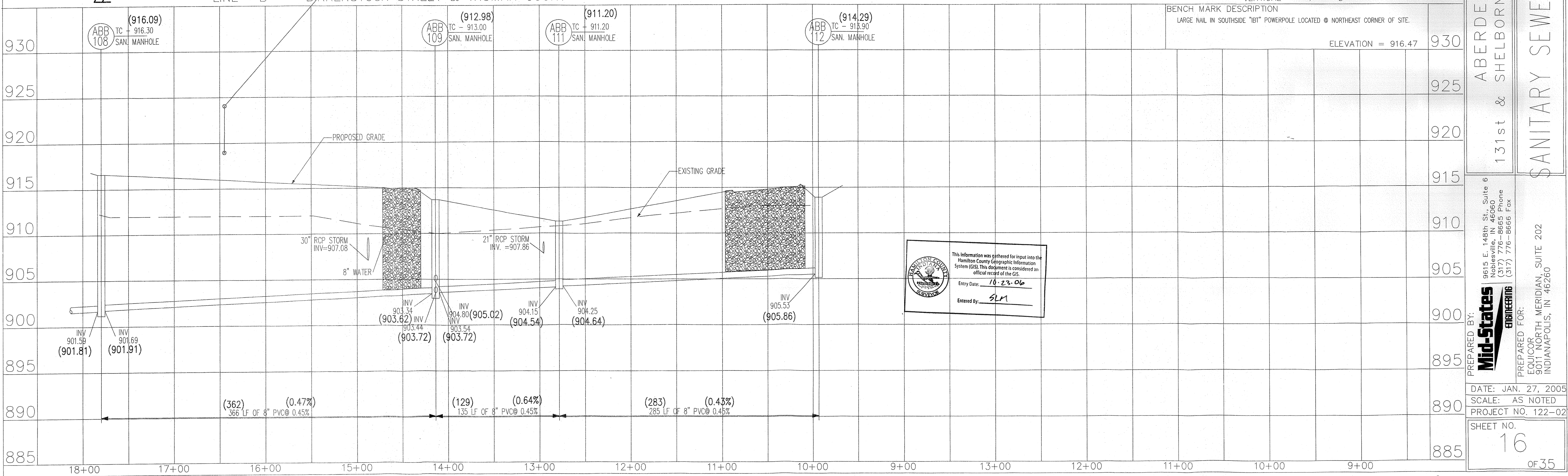
NOTES:  
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 LENGTHS OF PIPES INDICATED ARE FROM CENTER TO CENTER OF STRUCTURES AND ARE NOT ACTUAL PIPE LENGTHS.

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PLAN SCALE: 1" = 50'  
 PROFILE SCALES: HORIZONTAL - 1" = 50'  
 VERTICAL - 1" = 5'



BENCH MARK DESCRIPTION  
 LARGE NAIL IN SOUTHWEST "BT" POWERPOLE LOCATED @ NORTHEAST CORNER OF SITE.  
 ELEVATION = 916.47



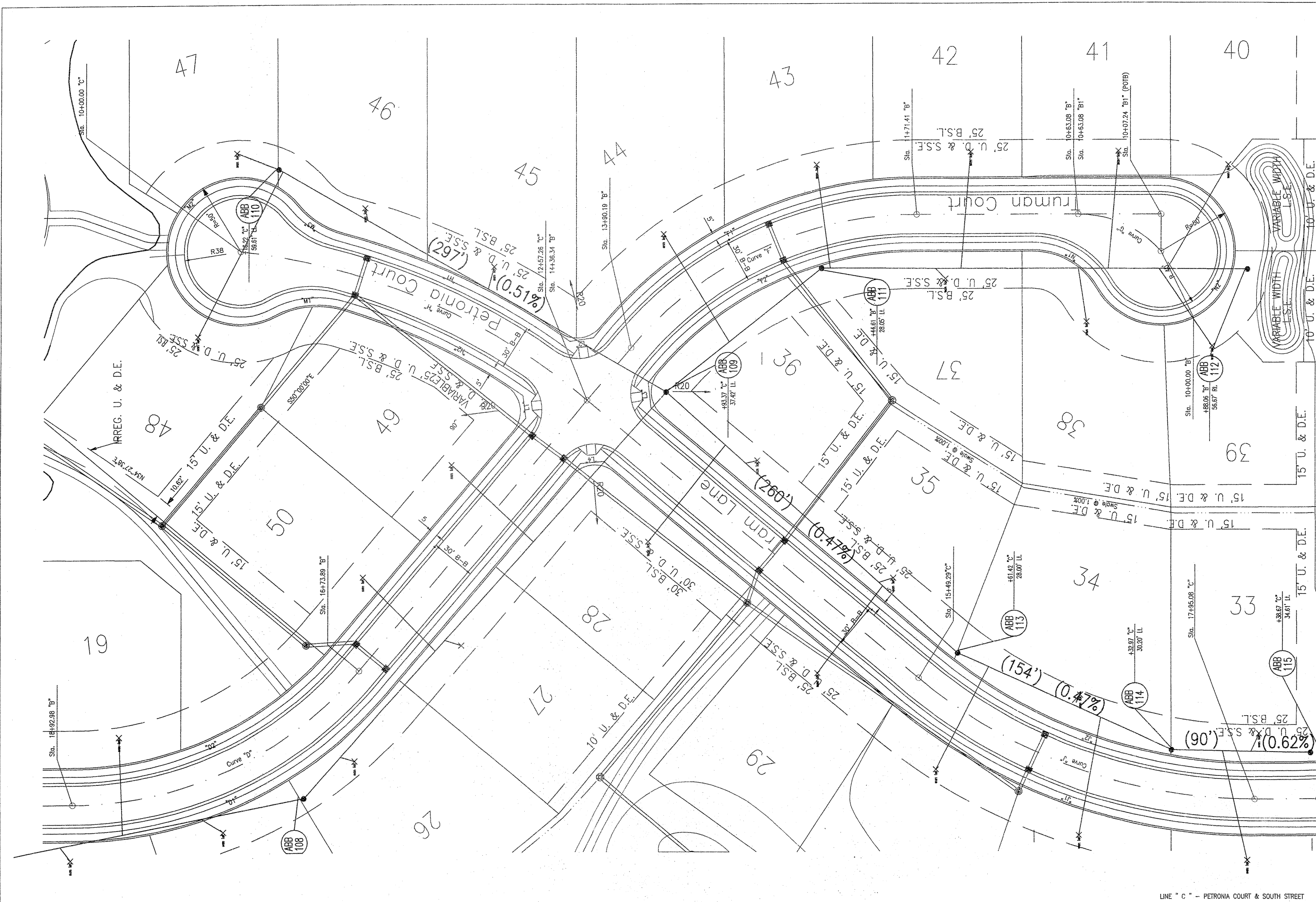
PREPARED BY: Mid-States Engineering  
 9615 E. 148th St., Suite 6  
 Noblesville, IN 46060  
 (317) 776-8665 Phone  
 (317) 776-8666 Fax

PREPARED FOR: EQUICOR  
 901 NORTH MERIDIAN, SUITE 202  
 INDIANAPOLIS, IN 46260

DATE: JAN. 27, 2005  
 SCALE: AS NOTED  
 PROJECT NO. 122-0274

SHEET NO. 16  
 OF 35

W050183



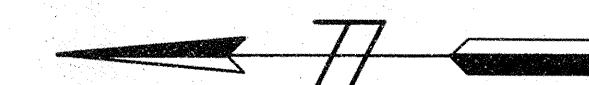
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**WEIHE ENGINEERS INC.**

10505 NORTH COLLEGE AVENUE  
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 WWW.WEIHENGINEERS.COM  
 317.846.6611  
 FAX 317.843.0546  
 TOLL FREE 800.452.6408

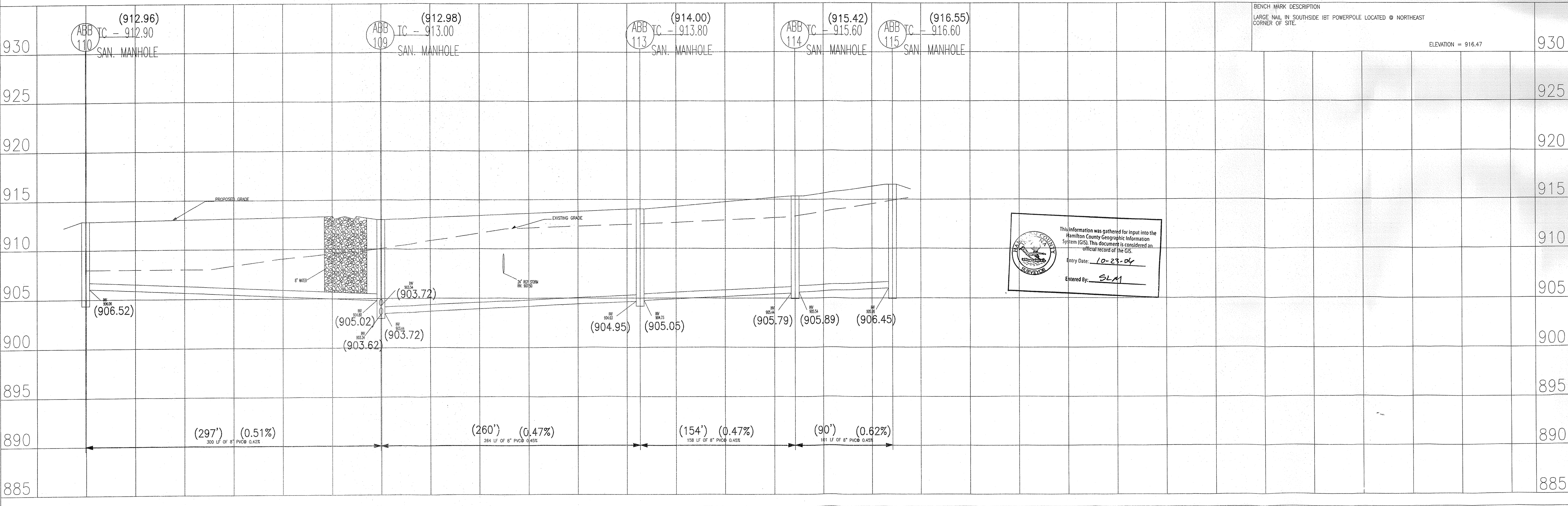
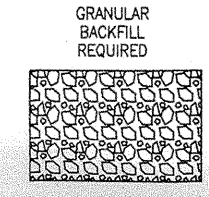
ALLAN H. WEIHE, P.E., L.S. - PRESIDENT  
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RECORD DRAWING  
 SANITARY SEWER AS-BUILTS  
 SANITARY SEWER STRUCTURES ONLY  
 9/26/05

*Allan H. Weihe*  
 ALLAN H. WEIHE-REG. P.E.-IN #8827



NOTES:  
 ALL STRUCTURES TO BE MEEHAW 8-1643A SELF SEALING OR EQUAL.  
 ELEVATIONS OF PIPES LOCATED ARE FROM CENTER  
 TO CENTER OF STRUCTURES AND ARE NOT ACTUAL.  
 CONTRACTOR SHALL BE RESPONSIBLE FOR  
 CONTACTING ALL PERMIT ISSUING AGENCIES  
 WITHIN THE TIME SPECIFIED BY THAT AGENCY  
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 PLAN SCALE: 1" = 50'  
 PROFILE SCALE: HORIZONTAL - 1" = 50'  
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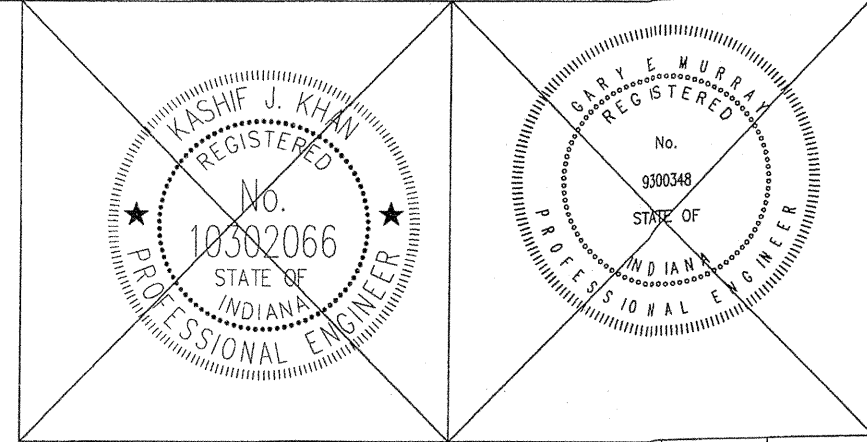
This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.  
 Entry Date: 10-23-04  
 Entered By: SLM

BENCH MARK DESCRIPTION  
 LARGE NAIL IN SOUTHWEST CORNER OF NORTH EAST CORNER OF SITE.  
 ELEVATION = 916.47

ABERDEEN BEND SUBDIVISION  
 131st & SHELBORNE ROAD, CARMEL INDIANA  
 SANITARY SEWER PLAN & PROFILE

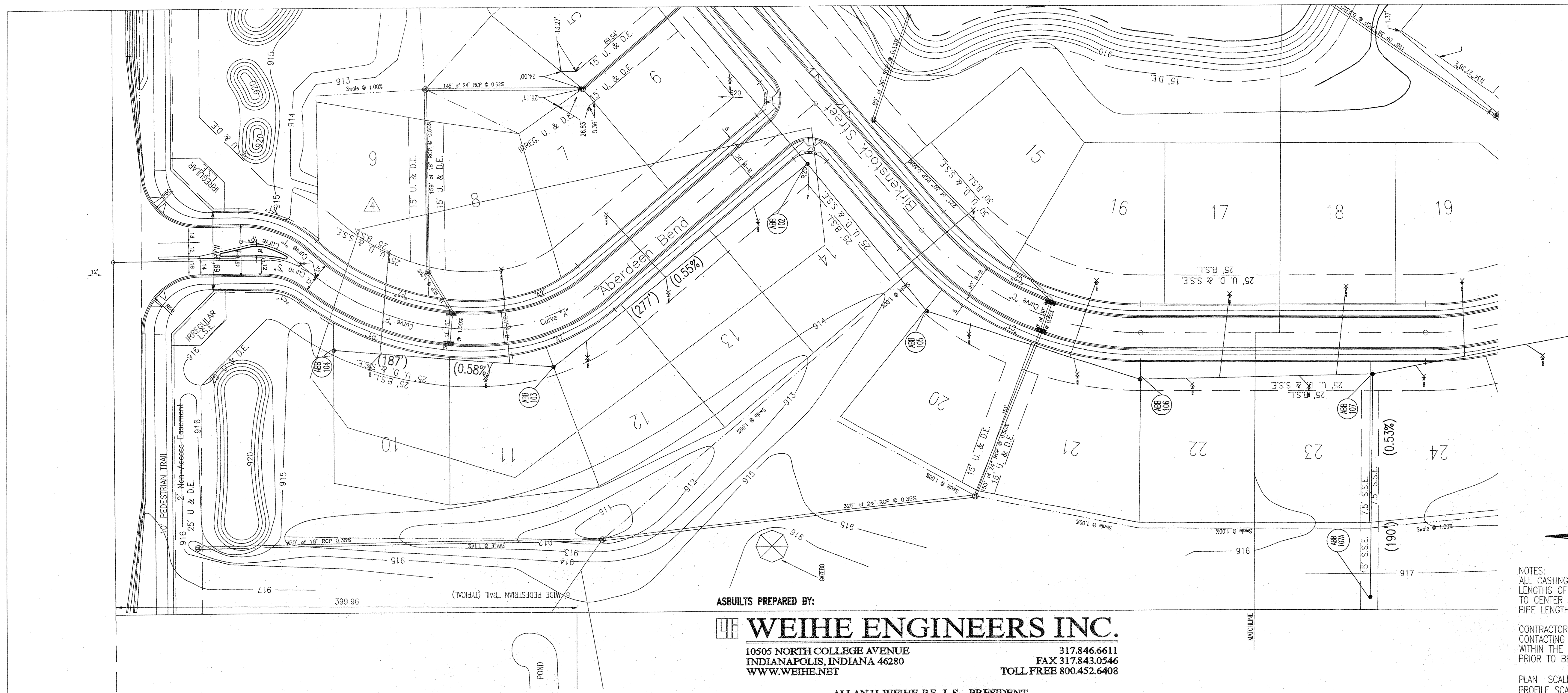
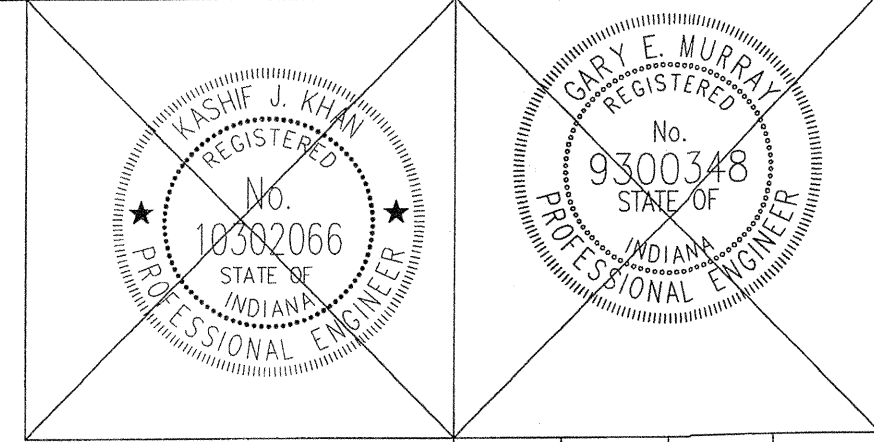
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 9815 E. 149th St., Suite 6  
 Noblesville, IN 46060  
 (317) 771-8665 Phone  
 (317) 771-8666 Fax

DATE: JAN. 27, 2005  
 SCALE: AS NOTED  
 PROJECT NO. 122-0208  
 SHEET NO. 17 OF 35



DESIGNED BY	CAK
DRAWN BY	HRG
CHECKED BY	WC
APPROVED BY	AW

W050183



**RECORD DRAWING**  
 SANITARY SEWER AS-BUILTS  
 SANITARY SEWER STRUCTURES ONLY  
 9/26/05  
*Allan H. Weihe*  
 ALLAN H. WEIHE-REG P.E.-IN #8827

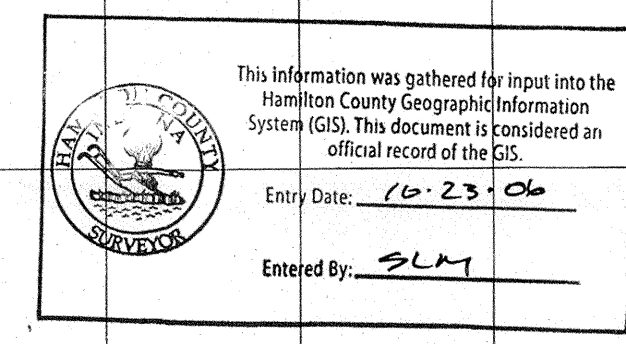
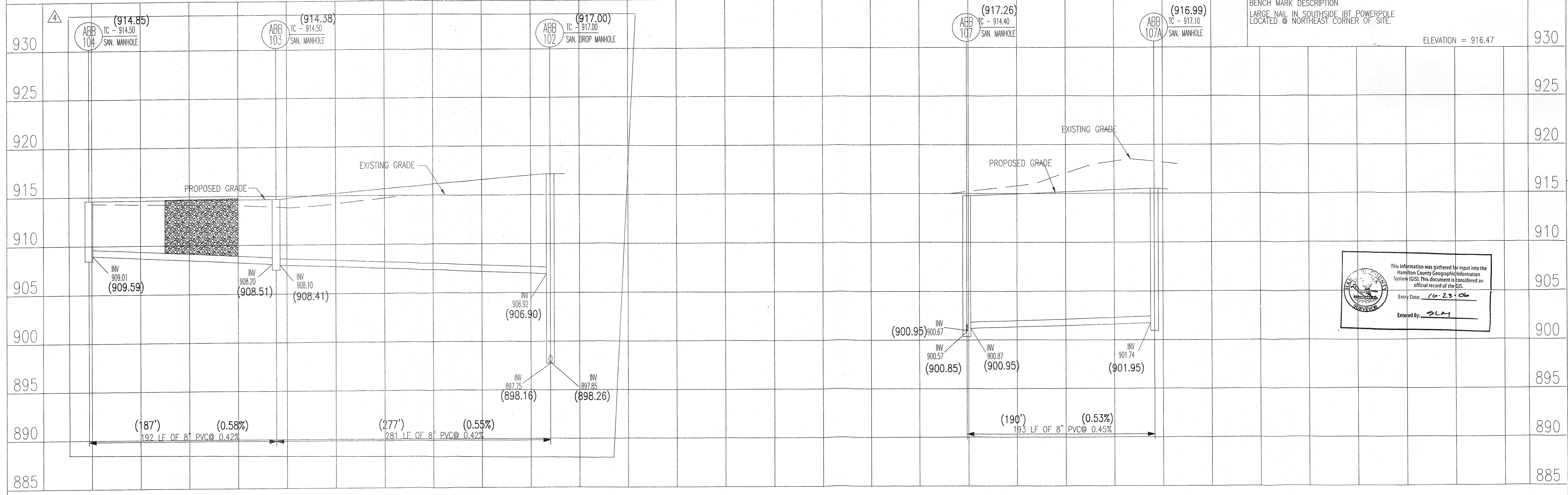
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 GRANULAR BACKFILL REQUIRED

PLAN SCALE: 1" = 50'  
 PROFILE SCALE: HORIZONTAL - 1" = 50', VERTICAL - 1" = 5'

ASBUILTS PREPARED BY:  
**WEIHE ENGINEERS INC.**  
 10505 NORTH COLLEGE AVENUE INDIANAPOLIS, INDIANA 46280 WWW.WEIHE.NET  
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ALLAN H. WEIHE, P.E., L.S. - PRESIDENT  
 CIVIL ENGINEERS LAND SURVEYORS LANDSCAPE ARCHITECTS

LINE "A" - ABERDEEN BEND



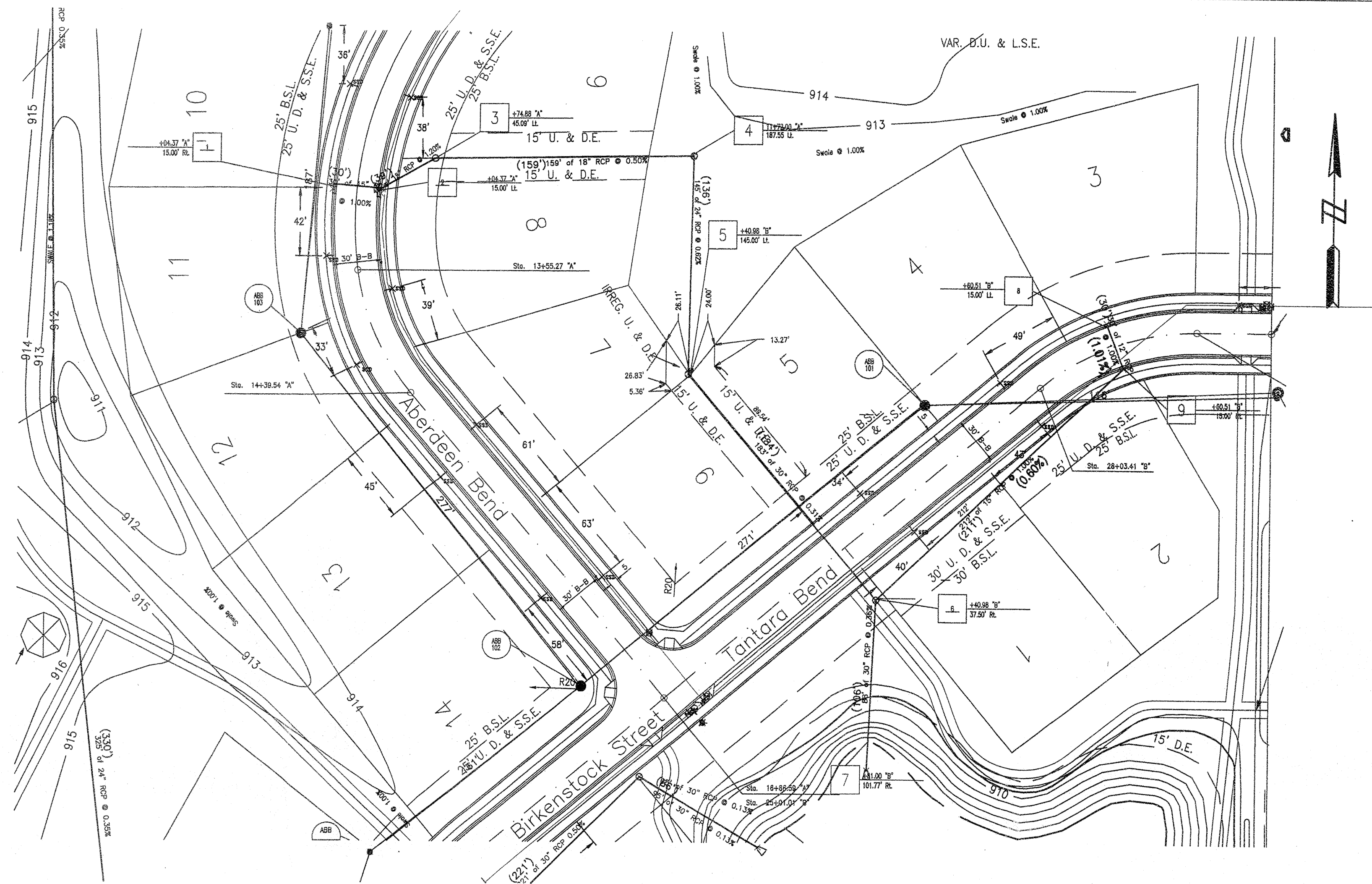
ABERDEEN BEND SUBDIVISION  
 131st & SHELBORNE ROAD, CARMEL, INDIANA  
 SANITARY SEWER PLAN & PROFILE

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 (317) 776-8865 Phone (317) 776-8666 Fax

PREPARED FOR:  
 EQUICOR  
 9011 NORTH MERIDIAN, SUITE 202 INDIANAPOLIS, IN 46260

DATE: JAN. 27, 2005  
 SCALE: AS NOTED  
 PROJECT NO. 122-0274  
 SHEET NO. 18 OF 35



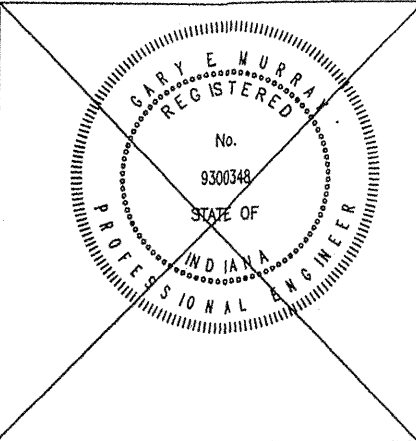
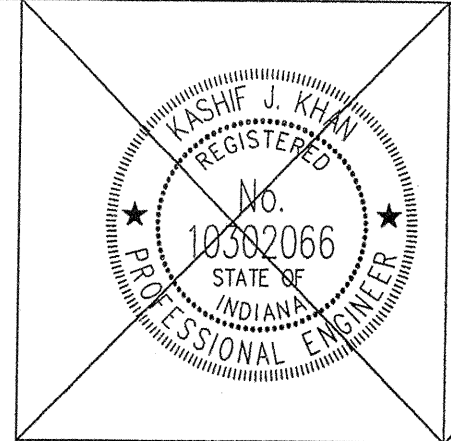


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**RECORD DRAWING**  
 STORM SEWER AS-BUILTS  
 STORM SEWER STRUCTURES ONLY  
 9/26/05

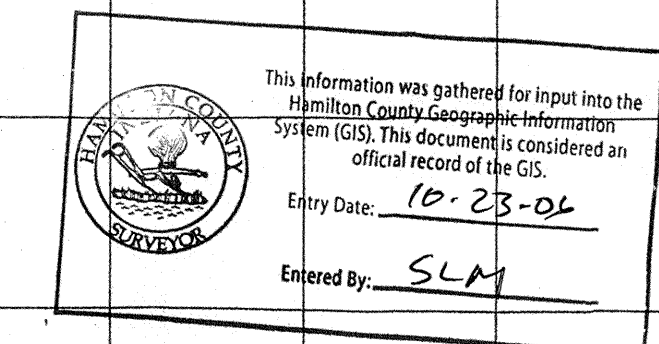
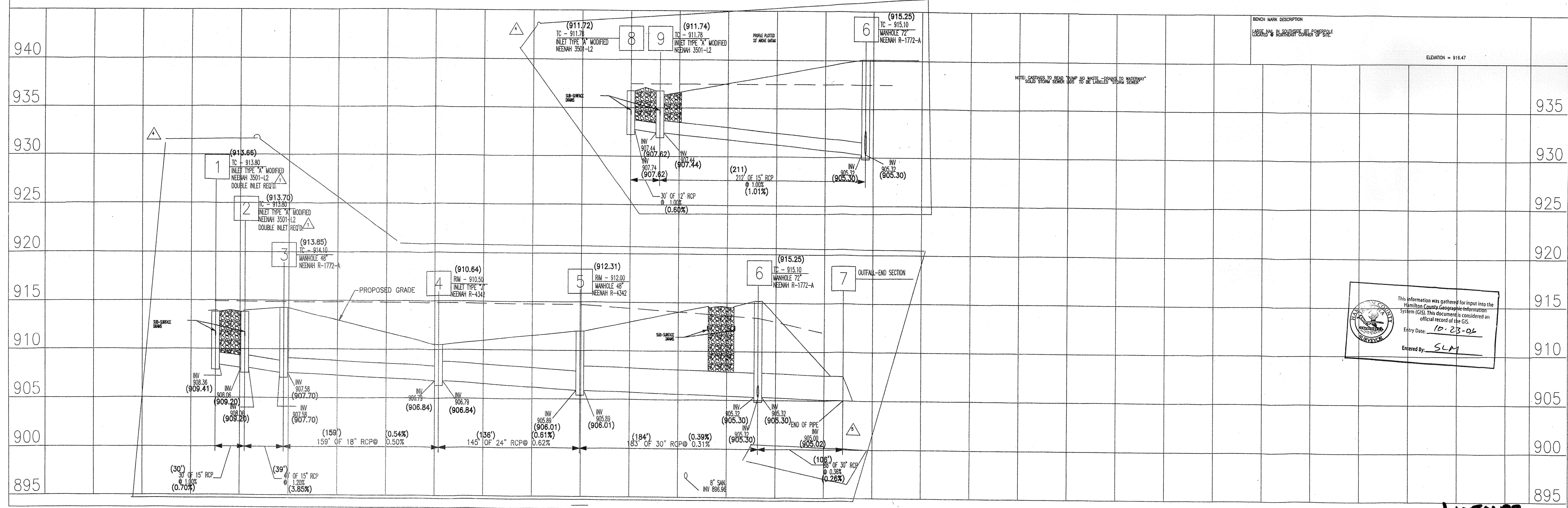
*Allan H. Weihe*  
 ALLAN H. WEIHE - REG. P.E. - IN #8827

NOTES:  
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 CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO BEGINNING CONSTRUCTION.  
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 PROFILE SCALE: HORIZONTAL - 1" = 50' VERTICAL - 1" = 5'

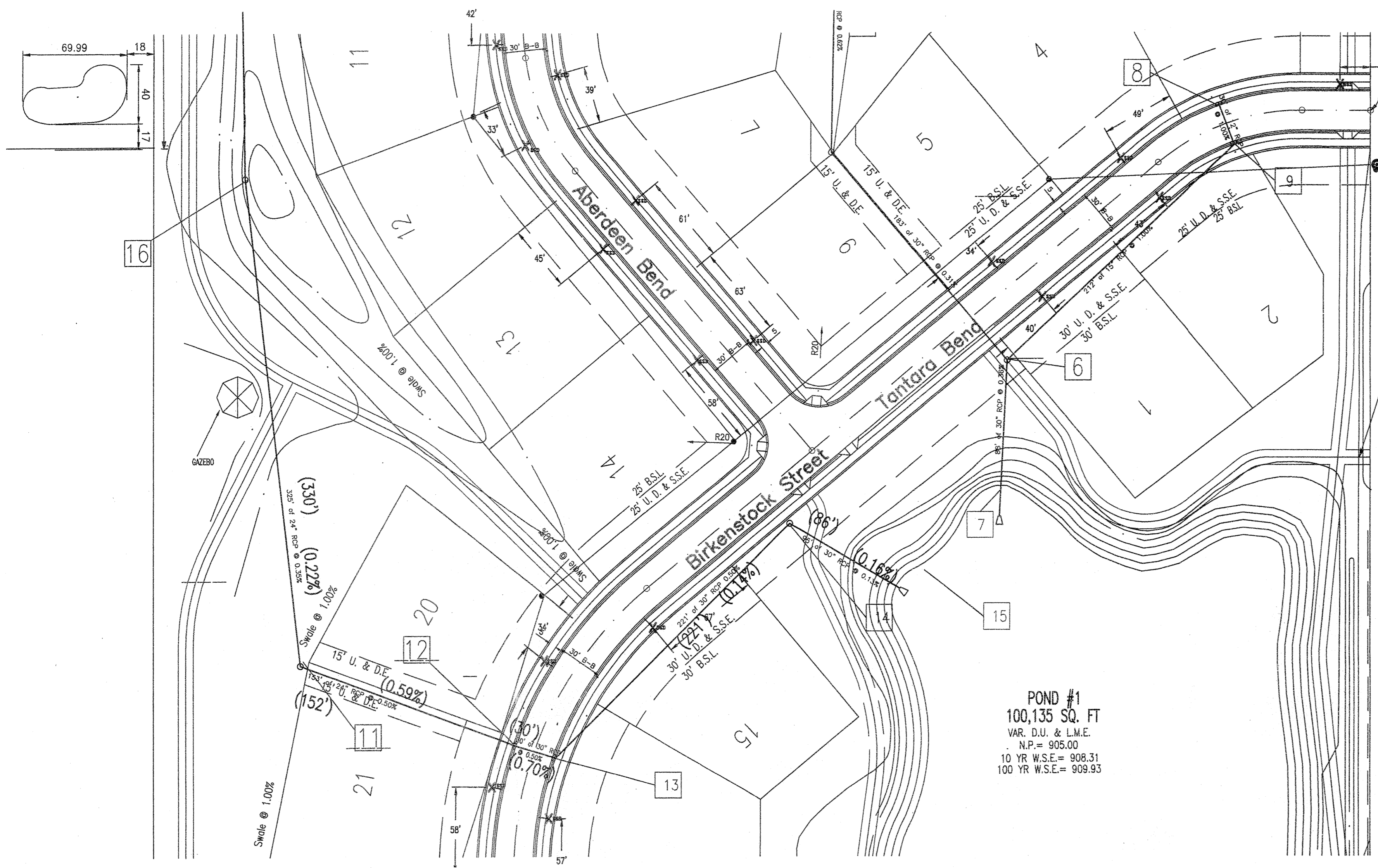


DESIGNED BY:	CHK:
DRAWN BY:	ERC:
CHECKED BY:	WC:
APPROVED BY:	KJK:
REVISIONS AND DATES:	
Revised per Comments:	
Engineering Comments:	
Revised Pipe Lengths Per Field Request:	
06/17/05	
09/09/05	

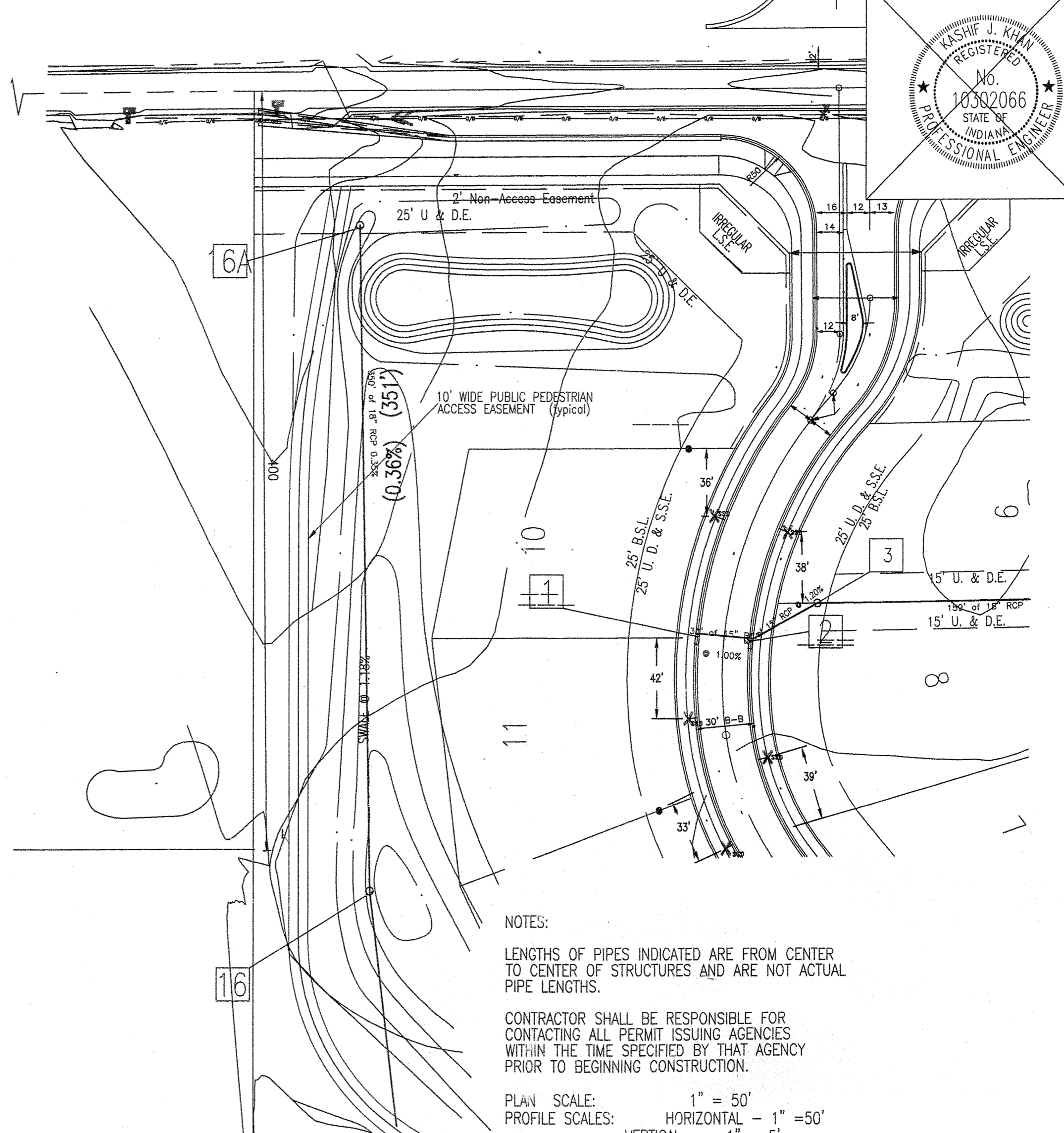
ABERDEEN BEND SUBDIVISION  
 131st & SHELBORNE ROAD, CARMEL INDIANA  
**STORM SEWER PLAN & PROFILE**



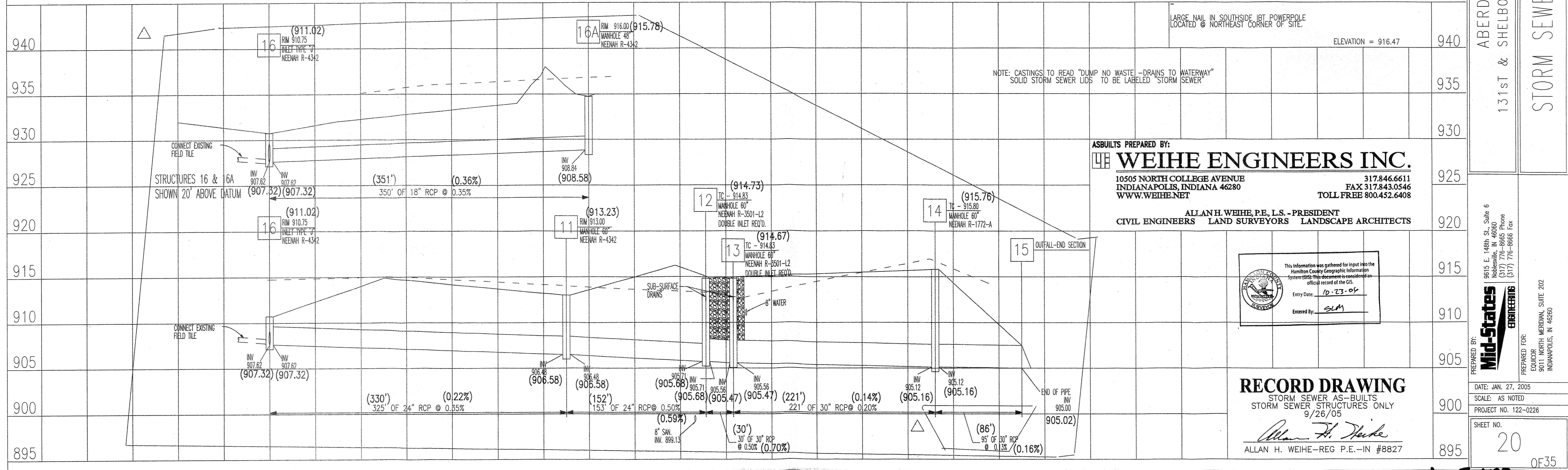
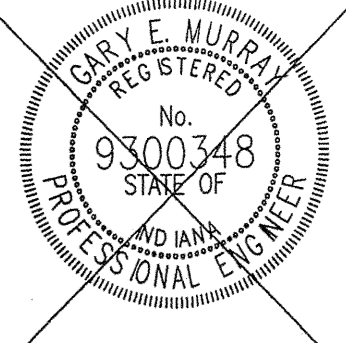
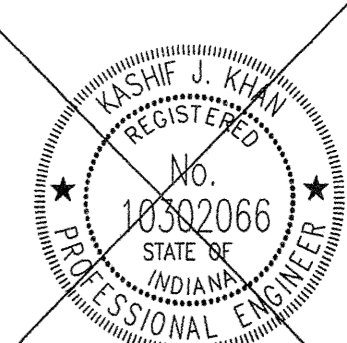
PREPARED BY: **Mid-States ENGINEERING**  
 DATE: JAN. 27, 2005  
 SCALE: AS NOTED  
 PROJECT NO. 121-0214  
 SHEET NO. **19** OF 35



POND #1  
100,135 SQ. FT.  
VAR. D.U. & L.M.E.  
N.P. = 905.00  
10 YR W.S.E. = 908.31  
100 YR W.S.E. = 909.93



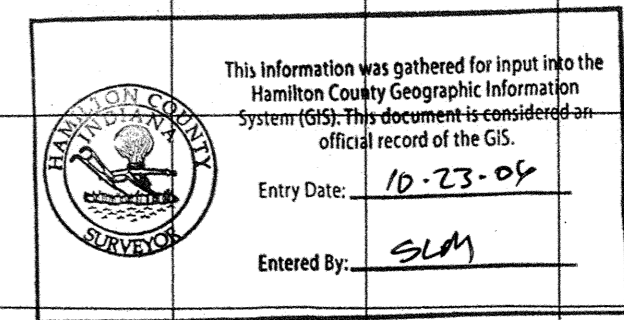
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PLAN SCALE: 1" = 50'  
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VERTICAL - 1" = 5'



NOTE: CASTINGS TO READ "DUMP NO WASTE - DRAINS TO WATERWAY"  
SOLID STORM SEWER LIDS TO BE LABELED "STORM SEWER"

LARGE NAIL IN SOUTHSIDE IRT POWERPOLE  
LOCATED @ NORTHEAST CORNER OF SITE.  
ELEVATION = 916.47

ASBUILTS PREPARED BY:  
**WEIHE ENGINEERS INC.**  
10505 NORTH COLLEGE AVENUE  
INDIANAPOLIS, INDIANA 46280  
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317.846.6611  
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TOLL FREE 800.452.6408  
ALLAN H. WEIHE, P.E., L.S. - PRESIDENT  
CIVIL ENGINEERS LAND SURVEYORS LANDSCAPE ARCHITECTS



**RECORD DRAWING**  
STORM SEWER AS-BUILTS  
STORM SEWER STRUCTURES ONLY  
9/26/05  
*Allan H. Weihe*  
ALLAN H. WEIHE-REG P.E.-IN #8827

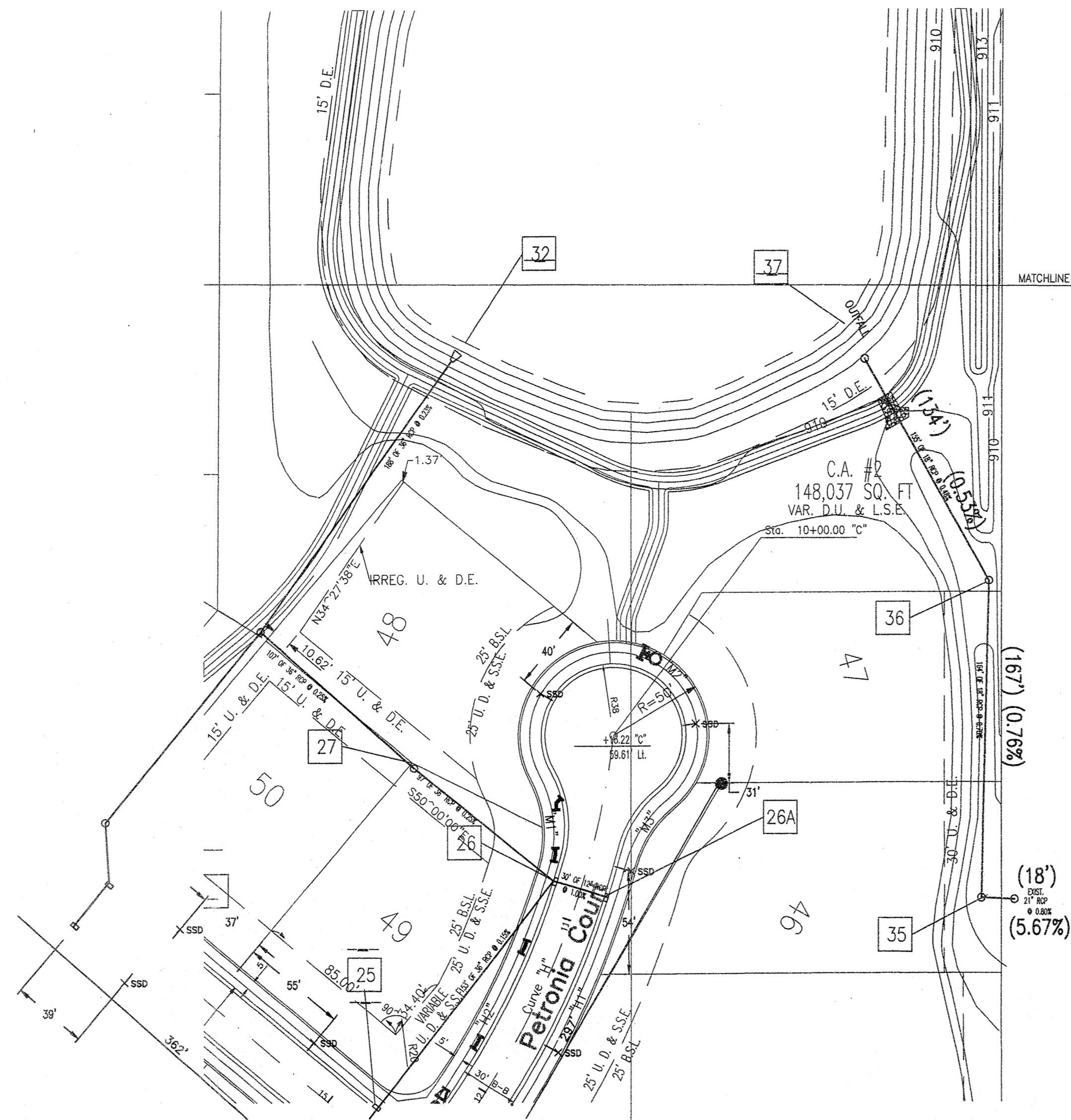
ABERDEEN BEND SUBDIVISION  
131st & SHELBORNE ROAD, CARMEL INDIANA  
STORM SEWER PLAN AND PROFILE

PREPARED BY:  
**Mid-States ENGINEERING**  
9815 E. 148th St. Suite 6  
Noblesville, IN 46060  
(317) 776-8665 Phone  
(317) 776-8666 Fax

PREPARED FOR:  
EQUICOR  
9011 NORTH MERIDIAN, SUITE 202  
INDIANAPOLIS, IN 46260

DATE: JAN. 27, 2005  
SCALE: AS NOTED  
PROJECT NO. 122-0226  
SHEET NO.  
**20**  
OF 35





**RECORD DRAWING**

STORM SEWER AS-BUILTS  
STORM SEWER STRUCTURES ONLY  
9/26/05

*Allan H. Weihe*  
ALLAN H. WEIHE-REG. P.E.-IN #8827

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NOTES:

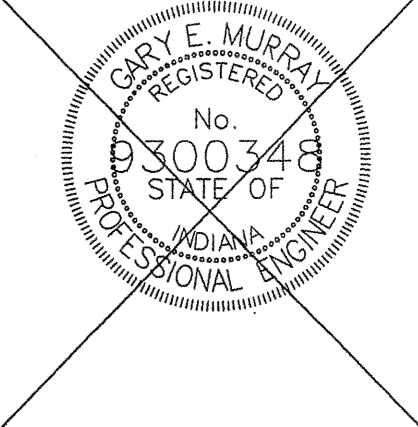
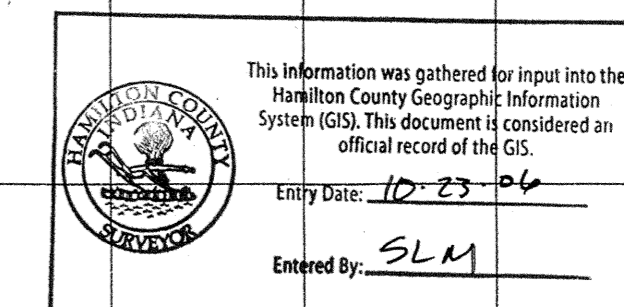
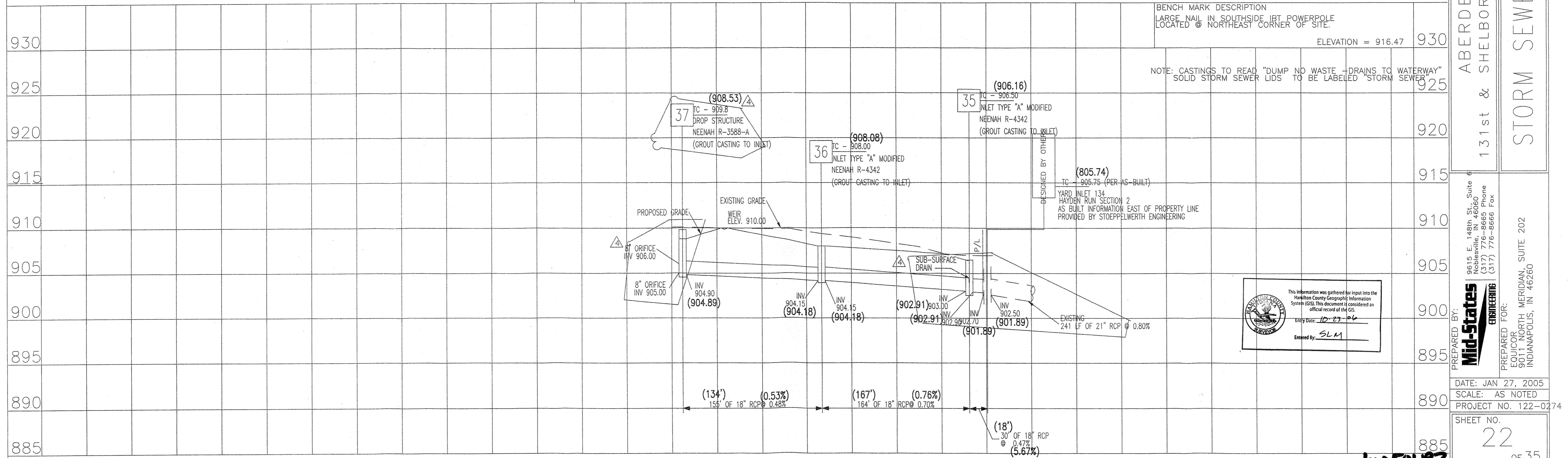
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BENCH MARK DESCRIPTION  
LARGE NAIL IN SOUTHSIDE 1BT POWERPOLE  
LOCATED @ NORTHEAST CORNER OF SITE.  
ELEVATION = 916.47

NOTE: CASTINGS TO READ "DUMP NO WASTE - DRAINS TO WATERWAY"  
SOLID STORM SEWER LIDS TO BE LABELED "STORM SEWER"



Designed by: CAK  
Drawn by: KRG  
Checked by: WC  
Approved by: KJK

REVISIONS AND DATES

No.	Revised per	Comments
1	05/19/05	Crossroad Engineering

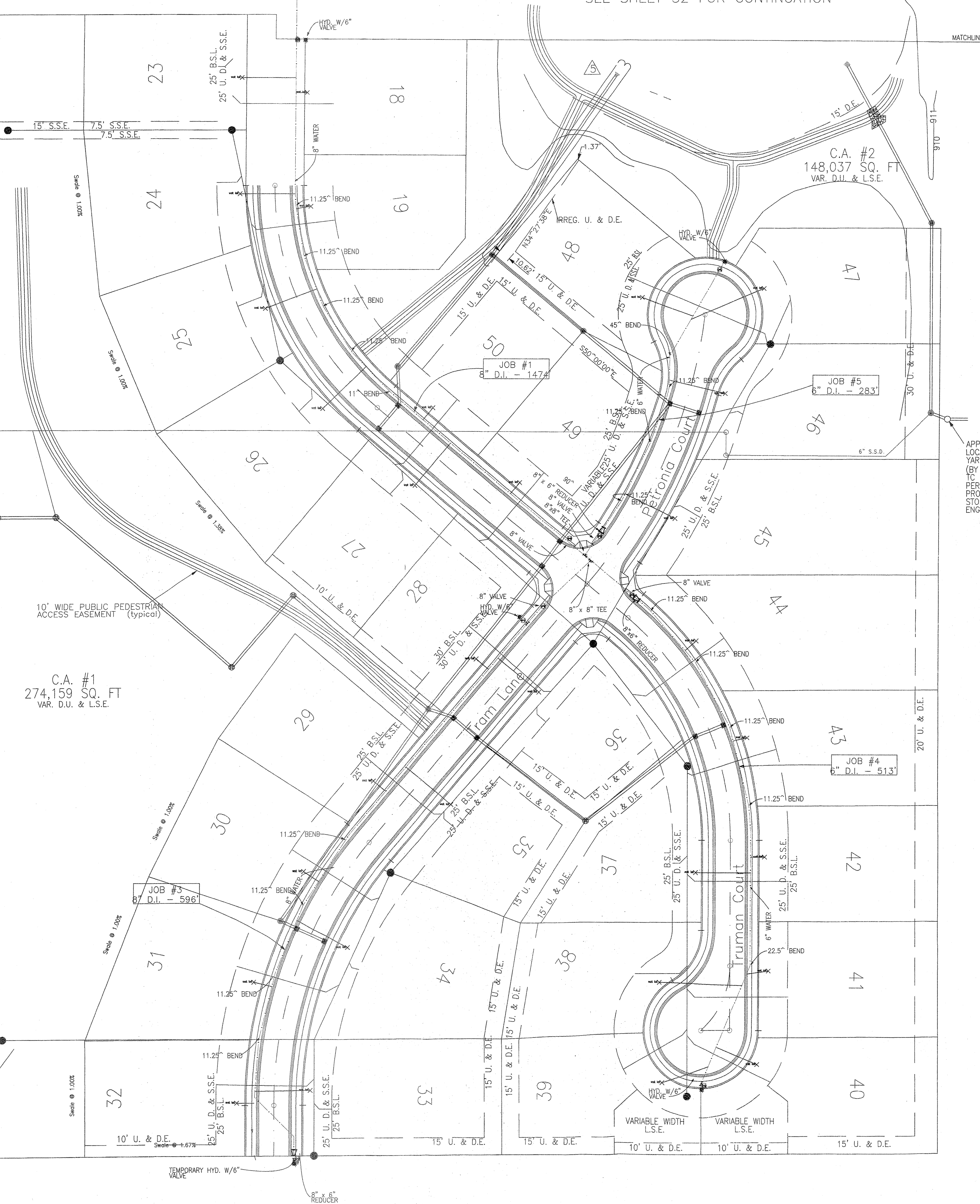
ABERDEEN BEND SUBDIVISION  
131st & SHELBORNE ROAD, CARMEL INDIANA  
STORM SEWER PLAN & PROFILE

PREPARED BY: Mid-States Engineering  
9615 E. 148th St., Suite 600  
Carmel, IN 46033  
Phone: (317) 776-8665  
Fax: (317) 776-8666

DATE: JAN 27, 2005  
SCALE: AS NOTED  
PROJECT NO. 122-0274

SHEET NO. 22 OF 35

SEE SHEET 32 FOR CONTINUATION



City of Carmel Water Utilities  
Project Legend

Job No.	Street Name	Pipe Size	Pipe Type	Pipe Total	Pressure Class
1	TANTARA BEND & BIRKENSTOCK STREET	8"	D.I.	1474'	350
2	ABERDEEN BEND	8"	D.I.	737'	350
3	TRAM LANE	8"	D.I.	596'	350
4	TRUMAN COURT	8"	D.I.	513'	350
5	PETRONIA COURT	6"	D.I.	283'	350

LEGEND

EXISTING      PROPOSED

- STORM SEWER
- SANITARY SEWER
- SANITARY LATERAL
- MANHOLE
- INLET
- END SECTION
- FLOW ARROW
- CONTOUR
- SPOT ELEVATION
- UNDERDRAIN
- WATER SERVICE LINE
- WATER LINE
- GATE VALVE
- FIRE HYDRANT WITH VALVE
- RESTRAINED JOINT BEND
- RESTRAINED JOINT TEE
- REDUCER (SIZE SHOWN)
- SWALE
- POWER POLE
- BURIED TELEPHONE LINE
- OVERHEAD ELECTRIC LINE
- EMERGENCY STORM OVERFLOW ROUTE

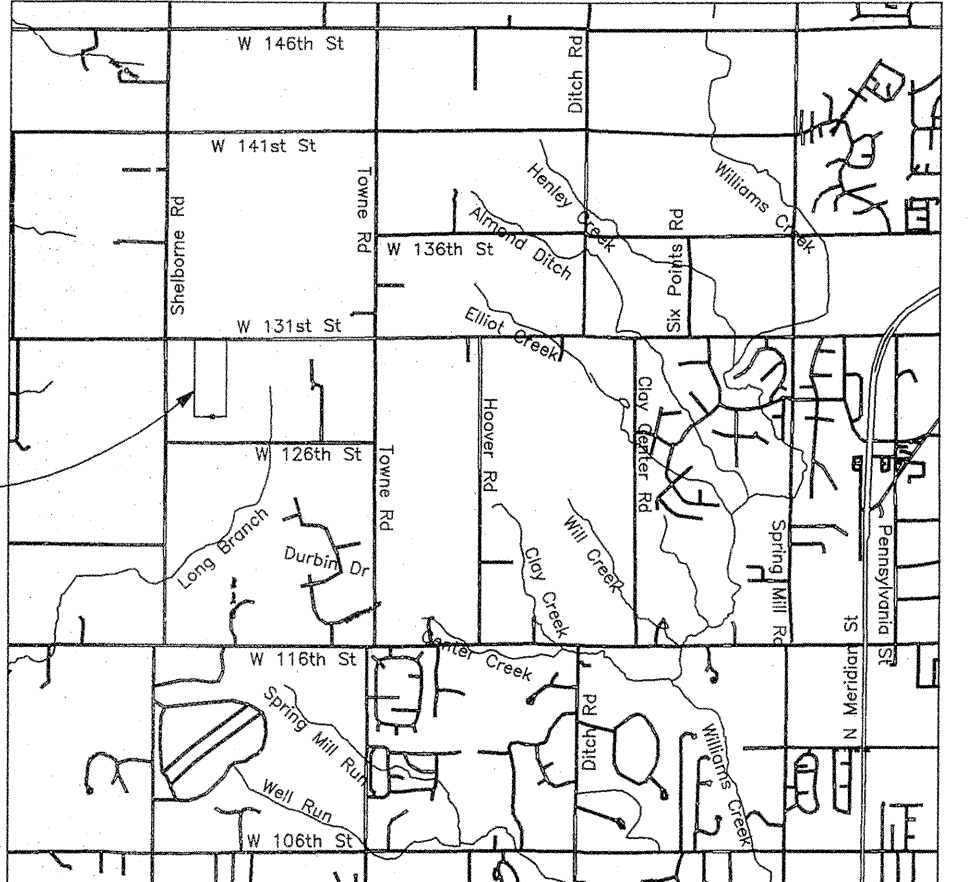
NOTE: THERE ARE TO BE NO WATER VALVES OR MANHOLES WITHIN THE PAVEMENT, CURBS OR SIDEWALKS.

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

Entry Date: 10-23-06

Entered By: *SLM*

- NOTES:
- ALL DUCTILE IRON WATERMAINS SHALL BE BEDDED IN SAND, FROM THE BOTTOM OF THE TRENCH TO 12" ABOVE THE PIPE.
  - TRACER WIRE MUST BE INSTALLED WITH ALL WATER MAINS.
  - WARNING TAPE MUST BE INSTALLED 12" TO 18" ABOVE THE WATER MAIN.
- WATER SERVICE INSTALLATION:  
CONTRACTOR TO LOCATE THE MIDDLE OF THE LOT AND INSTALL WATER 5' LEFT OF THAT LINE.



ASBUILTS PREPARED BY:  
**WEIHE ENGINEERS INC.**  
10505 NORTH COLLEGE AVENUE  
INDIANAPOLIS, INDIANA 46280  
WWW.WEIHE.NET

317.846.6611  
FAX 317.843.0546  
TOLL FREE 800.452.6408

ALLAN H. WEIHE, P.E., L.S. - PRESIDENT  
CIVIL ENGINEERS    LAND SURVEYORS    LANDSCAPE ARCHITECTS

**RECORD DRAWING**  
WATER AS-BUILTS  
WATER STRUCTURES ONLY  
9/26/05

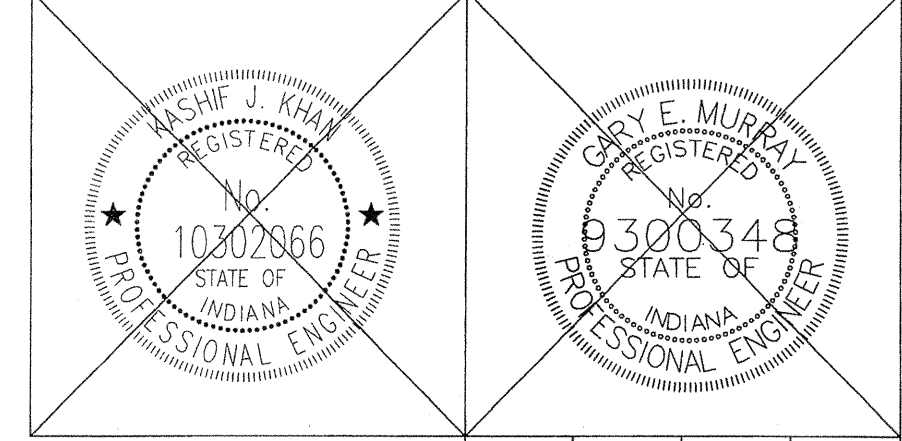
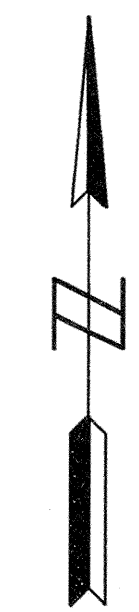
*Allan H. Weihe*  
ALLAN H. WEIHE - REG. P.E. - IN #8827

BENCH MARK DESCRIPTION:  
LARGE NAIL IN SOUTHSIDE "1BT" POWERPOLE  
LOCATED @ NORTHEAST CORNER OF SITE.

ELEVATION = 916.47

1-800-382-5544  
CALL BEFORE YOU DIG

"DON'T DIG BLIND"



DESIGNED BY: *CAK*  
CHECKED BY: *WC*  
APPROVED BY: *KJK*

REVISIONS AND DATES:  
19-05 REVISIONS PER CARMEL UTILITIES  
COMMENTS  
2006/06/28 Pipe Lengths Per Field Req

ABERDEEN BEND SUBDIVISION  
131st & SHELBORNE ROAD, CARMEL, INDIANA

WATER LINE PLAN

PREPARED BY:  
**Mid-States ENGINEERING**  
9615 E. 148th St., Suite 6  
Noblesville, IN 46060  
(317) 776-8665 Phone  
(317) 776-8666 Fax

PREPARED FOR:  
EQUICOR  
9011 NORTH MERIDIAN, SUITE 202  
INDIANAPOLIS, IN 46260

DATE: JAN. 27, 2005  
SCALE: 1" = 50'  
PROJECT NO. 122-0274  
SHEET NO. 33 OF 35

W05103