

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

April 13, 2018

To: Hamilton County Drainage Board

Re: Vermillion Drain, The Heritage at Vermillion, Sec. 3 Arm

Attached is a petition filed by Beazer Homes Indiana, LLP, along with a non-enforcement request, plans, calculations, and quantity summary for the Vermillion Drain, The Heritage at Vermillion, Sec. 3 Arm to be located in Fall Creek 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. As per the plans by Weihe Engineers, Project No. W14.0496, the drain will consist of the following new lengths:

12" RCP	577 ft.	24" RCP	243 ft.
15" RCP	178 ft.	30" RCP	346 ft.
18" RCP	181 ft.	6" SSD	2811 ft.

The total length of the newly installed drain will be 4336 feet.

The subsurface drains (SSD) to be part of the regulated drain are those located under the curbs and those main lines in rear yards. Only the main SSD lines which are located within the easement or right of way are to be maintained as regulated drain. Laterals for individual lots will not be considered part of the regulated drain.

I have reviewed the plans and believe the drain will benefit each lot equally. Therefore, I recommend each lot be assessed equally. I also believe that no damages will result to landowners by the construction of this drain. I recommend a maintenance assessment of \$65.00 per platted lot, \$10.00 per acre for common areas, with a \$65.00 minimum, and \$10.00 per acre for roadways. With this assessment the total annual assessment for this drain for Section 3 will be \$1,544.20.

The petitioner has submitted surety for the proposed drain at this time. The sureties which are in the form of Subdivision Bond from the developer are as follows:

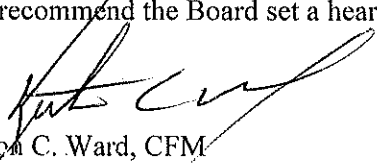
Agent: Nationwide Mutual Insurance Company
Date: June 20, 2017
Number: SNN4006902
For: Storm Sewers, Subsurface Drain, Erosion Control
Amount: \$196,186.00
HCDB-2017-00037

Agent: Nationwide Mutual Insurance Company
Date: June 20, 2017
Number: SNN4006901
For: Monuments
Amount: \$4,686.00
HCDB-2017-00036

I believe this proposed drain meets the requirements for Urban Drain Classification as set out in IC 36-9-27-67 to 69. Therefore, this drain shall be designated as an Urban Drain.

I recommend that upon approval of the above proposed drain that the Board also approve the attached non-enforcement request. The request will be for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for "The Heritage at Vermillion, Sec. 3" upon recording in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for June 25, 2018



Kenton C. Ward, CFM
Hamilton County Surveyor
KCW/stc

(Revised 06/08/04)

STATE OF INDIANA)
)
COUNTY OF HAMILTON)

FILED

FILED

NOV 01 2016

APR 26 2018

TO: HAMILTON COUNTY DRAINAGE BOARD
% Hamilton County Surveyor
One Hamilton County Square, Suite 188
Noblesville, IN. 46060-2230

OFFICE OF HAMILTON COUNTY SURVEYOR

OFFICE OF HAMILTON COUNTY SURVEYOR

In the matter of The Heritage At Vermillion Subdivision, Section
The Heritage At Vermillion - Sect. 3 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 The Heritage At Vermillion - Sect. 3, 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



Signed
Ryan Smith

Printed Name
4/25/18

Date

Signed

Printed Name

Date

Signed

Printed Name

Date

Signed

Printed Name

Date

FINDINGS AND ORDER

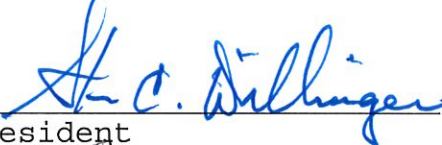
CONCERNING THE MAINTENANCE OF THE

Vermillion Drain, The Heritage at Vermillion Section 3 Arm

On this 25th day of June, 2018, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the *Vermillion Drain, The Heritage at Vermillion Section 3 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: 
Executive Secretary

WEIHE ENGINEERS

Land Surveying | Civil Engineering
Landscape Architecture

Build with confidence.

Engineering Estimate

Proj: Heritage 2
Proj No: W140496-2
Date: 6/15/2017

FILED

JUN 15 2017

Description	Quantity	Units	Unit Price	Contract
Storm Sewer				
12" RCP	577	LF	\$23.00	\$13,271
15" RCP	178	LF	\$26.00	\$4,628
18" RCP	181	LF	\$30.00	\$5,430
24" RCP	243	LF	\$44.00	\$10,692
30" RCP	346	LF	\$56.00	\$19,376
Small Behive	1	ea	\$1,300.00	\$1,300
Large Beehive	3	ea	\$3,200.00	\$9,600
Small Curb inlet	3	ea	\$1,350.00	\$4,050
Large Curb Inlet	3	ea	\$3,600.00	\$10,800
DbI Curb Inlet	5	ea	\$3,000.00	\$15,000
12" End Section, Trash Guard	1	ea	\$1,400.00	\$1,400
30" End Section, Trash Guard	1	ea	\$2,500.00	\$2,500
Rip Rap	25	TONS	\$50.00	\$1,250
Flush and Video RCP	1,525	ea	\$2.50	\$3,813
Granular Fill #53 Stone	245	TONS	\$15.00	\$3,675
#8 Stone Bedding	315	ea	\$20.00	\$6,300
			Total:	\$113,085
Subsurface Drain				
SSD Curbs	2,764	LF	\$9.50	\$26,258
Lot Lateral	23	LF	\$135.00	\$3,105
			Total:	\$29,363
Erosion Control				
Silt Fence	2,528	LF	\$1.50	\$3,792
Curb Inlet Protection	14	EA	\$145.00	\$2,030
Yard Inlet Protection	8	EA	\$80.00	\$640
Perm. Seed w/ Blanket - Lake	11,156	SF	\$0.14	\$1,562
Perm. Seed w/ Blanket - Swale	23,517	SF	\$0.13	\$3,057
Perm. Seed w/ Mulch	40,707	SF	\$0.04	\$1,628
Temp. Seed w/ Mulch	174,105	SF	\$0.03	\$5,223
Seed and Straw behind curb	77,717	SF	\$0.04	\$3,109
			Total:	\$21,041
Monumentation				
Lot corners	23	Lot	\$115.00	\$2,645
Concrete Monuments/CL Monuments	7	EA	\$180.00	\$1,260
			Total:	\$3,905
			Grand Total:	\$167,394
			Performance	120% \$200,872
			Maintenance	20% \$40,174

Bond Estimate Prepared by:

Signature: Alvin E. Skoog, Jr.

Printed Name: Alvin E. (Rusty) Skoog, Jr.

Title: Sr. Project Manager

Date: 15-Jun-17



FILED

JUN 29 2017

OFFICE OF HAMILTON COUNTY SURVEYOR

SUBDIVISION BOND

Bond No.: SNN4006902

Principal Amount: \$196,186.00

HCD3-2017-00037

KNOW ALL MEN BY THESE PRESENTS, that we
Beazer Homes Indiana, LLP
9405 Delegates Row, Indianapolis, IN 46240

as Principal, and

Nationwide Mutual Insurance Company

7 World Trade Center, 37th Floor, New York, NY 10007 a OH

Corporation, as Surety, are held and firmly bound unto

Board of Hamilton County Commissioners,

1 Hamilton County Square, Suite 157, Noblesville, IN 46260

as Oblige, in the penal sum of

One Hundred Ninety Six Thousand One Hundred Eighty Six Dollars and
00/100 (Dollars) (\$ 196,186.00), lawful money of the

United States of America, for the payment of which well and truly to be made, we bind ourselves,
our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these
presents.

WHEREAS, Beazer Homes Indiana, LLP has agreed to construct in
Heritage at Vermillion, Sec 3 Subdivision, in Hamilton County, IN the following
improvements:

Storm Sewer, Subsurface Drain, Erosion Control

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that if the said
Principal shall construct, or have constructed, the improvements herein described, and shall save the
Oblige harmless from any loss, cost or damage by reason of its failure to complete said work, then
this obligation shall be null and void, otherwise to remain in full force and effect, and the Surety,
upon receipt of a resolution of the Oblige indicating that the improvements have not been installed
or completed, will complete the improvements or pay to the Oblige such amount up to the
Principal amount of this bond which will allow the Oblige to complete the improvements.

Upon approval by the Oblige, this instrument may be proportionately reduced as the public
improvements are completed.

Signed, sealed and dated, this 20th day of June, 2017

Beazer Homes Indiana, LLP
Principal

By: [Signature]

Nationwide Mutual Insurance Company
Surety

By: [Signature]
Dawn L. Morgan Attorney-in-Fact



Power of Attorney

Principal Name: Beazer Homes Indiana, LLP

Obligee Name: Board of Hamilton County Commissioners

Bond Number: SNN4006902

KNOW ALL MEN BY THESE PRESENTS THAT:

Nationwide Mutual Insurance Company, an Ohio corporation hereinafter referred to as the "Company" and does hereby make, constitute and appoint:

Dawn L. Morgan

each in their individual capacity, its true and lawful attorney-in-fact, with full power and authority to sign, seal, and execute on its behalf any and all bonds and undertakings, and other obligatory instruments of similar nature, in penalties not exceeding the sum of

\$50,000,000.00

and to bind the Company thereby, as fully and to the same extent as if such instruments were signed by the duly authorized officers of the Company; and all acts of said Attorney pursuant to the authority given are hereby ratified and confirmed.

This power of attorney is made and executed pursuant to and by authority of the following resolution duly adopted by the board of directors of the Company:

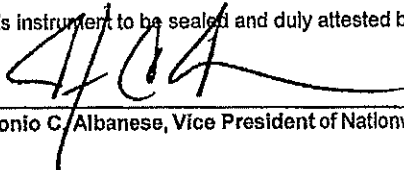
"RESOLVED, that the president, or any vice president be, and each hereby is, authorized and empowered to appoint attorneys-in-fact of the Company, and to authorize them to execute and deliver on behalf of the Company any and all bonds, forms, applications, memorandums, undertakings, recognizances, transfers, contracts of indemnity, policies, contracts guaranteeing the fidelity of persons holding positions of public or private trust, and other writings obligatory in nature that the business of the Company may require; and to modify or revoke, with or without cause, any such appointment or authority; provided, however, that the authority granted hereby shall in no way limit the authority of other duly authorized agents to sign and countersign any of said documents on behalf of the Company."

"RESOLVED FURTHER, that such attorneys-in-fact shall have full power and authority to execute and deliver any and all such documents and to bind the Company subject to the terms and limitations of the power of attorney issued to them, and to affix the seal of the Company thereto; provided, however, that said seal shall not be necessary for the validity of any such documents."

This power of attorney is signed and sealed under and by the following bylaws duly adopted by the board of directors of the Company.

Execution of Instruments. Any vice president, any assistant secretary or any assistant treasurer shall have the power and authority to sign or attest all approved documents, instruments, contracts, or other papers in connection with the operation of the business of the company in addition to the chairman of the board, the chief executive officer, president, treasurer or secretary; provided, however, the signature of any of them may be printed, engraved, or stamped on any approved document, contract, instrument, or other papers of the Company.

IN WITNESS WHEREOF, the Company has caused this instrument to be sealed and duly attested by the signature of its officer the 1st day of May, 2017.



Antonio C. Albanese, Vice President of Nationwide Mutual Insurance Company

ACKNOWLEDGMENT

STATE OF NEW YORK, COUNTY OF NEW YORK: ss

On this 1st day of May, 2017, before me came the above-named officer for the Company aforesaid, to me personally known to be the officer described in and who executed the preceding instrument, and he acknowledged the execution of the same, and being by me duly sworn, deposes and says, that he is the officer of the Company aforesaid, that the seal affixed hereto is the corporate seal of said Company, and the said corporate seal and his signature were duly affixed and subscribed to said instrument by the authority and direction of said Company.



BARRY T. BASSIS
Notary Public, State of New York
No. 02BA4656400
Qualified in New York County
Commission Expires April 30, 2019

Barry T. Bassis
Notary Public
My Commission Expires
April 30, 2019

CERTIFICATE

I, Laura B. Guy, Assistant Secretary of the Company, do hereby certify that the foregoing is a full, true and correct copy of the original power of attorney issued by the Company; that the resolution included therein is a true and correct transcript from the minutes of the meetings of the boards of directors and the same has not been revoked or amended in any manner; that said Antonio C. Albanese was on the date of the execution of the foregoing power of attorney the duly elected officer of the Company, and the corporate seal and his signature as officer were duly affixed and subscribed to the said instrument by the authority of said board of directors; and the foregoing power of attorney is still in full force and effect.

IN WITNESS WHEREOF, I have hereunto subscribed my name as Assistant Secretary, and affixed the corporate seal of said Company this 20th day of June, 2017.

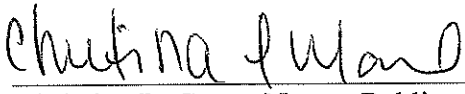
Laura Guy
Assistant Secretary

State of Illinois }
 } ss.
County of DuPage }

On June 20, 2017, before me, a Notary Public in and for said County and State, residing therein, duly commissioned and sworn, personally appeared Dawn L. Morgan, known to me to be Attorney-in-Fact of Nationwide Mutual Insurance Company, the corporation described in and that executed the within and foregoing instrument, and known to me to be the person who executed the said instrument in behalf of the said corporation, and he duly acknowledged to me that such corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year stated in this certificate above.

My Commission Expires January 5, 2021



Christina L. Garry, Notary Public



Commission No. 849330

FILED

JUN 29 2017

SUBDIVISION BOND

OFFICE OF HAMILTON COUNTY SURVEYOR

Bond No.: SNN4006901

Principal Amount: \$4,686.00

HCB-2017-00036

KNOW ALL MEN BY THESE PRESENTS, that we

Beazer Homes Indiana, LLP

9405 Delegates Row, Indianapolis, IN 46240

as Principal, and

Nationwide Mutual Insurance Company

7 World Trade Center, 37th Floor, New York, NY 10007 a OH

Corporation, as Surety, are held and firmly bound unto

Board of Hamilton County Commissioners,

1 Hamilton County Square, Suite 157, Noblesville, IN 46260

as Obligee, in the penal sum of

Four Thousand Six Hundred Eighty Six Dollars and 00/100

(Dollars) (\$ 4,686.00), lawful money of the

United States of America, for the payment of which well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, Beazer Homes Indiana, LLP has agreed to construct in Heritage at Vermillion, Sec 3 Subdivision, in Hamilton County, IN the following improvements:

Monuments

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that if the said Principal shall construct, or have constructed, the improvements herein described, and shall save the Obligee harmless from any loss, cost or damage by reason of its failure to complete said work, then this obligation shall be null and void, otherwise to remain in full force and effect, and the Surety, upon receipt of a resolution of the Obligee indicating that the improvements have not been installed or completed, will complete the improvements or pay to the Obligee such amount up to the Principal amount of this bond which will allow the Obligee to complete the improvements.

Upon approval by the Obligee, this instrument may be proportionately reduced as the public improvements are completed.

Signed, sealed and dated, this 20th day of June, 2017

Beazer Homes Indiana, LLP

Principal

By: *[Signature]*

Nationwide Mutual Insurance Company

Surety

By: *[Signature]*
Dawn L. Morgan Attorney-in-Fact



Power of Attorney

Principal Name: Beazer Homes Indiana, LLP

Obligee Name: Board of Hamilton County Commissioners

Bond Number: SNN4006901

KNOW ALL MEN BY THESE PRESENTS THAT:

Nationwide Mutual Insurance Company, an Ohio corporation hereinafter referred to as the "Company" and does hereby make, constitute and appoint:

Dawn L. Morgan

each in their individual capacity, its true and lawful attorney-in-fact, with full power and authority to sign, seal, and execute on its behalf any and all bonds and undertakings, and other obligatory instruments of similar nature, in penalties not exceeding the sum of

\$50,000,000.00

and to bind the Company thereby, as fully and to the same extent as if such instruments were signed by the duly authorized officers of the Company; and all acts of said Attorney pursuant to the authority given are hereby ratified and confirmed.

This power of attorney is made and executed pursuant to and by authority of the following resolution duly adopted by the board of directors of the Company:

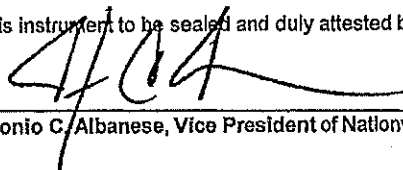
"RESOLVED, that the president, or any vice president be, and each hereby is, authorized and empowered to appoint attorneys-in-fact of the Company, and to authorize them to execute and deliver on behalf of the Company any and all bonds, forms, applications, memorandums, undertakings, recognizances, transfers, contracts of indemnity, policies, contracts guaranteeing the fidelity of persons holding positions of public or private trust, and other writings obligatory in nature that the business of the Company may require; and to modify or revoke, with or without cause, any such appointment or authority; provided, however, that the authority granted hereby shall in no way limit the authority of other duly authorized agents to sign and countersign any of said documents on behalf of the Company."

"RESOLVED FURTHER, that such attorneys-in-fact shall have full power and authority to execute and deliver any and all such documents and to bind the Company subject to the terms and limitations of the power of attorney issued to them, and to affix the seal of the Company thereto; provided, however, that said seal shall not be necessary for the validity of any such documents."

This power of attorney is signed and sealed under and by the following bylaws duly adopted by the board of directors of the Company.

Execution of Instruments. Any vice president, any assistant secretary or any assistant treasurer shall have the power and authority to sign or attest all approved documents, instruments, contracts, or other papers in connection with the operation of the business of the company in addition to the chairman of the board, the chief executive officer, president, treasurer or secretary; provided, however, the signature of any of them may be printed, engraved, or stamped on any approved document, contract, instrument, or other papers of the Company.

IN WITNESS WHEREOF, the Company has caused this instrument to be sealed and duly attested by the signature of its officer the 1st day of May, 2017.



Antonio C. Albanese, Vice President of Nationwide Mutual Insurance Company

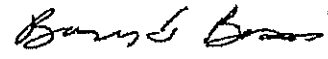
ACKNOWLEDGMENT

STATE OF NEW YORK, COUNTY OF NEW YORK: ss

On this 1st day of May, 2017, before me came the above-named officer for the Company aforesaid, to me personally known to be the officer described in and who executed the preceding instrument, and he acknowledged the execution of the same, and being by me duly sworn, deposes and says, that he is the officer of the Company aforesaid, that the seal affixed hereto is the corporate seal of said Company, and the said corporate seal and his signature were duly affixed and subscribed to said instrument by the authority and direction of said Company.



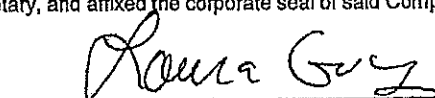
BARRY T. BASSIS
Notary Public, State of New York
No. 02BA4656400
Qualified in New York County
Commission Expires April 30, 2019


Notary Public
My Commission Expires
April 30, 2019

CERTIFICATE

I, Laura B. Guy, Assistant Secretary of the Company, do hereby certify that the foregoing is a full, true and correct copy of the original power of attorney issued by the Company; that the resolution included therein is a true and correct transcript from the minutes of the meetings of the boards of directors and the same has not been revoked or amended in any manner; that said Antonio C. Albanese was on the date of the execution of the foregoing power of attorney the duly elected officer of the Company, and the corporate seal and his signature as officer were duly affixed and subscribed to the said instrument by the authority of said board of directors; and the foregoing power of attorney is still in full force and effect.

IN WITNESS WHEREOF, I have hereunto subscribed my name as Assistant Secretary, and affixed the corporate seal of said Company this 20th day of June, 2017.

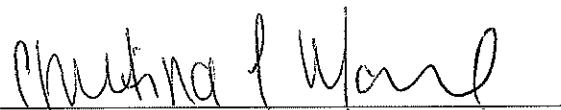

Assistant Secretary

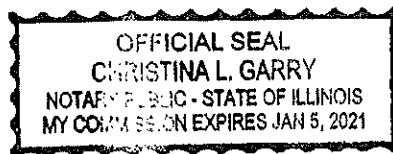
State of Illinois}
} ss.
County of DuPage }

On June 20, 2017, before me, a Notary Public in and for said County and State, residing therein, duly commissioned and sworn, personally appeared Dawn L. Morgan, known to me to be Attorney-in-Fact of Nationwide Mutual Insurance Company, the corporation described in and that executed the within and foregoing instrument, and known to me to be the person who executed the said instrument in behalf of the said corporation, and he duly acknowledged to me that such corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year stated in this certificate above.

My Commission Expires January 5, 2021


Christina L. Garry, Notary Public



Commission No. 849330

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF

Vermillion Drain, The Heritage at Vermillion Section 3 Arm

NOTICE

To Whom It May Concern and: _____

Notice is hereby given of the hearing of the Hamilton County Drainage Board on the **Vermillion Drain, The Heritage at Vermillion Section 3 Arm** on **June 25, 2018** at **9:00 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

Vermillion Drain, The Heritage at Vermillion Section 3 Arm

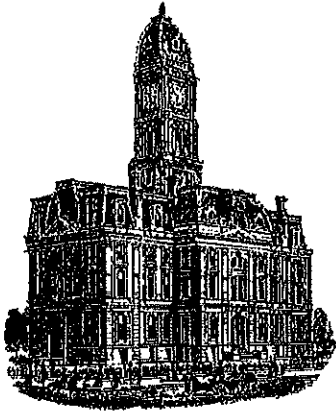
NOTICE

Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on **June 25, 2018** 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



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

August 15, 2018

Re: Vermillion Drain – The Heritage at Vermillion Sec. 3

Attached are as-built, certificate of completion & compliance, and other information for The Heritage at Vermillion Sec. 3. 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 April 13, 2018. The report was approved by the Board at the hearing held June 25, 2018. (See Drainage Board Minutes Book 18, Pages 184-185) The changes are as follows: the 12" RCP was shortened from 577 feet to 572 feet. The 15" RCP was lengthened from 178 feet to 179 feet. The 18" RCP was lengthened from 181 feet to 185 feet. The 24" RCP was lengthened from 243 feet to 244 feet. The 30" RCP was shortened from 346 feet to 342 feet. The 6" SSD was shortened from 2,811 feet to 2,805 feet. The length of the drain due to the changes described above is now **4,327 feet**.

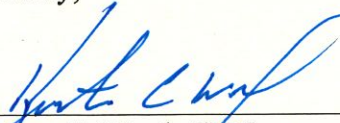
The non-enforcement was approved by the Board at its meeting on June 25, 2018 and recorded under instrument #2018031189.

The following sureties were guaranteed by Nationwide Mutual Insurance Company and released by the Board on its July 23, 2018 meeting.

Bond-LC No: SNN4006902
Amount: \$196,186.00
For: Storm Sewers & SSD
Issue Date: June 20, 2017

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

Sincerely,



Kenton C. Ward, CFM
Hamilton County Surveyor

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: *The Heritage at Vermillion Section 3*

I hereby certify that:

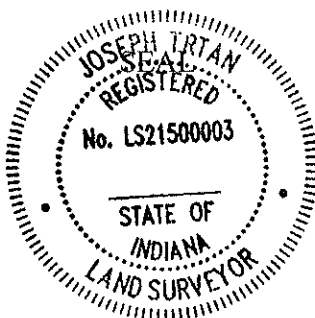
1. I am a Registered Land Surveyor or Engineer in the State of Indiana.
2. I am familiar with the plans and specifications for the above referenced subdivision.
3. I have personally observed and supervised the completion of the drainage facilities for the above referenced subdivision.
4. The drainage facilities within the above referenced subdivision to the best of my knowledge, information and belief have been installed and completed in conformity with all plans and specifications.
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: *JE Tritan* Date: *3/22/18*

Type or Print Name: *Joseph Tritan*

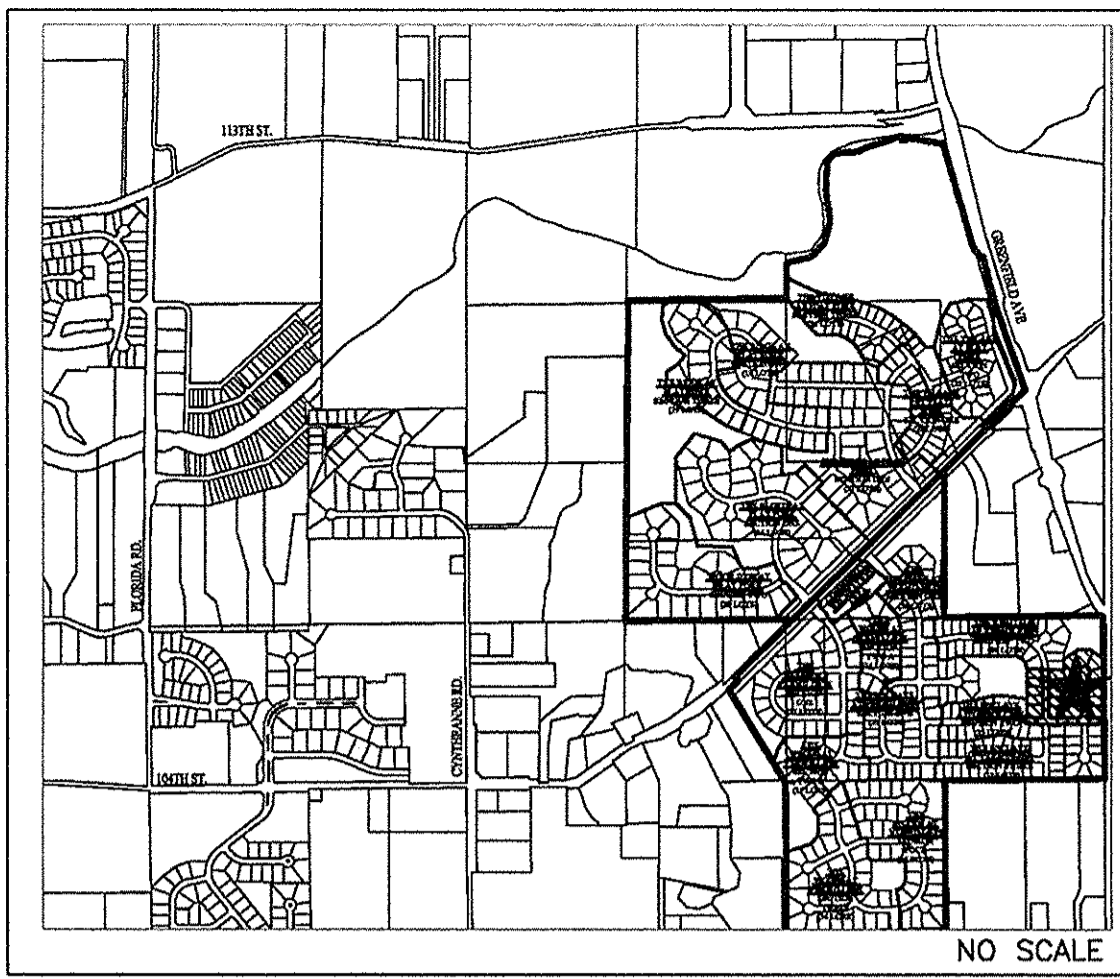
Business Address: *10505 N. College Ave*
Indianapolis, Indiana

Telephone Number: *317 846-6611*



INDIANA REGISTRATION NUMBER

LS21500003



AREA LOCATION MAP
NO SCALE

RECORD CONSTRUCTION DRAWINGS

THE HERITAGE AT VERMILLION

SECTION THREE

FALL CREEK TOWNSHIP, FORTVILLE, IN 46040



F.E.M.A. F.I.R.I.M.
NO SCALE

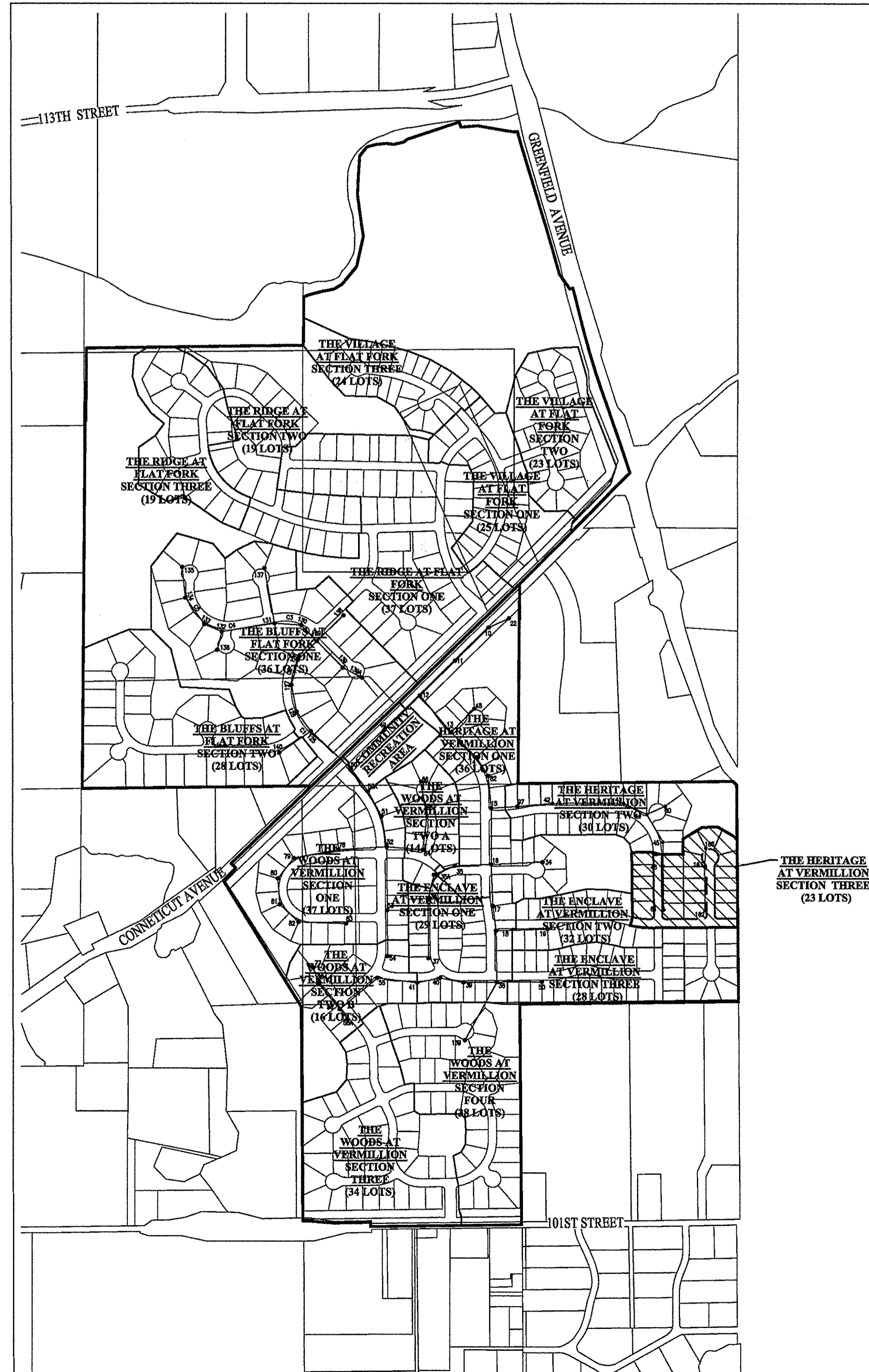
GENERAL NOTES

- 1) THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.
- 2) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING CONSTRUCTION
- 3) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY AND COORDINATE CONSTRUCTION WITH ALL RESPECTIVE UTILITIES.
- 4) ALL QUANTITIES GIVEN ON THESE PRINTS ARE ESTIMATES AND SHALL BE CONFIRMED BY THE BIDDING CONTRACTORS.
- 5) OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29 CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
- 6) TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL STANDARDS.
- 7) THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH THE PROJECT.
- 8) ANY FIELD TILES ENCOUNTERED DURING EXCAVATION SHALL BE REPAIRED AND CONNECTED TO NEW STORM SEWERS AND POSITIVE DRAINAGE PRESERVED.
- 9) THE SITE DOES NOT LIE IN A SPECIAL FLOOD HAZARD AREA AS ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY - NATIONAL FLOOD INSURANCE PROGRAM, WHEN PLOTTED BY SCALE ON FLOOD INSURANCE RATE MAP #18057C0259G AND 18057C0278G, NOVEMBER 19, 2014.
- 10) BEARINGS, DIMENSIONS AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS & PLAT FOR EXACT INFORMATION.
- 11) THIS SITE DOES CONTAIN WETLANDS AS SHOWN ON THE U.S. DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE; FORTVILLE, INDIANA, NATIONAL WETLANDS INVENTORY MAP. NO WETLANDS ARE IMPACTED BY THIS DEVELOPMENT.
- 12) DESIGN PROFESSIONAL CERTIFYING PLANS FOR THE PROJECT ACKNOWLEDGES THEIR PROFESSIONAL RESPONSIBILITY FOR ENSURING THAT ALL WORK IS CORRECT, ACCURATE AND COMPLIES WITH ALL APPROPRIATE LAWS, STANDARDS, REGULATIONS AND ORDINANCES. IF AN ERROR OR OMISSION IS FOUND, THE DESIGN PROFESSIONAL ACCEPTS FULL RESPONSIBILITY AND SHALL DETERMINE A SOLUTION THAT COMPLIES WITH ALL APPROPRIATE LAWS, STANDARDS, REGULATIONS AND ORDINANCES. IF SUCH AN ERROR OR OMISSION IS FOUND, THE DEVELOPER IS NOT RELIEVED OF COMPLYING WITH ALL APPROPRIATE LAWS, STANDARDS, REGULATIONS AND ORDINANCES.
- 13) ALL WATER MAIN, HYDRANTS, AND WATER VALVES SHALL BE INSPECTED AND SHALL COMPLY WITH BACKFILL, BEDDING, AND THRUST BLOCK REQUIREMENTS PER TOWN OF FORTVILLE UTILITY STREET STANDARDS.
- 14) THE DESIGN AND CONSTRUCTION SHALL COMPLY WITH ALL ADA REQUIREMENTS. SHALL BE PROWAG COMPLIANT AND MEET ALL CURRENT INDOT STANDARD SPECIFICATIONS.
- 15) A ROAD CUT WILL NOT BE PERMITTED FOR ANY UTILITY AFTER A PROOF ROLL HAS BEEN COMPLETED. PRIOR TO A PROOF ROLL, ANY UTILITY PLACED WITHIN THE LIMITS OF THE ROADWAY SHALL BE BACKFILLED WITH GRANULAR MATERIAL AND COMPACTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS.

BENCHMARK INFORMATION

- SOURCE BENCHMARK**
- HSE 38
A BRONZE DISK STAMPED "HAMILTON COUNTY GEODETIC CONTROL" SET IN THE NORTH END OF THE EAST CONCRETE HANDRAIL ON THE BRIDGE OVER FALL CREEK ON SOUTHEASTERN PARKWAY SOUTH OF 113TH STREET.
N=1714311.26
E=271886.09
EL=809.14 (NAVD 88)
- TBM - WOODS 1**
MAG NAIL SET WITH WASHER IN THE CURB ON THE EAST SIDE OF VERMILLION DRIVE, APPROXIMATELY 12' +/- SOUTH OF THE STORM INLET AT THE SOUTH-WEST CORNER OF LOT 252 IN THE WOODS AT VERMILLION - SECTION ONE
N=1709211.04
E=271032.69
EL=861.40 (NAVD 88)
- TBM - RIDGE 1**
MAG NAIL SET WITH WASHER IN THE WALK ON THE WEST SIDE OF PORTAGE WOODS DRIVE, APPROXIMATELY 5' +/- NORTH AND 19' +/- WEST OF THE CENTERLINE INTERSECTION OF PORTAGE WOODS DRIVE AND HUNTING MEADOW DRIVE IN THE RIDGE AT VERMILLION - SECTION ONE
N=1712098.06
E=270413.43
EL=855.66 (NAVD 88)
- TBM - VILLAGE 1**
MAG NAIL SET IN THE WALK AT THE NORTHEAST CORNER OF CLIFFSIDE DRIVE AND BUCK RIDGE LANE, APPROXIMATELY 24' +/- NORTH OF THE CENTERLINE OF BUCK RIDGE LANE AND 21' +/- EAST OF THE CENTERLINE CLIFFSIDE DRIVE IN THE VILLAGE AT VERMILLION - SECTION ONE
N=1712107.64
E=271734.52
EL=857.24 (NAVD 88)
- TBM 2**
RAILROAD SPIKE SET IN THE WEST SIDE OF A UTILITY POLE LOCATED APPROXIMATELY 784' SOUTH OF THE NORTHEAST CORNER OF THE NORTHEAST QUARTER OF SECTION 8-117N-R6E.
N=1709400
E=273165
EL=864.60 (NAVD 88)

LATITUDE: 39°56'32" N, LONGITUDE: 85°51'52" W

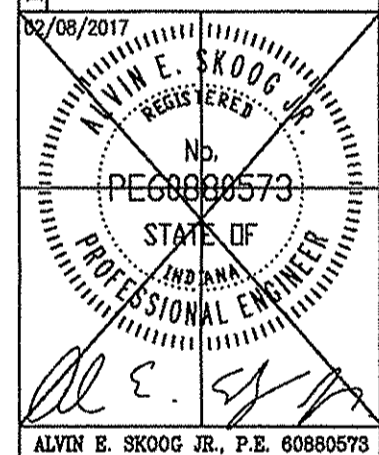


SITE MAP

SHEET NO.	DESCRIPTION
C001	TITLE SHEET
C100	EXISTING CONDITIONS / DEMOLITION PLAN
C200	STORMWATER POLLUTION PREVENTION PLAN PHASE 1
C201	STORMWATER POLLUTION PREVENTION PLAN PHASE 2
C202-C203	STORMWATER POLLUTION PREVENTION DETAILS & SPECS.
C300	DEVELOPMENT PLAN
C301	PONDING LIMITS/FLOOD ROUTING PLAN
C400-C401	STREET PLAN & PROFILE/INTERSECTION/CUL-DE-SAC DETAIL
C402-405	STREET DETAILS & SPECIFICATIONS
C406	TRAFFIC CONTROL/SIGNAGE/STREET LIGHT/SUMP PLAN
C500	SANITARY SEWER PLAN & PROFILE
C501-C502	SANITARY SEWER DETAILS & SPECIFICATIONS
C600-C601	STORM SEWER PLAN & PROFILE
C602-C603	STORM SEWER DETAILS
C700	WATER MAIN PLAN
C701-C703	WATER MAIN DETAILS/SPECIFICATIONS
L100	LANDSCAPE PLAN

RECORD DRAWING
03/22/2018

JOSEPH TRTAN, LS21500003



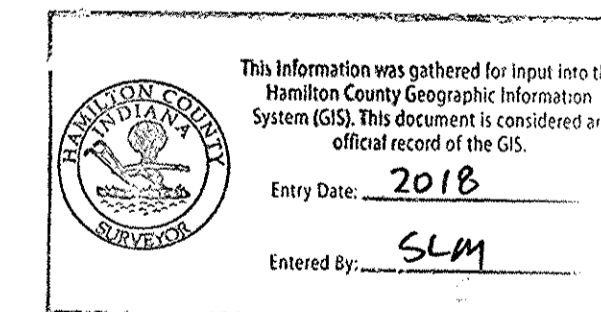
STREET DATA

STREET LENGTHS:	
STABLEVIEW DRIVE	416.49 LF.±
WILSONS FARM DRIVE	644.44 LF.±
MERIMAN COURT	397.00 LF.±
TOTAL	1,457.93 LF.±

NOTE: DESIGN SPEED FOR ALL INTERIOR ROADS SHALL BE 25 MPH.

SITE AREA:	
SITE	7.55 AC.±
LOTS	23

NOTE: THE HAMILTON COUNTY SURVEYOR'S OFFICE, HAMILTON COUNTY HIGHWAY DEPARTMENT, HSE UTILITIES, AND FORTVILLE WATER STANDARDS SHALL BE INCORPORATED BY REFERENCE INTO THESE PLANS.



PLANS PREPARED FOR

BEAZER HOMES INDIANA, LLP
9405 DELEGATES ROW
INDIANAPOLIS, IN 46240
TELEPHONE: 317-443-2712
CONTACT PERSON: CHAD OLDHAM

PLANS PREPARED BY

WEIHE ENGINEERS, INC.
10505 N. COLLEGE AVE.
INDIANAPOLIS, IN 46280
(317) 846-6611
CONTACT PERSON: ALVIN (RUSTY) SKOOG



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PER INDIANA STATE LAW IC 8-1-26,
IT IS AGAINST THE LAW TO EXCAVATE
WITHOUT NOTIFYING THE UNDERGROUND
LOCATION SERVICE TWO (2) WORKING
DAYS BEFORE COMMENCING WORK.

10505 N. College Avenue
Indianapolis, Indiana 46280
weihe.net
317 846 - 6611
800 1 452 - 6408
317 843 - 0546 fax
ALLAN H. WEIHE, P.E., I.S. - FOUNDER

WEIHE ENGINEERS
Land Surveying | Civil Engineering
Landscape Architecture

PROJECT NO.: W14.0496
DRG. NAME: AS SHOWN ON SHEET
DESIGNED BY: JET
DRAWN BY: JET
CHECKED BY: JET
DATE: 10.11.2018

BY: JET
DATE:

REVISIONS AND ISSUES:

02/08/2017
ALVIN E. SKOOG JR.
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA
LICENSE NO. PE6889573

FILED
MAR 23 2018
OFFICE OF HAMILTON COUNTY SURVEYOR

PREPARED FOR:
THE HERITAGE AT VERMILLION SECTION THREE
BEAZER HOMES, INDIANA, LLP
TITLE SHEET
Part of the 34.28 1/4 of Section 16, Township 17 North, Range 6 East, Paul Davis Township, Vermillion County, Indiana

SHEET NO.
C001
PROJECT NO.
W14.0496

LOCATION: W14.0496 Section 3 Engineering (Design/Construction) Job: Community 0001 Title: Street.dwg
 LAYOUT: C001
 PLOTTED BY: jpet
 PLOTTED DATE: 03/22/2018 8:58am

BENCHMARK INFORMATION

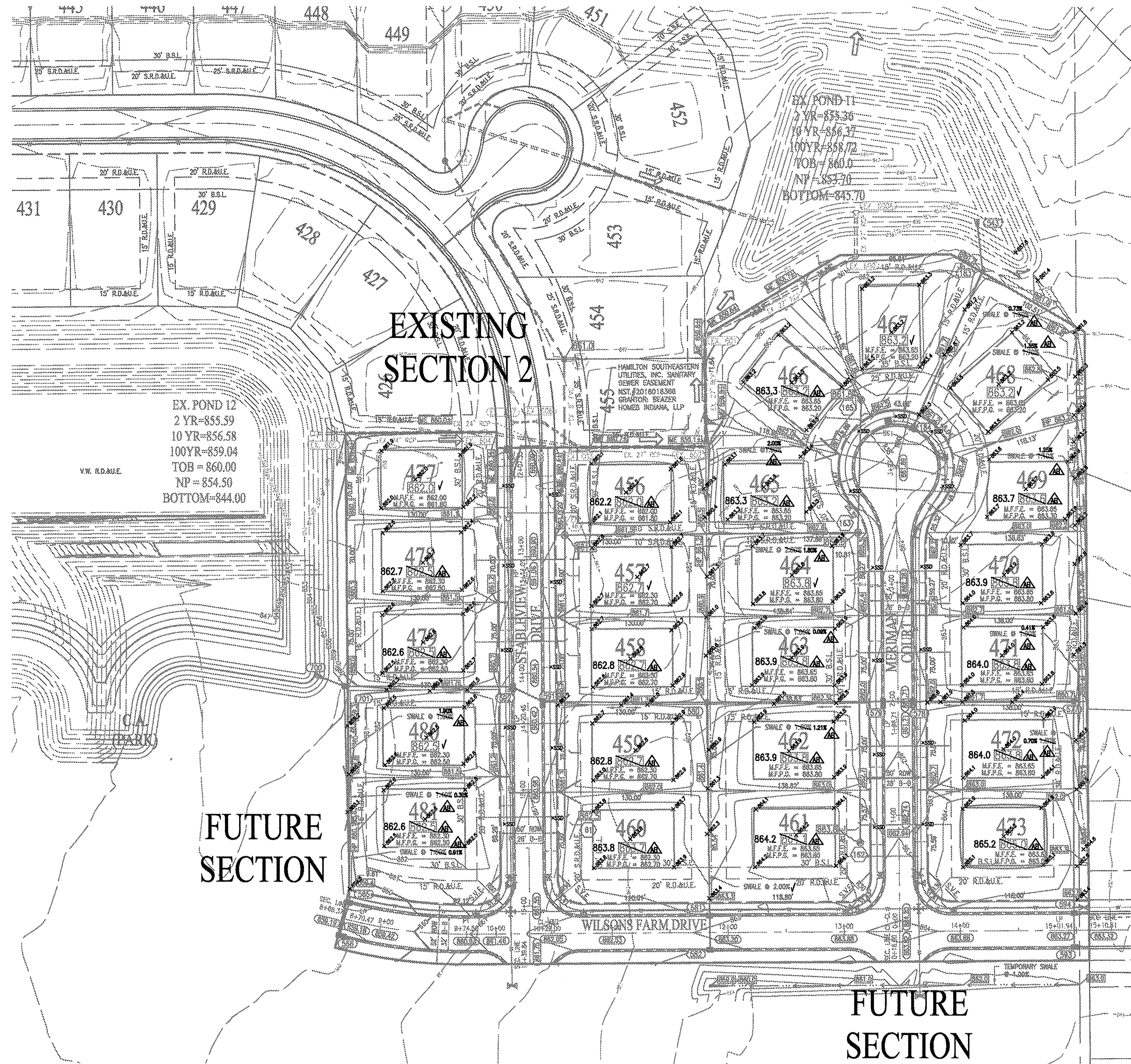
SOURCE BENCHMARK
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 N=1709400
 E=273165
 EL=864.60 (NAVD 88)



LEGEND

	= RIGHT-OF-WAY LINE
	= STORM SEWER LINE
	= SWALE
	= SANITARY SEWER LINE
	= SANITARY SEWER MANHOLE
	= SANITARY SEWER LATERAL
	= FLOW DIRECTION
	= EXISTING SPOT ELEVATION
	= EXISTING CONTOURS
	= PROPOSED ELEVATION
	= STORM BEDDING INLET
	= STORM INLET
	= WATER MAIN
	= FIRE HYDRANT WITH VALVE
	= TEE
	= VALVE
	= REDUCER
	= BLOW-OFF VALVE
	= TOP OF CASTING
	= INVERT
	= REINFORCED CONCRETE PIPE
	= MANHOLE
	= STRUCTURE
	= REGULATED DRAINAGE AND UTILITY EASEMENT
	= SANITARY, REGULATED DRAINAGE, AND UTILITY EASEMENT
	= SIGHT VISIBILITY EASEMENT
	= SANITARY SEWER
	= BUILDING SETBACK LINE
	= HANDICAP RAMP
	= MATCH EXISTING GRADE
	= STORM SEWER
	= GRANULAR BACKFILL
	= CONCRETE END SECTION
	= SUBSURFACE DRAIN
	= SANITARY SEWER PIPE (SDR-35)
	= SANITARY SEWER PIPE (SDR-35) (UNLESS OTHERWISE NOTED)
	= TYPICAL
	= PROPOSED
	= EXISTING
	= RADIUS
	= FULL PAD ELEV (55'x65') (ALL HALF PADS 55'x32.5')
	= VARIABLE WIDTH
	= ADA RAMP
	= TREE CONSERVATION EASEMENT
	= MINIMUM FLOOD PROTECTION GRADE
	= MINIMUM FINISH FLOOR ELEVATION

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY AND COORDINATE CONSTRUCTION WITH ALL RESPECTIVE UTILITIES.
3. ALL QUANTITIES GIVEN ON THESE PRINTS, ESTIMATES AND SHALL BE CONFIRMED BY THE BIDDING CONTRACTORS.
4. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL STANDARDS.
5. BEARINGS, DIMENSIONS, AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS AND PLATS FOR EXACT INFORMATION.
6. ALL SIDEWALKS TO BE 5'-0" WIDE AND INSTALLED AS SHOWN ON THIS PLAN.
7. 2" ROLLED CURB & GUTTER SHALL BE INSTALLED THROUGHOUT ENTIRE PROJECT AS SHOWN UNLESS NOTED OTHERWISE.
8. A HANDICAPPED RAMP IS TO BE INSTALLED AT ALL LOCATIONS WHERE A SIDEWALK IS SHOWN INTERSECTING A CURB - SEE DETAIL.
9. ANY DRAINAGE TILE SYSTEM COMING ONTO PROPERTY SHALL BE CONNECTED INTO THE PROPOSED DRAINAGE SYSTEM IN ORDER TO MAINTAIN POSITIVE DRAINAGE FOR THE OFFSITE SYSTEM.
10. REFER TO THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD SPECIFICATIONS, LATEST EDITION WITH SUPPLEMENTS, FOR BASIC MATERIALS AND CONSTRUCTION METHODS. FILL MATERIAL SHALL CONSIST OF EARTH OBTAINED FROM CUT AREAS, BORROW PITS OR OTHER APPROVED SOURCES. EARTH SHALL BE FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES AND LARGE ROCKS. THE FILL MATERIAL SHALL BE PLACED IN LAYERS NOT TO EXCEED SIX INCHES FOLLOWING COMPACTION. PROPER MOISTURE CONTENT OF FILL MATERIAL WILL BE SUCH TO ACHIEVE SPECIFIED COMPACTION DENSITY. ALL FILL BENEATH PAVED AREAS, FLOOR SLABS AND FUTURE BUILDINGS SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY PER ASTM D-1557. FIELD COMPACTION TEST SHALL BE RUN ON EACH LIFT, IN FULL SECTIONS, AND THE REQUIRED COMPACTION ON EACH LIFT SHALL BE IN ACCORDANCE WITH INDOT SECTION 211.
11. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO LOCATE MAINS, CONDUITS, SERVICE LINES, ETC. IN THE AFFECTED CONSTRUCTION AREA. EXISTING UTILITY STRUCTURES ARE SHOWN HERE IN ACCORDANCE WITH AVAILABLE INFORMATION. THE LOCATION AND PROTECTION OF UTILITY STRUCTURES, THEIR SUPPORT AND MAINTENANCE DURING CONSTRUCTION (IN COOPERATION WITH APPLICABLE UTILITY COMPANY) IS THE EXPRESSED RESPONSIBILITY OF THE CONTRACTOR.
12. ALL SPOT ELEVATIONS ARE TO FINISHED GRADE.
13. ALL GRADES AT BOUNDARY SHALL MEET EXISTING.
14. ANY PART OF SANITARY OR STORM SEWER TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVEMENT TO BE BACKFILLED WITH GRANULAR MATERIAL.
15. ALL CONSTRUCTION ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH O.S.H.A. STANDARDS FOR WORKER SAFETY.
16. THE CONTRACTOR SHALL CONFIRM ALL EARTHWORK QUANTITIES PRIOR TO THE START OF CONSTRUCTION. IF AN EXCESS OR SHORTAGE OF EARTH IS ENCOUNTERED, THE CONTRACTOR SHALL CONFIRM WITH THE OWNER AND ENGINEER THE REQUIREMENTS FOR STOCKPILING, REMOVAL OR IMPORTING OF EARTH.
17. PROVIDE POSITIVE DRAINAGE WITHOUT PONDING IN ALL AREAS AFTER INSTALLATION. CONTRACTOR TO TEST FOR AND CORRECT ANY PONDING CONDITIONS.
18. ALL 6" SSD SHALL BE DOUBLE WALL SMOOTH BORE PIPE. (SEE HAMILTON COUNTY STANDARD DETAILS)
19. THE FINISHED FLOOR GRADE FOR EACH LOT MUST BE 6" ABOVE PAD, CENTER OF LOT, M.F.P.G OR M.F.F.E., WHICHEVER IS HIGHEST.
20. UNLESS APPROVED OTHERWISE BY HSE, THE FINISHED FLOOR FLOOR ELEVATIONS ON A PLOT PLAN FOR A LOT IN THIS DEVELOPMENT CANNOT EXCEED THE CORRESPONDING MINIMUM FINISH FLOOR ELEVATION (M.F.F.E.) SHOWN HEREON BY MORE THAN FIVE TENTHS (0.50) FOOT.

10505 N. College Avenue
 Indianapolis, Indiana 46280
 weibe.net
 317.846.6611
 800.452.6408
 317.843.0546 fax
 ALLAN H. WEIBE, P.E., I.L.S. - FOUNDER

WEIBE ENGINEERS
 Land Surveying | Civil Engineering
 Landscape Architecture

PROJECT NO.: W14-0496
 DTG VALUE: 11/14/2018
 NO. COPIES DEVELOPED: 10
 DISIGNED BY: JET
 DRAWN BY: JET
 CHECKED BY: JET
 DATE: 10.11.2018

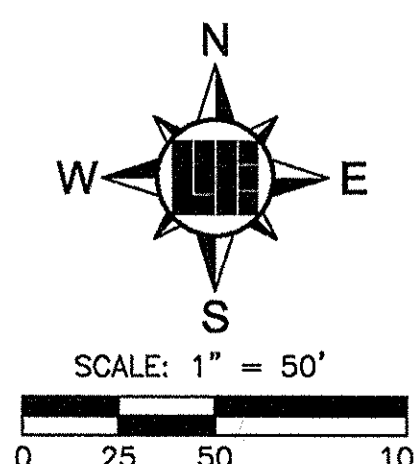
DATE: 10/26/2018
 WITHIN 5000' OF REGISTERED PROFESSIONAL ENGINEER
 No. PE00000573
 STATE OF INDIANA
 ALLAN H. WEIBE, P.E.
 ALLAN H. WEIBE, P.E. 608800573

PREPARED FOR:
THE HERITAGE AT VERMILLION SECTION THREE
 BEAZER HOMES, INDIANA, LLP
 DEVELOPMENT PLAN
 Part of the 37.58 1/4 of Section 16, Township 17 North, Range 6 East, Paul Creek Township, Hamilton County, Indiana

SHEET NO.
C300
 PROJECT NO.
 W14.0496

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: 2018
 Entered By: SLM

RECORD DRAWING
 DEVELOPMENT PLAN AS-BUILTS
 PADS AND SWALES ONLY
 03/22/2018
 JET
 JOSEPH TRTAN, LS21500003



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 IT IS AGAINST THE LAW TO EXCAVATE
 WITHOUT NOTIFYING THE UNDERGROUND
 LOCATION SERVICE TWO (2) WORKING
 DAYS BEFORE COMMENCING WORK.

BENCHMARK INFORMATION

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E=271886.09
EL=809.14 (NAVD 88)

EX. POND 12
2 YR=855.59
10 YR=856.58
100YR=859.04
TOB = 860.00
NP = 854.50
BOTTOM=844.00

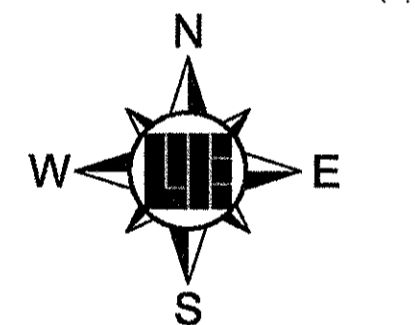
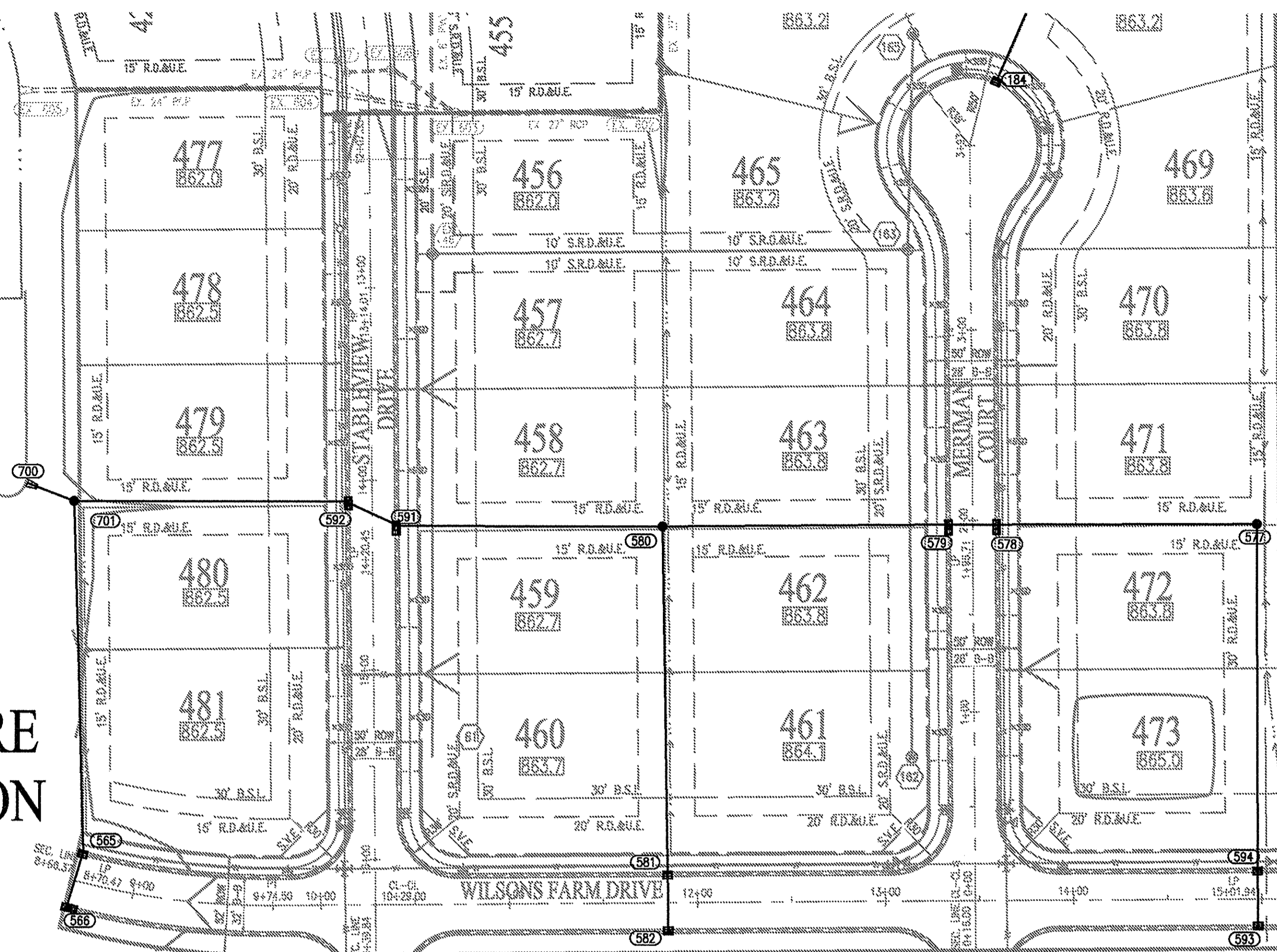
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EL=855.66 (NAVD 88)

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E=271734.52
EL=857.24 (NAVD 88)

TBM 2
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E=273165
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FUTURE SECTION

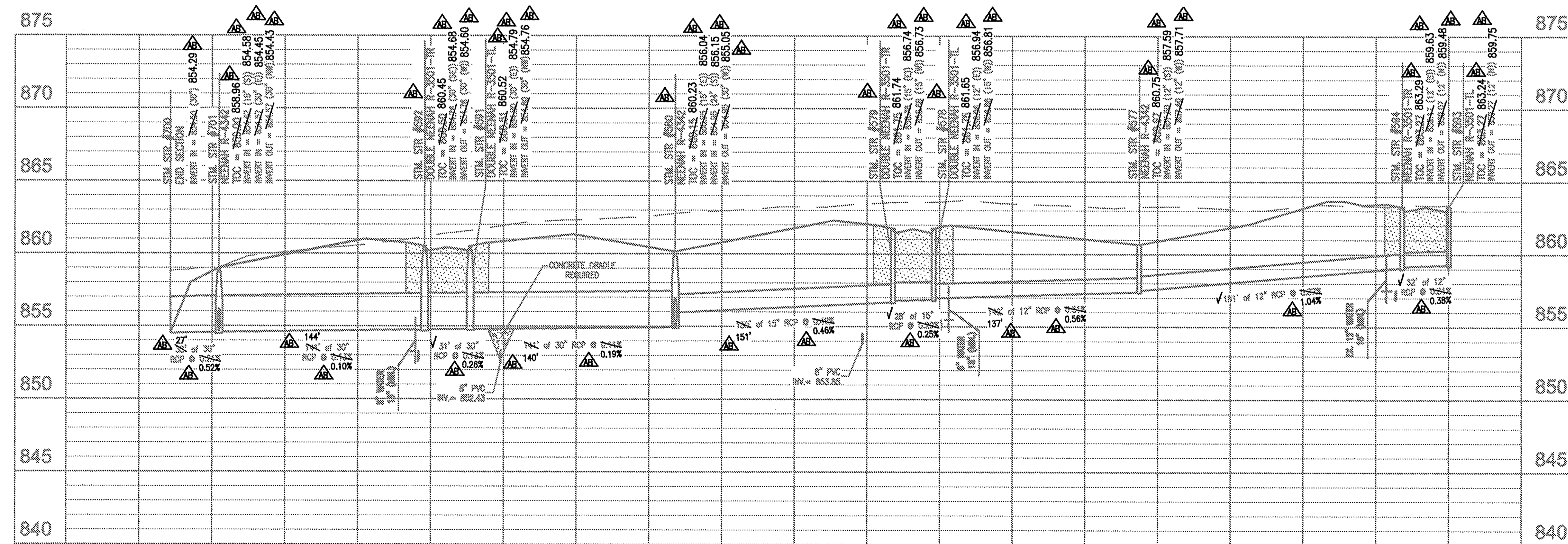
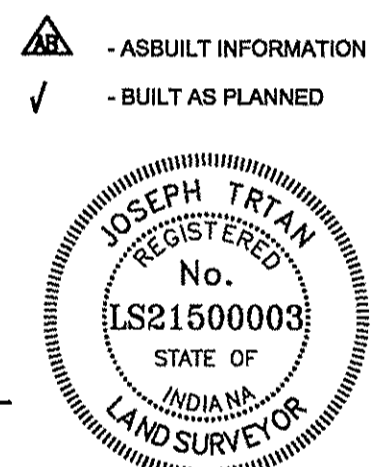


NOTE:
EXCEPT FOR FORCE MAINS, CONTRACTOR TO INSTALL CONCRETE CHAMBERS WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWER FACILITIES AND STORM SEWERS IS 18" OR LESS.

STRUCTURE NUMBER	STRUCTURE TYPE	TOP OF CASTING	CASTING TYPE	INVERT
183	INLET TYPE A	860.70	NEENAH R-4342	INV IN = 858.50(SW) INV OUT = 856.80(W)
184	INLET TYPE A	860.89	NEENAH R-3501-TL	INV OUT = 858.89(NE)
543	END SECTION	N/A	N/A	INV IN = 853.70(S)
585	INLET TYPE J	859.19	NEENAH R-3501-TL	INV IN = 855.08(S) INV OUT = 854.98(N)
586	DOUBLE CURB INLET	859.19	NEENAH R-3501-TR	INV OUT = 855.19(N)
577	INLET TYPE A	860.87	NEENAH R-4342	INV IN = 857.50(S) INV OUT = 857.40(W)
578	DOUBLE CURB INLET	861.75	NEENAH R-3501-TL	INV IN = 859.88(E) INV OUT = 858.88(W)
579	DOUBLE CURB INLET	861.75	NEENAH R-3501-TR	INV IN = 858.78(E) INV OUT = 856.68(W)
580	8" DIA. MANHOLE	863.15	NEENAH R-4342	INV IN = 855.95(E) INV OUT = 854.98(W)
581	8" DIA. MANHOLE	863.10	NEENAH R-3501-TL	INV IN = 865.20(S) INV OUT = 855.20(N)
582	8" DIA. MANHOLE	863.10	NEENAH R-3501-TR	INV IN = 855.25(S) INV OUT = 855.25(W)
591	DOUBLE CURB INLET	860.51	NEENAH R-3501-TL	INV IN = 854.80(E) INV OUT = 854.80(W)
592	DOUBLE CURB INLET	860.50	NEENAH R-3501-TR	INV IN = 854.78(E) INV OUT = 854.78(W)
593	INLET TYPE A	863.27	NEENAH R-3501-TL	INV OUT = 859.27(N)
594	INLET TYPE A	863.27	NEENAH R-3501-TR	INV IN = 859.17(S) INV OUT = 859.07(N)
700	END SECTION	N/A	N/A	INV IN = 864.50(NE)
701	8" DIA. MANHOLE	859.00	NEENAH R-4342	INV IN = 854.07(S) INV OUT = 854.57(N)

DOWNSIDE STRUCTURE	UPSTREAM STRUCTURE	SIZE	MATERIAL	LENGTH	SLOPE
183	643	12"	RCP	48'	4.77%
184	183	12"	RCP	144'	0.98%
585	586	12"	RCP	32'	0.31%
577	578	12"	RCP	142'	0.31%
578	579	18"	RCP	28'	0.28%
579	580	18"	RCP	150'	0.40%
580	581	30"	RCP	143'	0.11%
580	581	30"	RCP	181'	0.14%
581	582	24"	RCP	32'	0.16%
582	185	24"	RCP	30'	0.13%
591	592	30"	RCP	31'	0.13%
592	701	30"	RCP	141'	0.13%
593	594	12"	RCP	32'	0.31%
594	577	12"	RCP	181'	0.87%
700	701	30"	RCP	33'	0.21%
701	565	18"	RCP	181'	0.18%

RECORD DRAWING
STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
03/22/2018
JOSEPH TRTAN, LS2150003



PROFILE LEGEND	
	EXISTING GRADE
	FINISHED GRADE
	GRANULAR BACKFILL

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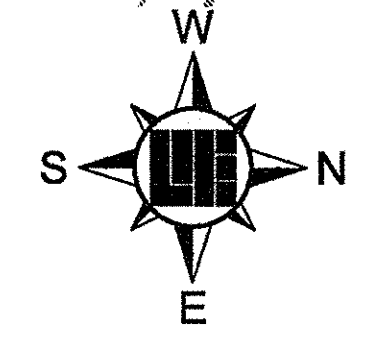
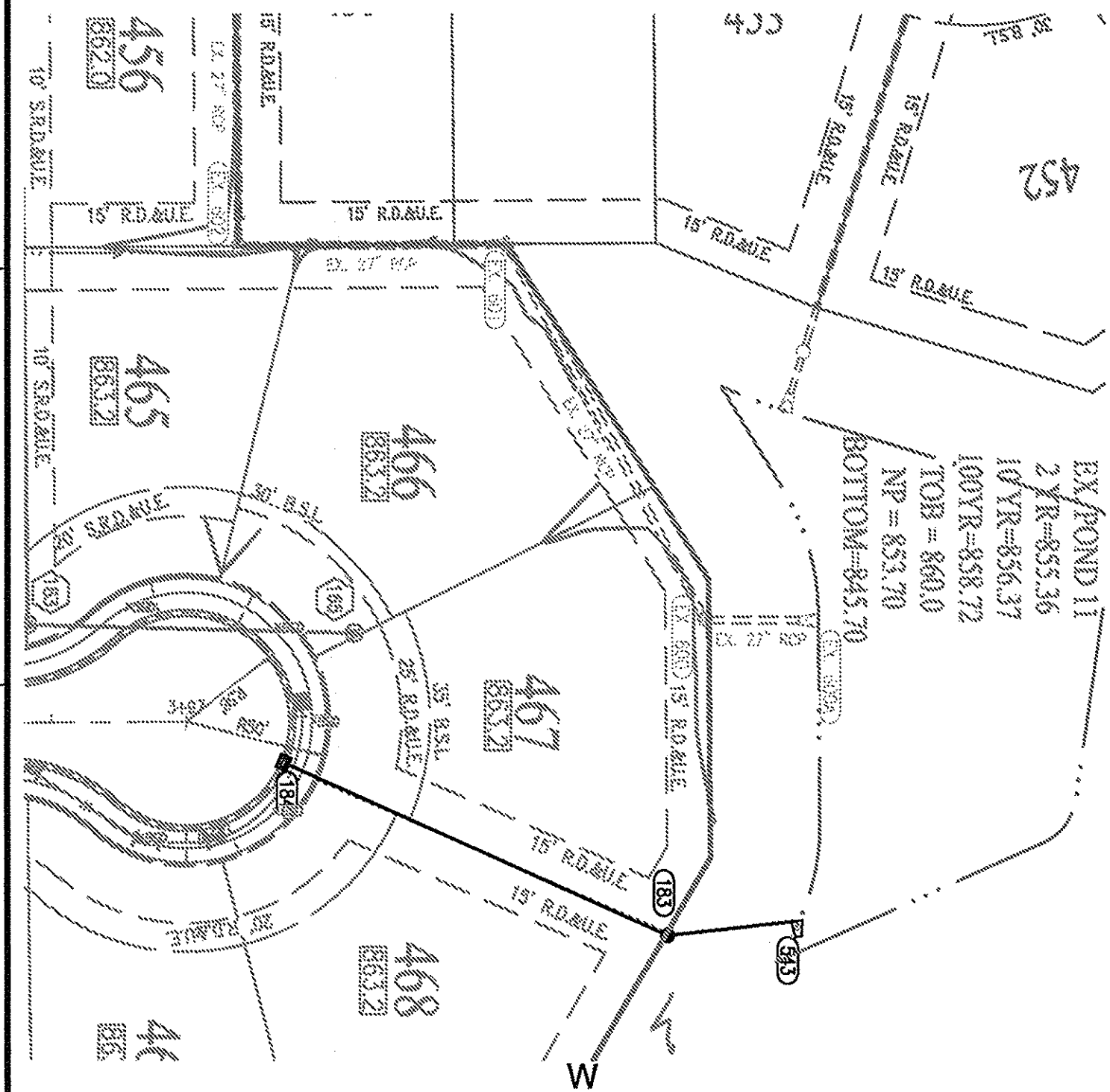
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317 | 843 - 0546 fax
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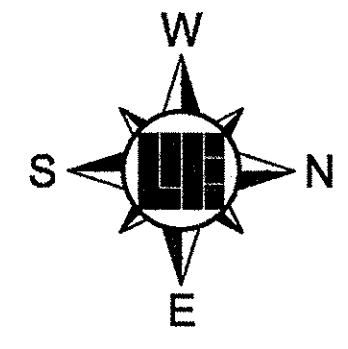
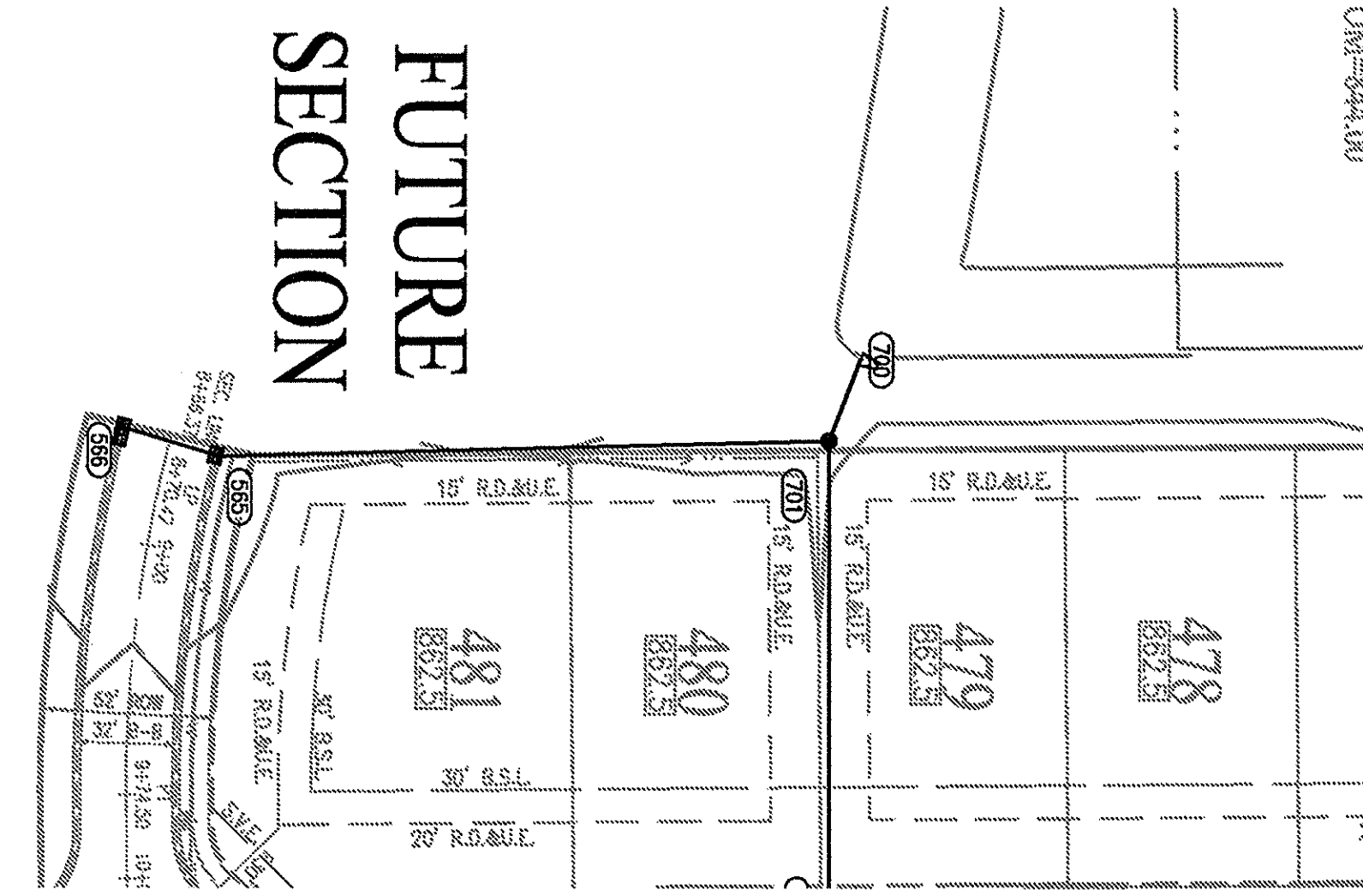
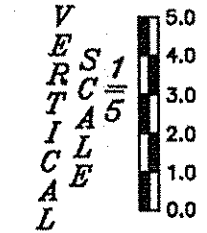
PROJECT NO.: W14.0496
DATE: 10.11.2016
BY: JET
DATE: 03/22/2018

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THE HERITAGE AT VERMILLION SECTION THREE
BEAZER HOMES, INDIANA, LLP
STORM SEWER PLAN & PROFILE
Part of the 37.58 1/4 of Section 16, Township 17 North, Range 6 East, Paul Deak Township, Vermillion County, Indiana.

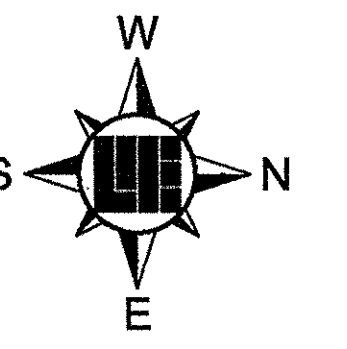
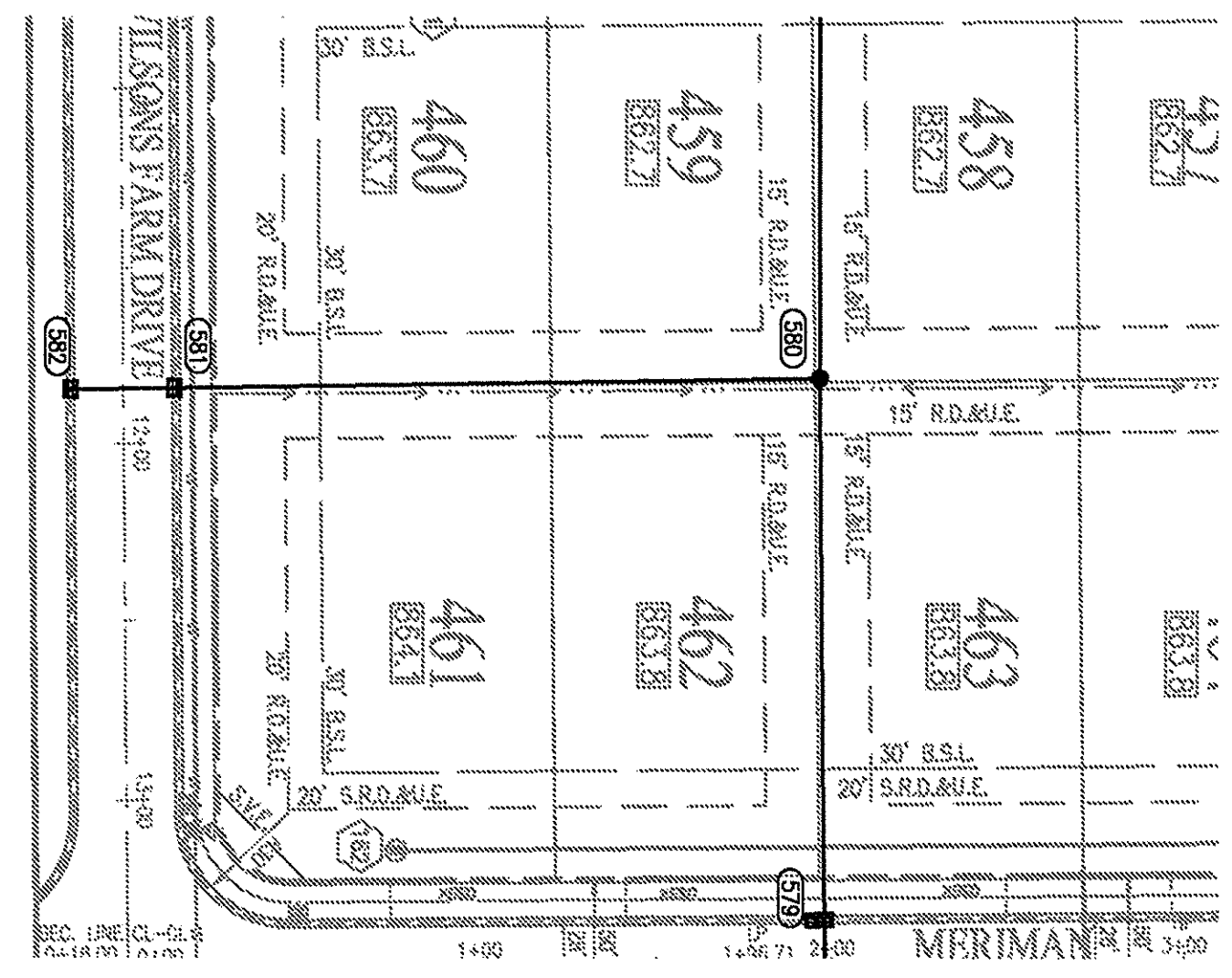
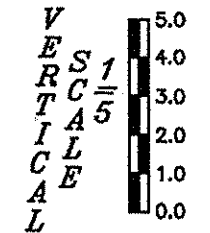
SHEET NO.
C600
PROJECT NO.
W14.0496



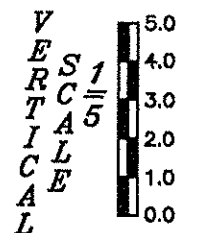
HORIZONTAL SCALE:
1"=50'



HORIZONTAL SCALE:
1"=50'



HORIZONTAL SCALE:
1"=50'



NOTE:
EXCEPT FOR FORCE MAINS, CONTRACTOR TO INSTALL CONCRETE CRADLES WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWER FACILITIES AND STORM SEWERS IS 16" OR LESS.

BENCHMARK INFORMATION

SOURCE BENCHMARK
HSE 38
A BRONZE DISK STAMPED "HAMILTON COUNTY GEODETIC CONTROL" SET IN THE NORTH END OF THE EAST CONCRETE HANDRAIL ON THE BRIDGE OVER FALL CREEK ON SOUTHEASTERN PARKWAY SOUTH OF 113TH STREET.
N=1714311.26
E=271886.09
EL=809.14 (NAVD 88)

TBM - WOODS 1
MAG NAIL SET WITH WASHER IN THE CURB ON THE EAST SIDE OF VERMILLION DRIVE, APPROXIMATELY 12' +/- SOUTH OF THE STORM INLET AT THE SOUTHWEST CORNER OF LOT 252 IN THE WOODS AT VERMILLION - SECTION ONE
N=1709211.04
E=271032.69
EL=861.40 (NAVD 88)

TBM - RIDGE 1
MAG NAIL SET WITH WASHER IN THE WALK ON THE WEST SIDE OF PORTAGE WOODS DRIVE, APPROXIMATELY 5' +/- NORTH AND 19' +/- WEST OF THE CENTERLINE INTERSECTION OF PORTAGE WOODS DRIVE AND HUNTING MEADOW DRIVE IN THE RIDGE AT VERMILLION - SECTION ONE
N=1712098.06
E=270413.43
EL=855.66 (NAVD 88)

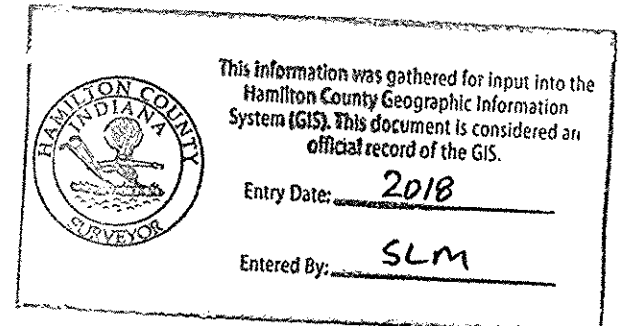
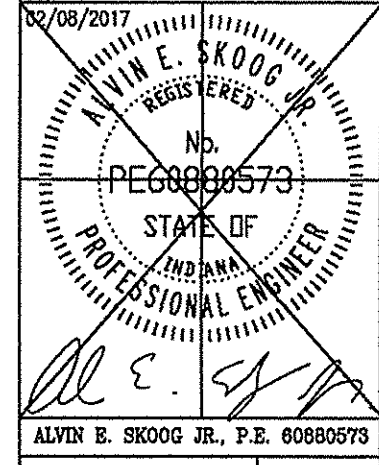
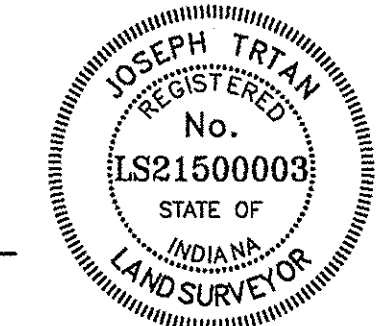
TBM - VILLAGE 1
MAG NAIL SET IN THE WALK AT THE NORTHEAST CORNER OF CLIFFSIDE DRIVE AND BUCK RIDGE LANE, APPROXIMATELY 24' +/- NORTH OF THE CENTERLINE OF BUCK RIDGE LANE AND 21' +/- EAST OF THE CENTERLINE CLIFFSIDE DRIVE IN THE VILLAGE AT VERMILLION - SECTION ONE
N=1712107.64
E=271734.52
EL=857.24 (NAVD 88)

TBM 2
RAILROAD SPIKE SET IN THE WEST SIDE OF A UTILITY POLE LOCATED APPROXIMATELY 784' SOUTH OF THE NORTHEAST CORNER OF THE NORTHEAST QUARTER OF SECTION 8-T17N-R6E.
N=1709400
E=273165
EL=864.60 (NAVD 88)

RECORD DRAWING
STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
03/22/2018

JOSEPH TRTAN, LS21500003

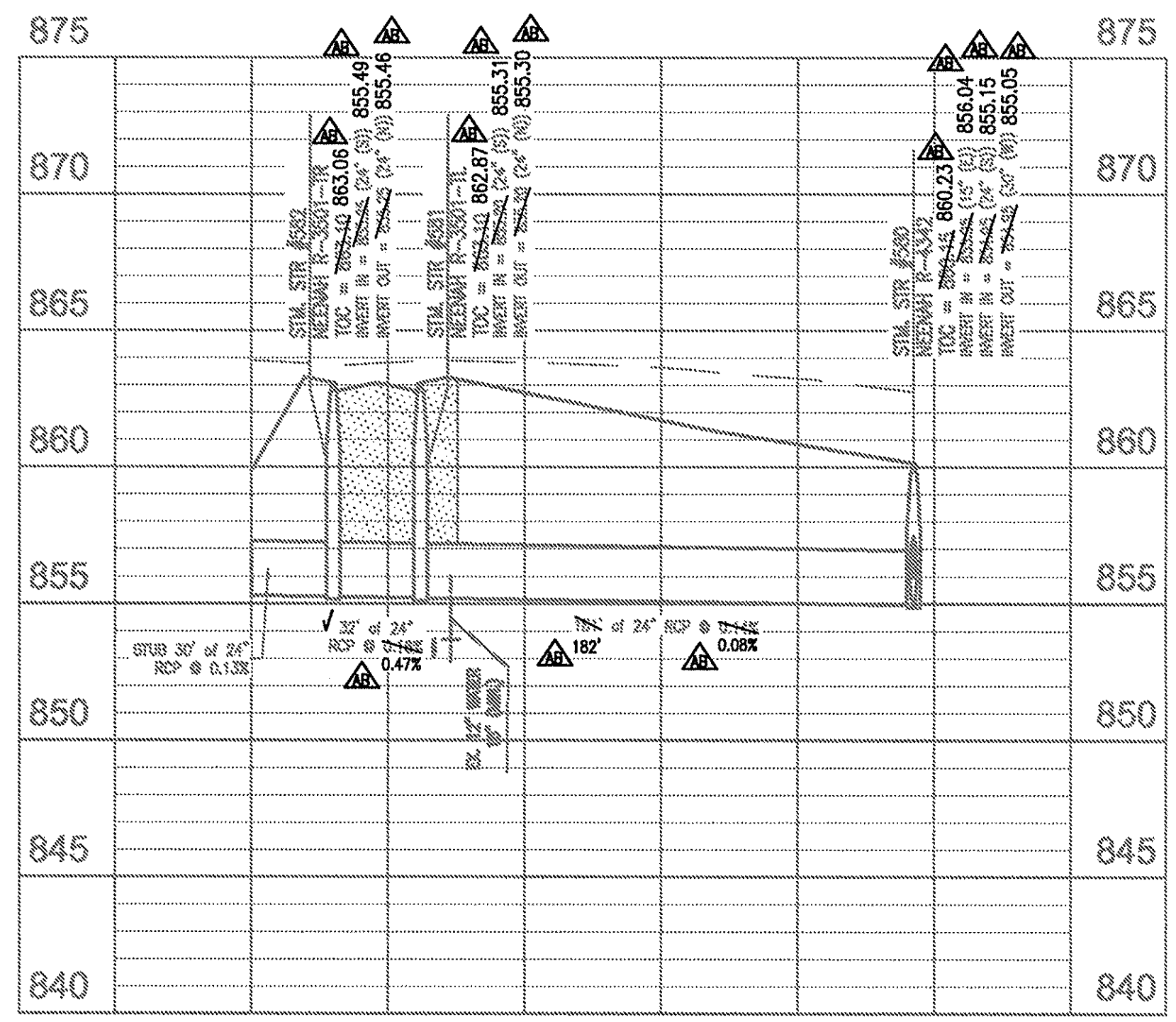
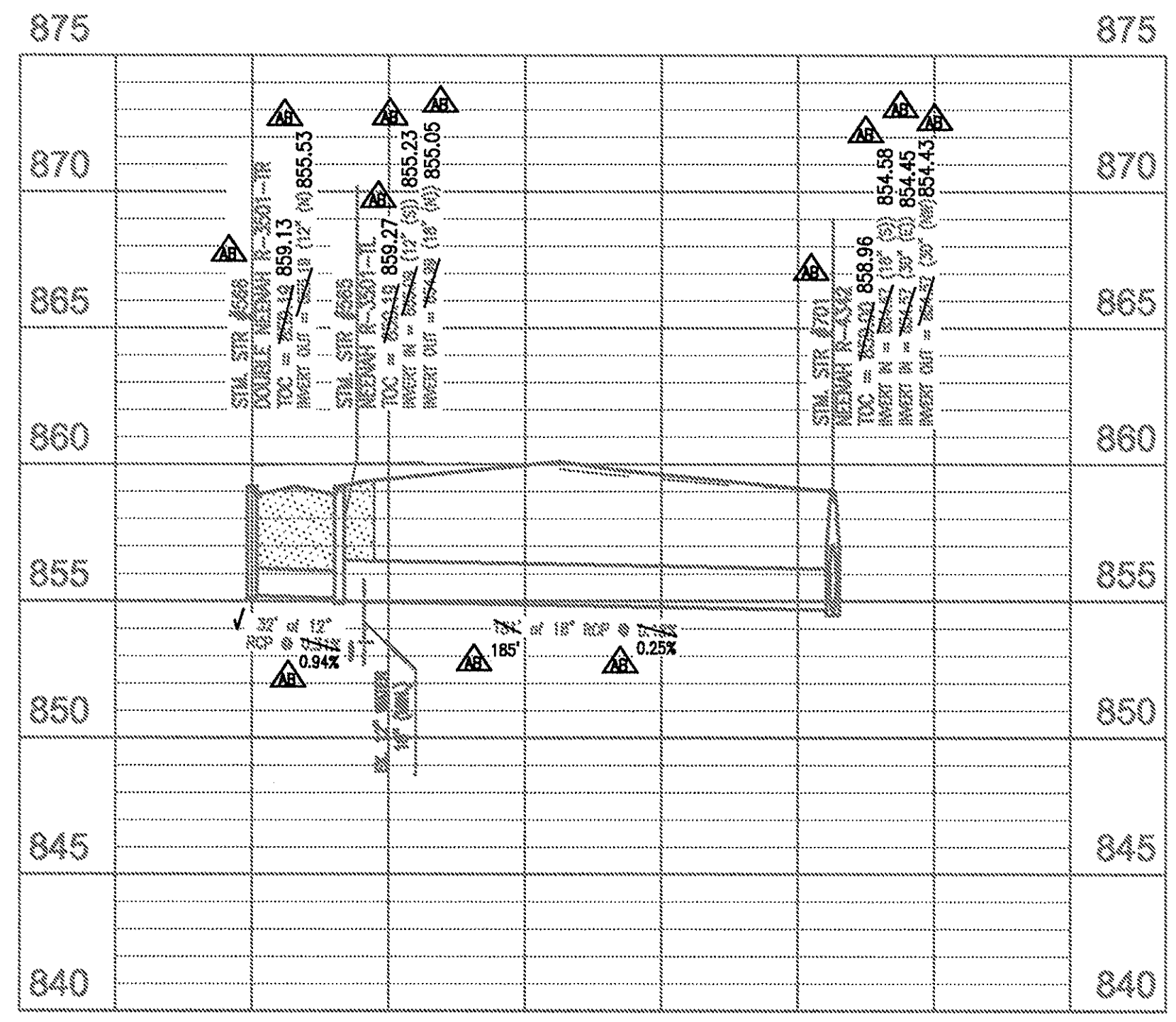
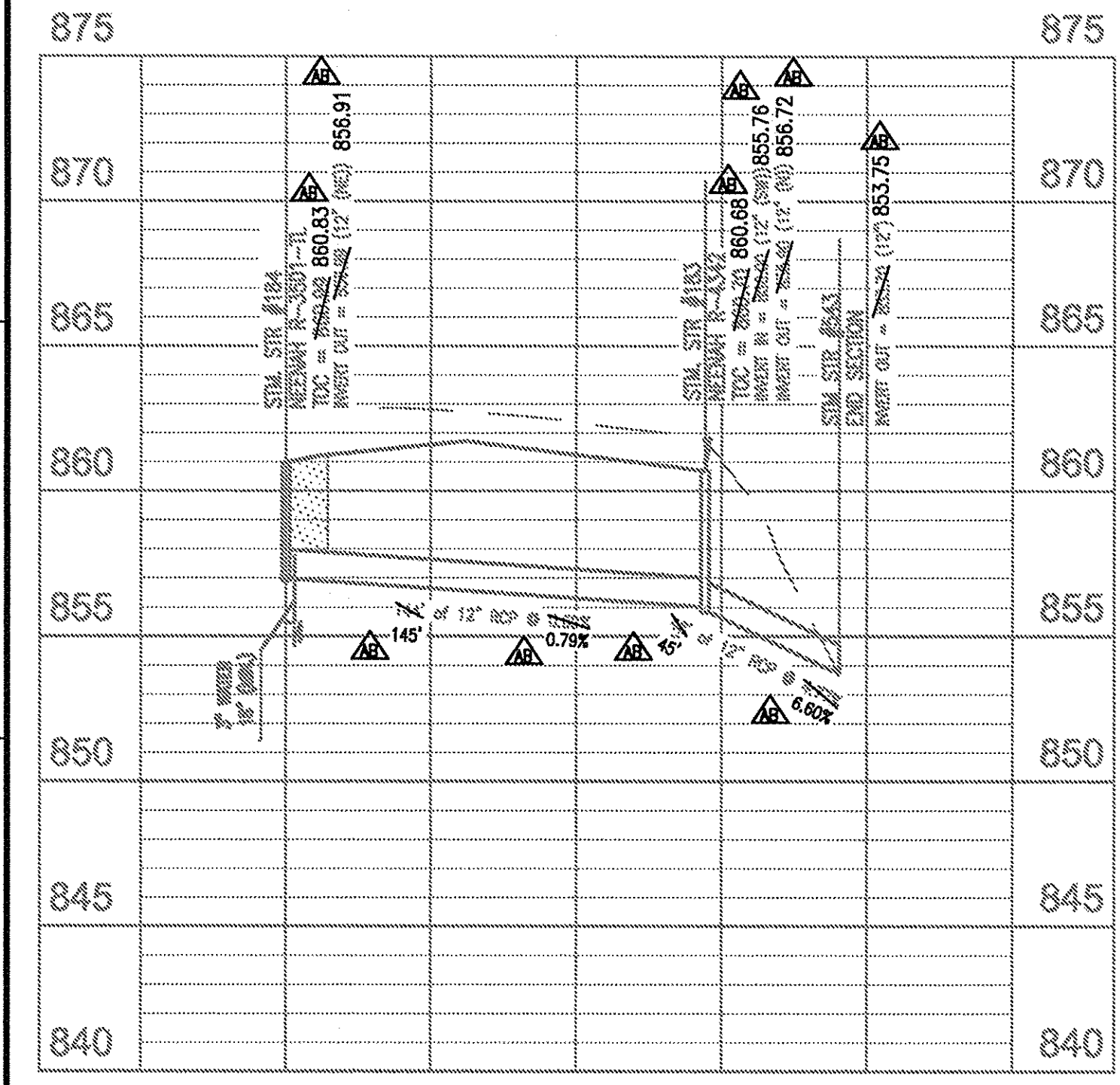
AS-BUILT INFORMATION
BUILT AS PLANNED



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PROFILE LEGEND

	EXISTING GRADE
	FINISHED GRADE
	GRANULAR BACKFILL



PREPARED FOR:
THE HERITAGE AT VERMILLION SECTION THREE
BEAZER HOMES, INDIANA, LLP
STORM SEWER PLAN & PROFILE
Part of the 31.58 1/4 of Section 16, Township 17 North, Range 6 East, Full Circle Township, Hamilton County, Indiana.

SHEET NO.
C601

PROJECT NO.
W14.0496

LOCATION: W:\2014\W140496\Section 3\Engineering\As-Built\W14.0496 Storm Plan.dwg
DATE: 03/22/2018 10:27 AM
DRAWN BY: jtrt

BENCHMARK INFORMATION

SOURCE BENCHMARK

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TBM - WOODS 1

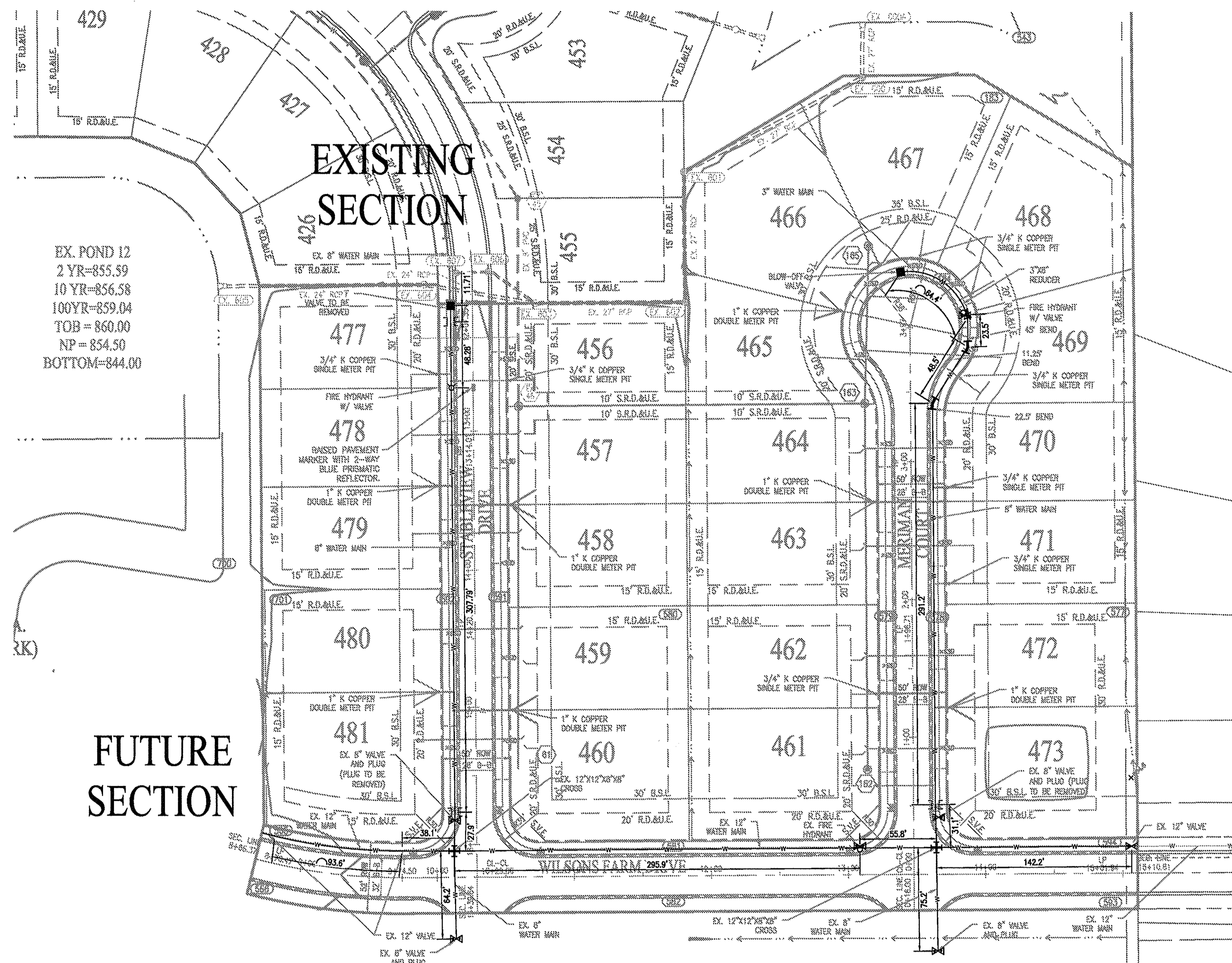
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 N=1709400
 E=273165
 EL=864.60 (NAVD 88)



FUTURE SECTION

FUTURE SECTION

LEGEND

- W — EXISTING WATER MAIN
- P — PROPOSED WATER MAIN
- H — EXISTING HYDRANT WITH HYDRANT VALVE
- H — HYDRANT WITH HYDRANT VALVE
- V — VALVE
- T — TEE
- C — CROSS
- R — REDUCER
- D.I.P. — DUCTILE IRON PIPE
- 1" — 1" TYPE K COPPER OR POLY W/ DOUBLE METER PIT
- 3/4" — 3/4" TYPE K COPPER OR POLY W/ SINGLE METER PIT
- W.L. — WATER LATERAL AS-BUILT LOCATION

WATER MAIN NOTES:

1. ALL FIRE HYDRANTS SHALL BE PAINTED PER FORTVILLE SPECIFICATIONS AND STANDARDS.
2. FIRE HYDRANTS SHALL HAVE 5 INCH STORZ'S CONNECTION (APPROVED BY FISHERS FIRE DEPARTMENT).
3. IF WATER MAIN IS 12 INCHES OR SMALLER, THEN C900 PIPE CAN BE USED.
4. MAIN SHALL BE BEDDED WITH SAND 6 INCHES UNDER AND 12 INCHES OVER THE PIPE WITH MARKING TAPE INSTALLED 2 FEET ABOVE THE WATER MAIN.
5. NUMBER TEN (#10) GAUGE LOCATING WIRE SHALL BE TAPED TO THE TOP OF THE MAIN AND PULLED THROUGH ALL VALVE BOXES (TO THE SURFACE) FOR LOCATING PURPOSES.
6. IF DUCTILE PIPE IS USED, THE MAIN MUST BE POLY WRAPPED.
7. CONTRACTOR MUST PROVIDE REDLINE "AS-BUILT" MARK-UPS TO ENGINEER OR ALL BENDS AND TEES MUST BE LOCATED WITH 2X4 BOARD PAINTED BLUE.
8. ALL PROPOSED ROAD CROSSINGS MUST BE FULLY BACKFILLED WITH A GRANULAR BACKFILL MATERIAL.
9. ALL TEMPORARY FIRE HYDRANTS TO BE INSTALLED WITH VALVES.
10. ALL VALVES MUST HAVE POSI-CAP INSTALLED AND HAVE STAINLESS STEEL STEMS.
11. WATER MAIN MUST MEET CURRENT FORTVILLE WATER DETAILS AND SPECIFICATIONS.
12. ALL WATER MAIN JOINTS TO BE RESTRAINED PER FORTVILLE WATER STANDARDS.
13. WATER SERVICE LATERALS AND WATER METER PITS ARE SHOWN FOR LOCATION ONLY. WATER SERVICE LATERALS AND WATER METER PITS WILL BE INSTALLED BY THE HOME BUILDERS AT THE TIME OF THE HOUSE CONSTRUCTION.
14. NO WATER VALVES ARE TO BE PLACED WITHIN THE LIMITS OF THE STREET.
15. CONTRACTOR TO SUPPLY SHOP DRAWINGS TO THE TOWN OF FORTVILLE PRIOR TO CONSTRUCTION.
16. INSTALLATION OF INDOT APPROVED SNOWPLOWABLE RAISED PAVEMENT MARKERS SHALL COMPLY WITH SECTIONS 800 & 900 OF THE MOST RECENT REVISION OF THE INDOT SPECIFICATIONS AND STANDARD DRAWINGS. UNDER NO CIRCUMSTANCE SHALL A REFLECTOR BE ATTACHED TO THE PAVEMENT SURFACE USING ONLY ADHESIVE.
17. ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 10'-0" OF SEPARATION BETWEEN THE MAIN AND SEWER STRUCTURES AND A MINIMUM OF 10'-0" OF SEPARATION BETWEEN WATER, SANITARY AND STORM PIPES.
18. WATER TAP FEES WILL BE PAID AT THE TIME OF ACQUIRING THE BUILDING PERMIT.

- ▲ - ASBUILT INFORMATION
- ✓ - BUILT AS PLANNED
- T — ASBUILT TEE
- B — ASBUILT 22.5° BEND
- H — ASBUILT FIRE HYDRANT
- V — ASBUILT WATER VALVE
- S — ASBUILT SLEEVE
- B — ASBUILT BLOW OFF
- R — ASBUILT REDUCER

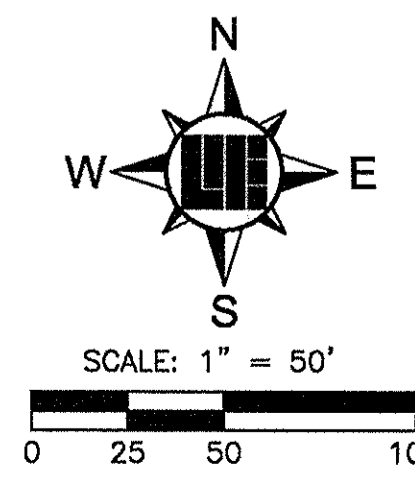
RECORD DRAWING
 WATER AS-BUILTS
 WATER STRUCTURES ONLY
 03/22/2018

JOSEPH TRITAN, LS21500003



NOTE:
 WATER LATERALS AND METER PITS WILL NOT BE INSTALLED DURING THE LAND DEVELOPMENT PHASE. NO WATER METERS WERE INSTALLED AT THE TIME OF FIELD WORK.

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 Entered By: SLM



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PROJECT NO.	DATE
BY	DATE
REVISIONS AND ISSUES	

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 ALVIN E. SKOOG JR., P.E. 60880573
 STATE OF INDIANA
 PROFESSIONAL ENGINEER

THE HERITAGE AT VERMILLION SECTION THREE
 BEAZER HOMES, INDIANA, LLP
 WATER MAIN PLAN
 SHEET NO. C700
 PROJECT NO. W14.0496