



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

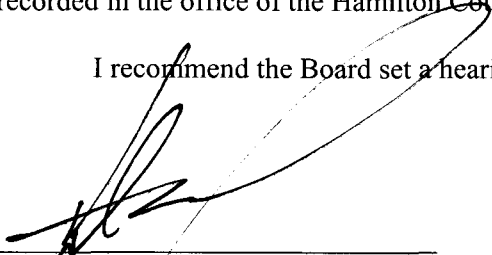
Agent: Fifth Third Bank
Date: June 1, 2005
Number: CIS403935
For: Erosion Control
Amount: \$51,378.00

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.



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.

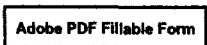
Petitioner believes that the cost, damages and expenses of the proposed improvement will be less than the benefits which will result to the owners of the land likely to be benefited thereby. Petitioner believes the proposed improvements will:

- (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

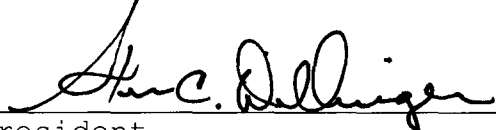


FINDINGS AND ORDER
CONCERNING THE MAINTENANCE OF THE
J. W. Brendle Drain, Aberdeen Bend Arm

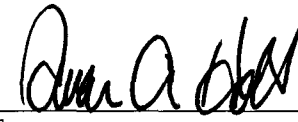
On this **23rd day of January 2006**, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the **J. W. Brendle Drain, Aberdeen Bend Arm**.

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.

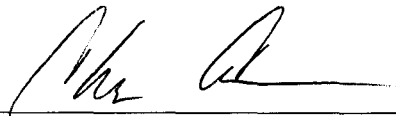
HAMILTON COUNTY DRAINAGE BOARD



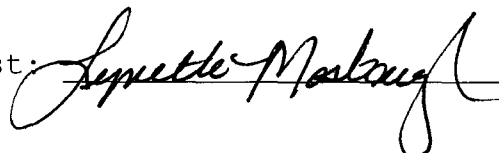
President



Member



Member

Attest: 

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:  Date: 9-27-05

Type or Print Name: Allan H. Weihe

Business Address: 10505 N. College Ave.

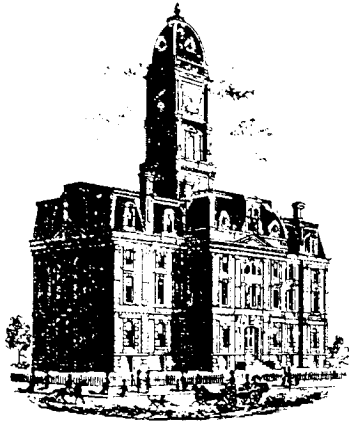
Indianapolis, IN 46280

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
2	SPECIFICATIONS
3-4	SITE PLAN
5-6	GRADING PLAN
7-8	UTILITY PLAN
9-10	EROSION CONTROL PLAN
11	EROSION CONTROL DETAILS
11A	EROSION CONTROL SPECIFICATIONS
11B	EROSION CONTROL SPECIFICATIONS
12-14	STREET CENTERLINE PLAN & PROFILE
15-18	SANITARY SEWER PLAN & PROFILE
19-22	STORM SEWER PLAN & PROFILE
23	MAINTENANCE OF TRAFFIC
24	TRAFFIC CONTROL PLAN
25	ENTRANCE PLAN
26	INTERSECTION & CUL-DE-SAC DETAILS
27-30	CONSTRUCTION DETAILS
31	SANITARY DETAILS
32-33	WATER LINE PLAN
34	WATER LINE DETAILS
35	SANITARY DETAILS

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

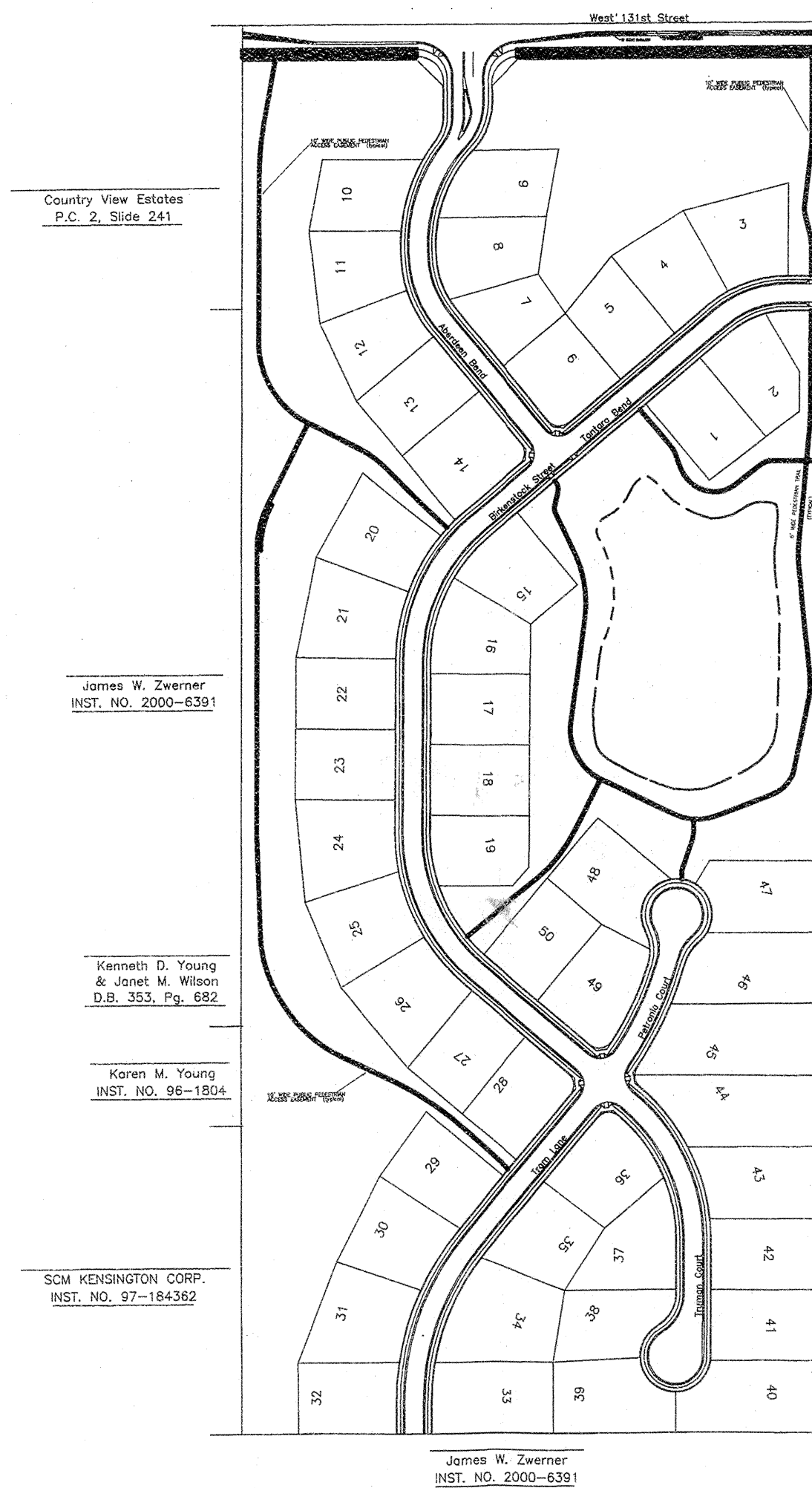
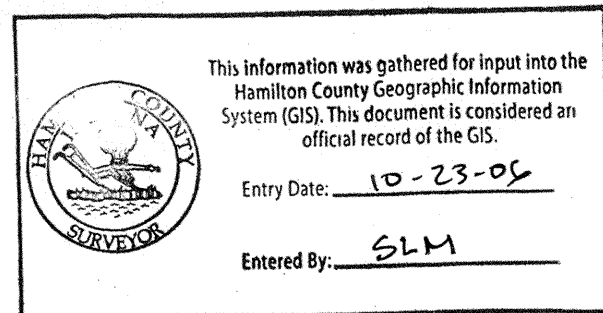
ELECTRIC
Dean Groves
CINERGY
1441 South Guilford
Carmel, Indiana 46032
Tel 581-3052 Fax 581-3031

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.

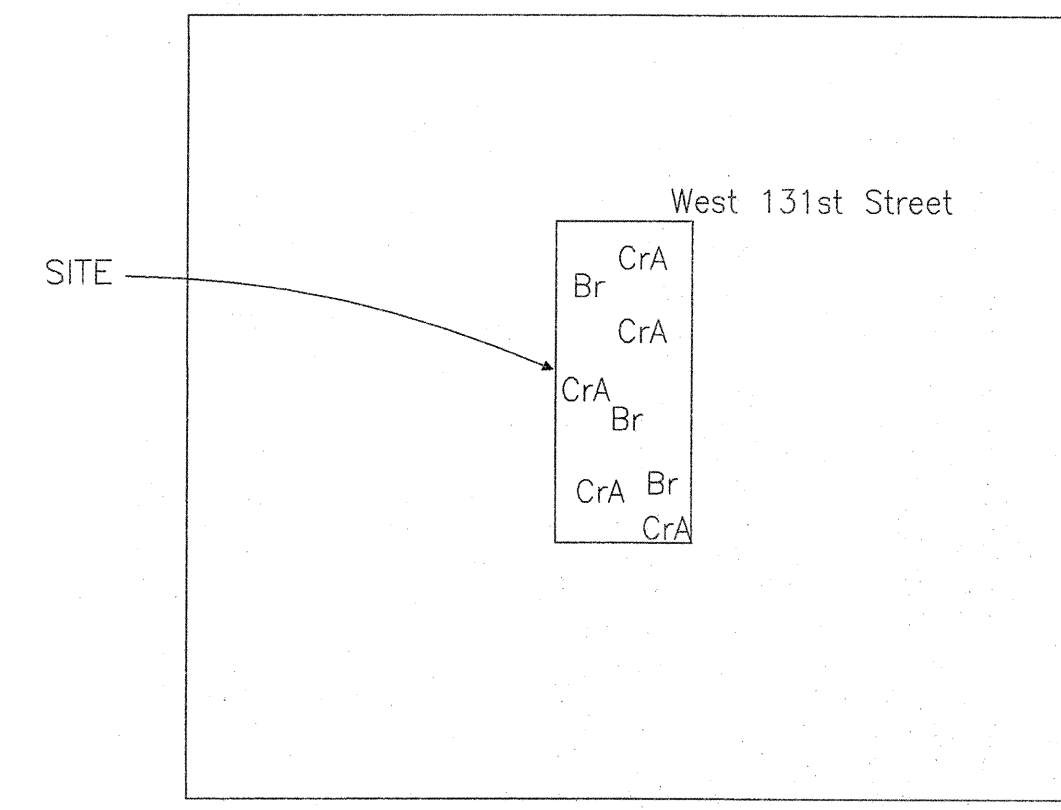
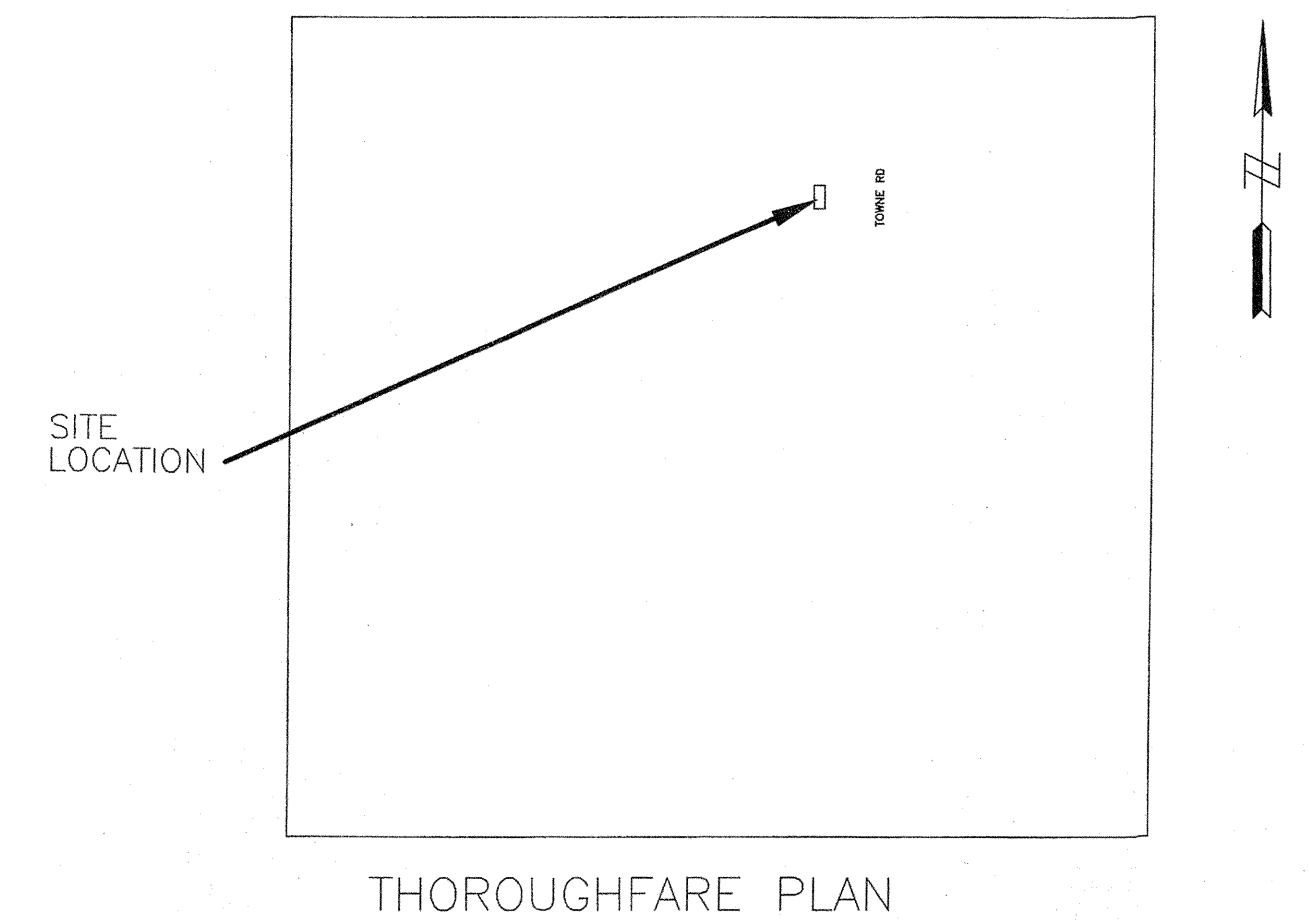


SCALE: 1" = 200'

PLANS PREPARED BY:
Mid-States ENGINEERING

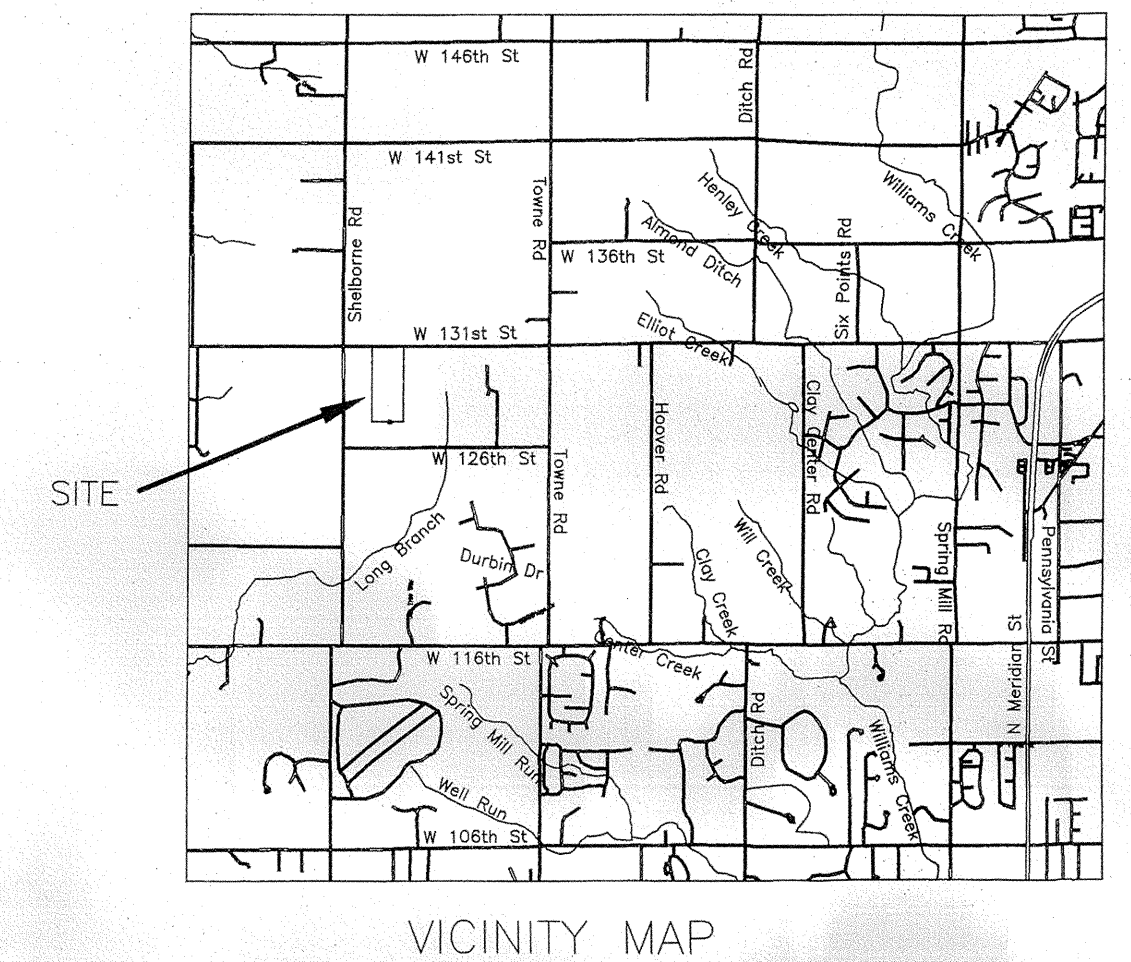
350 E. New York St. Suite 300
Indianapolis, IN, 46204
(317) 634-6434 Phone
(317) 634-3576 Fax

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.



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

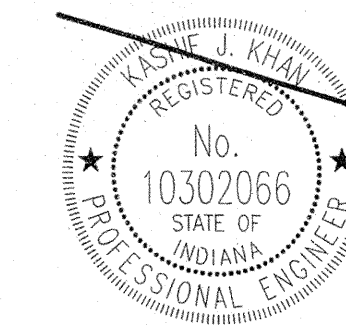
Allan H. Weihe
ALLAN H. WEIHE—REG P.E.—IN #8827

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

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
CIVIL ENGINEERS LAND SURVEYORS LANDSCAPE ARCHITECTS



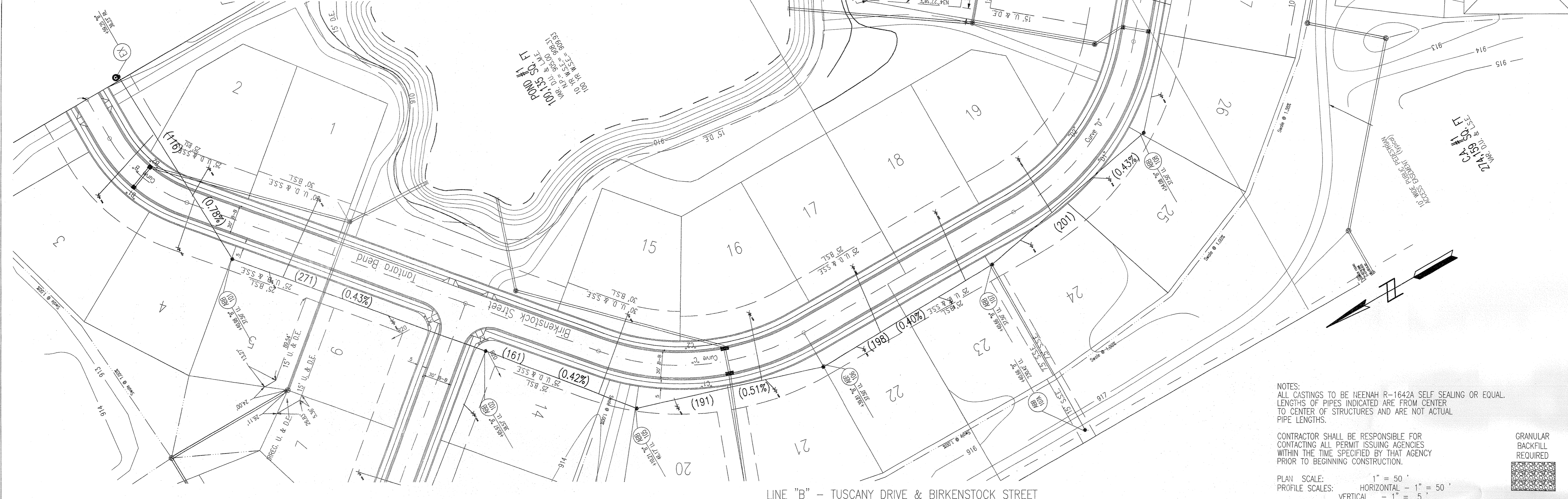
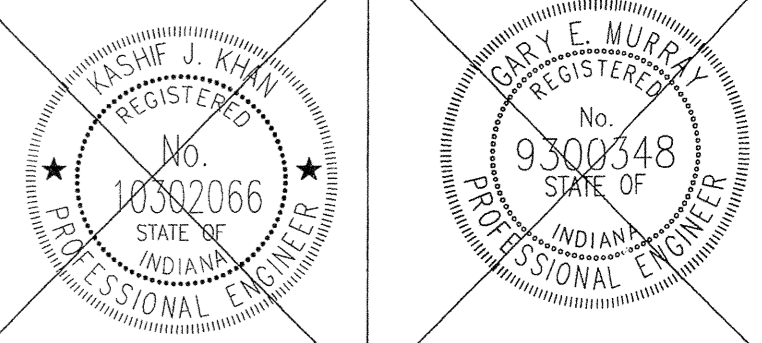
CERTIFIED
THIS _____ DAY OF _____, 2005.

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

Certification Hereon For Latest Revision

JOB NO. 122-0274 SHEET 1 OF 35

W050183



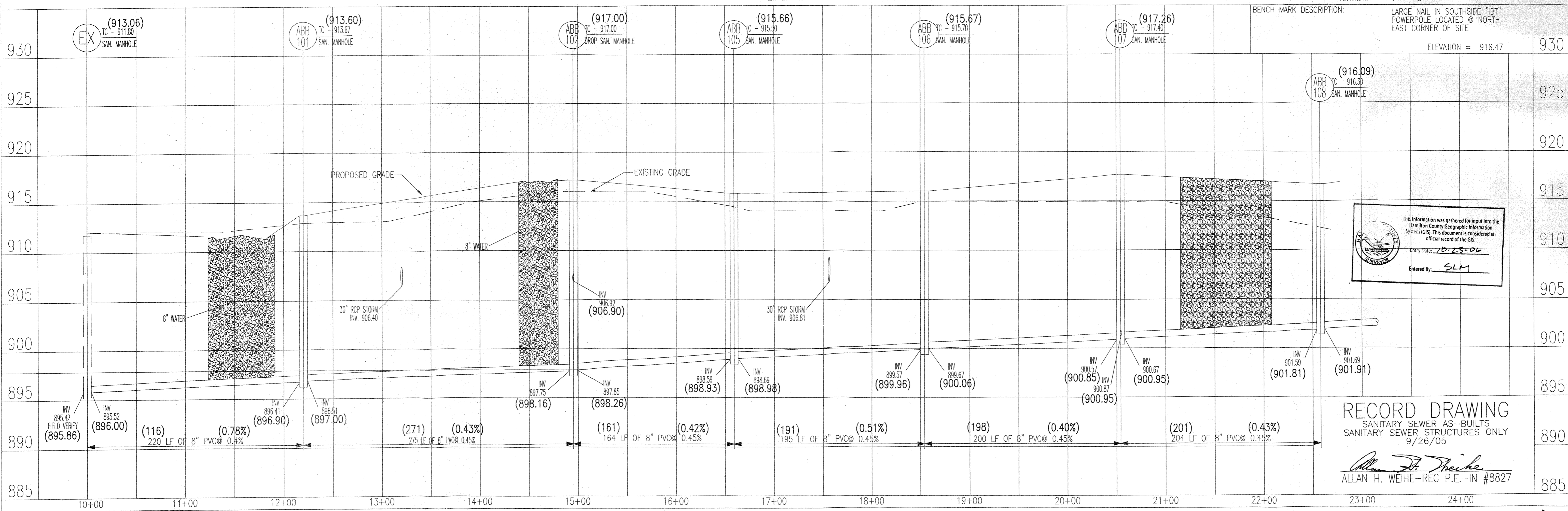
NOTES:
 ALL CASTINGS TO BE HEENAH R-1642A SELF SEALING OR EQUAL.
 LENGTHS OF PIPES INDICATED ARE FROM CENTER TO CENTER OF STRUCTURES AND ARE NOT ACTUAL PIPE LENGTHS.
 CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PERMIT ISSUING AGENCIES WITHIN THE TIME SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING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

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

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

REVISIONS AND DATES

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

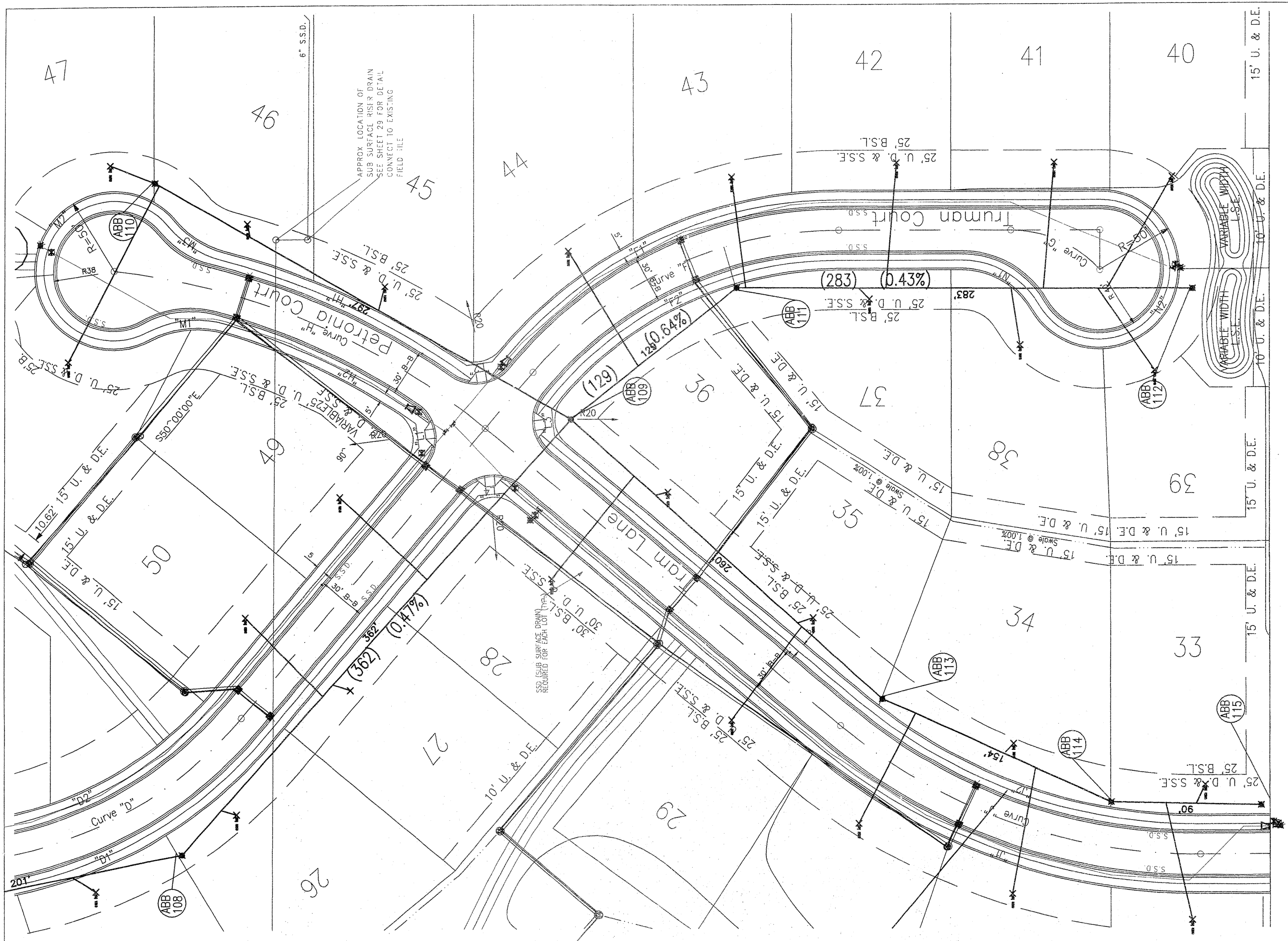


This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.
 Entry Date: 10-28-06
 Entered By: SLM

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

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



ASBUILTS PREPARED BY:
WEIHE ENGINEERS INC.

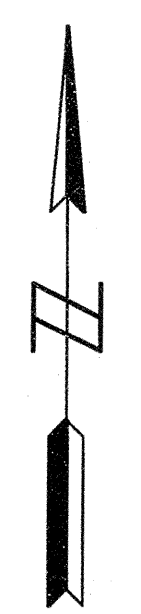
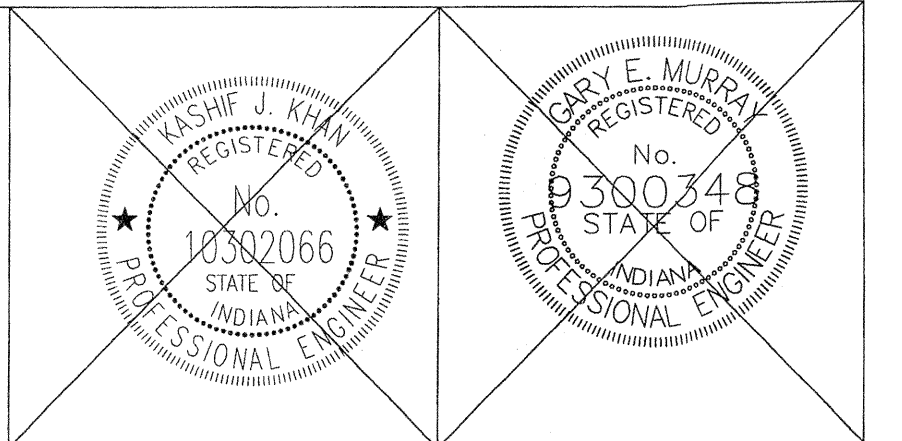
10505 NORTH COLLEGE AVENUE 317.846.6611
 INDIANAPOLIS, INDIANA 46280 FAX 317.843.0546
 WWW.WEIHE.NET TOLL FREE 800.452.6408

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

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

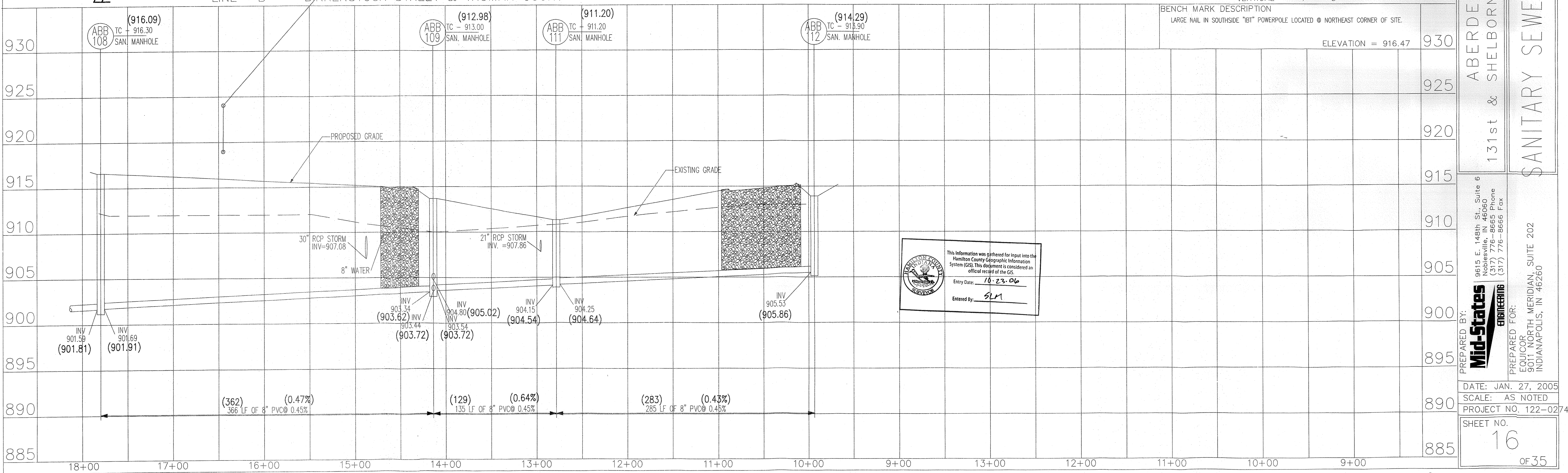
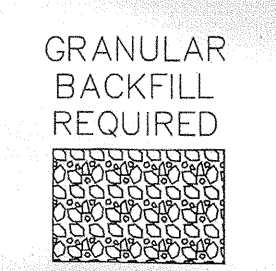
ABERDEEN BEND SUBDIVISION
 131st & SHELBORNE ROAD, CARMEL INDIANA

SANITARY SEWER PLAN & PROFILE

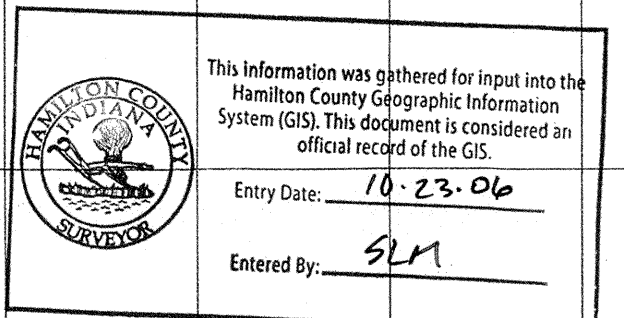
NOTES:
 ALL CASTINGS TO BE NEENAH R-1642A SELF SEALING OR EQUAL.
 LENGTHS OF PIPES INDICATED ARE FROM CENTER
 TO CENTER OF STRUCTURES AND ARE NOT ACTUAL
 PIPE LENGTHS.

CONTRACTOR SHALL BE RESPONSIBLE FOR
 CONTACTING ALL PERMIT ISSUING AGENCIES
 WITHIN THE TIME SPECIFIED BY THAT AGENCY
 PRIOR TO BEGINNING CONSTRUCTION.

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

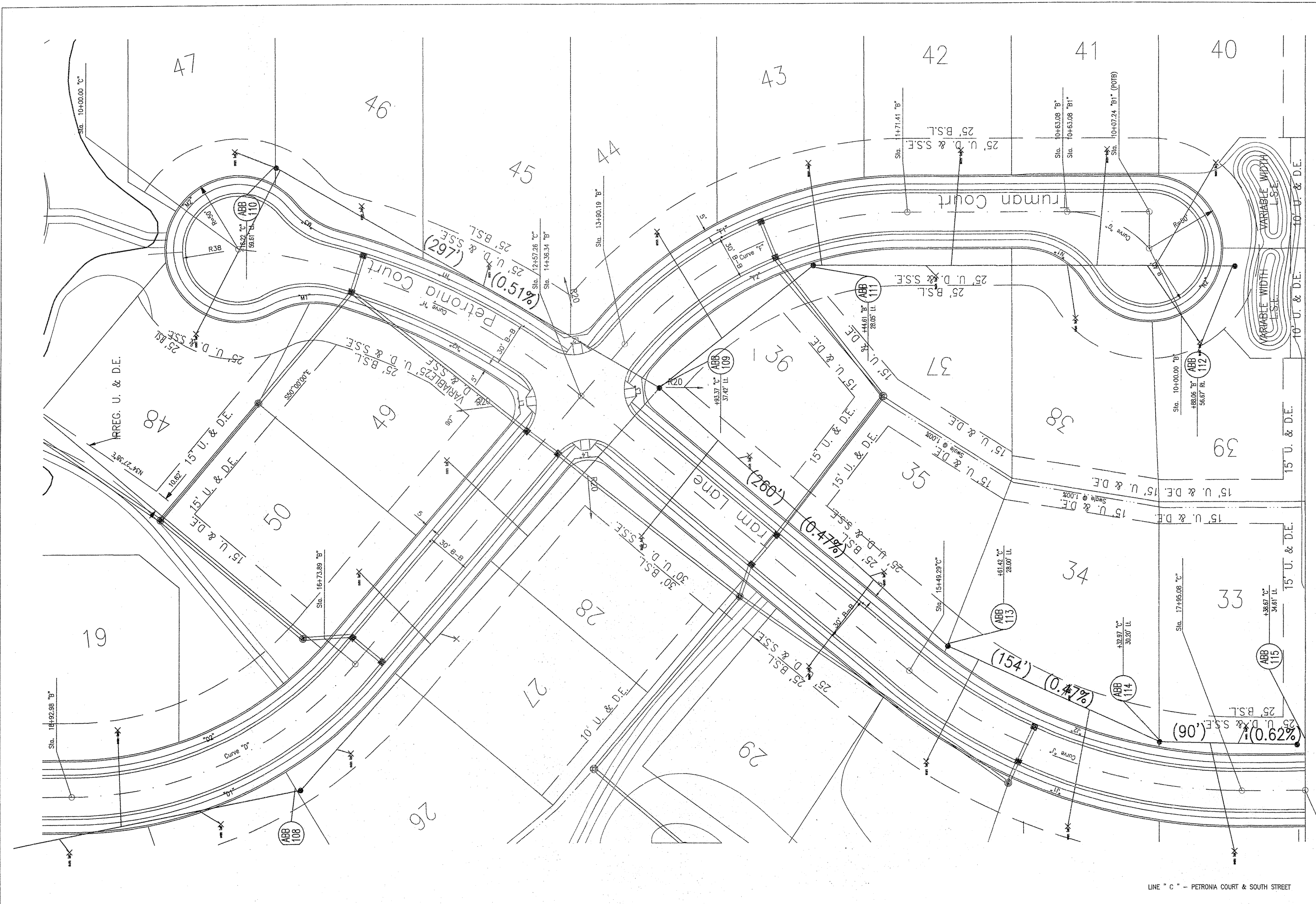


PREPARED BY: Mid-States ENGINEERING
 9615 E. 148th St., Suite 6
 Noblesville, IN 46060
 (317) 776-8665 Phone
 (317) 776-8666 Fax

PROJECT NO. 122-0274

DATE: JAN. 27, 2005
 SCALE: AS NOTED
 SHEET NO. 16
 OF 35

W050183



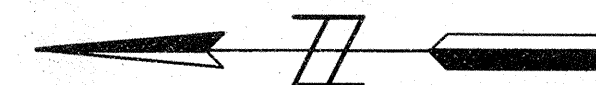
ASBUILTS PREPARED BY:
WEIHE ENGINEERS INC.

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

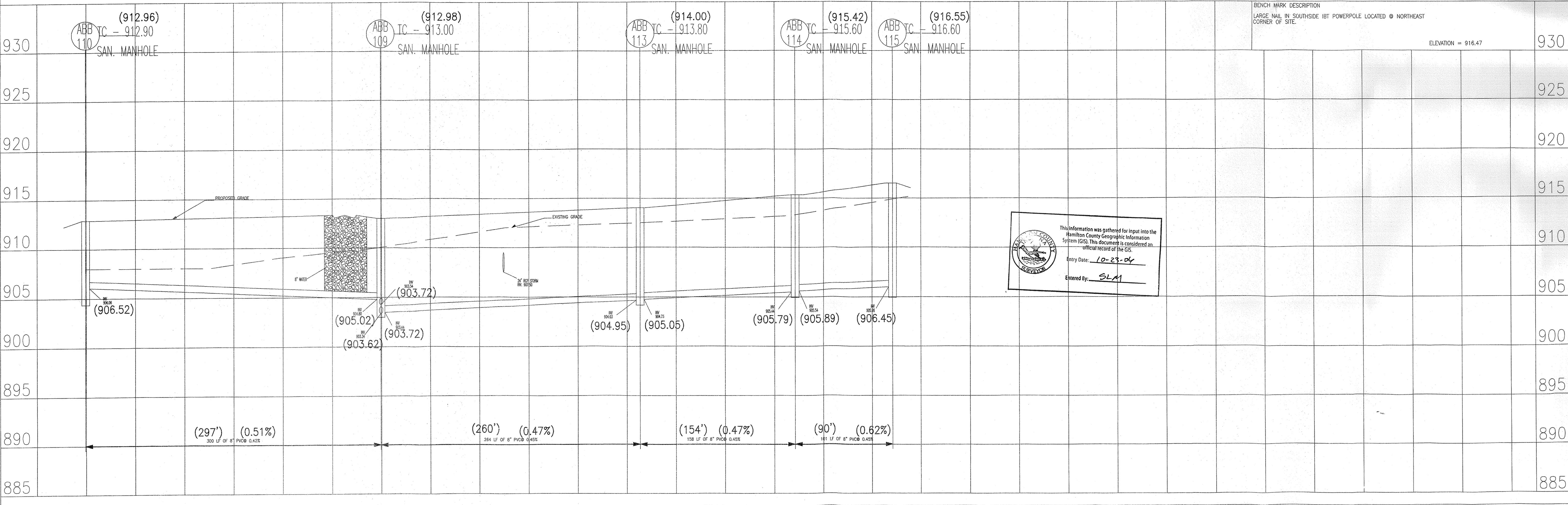
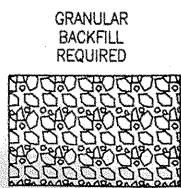
ALLAN H. WEIHE, P.E., L.S. - PRESIDENT
 CIVIL ENGINEERS LAND SURVEYORS LANDSCAPE ARCHITECTS

RECORD DRAWING
 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 OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES WITHIN THE TIME SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING CONSTRUCTION.
 PLAN SCALE: 1" = 50'
 PROFILE SCALE: HORIZONTAL - 1" = 50' VERTICAL - 1" = 5'

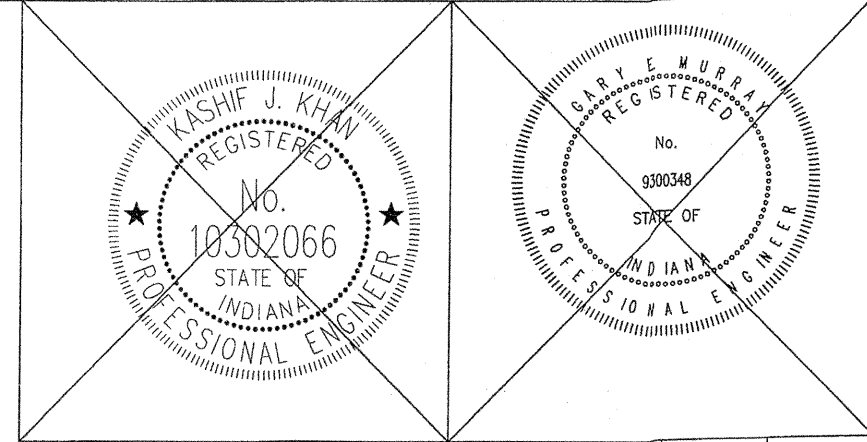


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 Entry Date: 10-23-04
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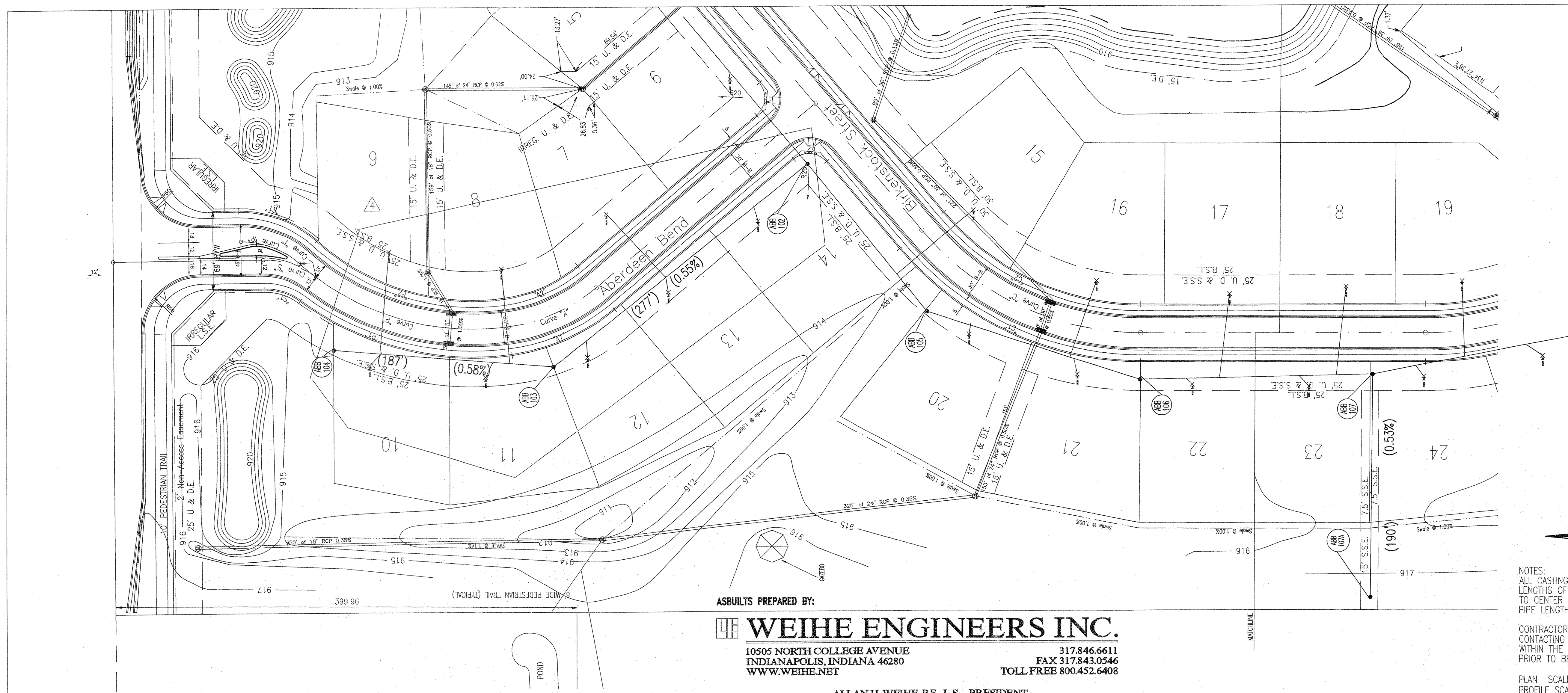
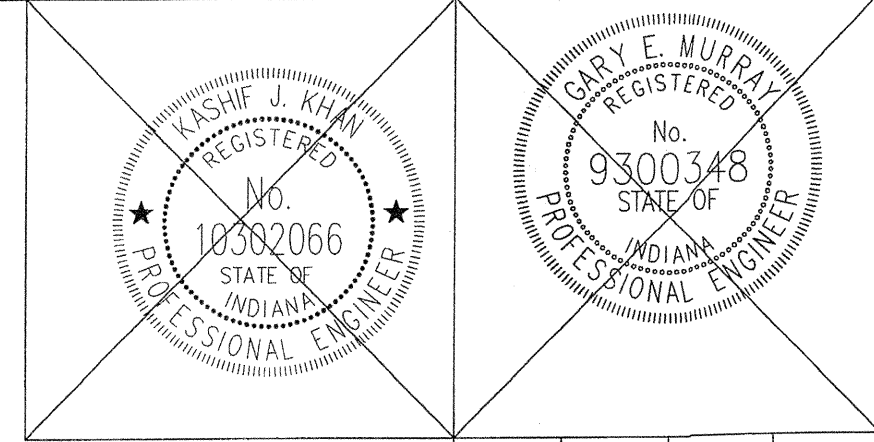
ABERDEEN BEND SUBDIVISION
 131st & SHELBORNE ROAD, CARMEL INDIANA
 SANITARY SEWER PLAN & PROFILE

PREPARED BY: **Mid-States ENGINEERING**
 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



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

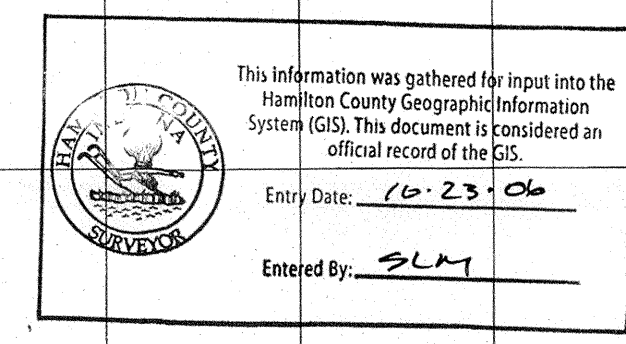
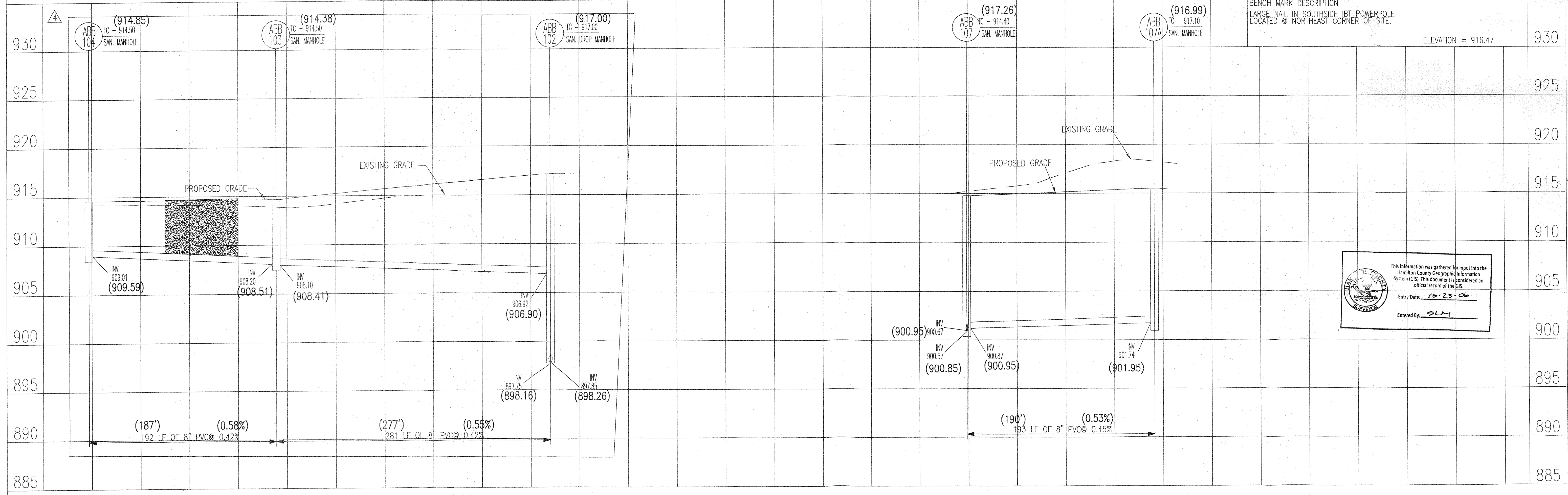
NOTES:
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 LENGTHS OF PIPES INDICATED ARE FROM CENTER TO CENTER OF STRUCTURES AND ARE NOT ACTUAL PIPE LENGTHS.
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 GRANULAR BACKFILL REQUIRED

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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 CIVIL ENGINEERS LAND SURVEYORS LANDSCAPE ARCHITECTS

LINE "A" - ABERDEEN BEND

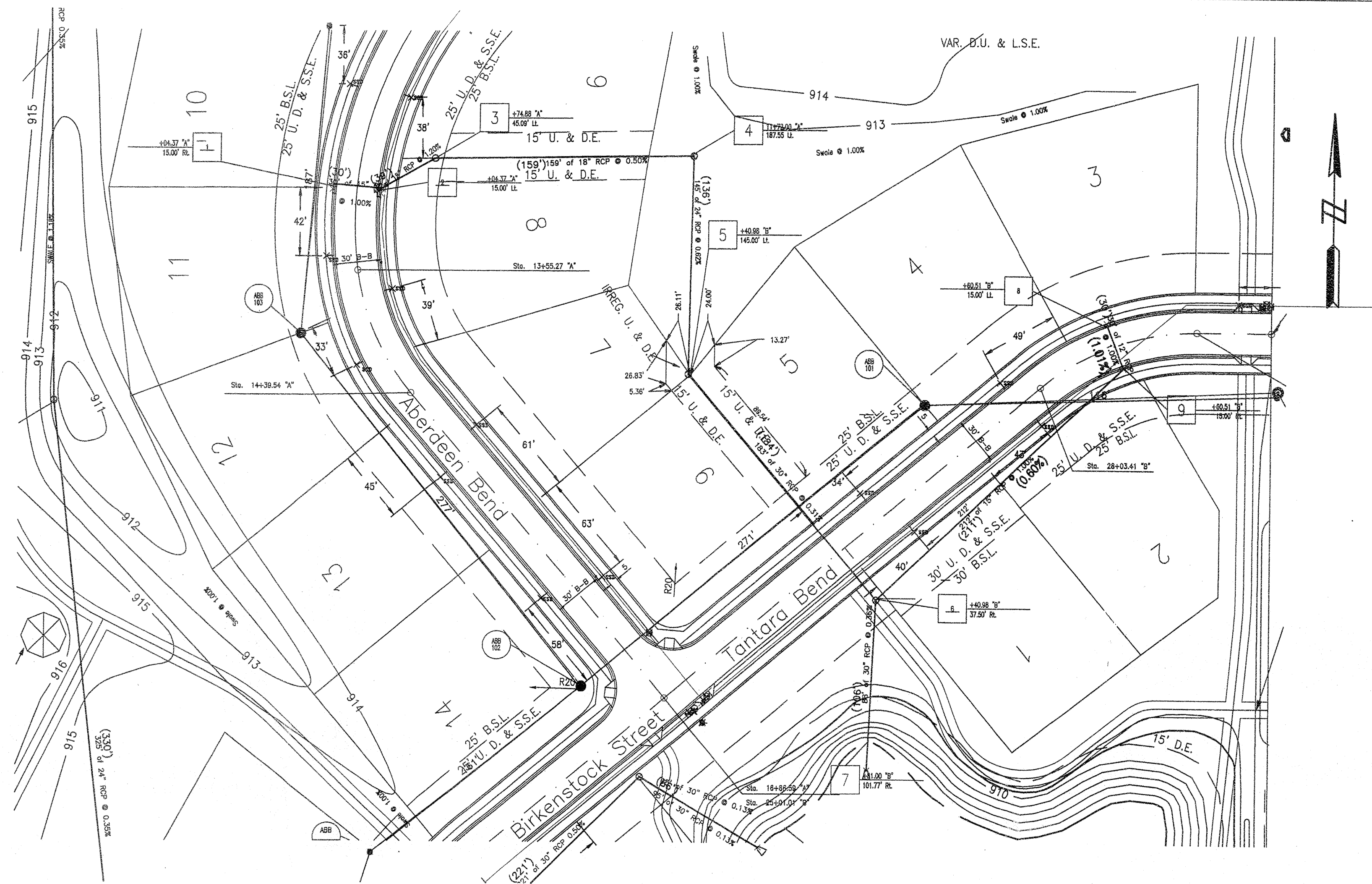


ABERDEEN BEND SUBDIVISION
 131st & SHELBORNE ROAD, CARMEL, INDIANA
 SANITARY SEWER PLAN & PROFILE

PREPARED BY: **Mid-States ENGINEERING**
 9615 E. 48th St., Suite 6 Carmel, IN 46033
 (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

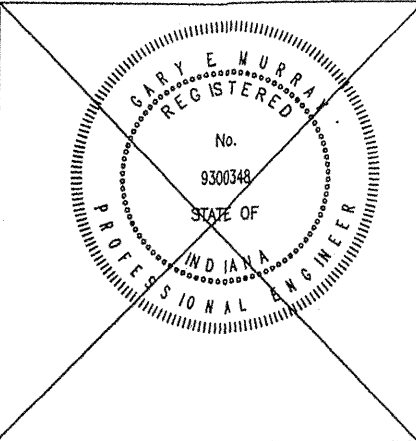
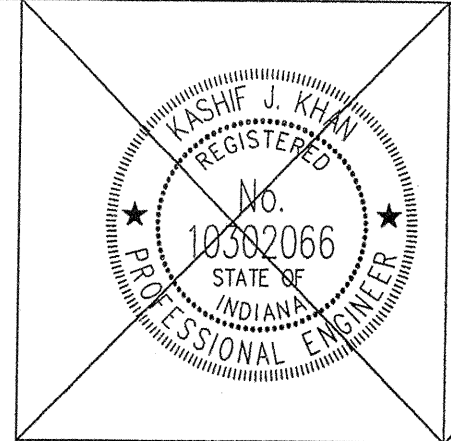


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 10505 NORTH COLLEGE AVENUE INDIANAPOLIS, INDIANA 46280
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 TOLL FREE 800.452.6408
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RECORD DRAWING
 STORM SEWER AS-BUILTS
 STORM SEWER STRUCTURES ONLY
 9/26/05

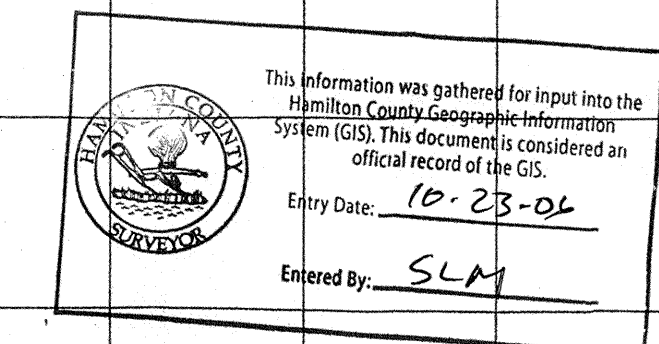
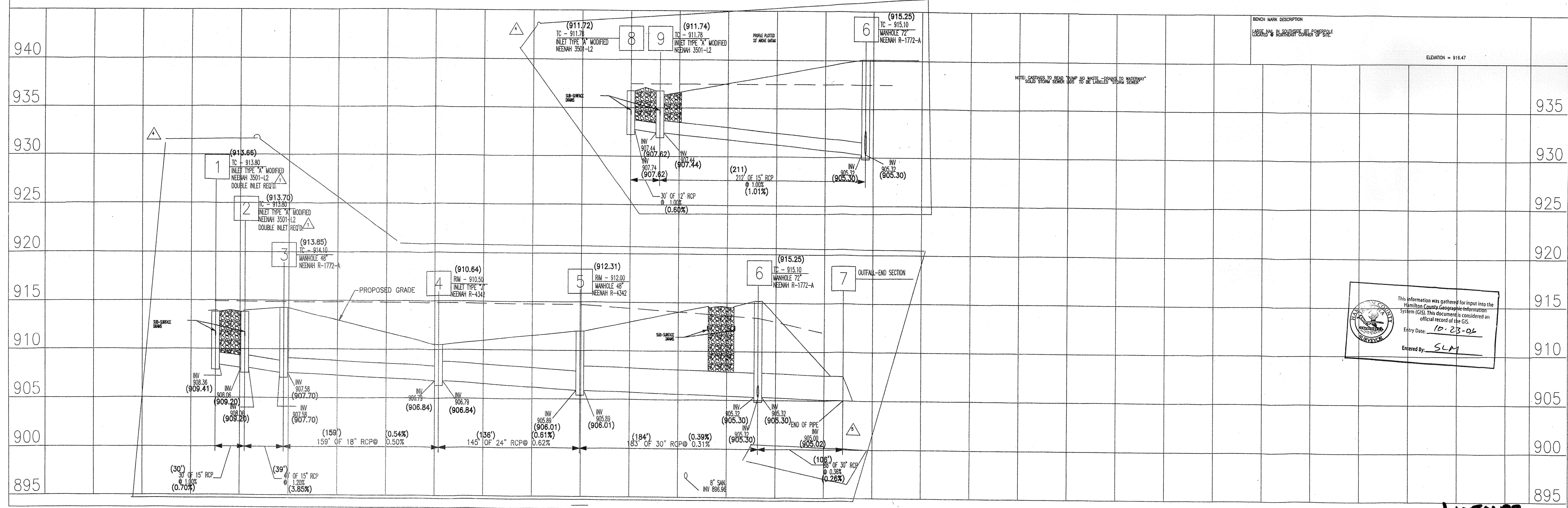
Allan H. Weihe
 ALLAN H. WEIHE - REG. P.E. - IN #8827

NOTES:
 LENGTHS OF PIPES INDICATED ARE FROM CENTER TO CENTER OF STRUCTURES AND ARE NOT ACTUAL PIPE LENGTHS.
 CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO BEGINNING CONSTRUCTION.
 PLAN SCALE: 1" = 50'
 PROFILE SCALE: HORIZONTAL - 1" = 50' VERTICAL - 1" = 5'

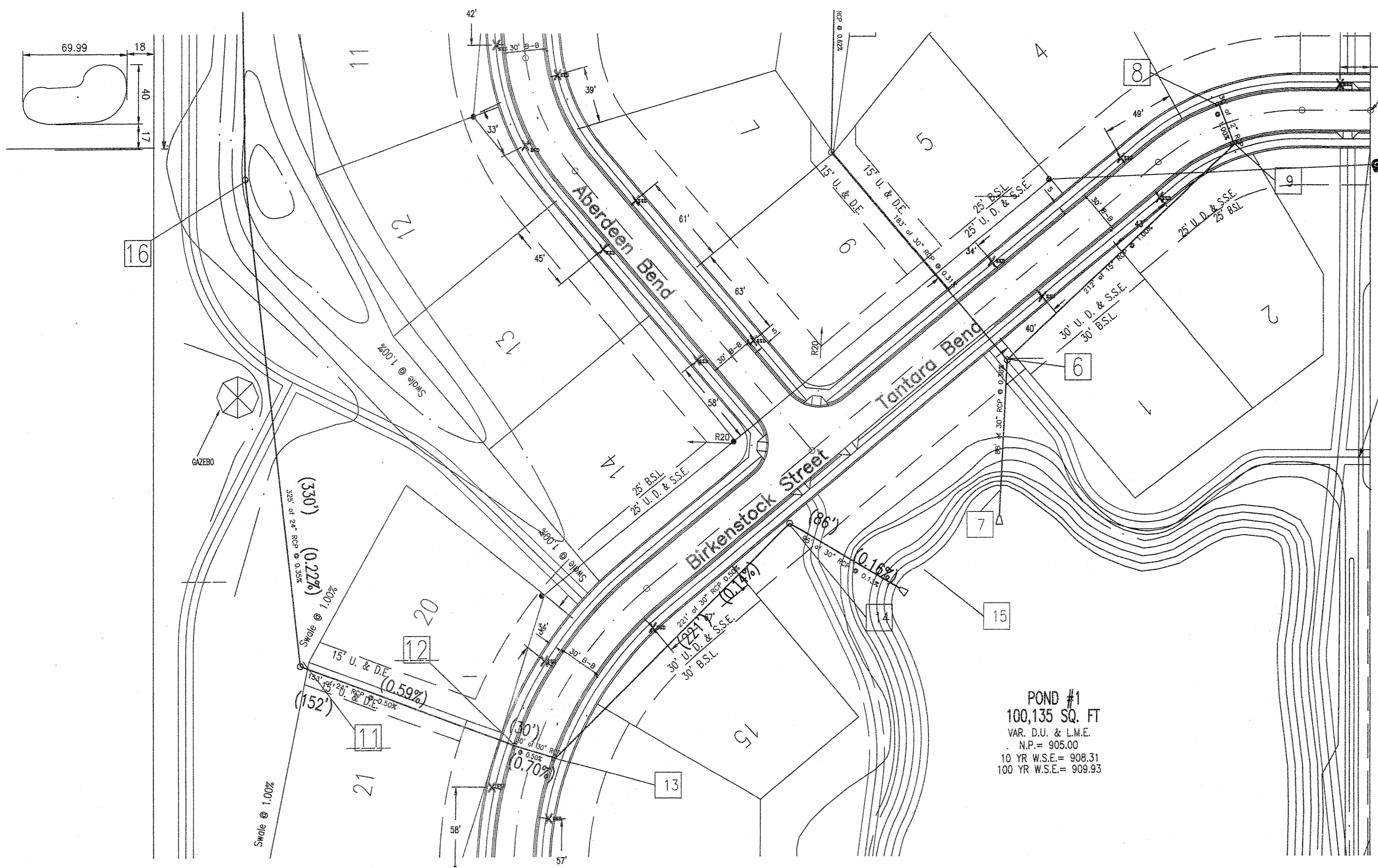


DESIGNED BY:	CHK:
DRAWN BY:	ERC:
CHECKED BY:	WC:
APPROVED BY:	KJK:
REVISIONS AND DATES:	
Revised per Comments:	
Engineering Comments:	
Revised Pipe Lengths Per Field Request:	
06/17/05	
09/29/05	

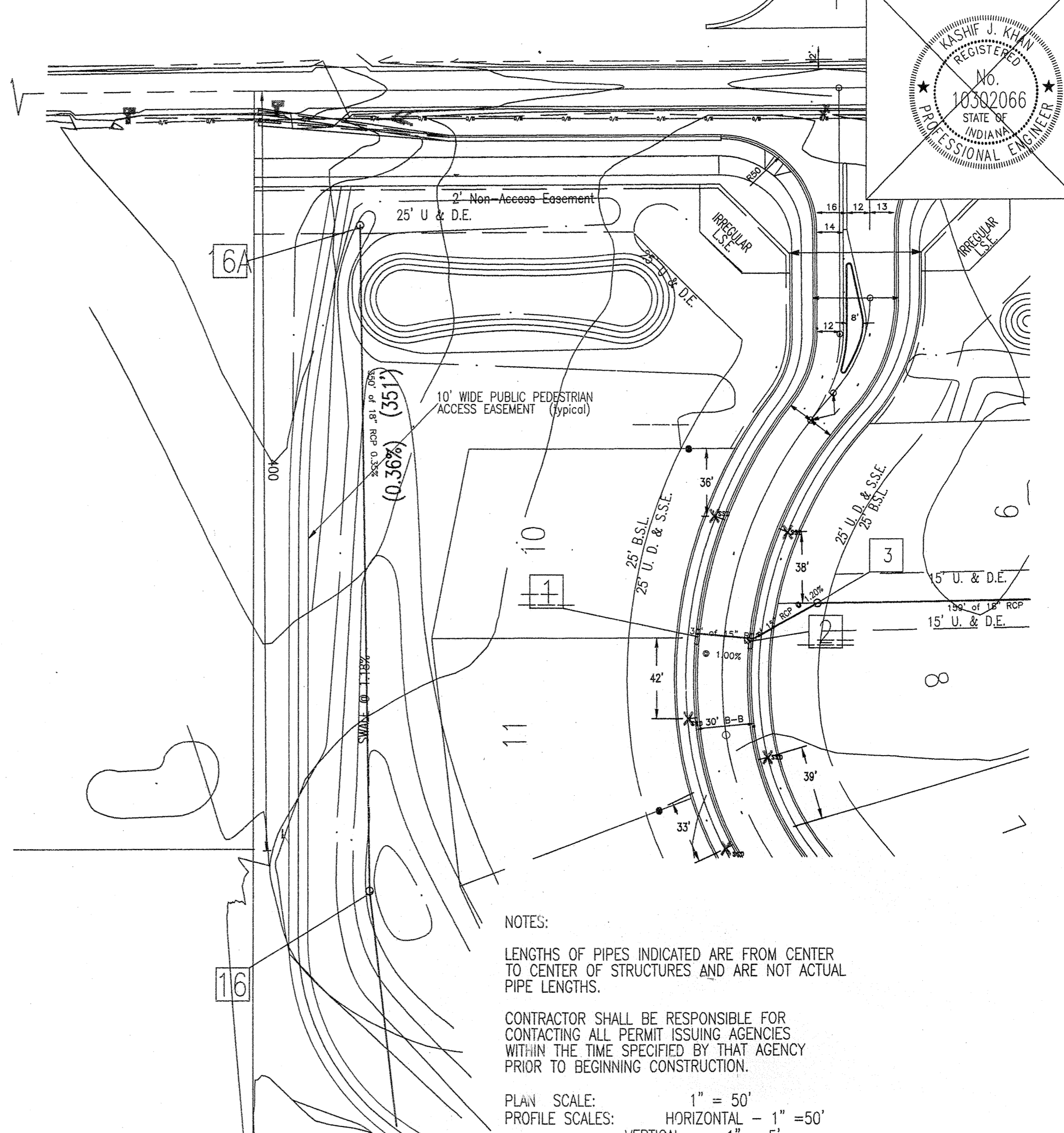
ABERDEEN BEND SUBDIVISION
 131st & SHELBORNE ROAD, CARMEL INDIANA
 STORM SEWER PLAN & PROFILE



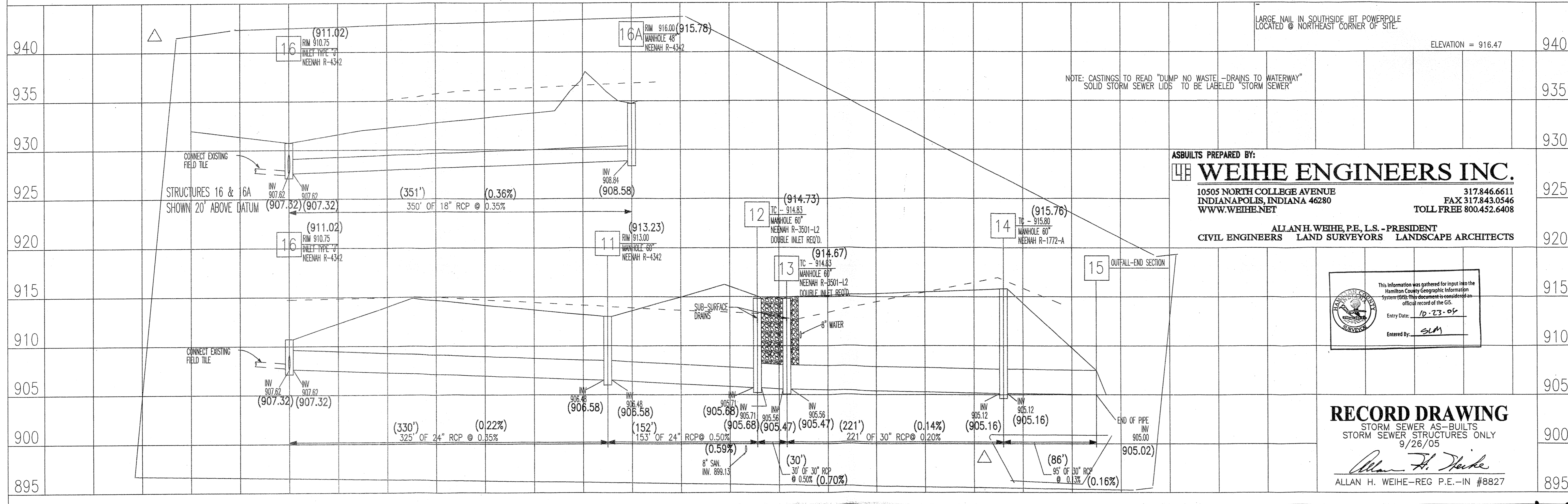
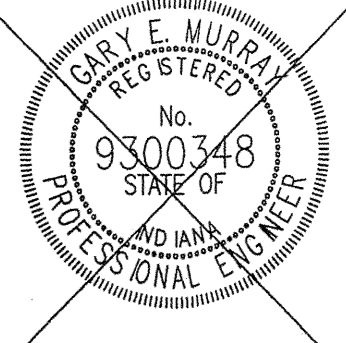
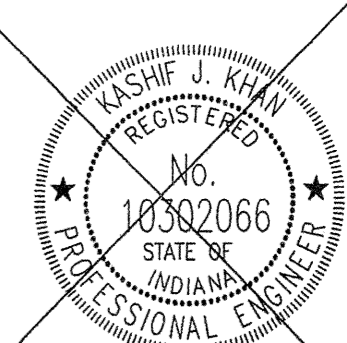
PREPARED BY: **Mid-States ENGINEERING**
 DATE: JAN. 27, 2005
 SCALE: AS NOTED
 PROJECT NO. 121-0214
 SHEET NO. **19** OF 35



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



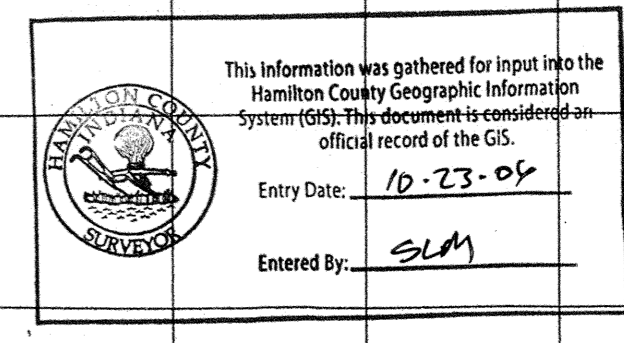
NOTES:
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PLAN SCALE: 1" = 50'
PROFILE SCALES: HORIZONTAL - 1" = 50'
VERTICAL - 1" = 5'



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
317.846.6611 FAX 317.843.0546
WWW.WEIHENET 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

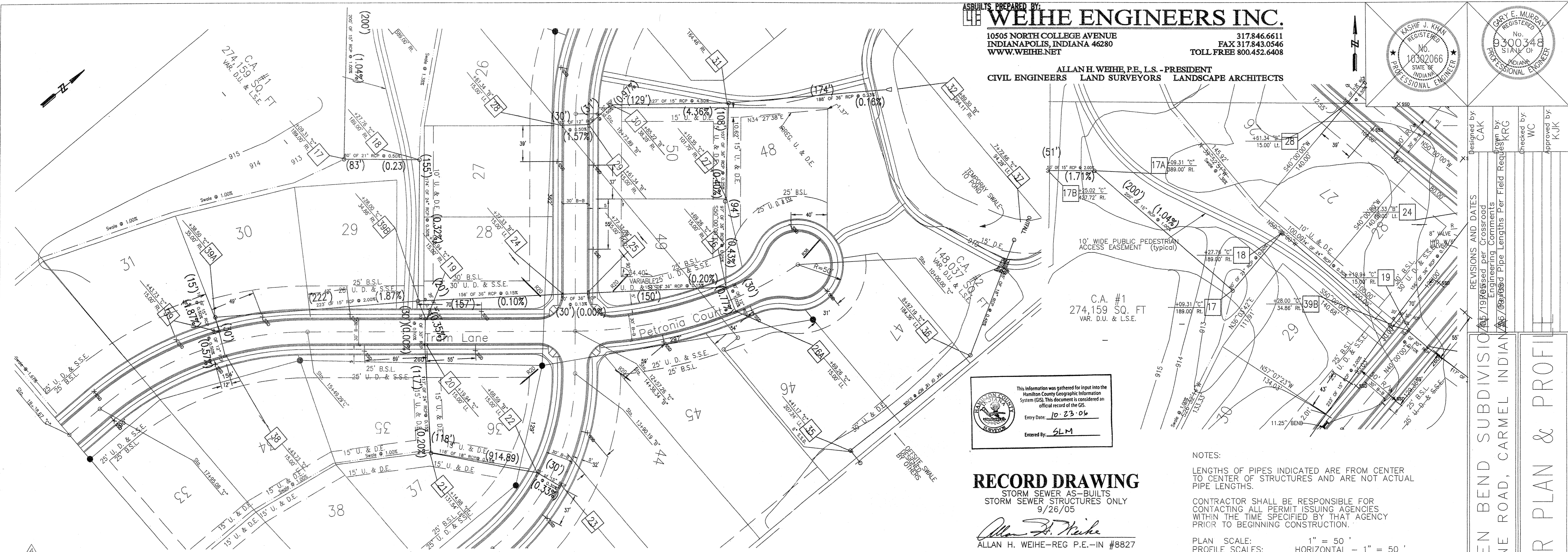
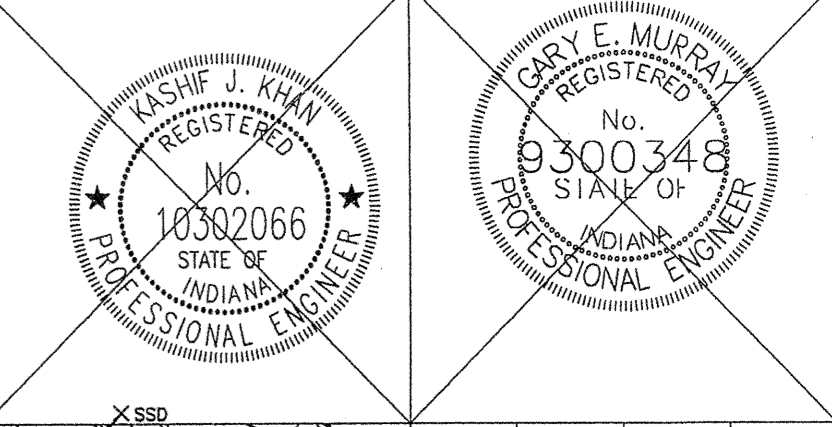
PREPARED BY:
Mid-States ENGINEERING
9815 E. 148th St. Suite 6
Noblesville, IN 46060
(317) 776-8665 Phone
(317) 776-8666 Fax

PREPARED FOR:
EQUICOR
9011 NORTH MERIDIAN, SUITE 202
INDIANAPOLIS, IN 46290

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

AS-BUILTS PREPARED BY:
WEIHE ENGINEERS INC.
 10505 NORTH COLLEGE AVENUE 317.846.6611
 INDIANAPOLIS, INDIANA 46280 FAX 317.843.0546
 WWW.WEIHENET.TOLL FREE 800.452.6408

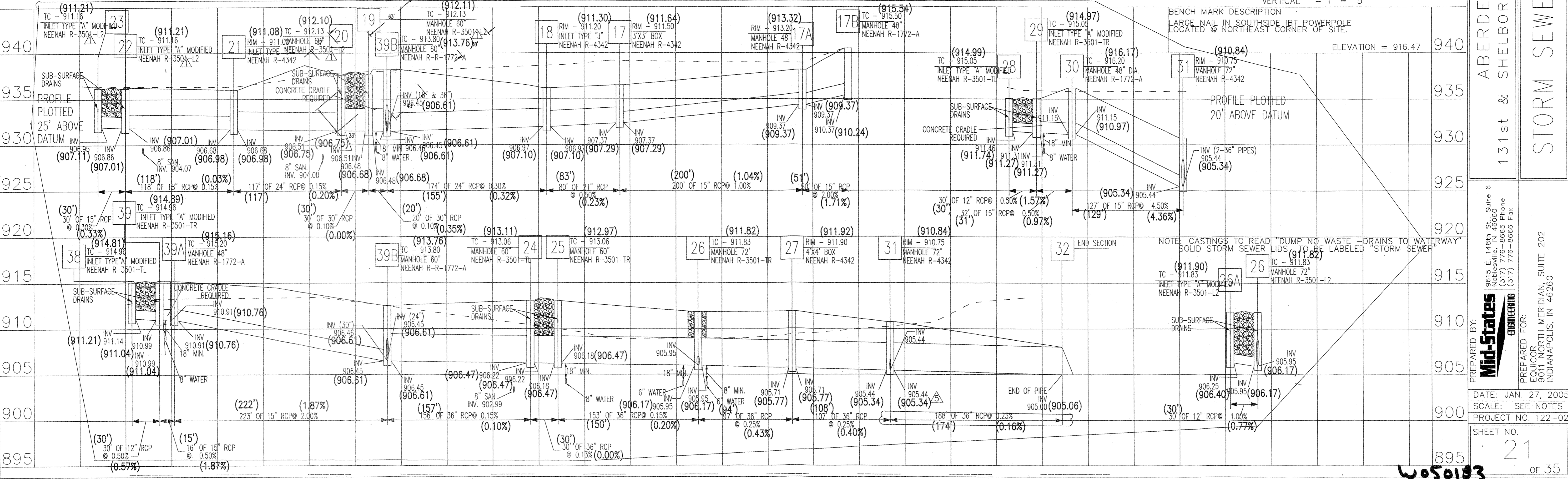
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 Entry Date: 10-23-06
 Entered By: SLM

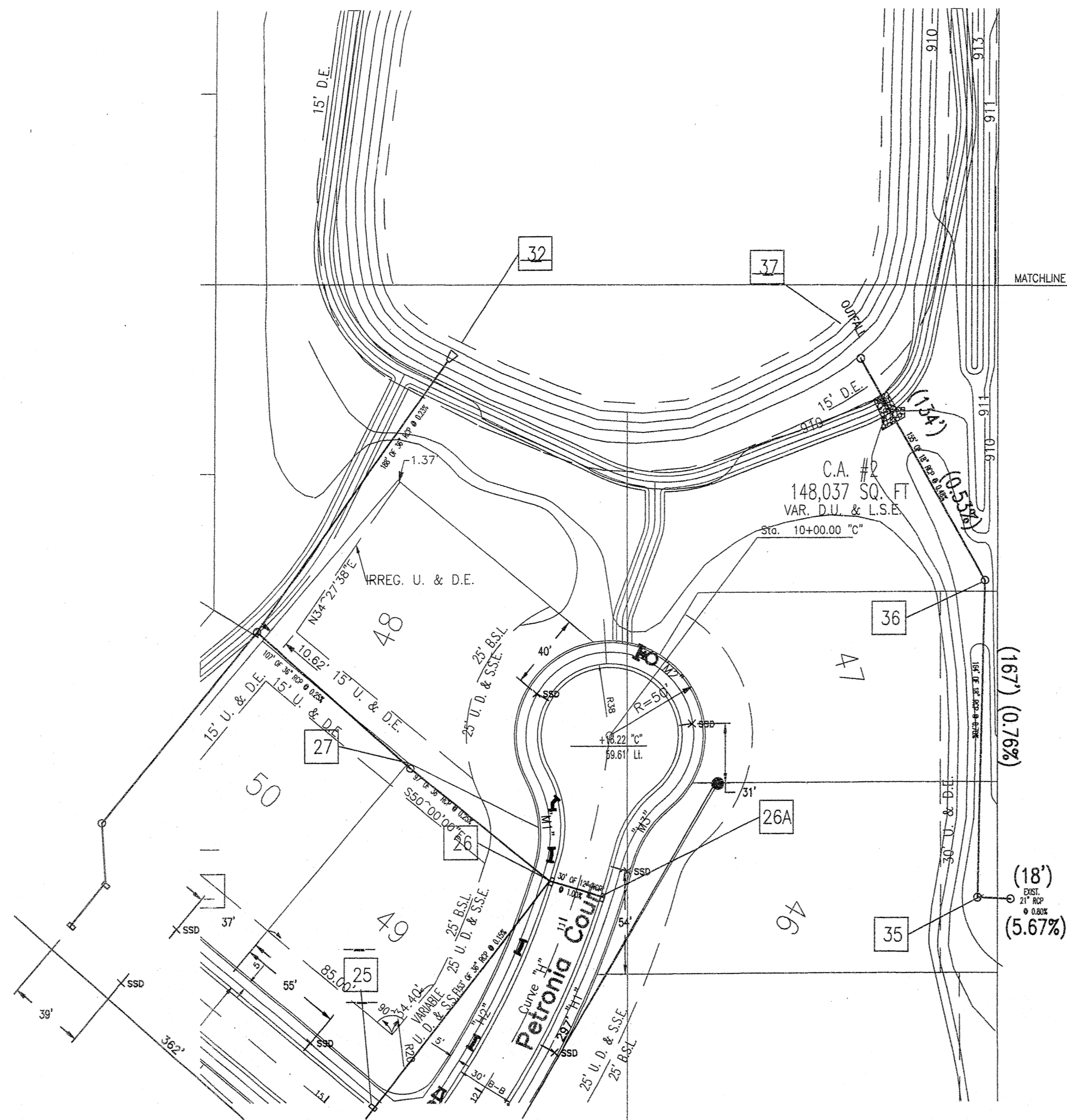
RECORD DRAWING
 STORM SEWER AS-BUILTS
 STORM SEWER STRUCTURES ONLY
 9/26/05
 Allan H. Weihe
 ALLAN H. WEIHE-REG. P.E.-IN #8827

NOTES:
 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'



DESIGNED BY: CAK
 CHECKED BY: WC
 APPROVED BY: KUK
 REVISIONS AND DATES:
 10/23/06 AS-BUILTS PER CROSSROAD ENGINEERING COMMENTS
 10/23/06 PER FIELD REQUESTS
 10/23/06 PER FIELD REQUESTS
 10/23/06 PER FIELD REQUESTS

PREPARED BY: Mid-States Engineering
 166 S. E. 148th St., Suite 6
 Noblesville, IN 46060
 (317) 776-8665 Phone
 (317) 776-8666 Fax
 PREPARED FOR:
 EQUICOR
 5011 NORTH MERIDIAN, SUITE 202
 INDIANAPOLIS, IN 46260
 DATE: JAN. 27, 2005
 SCALE: SEE NOTES
 PROJECT NO. 122-0274
 SHEET NO. 21 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

ASBUILTS PREPARED BY:
WEIHE ENGINEERS INC.

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

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

NOTES:

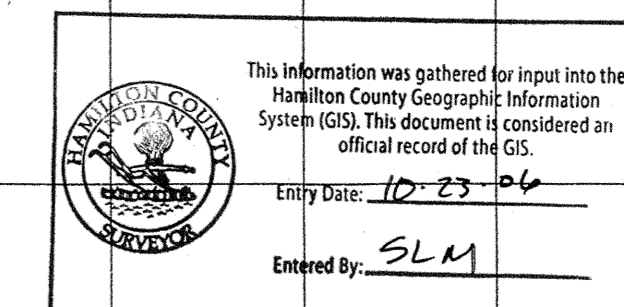
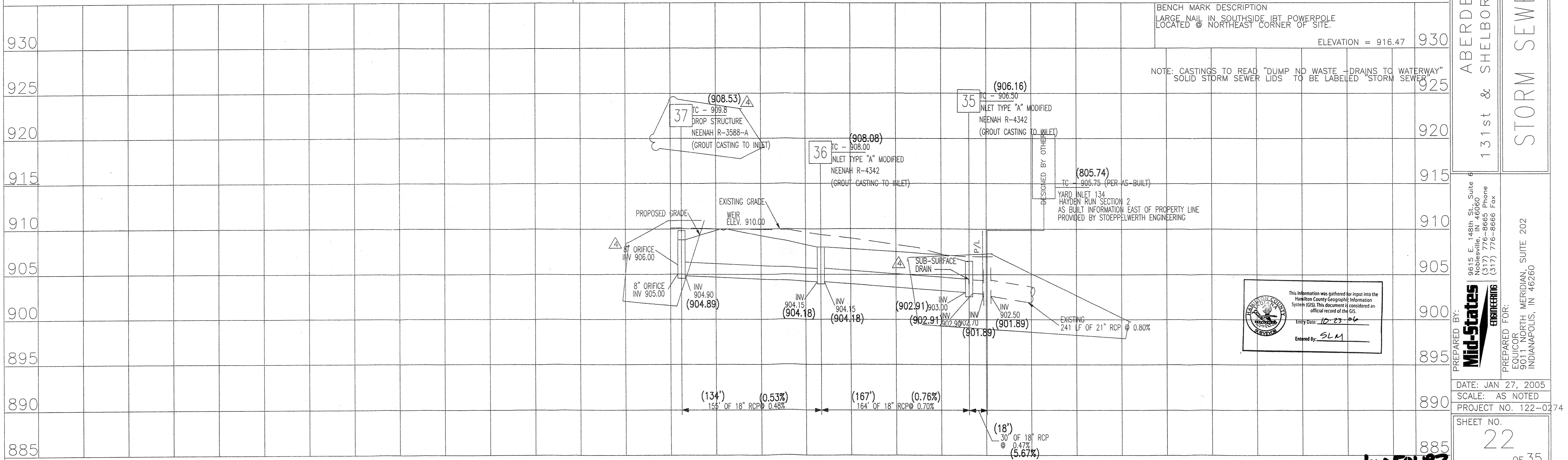
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PLAN SCALE: 1" = 50'
PROFILE SCALES: HORIZONTAL - 1" = 50'
VERTICAL - 1" = 5'

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
1/15/05 Revised per Crossroad Engineering Comments

ABERDEEN BEND SUBDIVISION
131st & SHELBORNE ROAD, CARMEL INDIANA

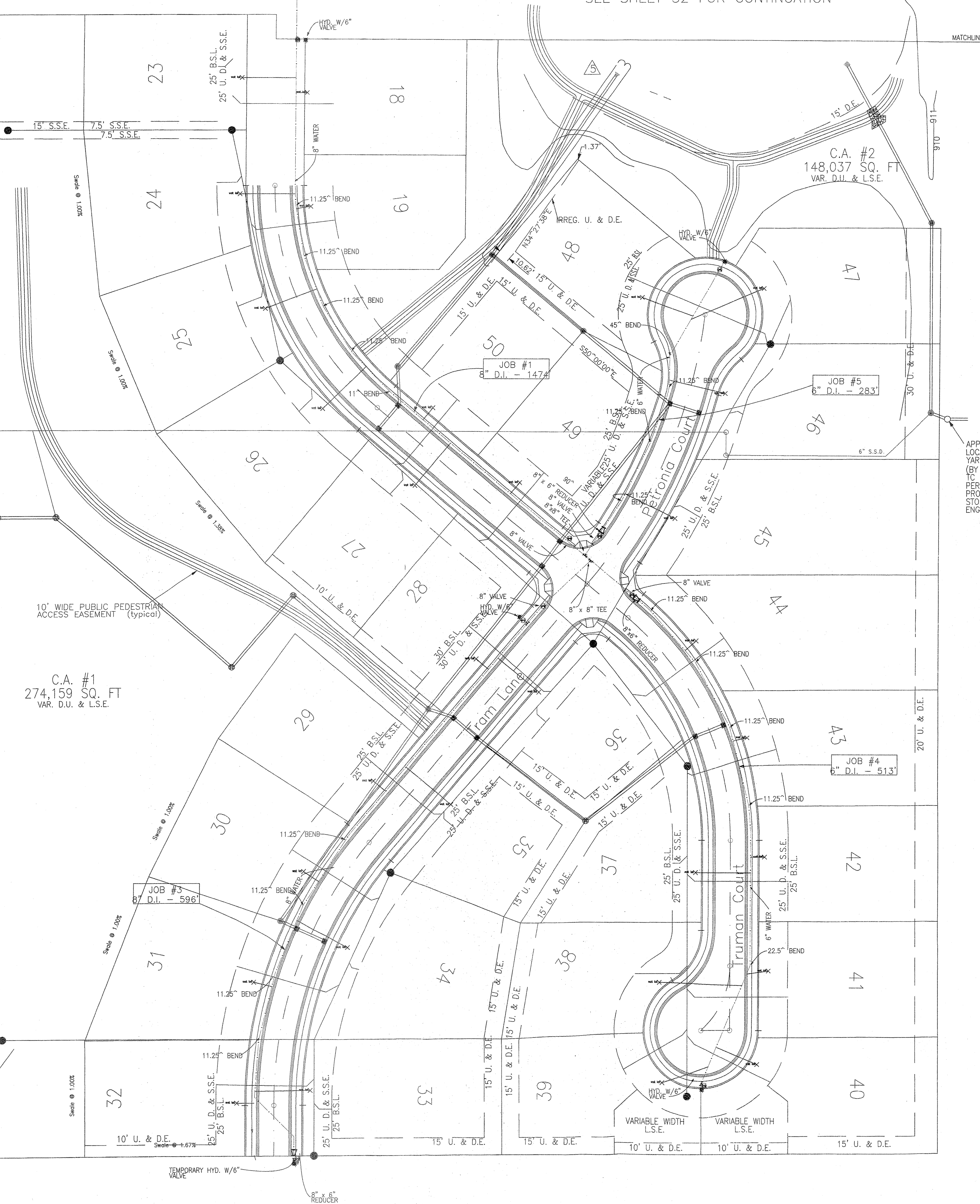
PREPARED BY:
Mid-States Engineering
9615 E. 148th St., Suite 6
Carmel, IN 46033
(317) 776-8665 Phone
(317) 776-8666 Fax

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

SHEET NO.
22
OF 35

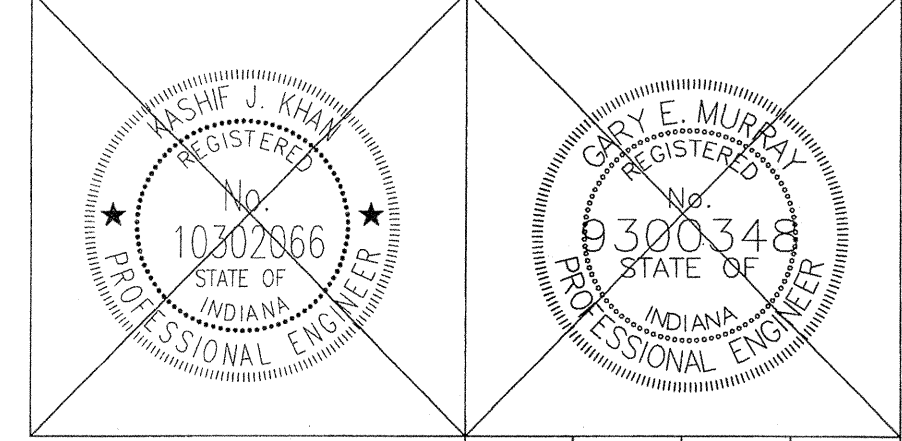
W-50183

SEE SHEET 32 FOR CONTINUATION



City of Carmel Water Utilities					
Project Legend					
Project Name: Aberdeen Bend					
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	6"	D.I.	513'	350
5	PETRONIA COURT	6"	D.I.	283'	350

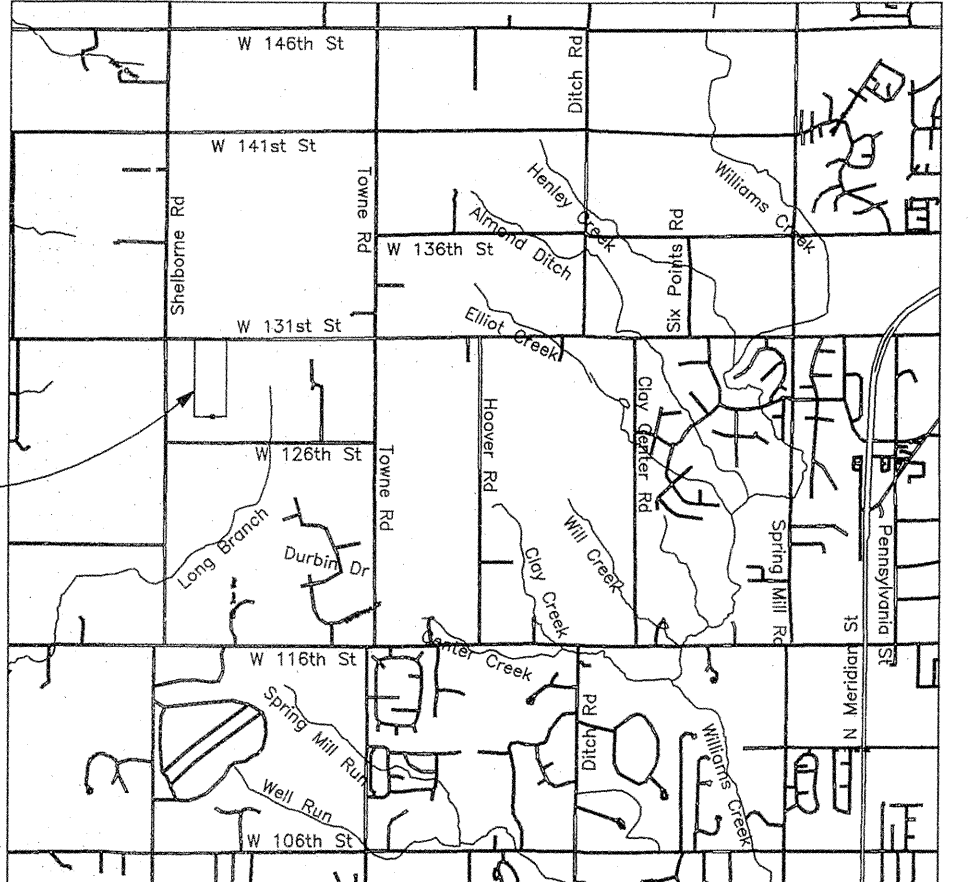
- LEGEND
- EXISTING: STORM SEWER, SANITARY SEWER, SANITARY LATERAL
 - PROPOSED: MANHOLE, INLET, END SECTION, FLOW ARROW, CONTOUR, SPOT ELEVATION, UNDERDRAIN, WATER SERVICE LINE, WATER LINE, GATE VALVE, FIRE HYDRANT WITH VALVE, RESTRAINED JOINT BEND, RESTRAINED JOINT TEE, REDUCER (SIZE SHOWN), SWALE, 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.

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Entry Date: 10-23-06
Entered By: GLM

- 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.

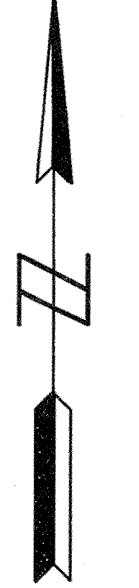


ASBUILTS PREPARED BY:
WEIHE ENGINEERS INC.
10505 NORTH COLLEGE AVENUE
INDIANAPOLIS, INDIANA 46280
WWW.WEIHENET
317.846.6611
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ALLAN H. WEIHE, P.E., L.S. - PRESIDENT
CIVIL ENGINEERS LAND SURVEYORS LANDSCAPE ARCHITECTS

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 Reqs

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

W050103