



12.1.18

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 25, 2018

To: Hamilton County Drainage Board

Re: Long Branch Drain, Waterfront of West Clay Section 2C Arm

Attached is a petition filed by Paul Shoopman Home Building Group, along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Waterfront of West Clay Section 2C Arm, Long Branch 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:

12" RCP	360 ft.	15" RCP	227 ft.
18" RCP	269 ft.	6" SSD	2,055 ft.

The total length of the drain will be 2,851 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. The portion of the SSD which will be regulated other than those under curbs are as follows:

Curbline SSD in Streets:

- Prairie Falcon Drive
- Eagleridge Lane
- West Road loop around Block A

Rear Yard SSDs:

- Rear yard lots 156 to 158 from Str. 3007 running west to riser
- Rear yard lot 72 from Str. 3007 to Str. 3005
- Rear yard lots 70 to 71 from main line SSD running west to riser
- Rear yard lots 67 to 69 and side yard lot 71 from Str. 3005 running south to riser

The temporary swales shown on the development plan on Sheet C300 of the plans at lots 67 and 72 are not included as part of the regulated drain. These will be replaced with storm sewer at the time the future section is developed.

The lots in this subdivision were originally platted as part of Sanctuary at 116<sup>th</sup> Street Section 2. However, due to the recession and changes in the developers of this subdivision it was not platted as per the assessment roll from the report approved in 2008. The original hearing for Long Branch Drain, Sanctuary at 116<sup>th</sup> Street Section 2, Lots 42 thru 84 & Blocks H thru L was held on January 28, 2008. On March 26, 2009, Lots 42-45 & 83-84 & Block M were platted. On October 6, 2017, Lots 42-45 were replatted as Waterfront of West Clay. In 2018, Lots 73-82 & Blocks A-B, will be platted as Sanctuary at 116<sup>th</sup> Street Section 2B. In this section, Lots 48-62 & Blocks A-D are proposed to be platted as Waterfront of West Clay Section 2C. After all this takes place, any remaining lots on the original Section 2 assessment roll should be removed and will be included in the future as part of a new hearing for Waterfront of West Clay, in the configuration and layout as proposed in those construction plans and secondary plat.

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 will be \$1,258.40.

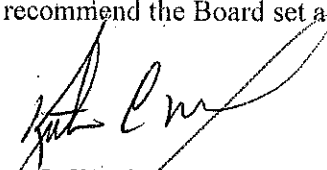
The petitioner has submitted surety for the proposed drain at this time. The sureties which are in the form of a Performance Bond are as follows:

Agent: Lexon Insurance Company  
Date: March 14, 2018  
Number: 1133427  
For: Storm Sewers & Sub-Surface Drains  
Amount: \$105,619.20

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 requests. The request will be for the reduction of the regulated drain easement to those easement widths as shown on the secondary plats for Waterfront of West Clay Section 2C as recorded 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/pii

FINDINGS AND ORDER


CONCERNING THE MAINTENANCE OF THE

Long Branch Drain, Waterfront of West Clay Section 2C Arm

On this 25<sup>th</sup> day of June, 2018, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the *Long Branch Drain, Waterfront of West Clay Section 2C 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

(Revised 06/08/04)

STATE OF INDIANA )  
 )  
COUNTY OF HAMILTON )

FILED

MAR 14 2008

OFFICE OF HAMILTON COUNTY SURVEYOR  
OFFICE OF HAMILTON COUNTY SURVEYOR

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

In the matter of Waterfront of West Clay Subdivision, Section  
2C 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 Waterfront of West Clay - Sect. 2C, 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  
Paul Shoopman  
\_\_\_\_\_  
Printed Name  
January 22, 2018  
\_\_\_\_\_  
Date

\_\_\_\_\_  
Signed  
\_\_\_\_\_  
Printed Name  
\_\_\_\_\_  
Date

\_\_\_\_\_  
Signed  
\_\_\_\_\_  
Printed Name  
\_\_\_\_\_  
Date

\_\_\_\_\_  
Signed  
\_\_\_\_\_  
Printed Name  
\_\_\_\_\_  
Date

**ESTIMATE OF PROBABLE COSTS**

**FILED**

**MAR 19 2018**

OFFICE OF HAMILTON COUNTY SURVEYOR

**PROJECT: WATERFRONT OF WESTCLAY SEC 2C**      **DATE: March 14, 2018**  
**LOCATION: Carmel, IN**      **ITEM: SUMMARY**      **JOB #: W160409**

DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
MONUMENTATION				\$4,200
SANITARY SEWER				\$21,133
STORM SEWER				\$88,016
PAVEMENT				\$80,793
CURBS				\$25,725
WALKS				\$22,557
SIGNAGE				\$6,325
WATER				\$41,153
EROSION CONTROL				\$30,486
<b>TOTAL</b>				<b>\$320,387</b>

Note:  
 This cost opinion was generated from Construction Plans prepared by Weihe Engineers dated July 25, 2017, revised January 16, 2018



*Duane A. Sharrer*

3/14/2018

Weihe Engineers  
 10505 N. College Avenue  
 Indianapolis, IN 46280  
 317-846-6611

**ESTIMATE OF PROBABLE COSTS**

**PROJECT: WATERFRONT OF WESTCLAY SEC 2C**

**DATE: March 14, 2018**

**LOCATION: Carmel, IN**

**ITEM: MONUMENTATION**

**JOB #: W160409**

**DESCRIPTION**

**QUANTITY**

**UNIT**

**UNIT PRICE**

**TOTAL**

DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
MONUMENTS:				
STREET MARKERS	4	EA	\$150.00	\$600.00
BOUNDARY MARKERS @ R/W	12	EA	\$300.00	\$3,600.00

**TOTAL MONUMENTATION**

**\$4,200.00**

Weihe Engineers  
10505 N. College Avenue  
Indianapolis, IN 46280  
317-846-6611

### ESTIMATE OF PROBABLE COSTS

PROJECT: WATERFRONT OF WESTCLAY SEC 2C

DATE: March 14, 2018

LOCATION: Carmel, IN

ITEM: SANITARY

JOB #: W160409

DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
8" SDR 35 PIPE - 6'-10'	141	LF	\$16.00	\$2,256.00
6" PVC LATERALS 6'-10'	441	LF	\$12.00	\$5,292.00
WYES	3	EA	\$160.00	\$480.00
GRANULAR BACKFILL	389	CYDS	\$13.00	\$5,057.00
MANHOLES 6'-8'	1	EA	\$2,400.00	\$2,400.00
TELEWISE SANITARY	403	LF	\$1.75	\$705.25
MANHOLE TESTING	2	EA	\$110.00	\$220.00
AIR & MANDREL TESTING	403	LF	\$1.00	\$403.00
TYPE 3 CLEANOUT	2	EA	\$410.00	\$820.00
CORE TO EX. MANHOLE	1	EA	\$3,500.00	\$3,500.00
<b>TOTAL SANITARY</b>				<b>\$21,133.25</b>

Weihe Engineers  
10505 N. College Avenue  
Indianapolis, IN 46280  
317-846-6611



**ESTIMATE OF PROBABLE COSTS**

**PROJECT: WATERFRONT OF WESTCLAY SEC 2C**

**DATE: March 14, 2018**

**LOCATION: Carmel, IN**

**ITEM: STORM**

**JOB #: W160409**

<b>DESCRIPTION</b>	<b>QUANTITY</b>	<b>UNIT</b>	<b>UNIT PRICE</b>	<b>TOTAL</b>
12" RCP PIPE	165	LF	\$25.00	\$4,125.00
15" RCP PIPE	227	LF	\$29.00	\$6,583.00
18" RCP PIPE	269	LF	\$35.00	\$9,415.00
21" RCP PIPE	20	LF	\$40.00	\$800.00
DOUBLE INLET	3	EA	\$3,600.00	\$10,800.00
INLET/BEEHIVES w/CSTG	2	EA	\$2,200.00	\$4,400.00
MANHOLES w/CSTG	1	EA	\$3,500.00	\$3,500.00
CURB INLET w/CSTG	1	EA	\$2,500.00	\$2,500.00
21" END SECTION	1	EA	\$1,400.00	\$1,400.00
GRANULAR BACKFILL	175	CYDS	\$13.00	\$2,275.00
6" SSD IN STREET	910	LF	\$12.00	\$10,920.00
6" SSD IN SWALE	1526	LF	\$14.00	\$21,364.00
6" SUBSURFACE RISERS	4	EA	\$400.00	\$1,600.00
4" SUBSURFACE LOT HOOKUPS	16	EA	\$300.00	\$4,800.00
TELEVISIONING STORM PIPE	681	LF	\$1.65	\$1,123.65
TELEVISIONING 6" STREET SSD	910	LF	\$1.00	\$910.00
CORE EXISTING STRUCTURE	1	EA	\$1,100.00	\$1,100.00
CONCRETE CRADLE	1	EA	\$400.00	\$400.00
<b>TOTAL STORM</b>				<b>\$88,015.65</b>

Weihe Engineers  
 10505 N. College Avenue  
 Indianapolis, IN 46280  
 317-846-6611

### ESTIMATE OF PROBABLE COSTS

PROJECT: WATERFRONT OF WESTCLAY SEC 2C

DATE: March 14, 2018

LOCATION: Carmel, IN

ITEM: PAVEMENT

JOB #: W160409

DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
STONE SUB-BASE (#53 STONE)	440	TONS	\$8.00	\$3,520.00
ASPHALT - CUL-DE-LOOPS	1055	SYDS	\$40.00	\$42,200.00
ASPHALT - PRAIRIE FALCON DR.	704	SYDS	\$40.00	\$28,160.00
LIME STABILIZATION	1975	SYDS	\$3.50	\$6,912.50
<b>TOTAL PAVEMENT</b>				<b>\$80,792.50</b>

Weihe Engineers  
10505 N. College Avenue  
Indianapolis, IN 46280  
317-846-6611

**ESTIMATE OF PROBABLE COSTS**

**PROJECT: WATERFRONT OF WESTCLAY SEC 2C**                      **DATE: March 14, 2018**

**LOCATION: Carmel, IN**                      **ITEM: CURBS**                      **JOB #: W160409**

<b>DESCRIPTION</b>	<b>QUANTITY</b>	<b>UNIT</b>	<b>UNIT PRICE</b>	<b>TOTAL</b>
2' CONCRETE ROLL CURB	962	LF	\$15.00	\$14,430.00
2' CONC. CHAIRBACK CURB	753	LF	\$15.00	\$11,295.00
<b>TOTAL CURBS</b>				<b>\$25,725.00</b>

Weihe Engineers  
10505 N. College Avenue  
Indianapolis, IN 46280  
317-846-6611

**ESTIMATE OF PROBABLE COSTS**

**PROJECT: WATERFRONT OF WESTCLAY SEC 2C**

**DATE: March 14, 2018**

**LOCATION: Carmel, IN**

**ITEM: WALKS**

**JOB #: W160409**

<b>DESCRIPTION</b>	<b>QUANTITY</b>	<b>UNIT</b>	<b>UNIT PRICE</b>	<b>TOTAL</b>
5' CONC. WALK (IN FRONT OF LOTS)	1049	LF	\$18.50	\$19,406.50
HANDICAP RAMP	4	EA	\$650.00	\$2,600.00
END OF STREET BARRICADE	1	EA	\$550.00	\$550.00

**TOTAL WALKS**

**\$22,556.50**

Weihe Engineers  
10505 N. College Avenue  
Indianapolis, IN 46280  
317-846-6611

**ESTIMATE OF PROBABLE COSTS**

**PROJECT: WATERFRONT OF WESTCLAY SEC 2C**

**DATE: March 14, 2018**

**LOCATION: Carmel, IN**

**ITEM: SIGNAGE**

**JOB #: W160409**

<b>DESCRIPTION</b>	<b>QUANTITY</b>	<b>UNIT</b>	<b>UNIT PRICE</b>	<b>TOTAL</b>
STREET SIGNS	1	EA	\$925.00	\$925.00
TRAFFIC CONTROL SIGNS	8	EA	\$675.00	\$5,400.00
<b>TOTAL SIGNAGE</b>				<b>\$6,325.00</b>

Weihe Engineers  
10505 N. College Avenue  
Indianapolis, IN 46280  
317-846-6611

**ESTIMATE OF PROBABLE COSTS**

**PROJECT: WATERFRONT OF WESTCLAY SEC 2C**                      **DATE: March 14, 2018**

**LOCATION: Carmel, IN**                      **ITEM: WATER**                      **JOB #: W160409**

<b>DESCRIPTION</b>	<b>QUANTITY</b>	<b>UNIT</b>	<b>UNIT PRICE</b>	<b>TOTAL</b>
6" MAIN w/VALVES & FITTINGS	304	LF	\$25.00	\$7,600.00
8" MAIN w/VALVES & FITTINGS	188	LF	\$36.00	\$6,768.00
1" LATERAL - K COPPER	367	LF	\$12.00	\$4,404.00
SERVICE TAPS	9	EA	\$110.00	\$990.00
FLUSHING & TESTING	492	LF	\$1.10	\$541.20
HYDRANTS W/ VALVES	3	EA	\$4,400.00	\$13,200.00
METER PITS (SINGLES)	9	EA	\$850.00	\$7,650.00
<b>TOTAL WATER</b>				<b>\$41,153.20</b>

Weihe Engineers  
 10505 N. College Avenue  
 Indianapolis, IN 46280  
 317-846-6611

### ESTIMATE OF PROBABLE COSTS

PROJECT: WATERFRONT OF WESTCLAY SEC 2C

DATE: March 14, 2018

LOCATION: Carmel, IN

ITEM: EROSION

JOB #: W160409

DESCRIPTION

QUANTITY

UNIT

UNIT PRICE

TOTAL

PERMANENT SEEDING	6950	SYDS	\$0.45	\$3,127.50
TEMPORARY SEEDING	20150	SYDS	\$0.25	\$5,037.50
EROSION BLANKETS	4350	SYDS	\$1.50	\$6,525.00
TEMP. CONST. ENTRANCE	335	SYDS	\$20.00	\$6,700.00
SILT FENCE	4533	LF	\$1.10	\$4,986.30
RIP RAP	250	SYDS	\$10.00	\$2,500.00
BEEHIVE INLET PROTECTION	4	EA	\$65.00	\$260.00
CURB INLET PROTECTION	7	EA	\$150.00	\$1,050.00
HC RAMP PROTECTION	4	EA	\$75.00	\$300.00

**TOTAL EROSION**

**\$30,486.30**

Weihe Engineers  
10505 N. College Avenue  
Indianapolis, IN 46280  
317-846-6611

FILED

MAR 19 2018

LEXON INSURANCE COMPANY  
Mt. Juliet, TN 37122

SUBDIVISION PERFORMANCE BOND

OFFICE OF HAMILTON COUNTY SURVEYOR

BOND #1133427

HCD B-2018-00011

KNOW ALL MEN BY THESE PRESENTS, That we, **Paul Shoopman Home Building Group, Inc.**, 11731 Cold Creek Ct., Zionsville, IN 46077 as Principal, and **Lexon Insurance Company**, 12890 Lebanon Road, Mt. Juliet, TN 37122, as Surety, are held and firmly bound unto the **Hamilton County Drainage Board**, One Hamilton County Square, Suite188, Noblesville, IN 46060 as Owner, in the sum of **\*\* One Hundred Five Thousand Six Hundred Nineteen and 20 /100 \*\*Dollars (\$105,619.20)** for payment of which we firmly bind ourselves, our heirs, executors, administrators, and assigns.

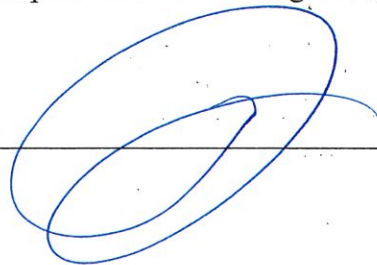
**THE CONDITION OF THIS BOND** is such that if the said Principal shall complete the construction of **Waterfront of WestClay, Section 2C -- Storm Sewer** according to the approved plans and specifications on file with the **Hamilton County Drainage Board**, then this obligation is null and void, otherwise to remain in full force and effect.

**IN WITNESS WHEREOF**, we have hereunto set our hands and seal this 14th Day of March, 2018.

Paul Shoopman Home Building Group, Inc.

Lexon Insurance Company

By: \_\_\_\_\_



By: \_\_\_\_\_



Deborah M. Roth, Attorney-in-Fact

American Contracting Services, Inc.  
P.O. Box 691  
Danville, IN 46122  
(317) 563-3228



POWER OF ATTORNEY

LX-312703

Lexon Insurance Company

KNOW ALL MEN BY THESE PRESENTS, that LEXON INSURANCE COMPANY, a Texas Corporation, with its principal office in Louisville, Kentucky, does hereby constitute and appoint: Anthony G. Balzano, Deborah M. Roth, Rosalie S. Smith, Ruth M. Pell, Sarah E. Scott, Jo Ann R. Smith its true and lawful Attorney(s)-In-Fact to make, execute, seal and deliver for, and on its behalf as surety, any and all bonds, undertakings or other writings obligatory in nature of a bond.

This authority is made under and by the authority of a resolution which was passed by the Board of Directors of LEXON INSURANCE COMPANY on the 1st day of July, 2003 as follows:

Resolved, that the President of the Company is hereby authorized to appoint and empower any representative of the Company or other person or persons as Attorney-In-Fact to execute on behalf of the Company any bonds, undertakings, policies, contracts of indemnity or other writings obligatory in nature of a bond not to exceed \$2,500,000.00, Two Million Five Hundred Thousand dollars, which the Company might execute through its duly elected officers, and affix the seal of the Company thereto. Any said execution of such documents by an Attorney-In-Fact shall be as binding upon the Company as if they had been duly executed and acknowledged by the regularly elected officers of the Company. Any Attorney-In-Fact, so appointed, may be removed for good cause and the authority so granted may be revoked as specified in the Power of Attorney.

Resolved, that the signature of the President and the seal of the Company may be affixed by facsimile on any power of attorney granted, and the signature of the Assistant Secretary, and the seal of the Company may be affixed by facsimile to any certificate of any such power and any such power or certificate bearing such facsimile signature and seal shall be valid and binding on the Company. Any such power so executed and sealed and certificate so executed and sealed shall, with respect to any bond of undertaking to which it is attached, continue to be valid and binding on the Company.

IN WITNESS THEREOF, LEXON INSURANCE COMPANY has caused this instrument to be signed by its President, and its Corporate Seal to be affixed this 5th day of August, 2015.

LEXON INSURANCE COMPANY



BY [Signature] David E. Campbell President

ACKNOWLEDGEMENT

On this 5th day of August, 2015, before me, personally came David E. Campbell to me known, who be duly sworn, did depose and say that he is the President of LEXON INSURANCE COMPANY, the corporation described in and which executed the above instrument; that he executed said instrument on behalf of the corporation by authority of his office under the By-laws of said corporation.



AMY TAYLOR Notary Public- State of Tennessee Davidson County Mv Commission Expires 07-08-19

BY [Signature] Amy Taylor Notary Public

CERTIFICATE

I, the undersigned, Assistant Secretary of LEXON INSURANCE COMPANY, A Texas Insurance Company, DO HEREBY CERTIFY that the original Power of Attorney of which the forgoing is a true and correct copy, is in full force and effect and has not been revoked and the resolutions as set forth are now in force.

Signed and Seal at Mount Juliet, Tennessee this 14th Day of March, 2018.



BY [Signature] Andrew Smith Assistant Secretary

WARNING: Any person who knowingly and with intent to defraud any insurance company or other person, files and application for insurance of claim containing any materially false information, or conceals for the purpose of misleading, information concerning any fact material thereto, commits a fraudulent insurance act, which is a crime and subjects such person to criminal and civil penalties.

**FILED**

**APR 09 2018**

**BOND RIDER**

OFFICE OF HAMILTON COUNTY SURVEYOR

HCDB-2018-00011

To be attached to and form a part of **Subdivision Performance Bond # 1133427**, Dated **March 14, 2018**, with **Paul Shoopman Home Building Group, Inc.**, as Principal, and **Lexon Insurance Company**, as Surety, in favor of the **Hamilton County Drainage Board**, as Obligee.

It is understood and agreed that the Bond is changed or revised in the particulars as indicated below.

**The Obligee be changed:**

**From: Hamilton County Drainage Board**

**TO: Hamilton County Board of Commissioners**

Said Bond shall be subject to all its terms, conditions, and limitations, except as herein expressly modified.

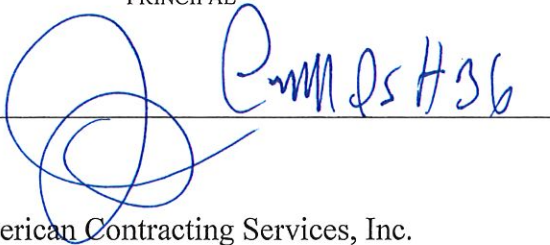
This Bond Rider shall become effective: **March 14, 2018**

Signed, Sealed and Dated April 2, 2018

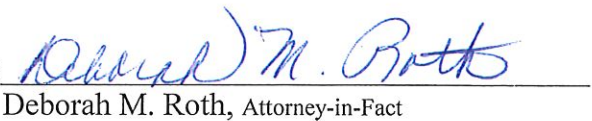
Paul Shoopman Home Building Group, Inc.  
PRINCIPAL

Lexon Insurance Company  
SURETY

By:



By:



Deborah M. Roth, Attorney-in-Fact

American Contracting Services, Inc.  
P.O. Box 691  
Danville, IN 46122  
(317) 563-3228

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD  
IN THE MATTER OF

*Long Branch Drain, Waterfront of West Clay Section 2C Arm*

NOTICE

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

Notice is hereby given of the hearing of the Hamilton County Drainage Board on the **Long Branch Drain, Waterfront of West Clay Section 2C 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

Long Branch Drain, Waterfront of West Clay Section 2C Arm

NOTICE

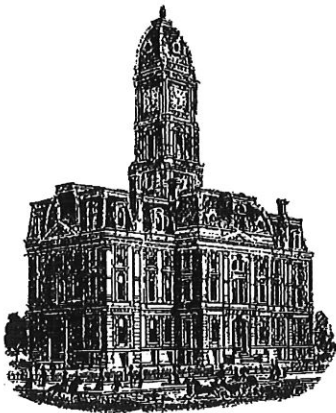
Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on **June 25, 2018** has issued an order adopting the Schedule of Assessments, filed the same and made public announcement thereof at the hearing and ordered publication. If judicial 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

KCW



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**

**September 23, 2020**

**Re: Long Branch Drain – Waterfront of West Clay Sec. 2C Arm**

Attached are as-built, certificate of completion & compliance, and other information for Waterfront of West Clay Section 2C Arm. An inspection of the drainage facilities for this section has been made and the facilities were found to be complete and acceptable.

During construction, changes were made to the drain, which will alter the plans submitted with my report for this drain-dated April 25, 2018. The report was approved by the Board at the hearing held June 25, 2018. (See Drainage Board Minutes Book 18, Pages 185-187) The changes are as follows: the 12" RCP was shortened from 300 feet to 164 feet. The 15" RCP was lengthened from 227 feet to 427 feet. The 18" RCP was lengthened from 269 feet to 274 feet. The 6" SSD was lengthened from 2055 feet to 2078 feet. The length of the drain due to the changes described above is now **2943** feet.

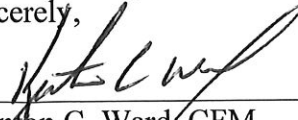
The non-enforcement was approved by the Board at its meeting on April 25, 2018 and recorded under instrument #2018055029.

The following sureties were guaranteed by Lexon Insurance Company and released by the Board on its January 13, 2020 meeting.

Bond-LC No: 1133427  
Amount: \$105,619.20  
For: Storm Sewers & SSD  
Issue Date: March 14, 2018

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

FILED

APR 01 2019

To: Hamilton County Surveyor

OFFICE OF HAMILTON COUNTY SURVEYOR

Re: WATERFRONT OF WEST CLAY SECTION 2C

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 Trtan Date: 3-27-2019

Type or Print Name: JOSEPH TRTAN

Business Address: 10505 NORTH COLLEGE AVENUE  
INDIANAPOLIS, IN 46280

Telephone Number: 317-846-6611



INDIANA REGISTRATION NUMBER

LS 21500003





**GENERAL NOTES:**

- ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES
- EXISTING UTILITY LOCATIONS ARE APPROXIMATE, CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL UTILITY LOCATIONS PRIOR TO MAJOR EARTHWORK.
- BUILDING PAD AREAS AND STREETS DESIGNATED FOR FILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY, OR AS RECOMMENDED BY GEOTECHNICAL ENGINEER, WHICHEVER IS MORE STRINGENT. STREETS SHALL BE COMPACTED PER CITY OF CARMEL SPECIFICATIONS. ALL FILL AREAS TO BE STRIPPED OF TOPSOIL PRIOR TO PLACEMENT OF FILL.
- CONTRACTOR SHALL PRESERVE EXISTING TREES WHENEVER POSSIBLE. OWNER, OWNERS REPRESENTATIVE AND CITY OF CARMEL URBAN FORESTER SHALL BE CONSULTED FOR CLEARING LIMITS. CLEARING LIMITS SHALL CONSIST OF ALL TREES WITHIN STREET AREAS, UTILITY INSTALLATION LIMITS AND CUTLIL AREAS. IF CLEARING LIMITS VARY FROM APPROVED LANDSCAPE PLAN, THEN CLEARED TREES SHALL BE REPLACED TO BRING FINAL SITE INTO COMPLIANCE WITH APPROVED LANDSCAPE PLAN.
- NO EARTH DISTURBING ACTIVITIES MAY COMMENCE WITHOUT AN APPROVED STORM WATER MANAGEMENT PERMIT.
- M.F.P.G. = MINIMUM FLOOD PROTECTION GRADE, M.F.P.G. OF ALL STRUCTURES FRONTING A POND OR OPEN DITCH SHALL BE NO LESS THAN 2 FEET ABOVE ANY ADJACENT 100-YEAR LOCAL OR REGIONAL FLOOD ELEVATIONS, WHICHEVER IS GREATER, FOR ALL WINDOWS, DOORS, PIPE ENTRANCES, WINDOW WELLS, AND ANY OTHER STRUCTURE MEMBER WHERE FLOOD WATERS CAN ENTER A BUILDING.
- M.L.A.G. = LOWEST ADJACENT GRADE IS THE ELEVATION OF THE LOWEST GRADE ADJACENT TO A STRUCTURE WHEN THE SOIL MEETS THE FOUNDATION AROUND THE OUTSIDE OF THE STRUCTURE (INCLUDING STRUCTURAL MEMBERS SUCH AS BAKERS, WALKOUT, PATIOS, DECKS, PORCHES, SUPPORT POST, OR PIERS, AND RIM OF THE WINDOW WELL.
- UTILITY RELOCATIONS REQUIRED BY THE PROJECT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER. UTILITY LINE RELOCATIONS REQUIRED FOR ROAD PROJECTS THAT RESULT IN A CONFLICT WITH PROPOSED DEVELOPMENT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO RESOLVE WITH THE UTILITY. EXISTING POLE LINES REQUIRED TO BE RELOCATED SHALL BE RELOCATED TO WITHIN ONE FOOT OF PROPOSED RIGHT-OF-WAY LINE.
- SIDEWALKS TO BE 5'-0" AND INSTALLED AS SHOWN ON THIS PLAN
- CURB UNDERDRAINS WILL BE INSTALLED THROUGHOUT THIS ENTIRE PROJECT.
- 2' ROLLED CURB & GUTTER SHALL BE INSTALLED THROUGHOUT ENTIRE PROJECT AS SHOWN UNLESS NOTED OTHERWISE.
- A HANDICAPPED RAMP IS TO BE INSTALLED AT ALL LOCATIONS WHERE A SIDEWALK IS SHOWN INTERSECTING A CURB - SEE DETAIL.
- CONTRACTOR TO DESIGNATE SANITARY LATERAL ENDS WITH A WOODEN 2"x4" STAKE, PAINTED BRIGHT GREEN.
- ANY DRAINAGE TILE SYSTEM COMING ONTO THE SITE SHALL BE CONNECTED INTO THE PROPOSED DRAINAGE SYSTEM IN ORDER TO MAINTAIN POSITIVE DRAINAGE FOR THE OFFSITE SYSTEM.
- THE LOWEST FLOOR ELEVATION RECEIVING GRAVITY SANITARY SEWER SERVICE MUST BE A MINIMUM OF ONE FOOT ABOVE THE TOP OF CASTING OF THE NEAREST SANITARY 48" MANHOLE, OR A GRINDER PUMP SHALL BE REQUIRED.
- THE FINISHED FLOOR ELEVATION SHALL BE MINIMUM 8" ABOVE THE MLAG AND 15" ABOVE BACK OF CURB.
- DO NOT STAKE HOMES FROM THESE PLANS. SEE PLOT PLANS FOR DETAILS OF HOMES AND DIMENSIONS.
- ALL SANITARY MANHOLE CASTING ELEVATIONS IN NON-PAVED AREAS SHALL BE 3" ABOVE GRADE.
- ALL PAVING WITHIN THE EXISTING AND PROPOSED CITY RIGHT-OF-WAY SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF ENGINEERING. THE CONTRACTOR SHALL CONTACT THE DEPARTMENT OF ENGINEERING TO SCHEDULE A PRE-CONSTRUCTION MEETING TO REVIEW THE DEPARTMENT'S CONSTRUCTION REQUIREMENTS, STAFF NOTIFICATION REQUIREMENTS, REQUIRED INSPECTIONS FOR CERTAIN STAGES OF THE WORK, AND TO REVIEW THE AUTHORITY OF THE DEPARTMENT AS IT RELATES TO WORK WITHIN THE EXISTING AND PROPOSED CITY RIGHT-OF-WAY.
- ALL STORM WATER DRAINAGE TO BE A PUBLIC SYSTEM.
- SIDEWALKS TO BE BUILT IN FRONT OF HOMES BY BUILDER.
- SAW CUT CURB AND GUTTER TYING INTO SECTION 2B AT THE NEAREST JOINT PAST THE REQUIRED LIMITS.
- SAW CUT EXISTING PAVEMENT TYING INTO SECTION 2B AT THE PAVEMENT LIMITS.

**LEGEND**

- RIGHT-OF-WAY LINE
- PROPOSED STORM SEWER LINE
- EXISTING STORM SEWER LINE
- SWALE
- PROPOSED SANITARY SEWER LINE
- EXISTING SANITARY SEWER LINE
- SANITARY SEWER MANHOLE
- SANITARY SEWER LATERAL
- PROPOSED WATER LINE
- FLOW DIRECTION
- EXISTING CONTOURS
- PROPOSED ELEVATION
- STORM BEEHIVE INLET
- STORM INLET
- TOP OF CASTING
- INVERT
- REINFORCED CONCRETE PIPE
- MANHOLE
- STRUCTURE
- DRAINAGE EASEMENT
- DRAINAGE AND UTILITY EASEMENT
- DRAINAGE, UTILITY AND SANITARY SEWER EASEMENT
- CONSECUTIVE SECTION
- MATCH EXISTING
- TYPICAL
- PROPOSED
- EXISTING
- RADIUS
- VARIABLE WIDTH
- MLAG
- MINIMUM FINISH FLOOR ELEVATION
- MFE
- ROW
- B-B
- PAD ELEV
- EMERGENCY FLOOD ROUTE
- B.S.L.
- HP
- ADA RAMP
- FIRE HYDRANT

- AS-BUILT INFORMATION
  - BUILT AS PLANNED
  - AS-BUILT RISER
  - AS-BUILT SUBSURFACE DRAIN
- DATE OF LAST FIELDWORK: 11/7/2018

**RECORD DRAWING**  
DEVELOPMENT PLAN AS-BUILTS  
SSD ONLY  
6/10/2020  
BRADY KUHN, L.S. 20500007



Sanctuary @ 116th Street Section 2C  
Stormwater Drainage Summary

Inlet #	Time of Concentration (min)	Drainage Area (acres)	c Value
3000	16.1	1.15	0.56
3002	13.2	0.61	0.62
3003	19.0	1.17	0.54
3004	18.4	0.47	0.51
3005	18.7	0.89	0.42
3006	20.5	1.51	0.57

Detention Pond Drainage Basin Summary

Pond #	Time of Concentration (min)	Drainage Area (acres)	CN
East Master	27	61.686	77
East Current	27	61.686	77
West Master	25	52.161	77
West Current	25	52.161	77

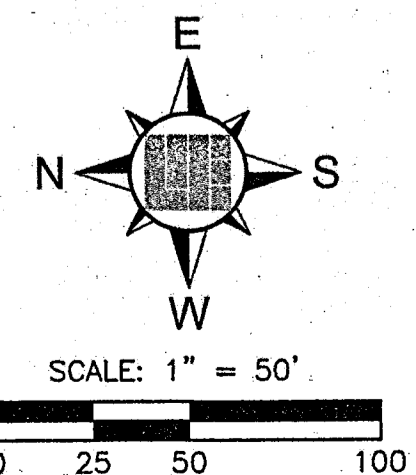
The platted area of Section 2C is approximately 7 acres. Section 2C will drain to existing and proposed inlets. Proposed inlets 3000, 3002, and 3003 will connect to an existing storm sewer network. Proposed inlets 3004-3006 will drain to a temporary drainage swale east of Section 2C, which will be replaced by storm sewer in the future.

All of Section 2C drains to the existing east detention pond. The layout and design of Section 2C does not result in any changes to the East Pond Drainage Basin properties. Section 2C adheres to the overall master detention design of the east pond.

BLOCK 'A' (1821 S.F., 0.04 AC±) IS LANDSCAPE, DRAINAGE AND UTILITY EASEMENT.  
BLOCK 'B' (5977 S.F., 0.14 AC±) IS LANDSCAPE EASEMENT.  
BLOCK 'C' (22,754 S.F., 0.52 AC±) IS COMMON AREA, IRREGULAR DRAINAGE, AND LANDSCAPE MAINTENANCE EASEMENT.  
BLOCK 'D' (5153 S.F., 0.12 AC±) IS COMMON AREA, SEWER, DRAINAGE AND UTILITY EASEMENT.

**BENCHMARK INFORMATION**

BM 800 54 - A DNR DISK IS LOCATED 1.0 MILE NORTHEAST OF ZIONSVILLE, 0.2 MILE EAST ALONG WEST 121ST STREET FROM ITS JUNCTION WITH STATE ROAD 421, AT THE INTERSECTION OF DAUGHERTY DRIVE AND WEST 121ST STREET, IN THE NORTHEAST 1/4 OF THE INTERSECTION, AT THE ENTRANCE TO THE EAGLE VILLAGE SUBDIVISION, SET IN THE TOP OF A CONCRETE POST, LEVEL WITH THE GROUND, A DEPARTMENT OF NATURAL RESOURCES BRASS CONTROL STATION TABLE, STAMPED "800 54 1989".  
ELEV: 801.14 FEET (1989 DATUM)  
ELEV: 800.78 FEET (1988 DATUM)  
THESE PLANS ARE ON 1988 DATUM



Know what's below.  
Call before you dig.  
Within Indiana Call  
811 or 800-382-5544  
24 Hours a Day, 7 Days a Week.  
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.

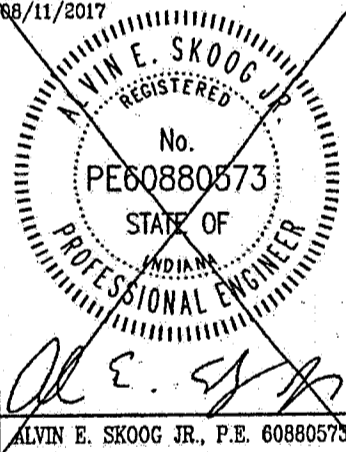
PREPARED FOR:  
**WATERFRONT OF WEST CLAY**  
**SECTION 2C**  
WATERFRONT HOMES  
DEVELOPMENT PLAN  
SHEET NO. **C300**  
PROJECT NO. **W160409**

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

**WEIHE ENGINEERS**  
Land Surveying | Civil Engineering  
Landscape Architecture

PROJECT NO.: W160409  
DATE: 07/25/2017  
DESIGNED BY: [Signature]  
DRAWN BY: [Signature]  
CHECKED BY: [Signature]

DATE: 07/25/2017  
BY: [Signature]  
REVISIONS AND ISSUES:



**SANITARY SEWER NOTES**

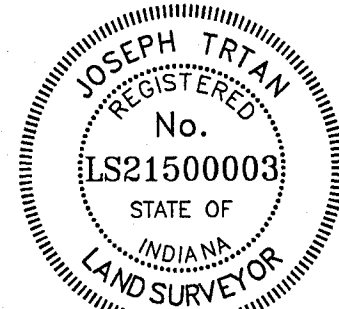
1. THE CONTRACTOR SHALL CONTACT APPLICABLE UNDERGROUND PLANT PROTECTION LOCATION SERVICE AT LEAST 72 HOURS PRIOR TO ANY WORK.
2. THE CONTRACTOR SHALL CONTACT THE OWNER AND/OR ENGINEER IF UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
3. THE PLANS SHOW THE LOCATION OF ALL KNOWN UTILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION ACCORDING TO INFORMATION PROVIDED BY THE VARIOUS UTILITY COMPANIES, PREVIOUS CONSTRUCTION PLANS AND AS EVIDENCED BY OBSERVATION OF ABOVE GROUND CONDITIONS BY THE SURVEYOR. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED.
4. THE LOCATION AND PROTECTION OF UTILITY STRUCTURES, THEIR SUPPORT AND MAINTENANCE DURING CONSTRUCTION (IN COOPERATION WITH APPLICABLE UTILITY COMPANY) IS THE EXPRESS RESPONSIBILITY OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITY OWNERS TO VERIFY ANY AND ALL FEES ASSOCIATED WITH THE INSTALLATION OF UTILITIES.
6. ALL CONSTRUCTION ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH O.S.H.A. STANDARDS FOR WORKER SAFETY.
7. ANY PART OF SANITARY TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVEMENT TO BE BACKFILLED WITH GRANULAR MATERIAL.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATION, SIZE, AND ELEVATION OF EXISTING UTILITIES, STRUCTURES, PIPES, PAVEMENTS, ETC. AS RELATED TO THEIR WORK. NOTIFY ENGINEER OF ANY CONFLICT AND/OR DISCREPANCIES IN THE CONSTRUCTION DOCUMENTS.
9. CLEARANCE BETWEEN STORM / SANITARY SEWER SYSTEMS AND DOMESTIC/FIRE LINE SERVICE, SHALL MAINTAIN 10' HORIZONTAL AND 18" VERTICAL.
10. CONTRACTOR TO INSTALL CONCRETE CRADLES AT PIPE CROSSING WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWERS, WATER MAINS AND STORM SEWERS IS 18" OR LESS.
11. SANITARY SEWER LINE IN PROXIMITY OF WATER LINE SHALL BE C900 WATER MAIN GRADE PVC.
12. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO ITS CONDITION PRIOR TO CONSTRUCTION.
13. WHEN PERFORMING EXCAVATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DRAINAGE, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.
14. COMPACTED "B" BORROW BACK FILL REQUIRED OVER ALL UTILITIES IN PAVED AREAS.
15. ALL UTILITY STRUCTURES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RINGS AND COVERS RATED FOR H20 LOADING.
16. FOLLOW ALL LOCAL AND STATE CODES IN REFERENCE TO SANITARY SEWER INSTALLATION.
17. SANITARY SEWER LATERALS SHALL BE BACKFILLED WITH GRANULAR MATERIAL FOR THE ENTIRE LENGTH OF THE PIPE.
18. ALL EXISTING MANHOLES SHALL BE ADJUSTED TO NEW FINISH GRADE ELEVATIONS.

**BENCHMARK INFORMATION**

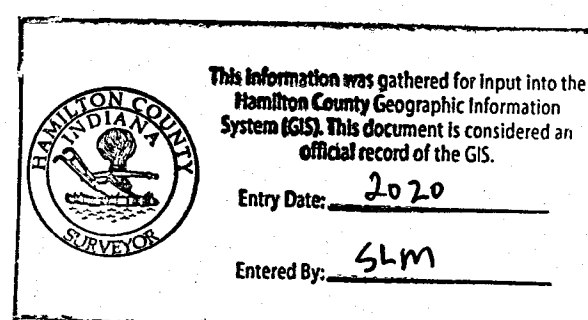
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 ELEV.: 901.14 FEET (1929 DATUM)  
 ELEV.: 900.78 FEET (1988 DATUM)  
 THESE PLANS ARE ON 1988 DATUM

**RECORD DRAWING**  
 SANITARY SEWER AS-BUILTS  
 SANITARY SEWER STRUCTURES ONLY  
 12-20-2018

JOSEPH TRTAN, LS21500003



- ▲ AS-BUILT INFORMATION
  - ✓ BUILT AS PLANNED
  - ▲ AS-BUILT SANITARY SEWER STUB
- DATE OF LAST FIELDWORK: 11/7/2018



SANITARY SEWER STRUCTURE DATA TABLE				
STRUCTURE NUMBER	STRUCTURE TYPE	TOP OF CASTING	CASTING TYPE	INVERT
846	MANHOLE	906.96	NEENAH R-1642	INV IN = 898.52(E) INV OUT = 898.42(W)
900	MANHOLE	904.86	NEENAH R-1642	INV OUT = 899.08(W)

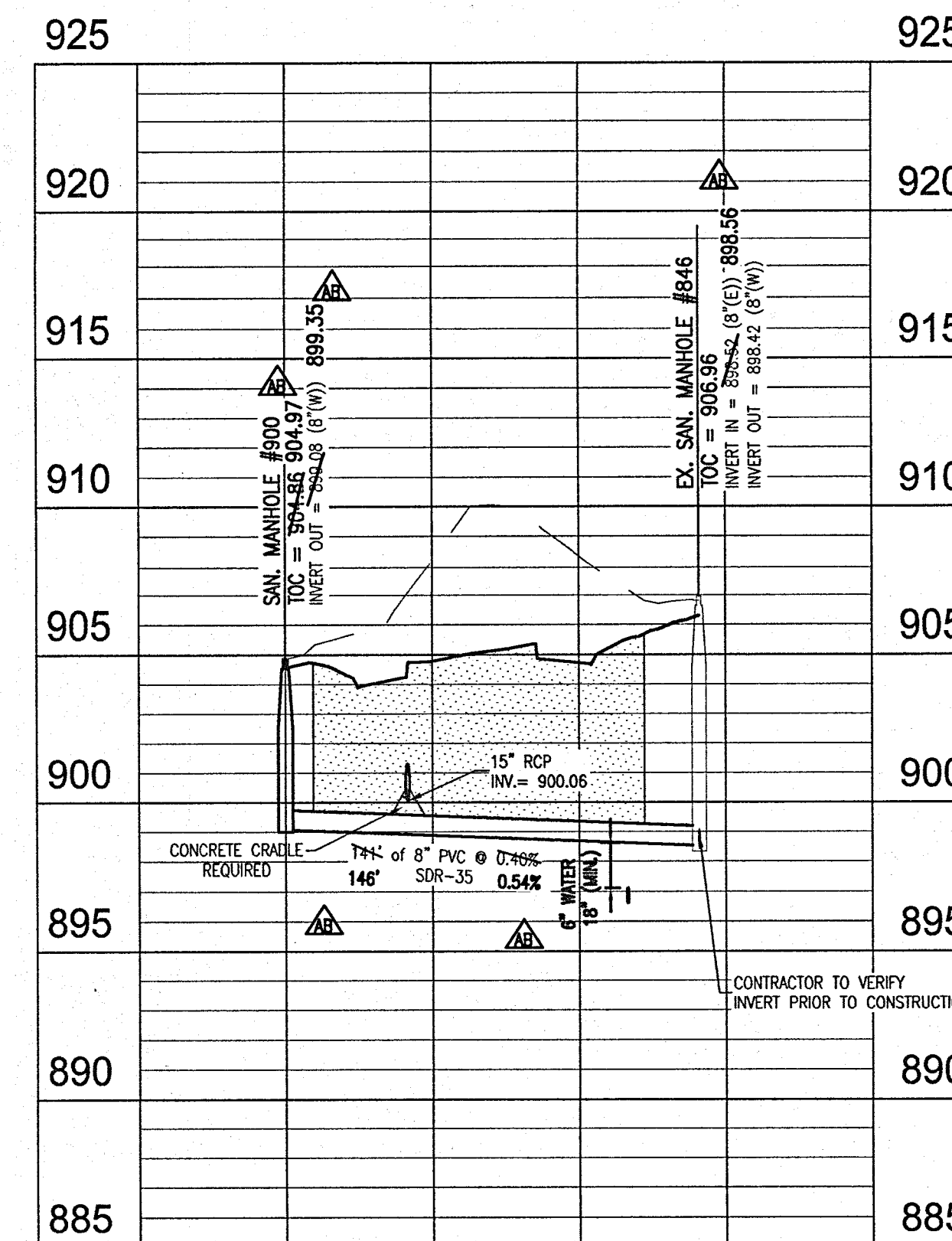
STORM SEWER PIPE DATA TABLE				
DOWNSTREAM STRUCTURE	UPSTREAM STRUCTURE	PIPE MATERIAL	LENGTH	SLOPE
900	846	8" RPP	141'	0.40%

**CITY OF CARMEL COVER AND BACKFILL POLICY; 9-8-06**  
 WATER AND SEWER UNDER PAVEMENT, SIDEWALK, PAVED AREAS AND WITHIN RIGHT-OF-WAY

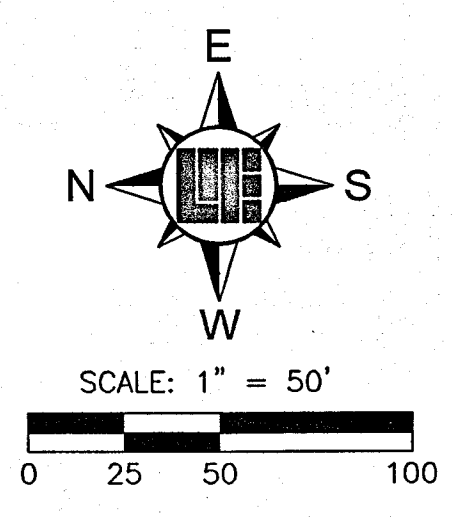
**BEDDING, HAUNCHING, INITIAL BACKFILL**  
 BEDDING, HAUNCHING AND INITIAL BACKFILL REQUIREMENTS AND COMPACTION FOR WATER MAINS, WATER SERVICE LATERALS, SANITARY MAINS AND SANITARY SERVICE LATERALS SHALL BE IN ACCORDANCE WITH THE STANDARD PRACTICE OF THE UTILITY THAT HAS JURISDICTION OVER THE INSTALLATION.

**FINAL BACKFILL**  
 FINAL BACKFILL FOR WATER MAINS, WATER SERVICE LATERALS, SANITARY MAINS AND SANITARY SERVICE LATERALS UNDER AND WITHIN 6 FEET OF PAVEMENT OR SIDEWALK OR OTHER PAVED AREAS AND FOR ALL INSTALLATIONS WITHIN CITY RIGHT-OF-WAY SHALL BE 8-BORROW FOR STRUCTURE BACKFILL MEETING THE MATERIAL REQUIREMENTS OF THE INDOT. THE MATERIAL SHALL BE APPROVED BY THE CITY OF CARMEL DEPARTMENT OF ENGINEERING AT TIME OF INSTALLATION. FINAL BACKFILL SHALL BE COMPACTED IN 6-INCH MAXIMUM LIFTS TO NOT LESS THAN 95% STANDARD PROCTOR DENSITY FOR THE ENTIRE DEPTH OF THE MATERIAL PLACED. THE BACKFILL FOR THOSE TOP BRANCHES OF THE EXCAVATION BELOW THE START OF THE AGGREGATE SUB-BASE OF THE PAVEMENT SHALL BE NO. 53 STONE MEETING THE MATERIAL REQUIREMENT OF THE INDOT AND SHALL BE COMPACTED TO NOT LESS THAN 85% STANDARD PROCTOR DENSITY. IF THE STANDARD PRACTICE OF THE UTILITY THAT HAS JURISDICTION OVER THE INSTALLATION HAS A MORE STRINGENT COVER REQUIREMENT, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

**MINIMUM COVER FOR PIPE CROSSINGS WITHIN CITY RIGHT-OF-WAY**  
 FOR INSTALLATION OF STORM MAINS, WATER MAINS, SANITARY MAINS, WATER SERVICE LATERALS, SANITARY SERVICE LATERALS UNDER CITY STREETS, REGARDLESS OF JURISDICTION OF THE UTILITY, THE MINIMUM COVER FROM THE TOP OF THE INSTALLED PAVEMENT TO THE TOP OF THE INSTALLED PIPE SHALL BE THE PAVEMENT SECTION THICKNESS (ALL BITUMINOUS AND AGGREGATE MATERIAL ABOVE THE SUBGRADE) PLUS 14", BUT UNDER NO CIRCUMSTANCES SHALL THE COVER ALONG ANY PART OF THE PIPE FROM THE FINAL PAVEMENT ELEVATION TO THE TOP OF THE PIPE BE LESS THAN 2.5 FEET. IF THE STANDARD PRACTICE OF THE UTILITY THAT HAS JURISDICTION OVER THE INSTALLATION HAS A MORE STRINGENT COVER REQUIREMENT, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.  
 COVER HEIGHTS FOR REINFORCED CONCRETE PIPE STORM SEWER THAT ARE LESS THAN THOSE REQUIRED WILL BE EVALUATED ON A CASE BY CASE CONDITION AND APPROVED ONLY WITH WRITTEN PERMISSION BY THE CITY ENGINEER.

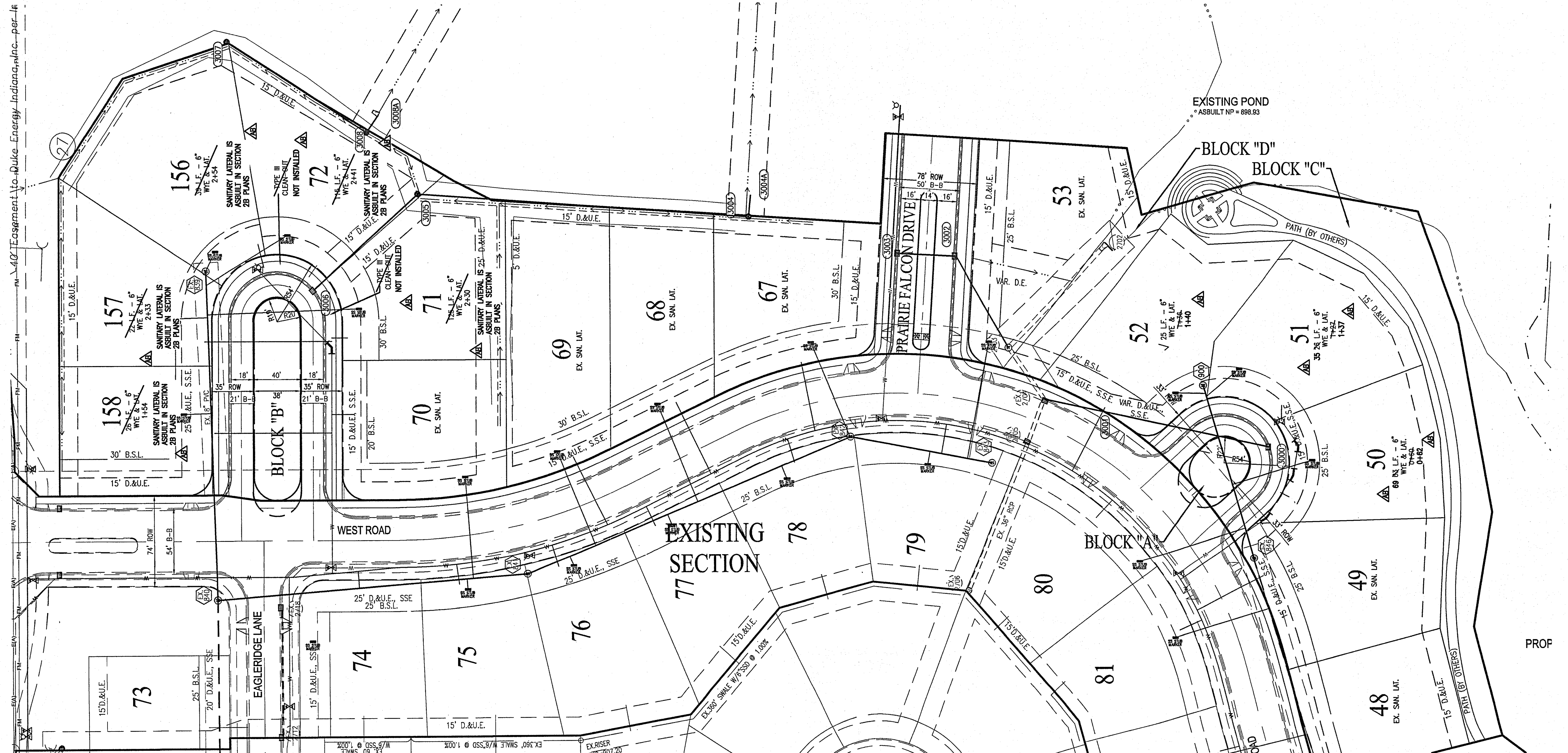


PROFILE LEGEND	
(Solid line)	EXISTING GRADE
(Dashed line)	FINISHED GRADE
(Stippled area)	GRANULAR BACKFILL



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 Within Indiana Call  
 811 or 800-382-5544  
 24 Hours a Day, 7 Days a Week.

PER INDIANA STATE LAW IC 8-1-28, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.



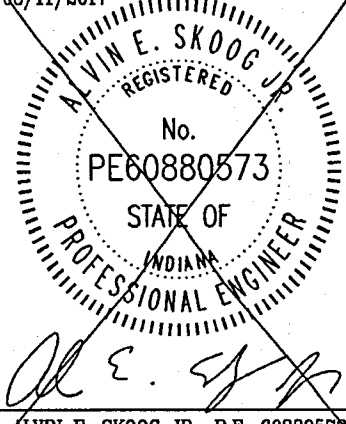
10507 N. College Avenue  
 Indianapolis, Indiana 46280  
 wehce.net  
 317 | 846 - 6611  
 800 | 452 - 6408  
 317 | 843 - 0546 / fax  
 ALLAN H. WEIHE, P.E., L.S. - FOUNDER

**WEIHE ENGINEERS**  
 Land Surveying | Civil Engineering  
 Landscape Architecture

PROJECT NO. W160409  
 DATE: 07/25/2017  
 DESIGNED BY: [Signature]  
 CHECKED BY: [Signature]

DATE: [Blank]  
 BY: [Blank]

REVISIONS AND ISSUES  
 06/11/2017



PREPARED FOR:  
**WATERFRONT OF WEST CLAY**  
**SECTION 2C**  
 WATERFRONT HOMES  
 SANITARY PLAN AND PROFILE  
 Part of the SR 116 of Section 31, Township 18 North, Range 3 East, Clay Township, Hamilton County, Indiana.  
 SHEET NO.  
**C500**  
 PROJECT NO.  
**W160409**

**CITY OF CARMEL COVER AND BACKFILL POLICY: 9-8-06**  
**WATER AND SEWER UNDER PAVEMENT, SIDEWALK, PAVED AREAS AND WITHIN RIGHT-OF-WAY**

**BEDDINGS, HAUNCHING, INITIAL BACKFILL**

BEDDING, HAUNCHING AND INITIAL BACKFILL REQUIREMENTS AND COMPACTION FOR WATER MAINS, WATER SERVICE LATERALS, SANITARY MAINS AND SANITARY SERVICE LATERALS SHALL BE IN ACCORDANCE WITH THE STANDARD PRACTICE OF THE UTILITY THAT HAS JURISDICTION OVER THE INSTALLATION.

**FINAL BACKFILL**

FINAL BACKFILL FOR WATER MAINS, WATER SERVICE LATERALS, SANITARY MAINS AND SANITARY SERVICE LATERALS UNDER AND WITHIN 5-FEET OF PAVEMENT OR SIDEWALK OR OTHER PAVED AREAS AND FOR ALL INSTALLATIONS WITHIN CITY RIGHT-OF-WAY SHALL BE B-BORROW FOR STRUCTURE BACKFILL MEETING THE MATERIAL REQUIREMENTS OF THE INDOT. THE MATERIAL SHALL BE APPROVED BY THE CITY OF CARMEL DEPARTMENT OF ENGINEERING AT THE TIME OF INSTALLATION. FINAL BACKFILL SHALL BE COMPACTED IN 6-INCH MAXIMUM LIFTS TO NOT LESS THAN 95% STANDARD PROCTOR DENSITY FOR THE ENTIRE DEPTH OF THE MATERIAL PLACED. THE BACKFILL FOR THE TOP 6-INCHES OF THE EXCAVATION BELOW THE START OF THE AGGREGATE SUB-BASE OF THE PAVEMENT SHALL BE NO. 53 STONE MEETING THE MATERIAL REQUIREMENT OF THE INDOT AND SHALL BE COMPACTED TO NOT LESS THAN 95% STANDARD PROCTOR DENSITY. IF THE STANDARD PRACTICE OF THE UTILITY THAT HAS JURISDICTION OVER THE INSTALLATION HAS A MORE STRINGENT BACKFILL REQUIREMENT, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

**MINIMUM COVER FOR PIPE CROSSINGS WITHIN CITY RIGHT-OF-WAY**

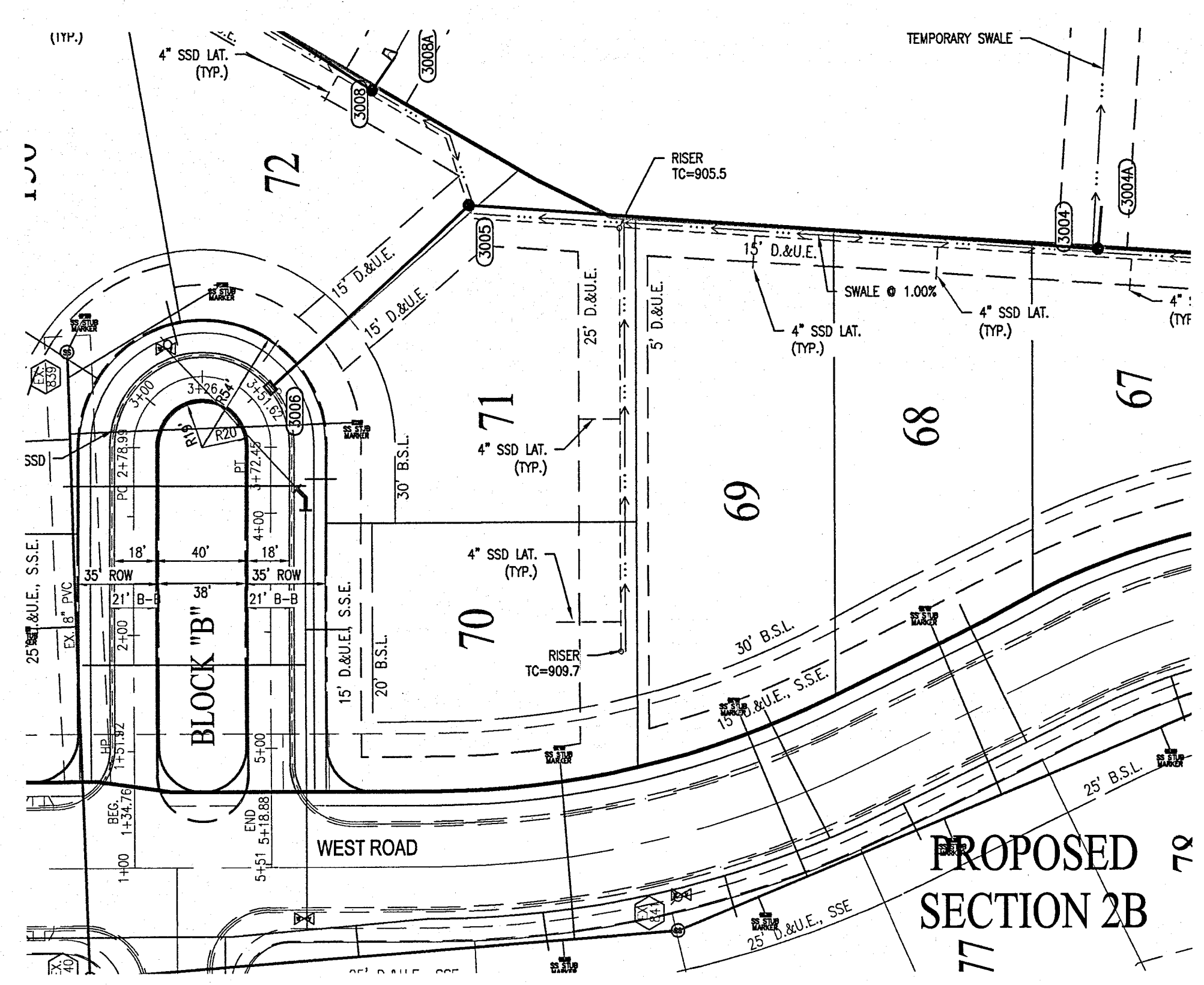
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**MINIMUM COVER FOR PIPE CROSSINGS WITHIN CITY RIGHT-OF-WAY**

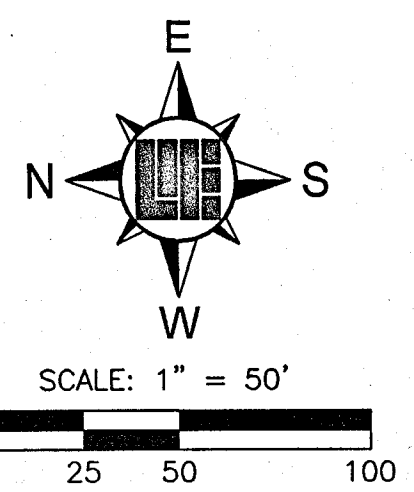
FOR INSTALLATION OF STORM MAINS, WATER MAINS, SANITARY MAINS, WATER SERVICE LATERALS, SANITARY SERVICE LATERALS UNDER CITY STREETS, REGARDLESS OF JURISDICTION OF THE UTILITY, THE MINIMUM COVER FROM THE TOP OF THE INSTALLED PAVEMENT TO THE TOP OF THE INSTALLED PIPE SHALL BE THE PAVEMENT SECTION THICKNESS (ALL BITUMINOUS AND AGGREGATE MATERIAL ABOVE THE SUBGRADE) PLUS 1'-0", BUT UNDER NO CIRCUMSTANCES SHALL THE COVER ALONG ANY PART OF THE PIPE FROM THE FINAL PAVEMENT ELEVATION TO THE TOP OF THE PIPE BE LESS THAN 2.5-FEET. IF THE STANDARD PRACTICE OF THE UTILITY THAT HAS JURISDICTION OVER THE INSTALLATION HAS A MORE STRINGENT COVER REQUIREMENT, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

COVER HEIGHTS FOR REINFORCED CONCRETE PIPE STORM SEWER THAT ARE LESS THAN THOSE REQUIRED WILL BE EVALUATED ON A CASE BY CASE BASIS AND APPROVED ONLY WITH WRITTEN PERMISSION BY THE CITY ENGINEER.

THE STORM SEWER SYSTEM SHALL BE CONSTRUCTED PER DESIGN SPECIFIED AND AS APPROVED BY THE CITY OF CARMEL ON THE FINAL APPROVED CONSTRUCTION PLANS. DEVIATIONS FROM THE APPROVED DESIGN SHALL ONLY BE PERMITTED DUE TO SPECIAL CIRCUMSTANCES OR DIFFICULTY DURING CONSTRUCTION AND WILL REQUIRE PRIOR FIELD APPROVAL FROM A DESIGNATED REPRESENTATIVE OF THE CITY OF CARMEL IN ADDITION TO SUPPLEMENTAL APPROVAL BY THE DESIGN ENGINEER. AN EXPLANATION OF ANY SUCH DEVIATION SHALL BE INCLUDED AS A REQUIREMENT ON AS-BUILT RECORD DRAWINGS SUBMITTED FOR RELEASE OF PERFORMANCE GUARANTEES. APPROVED DESIGN SLOPES IDENTIFIED AS GENERATING VELOCITIES OF 2.5 FPS OR LESS OR 10 FPS OR GREATER (AT FULL FLOW CAPACITY) SHALL REQUIRE AS-BUILT CERTIFICATION AT THE TIME OF CONSTRUCTION, PRIOR TO BACKFILLING THE PIPE. THE CONTRACTOR IS INSTRUCTED TO AS-BUILT EACH SECTION OF STORM PIPE AS IT IS BEING INSTALLED TO ENSURE COMPLIANCE WITH THE DESIGN PLANS AND AS APPROVED BY THE CITY OF CARMEL.



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



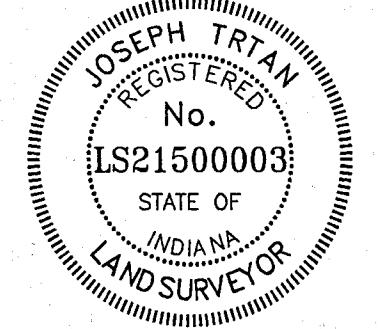
**GENERAL NOTES:**

- FULL DEPTH GRANULAR BACKFILL SHALL BE PER DETAIL 10-31 ON SHEET C602. REFER TO DETAIL 10-31 ON SHEET C602 FOR TRENCHING, BACKFILL AND COVER REQUIREMENTS. PIPES LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND DOES NOT INCLUDE END SECTIONS.
- THERE SHALL BE NO FRAMES, CASTINGS, OR VALVE BOX EXTENSIONS IN THE STREET PAVEMENT, CURBS, SIDEWALKS, OR ASPHALT PATH FOR ANY UTILITY INSTALLATIONS IN THE RIGHT-OF-WAY WITH THE EXCEPTION OF CURB INLET CASTINGS.

**RECORD DRAWING**

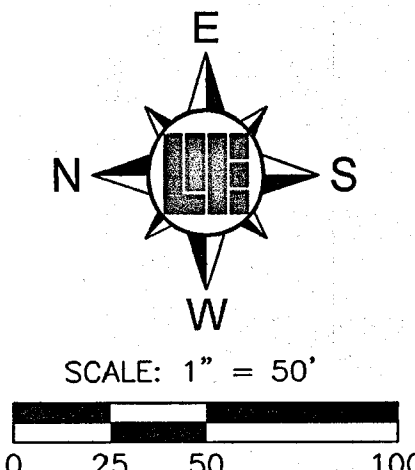
STORM SEWER AS-BUILTS  
 STORM SEWER STRUCTURES ONLY  
 12-20-2018

JOSEPH TRTAN, LS21500003



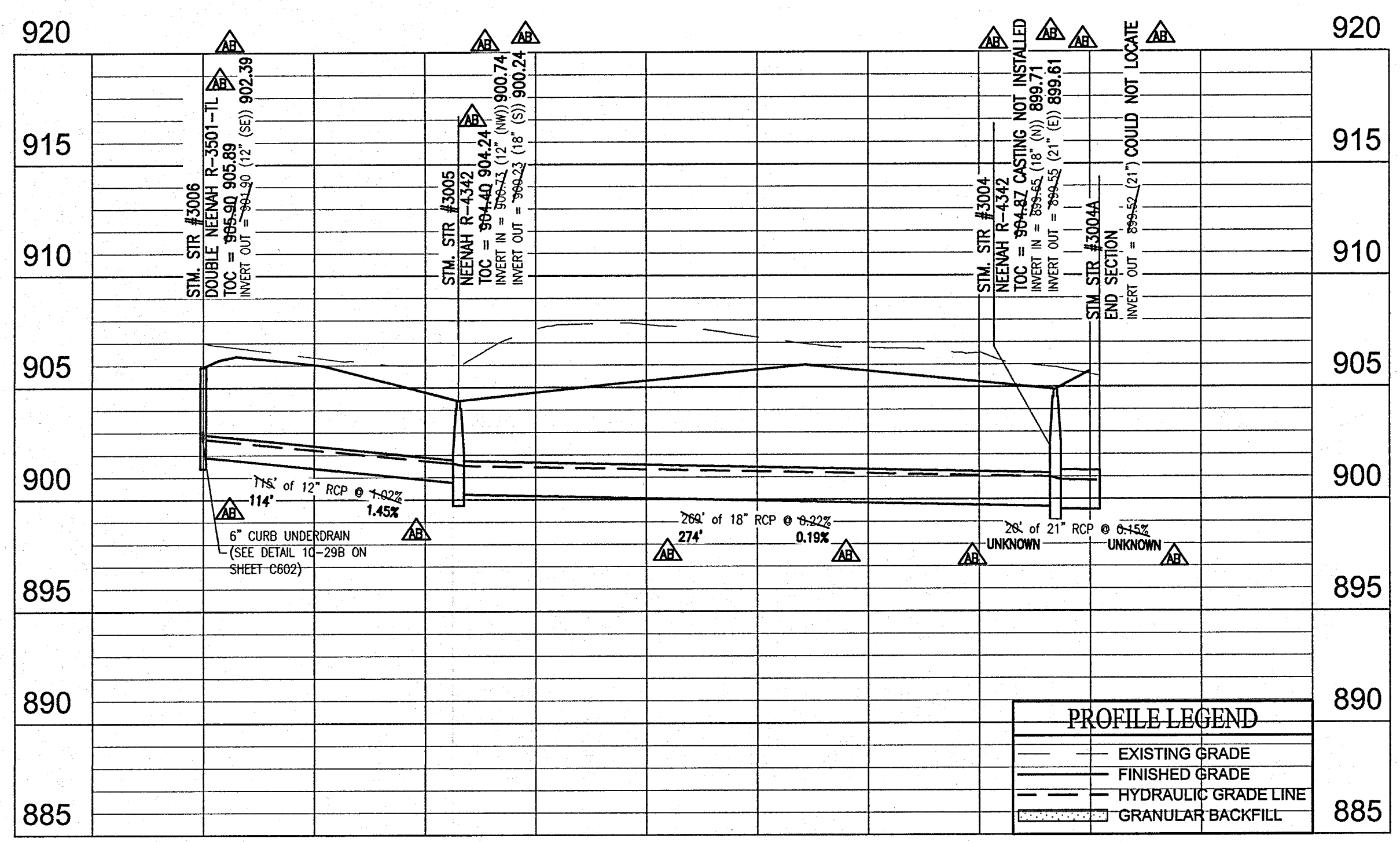
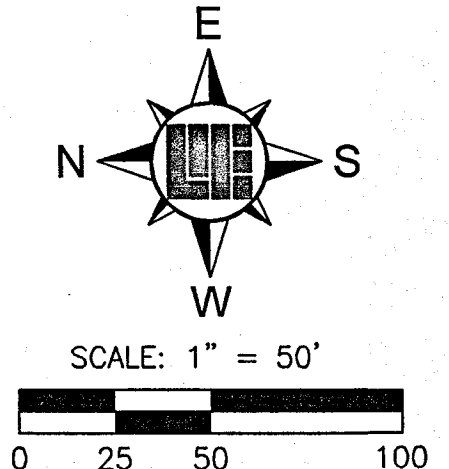
- ▲ - AS-BUILT INFORMATION
- ✓ - BUILT AS PLANNED

DATE OF LAST FIELDWORK: 11/7/2018



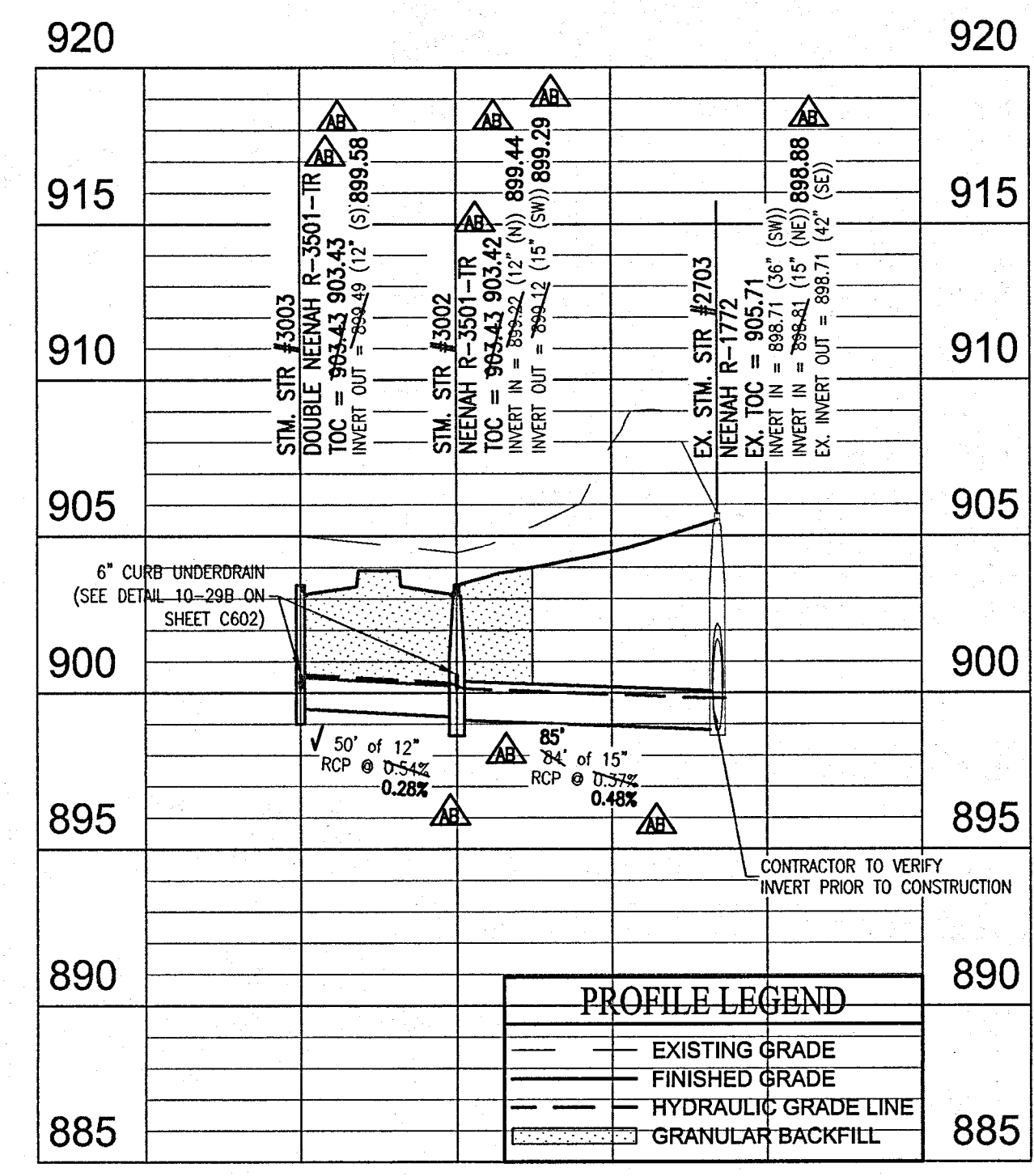
**BENCHMARK INFORMATION**

BM 800 54 - A DNR DISK IS LOCATED 1.0 MILE NORTHEAST OF ZIONSVILLE, 0.2 MILE EAST ALONG WEST 121ST STREET FROM ITS JUNCTION WITH STATE ROAD 421 AT THE INTERSECTION OF DAUGHTERY DRIVE AND WEST 121ST STREET, IN THE NORTHEAST 1/4 OF THE INTERSECTION, AT THE ENTRANCE TO THE EAGLE VILLAGE SUBDIVISION, SET IN THE TOP OF A CONCRETE POST, LEVEL WITH THE GROUND, A DEPARTMENT OF NATURAL RESOURCES BRASS CONTROL STATION TABLET, STAMPED 800 54 1989.  
 ELEV: 901.14 FEET (1929 DATUM)  
 ELEV: 900.76 FEET (1988 DATUM)  
 THESE PLANS ARE ON 1988 DATUM



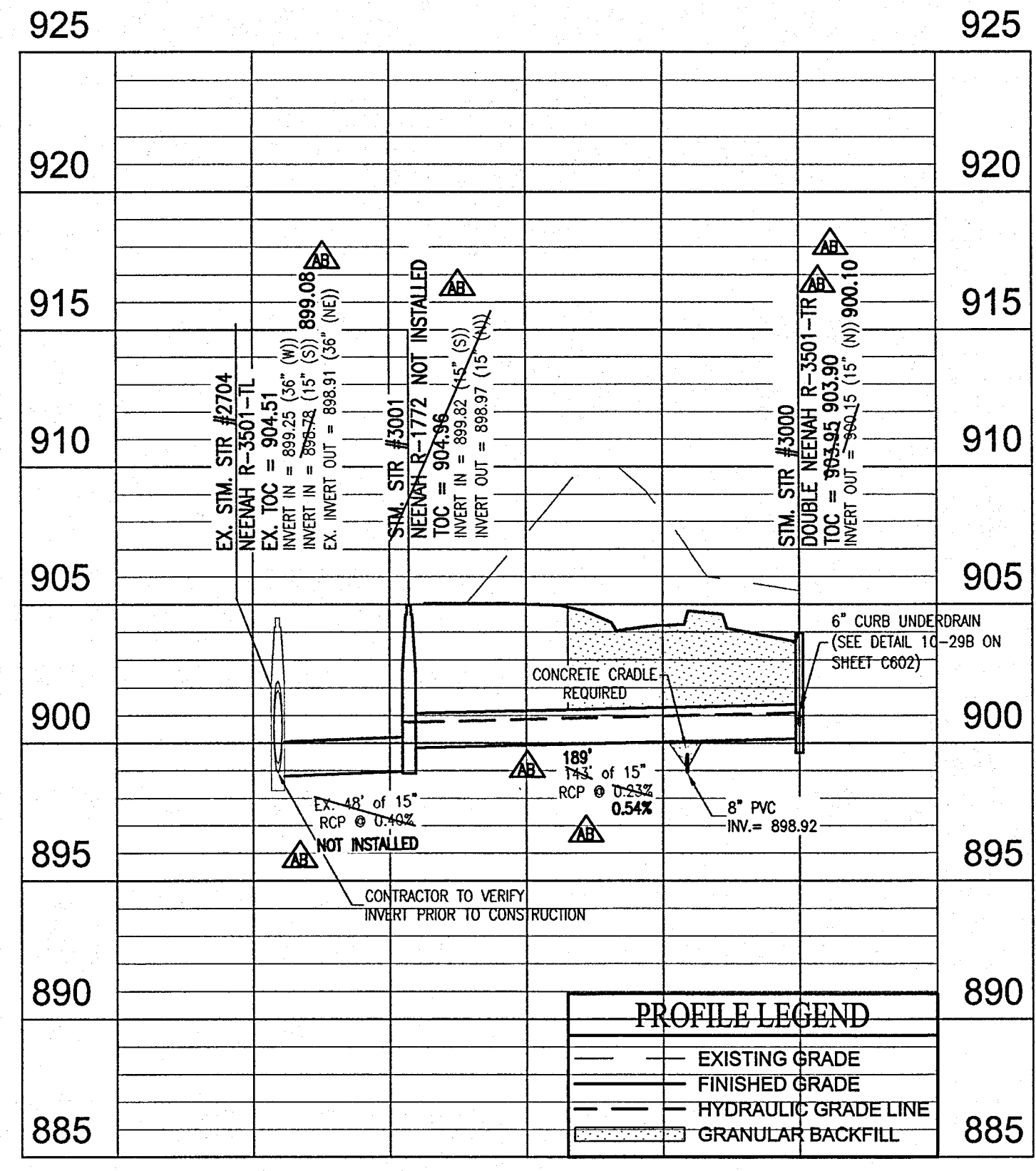
**PROFILE LEGEND**

(Solid line)	EXISTING GRADE
(Dashed line)	FINISHED GRADE
(Dotted line)	HYDRAULIC GRADE LINE
(Hatched area)	GRANULAR BACKFILL



**PROFILE LEGEND**

(Solid line)	EXISTING GRADE
(Dashed line)	FINISHED GRADE
(Dotted line)	HYDRAULIC GRADE LINE
(Hatched area)	GRANULAR BACKFILL



**PROFILE LEGEND**

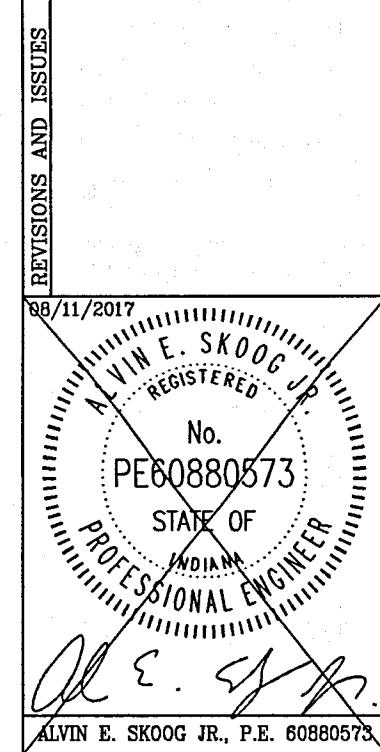
(Solid line)	EXISTING GRADE
(Dashed line)	FINISHED GRADE
(Dotted line)	HYDRAULIC GRADE LINE
(Hatched area)	GRANULAR BACKFILL

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 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 | 452 - 6408  
 317 | 843 - 0546 fax  
 ALLAN H. WEIHE, P.E., L.S., FOUNDER

**WEIHE ENGINEERS**  
 Land Surveying | Civil Engineering  
 Landscape Architecture

PROJECT NO.: W160409  
 DATE: 07/25/2017  
 DESIGNER: JET  
 CHECKED BY: MEN  
 DRAWN BY: MEN  
 DATE: 07/25/2017



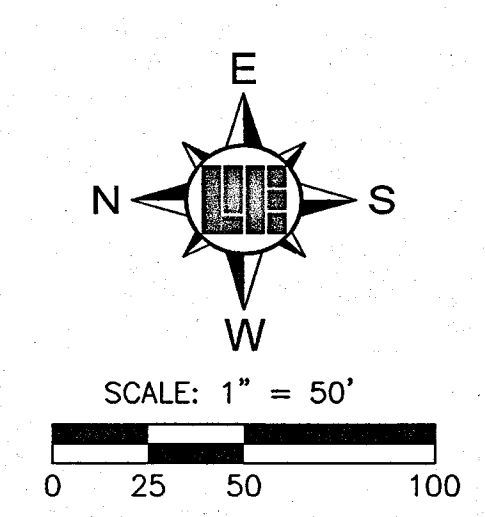
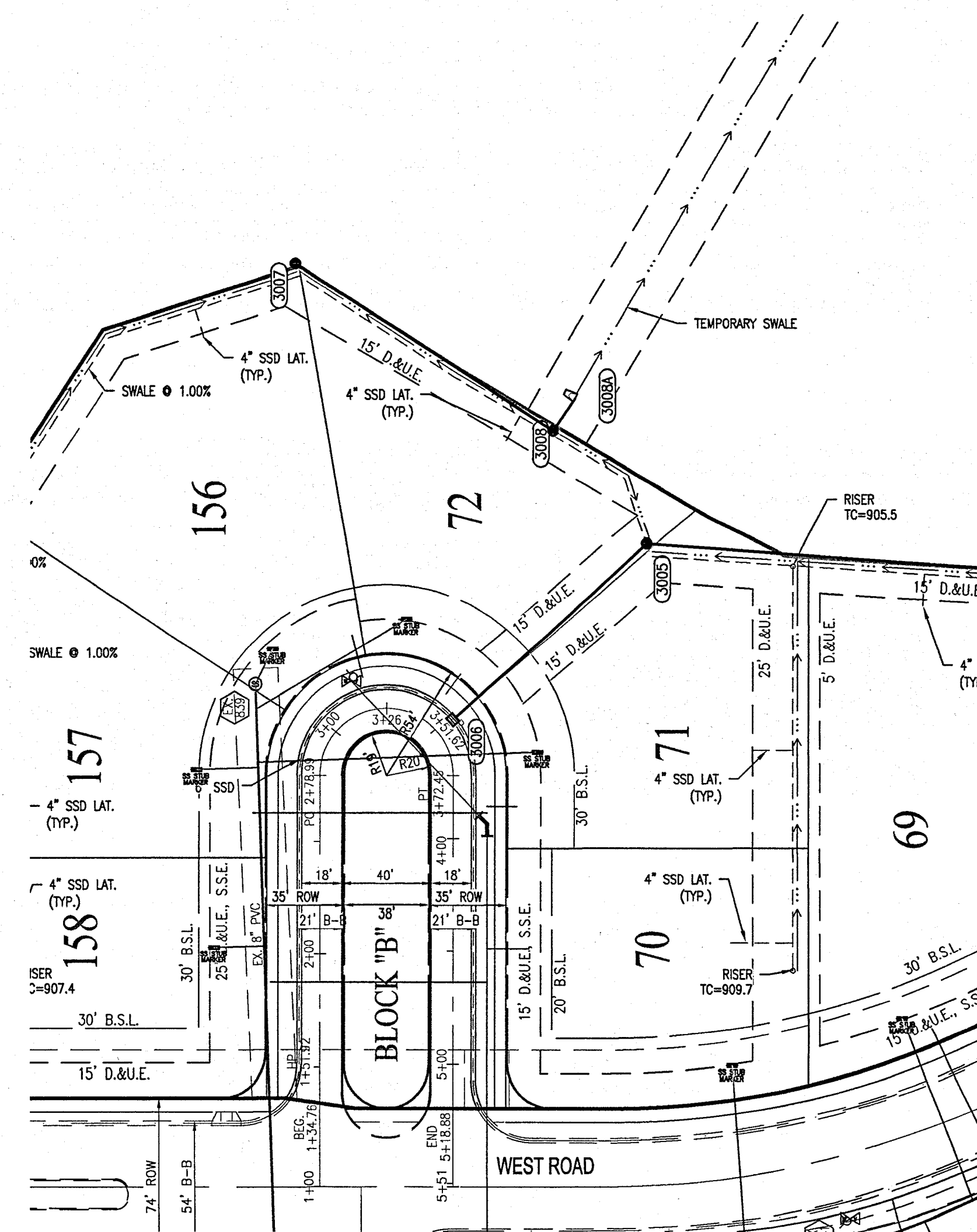
PREPARED FOR:  
**WATERFRONT OF WEST CLAY**  
**SECTION 2C**  
 WATERFRONT HOMES  
**STORM PLAN AND PROFILE**  
 Part of the SW 1/4 of Section 01, Township 18 North, Range 3 East, Clay Township, Hamilton County, Indiana

SHEET NO.  
**C600**  
 PROJECT NO.  
 W160409

NOTE: REFER TO SHEET C602 FOR STORM SEWER DETAILS

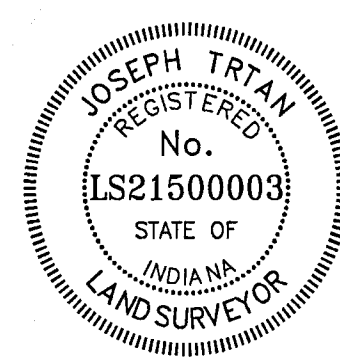
STRUCTURE NUMBER	STRUCTURE TYPE	TOP OF CASTING	CASTING TYPE	INVERT
EX. 2703	EXAMMANHOLE	905.71	NEENAH R-1772	INV IN = 899.71(SW) INV IN = 898.81(NE) INV OUT = 898.71(SE)
EX. 2704	EXAMMANHOLE	904.51	NEENAH R-3501-TL	INV IN = 899.25(W) INV IN = 898.78(S) INV OUT = 898.91(NE)
3000	DOUBLE CURB INLET	903.95	NEENAH R-3501-TR	INV OUT = 900.15(N)
3001	48" DIAM MANHOLE	904.96	NEENAH R-1772	INV IN = 899.82(S) INV OUT = 899.87(N)
3002	INLET MANHOLE	903.43	NEENAH R-3501-TR	INV IN = 899.22(N) INV OUT = 899.12(SW)
3003	DOUBLE CURB INLET	903.43	NEENAH R-3501-TR	INV OUT = 899.49(S)
3004	48" DIAM MANHOLE	904.87	NEENAH R-4342	INV IN = 899.65(N) INV OUT = 899.55(E)
3004A	TEMPORARY OUTLET	904.52	ROAD	INV IN = 899.52(W) INV OUT = 899.52(E)
3005	48" DIAM MANHOLE	904.40	NEENAH R-4342	INV IN = 900.73(NW) INV OUT = 900.23(S)
3006	DOUBLE CURB INLET	905.90	NEENAH R-3501-TL	INV OUT = 901.90(SE)
3007	INLET TYPE J	902.99	NEENAH R-4342	INV OUT = 900.27(SW)
3008	48" DIAM MANHOLE	904.30	NEENAH R-4342	INV IN = 899.89(NE) INV OUT = 899.79(SE)
3008A	TEMPORARY OUTLET	904.35	ROAD	INV IN = 899.74(NW) INV OUT = 899.74(SE)

DOWNSIDE STRUCTURE	UPSTREAM STRUCTURE	SIZE	MATERIAL	LENGTH	SLOPE
3000	3001	15"	RCP	143'	0.23%
3002	2703	15"	RCP	84'	0.37%
3003	3002	15"	RCP	50'	0.54%
3004	3004A	21"	RCP	20'	0.15%
3005	3004	18"	RCP	269'	0.22%
3006	3005	12"	RCP	115'	1.02%
3007	3008	15"	CLAY RCP	135'	0.28%
3008	3008A	15"	RCP	17'	0.30%



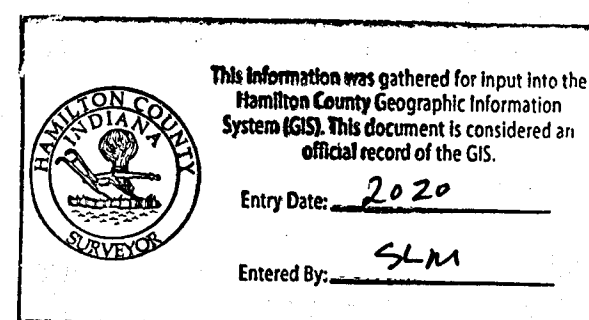
**RECORD DRAWING**  
STORM SEWER AS-BUILTS  
STORM SEWER STRUCTURES ONLY  
12-20-2018

JOSEPH TRTAN, LS21500003



- ASBUILT INFORMATION
- BUILT AS PLANNED

DATE OF LAST FIELDWORK: 11/7/2018



**CITY OF CARMEL COVER AND BACKFILL POLICY: 9-8-06**

WATER AND SEWER UNDER PAVEMENT, SIDEWALK, PAVED AREAS AND WITHIN RIGHT-OF-WAY

**BEDDING, HAUNCHING, INITIAL BACKFILL**

BEDDING, HAUNCHING AND INITIAL BACKFILL REQUIREMENTS AND COMPACTION FOR WATER MAINS, WATER SERVICE LATERALS, SANITARY MAINS AND SANITARY SERVICE LATERALS SHALL BE IN ACCORDANCE WITH THE STANDARD PRACTICE OF THE UTILITY THAT HAS JURISDICTION OVER THE INSTALLATION.

**FINAL BACKFILL**

FINAL BACKFILL FOR WATER MAINS, WATER SERVICE LATERALS, SANITARY MAINS AND SANITARY SERVICE LATERALS UNDER AND WITHIN 4- FEET OF PAVEMENT OR SIDEWALK OR OTHER PAVED AREAS AND FOR ALL INSTALLATIONS WITHIN CITY RIGHT-OF-WAY SHALL BE 8-BORROW FOR STRUCTURE BACKFILL MEETING THE MATERIAL REQUIREMENTS OF THE INDOT. THE MATERIAL SHALL BE APPROVED BY THE CITY OF CARMEL DEPARTMENT OF ENGINEERING AT TIME OF INSTALLATION. FINAL BACKFILL SHALL BE COMPACTED IN 8-INCH MAXIMUM LIFTS TO NOT LESS THAN 95% STANDARD PROCTOR DENSITY FOR THE ENTIRE DEPTH OF THE MATERIAL PLACED. THE BACKFILL FOR THE TOP 6-INCHES OF THE EXCAVATION BELOW THE START OF THE AGGREGATE SUB-BASE OF THE PAVEMENT SHALL BE NO. 53 STONE MEETING THE MATERIAL REQUIREMENT OF THE INDOT AND SHALL BE COMPACTED TO NOT LESS THAN 95% STANDARD PROCTOR DENSITY. IF THE STANDARD PRACTICE OF THE UTILITY THAT HAS JURISDICTION OVER THE INSTALLATION HAS A MORE STRINGENT BACKFILL REQUIREMENT, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

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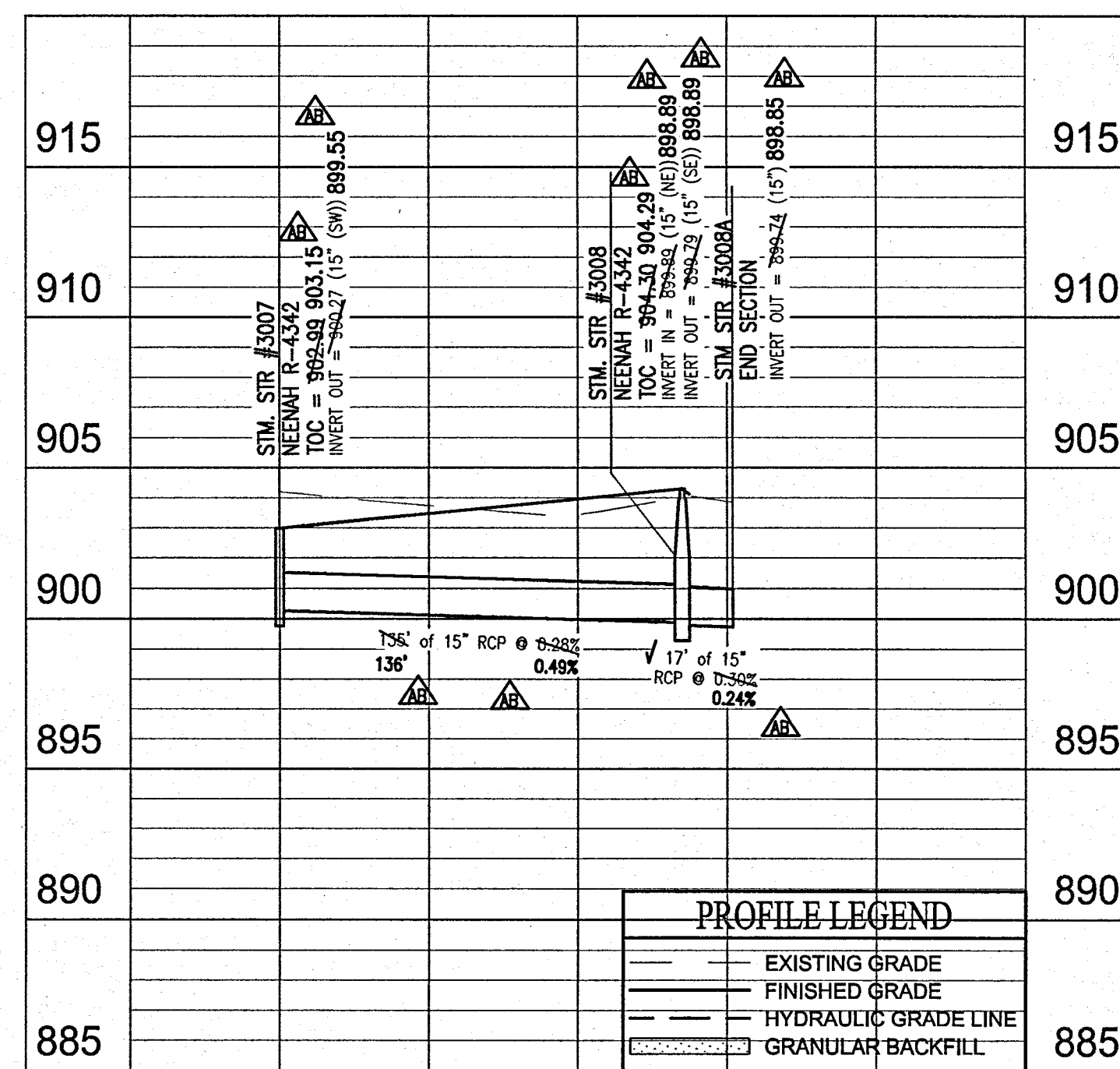
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ELEV: 801.14 FEET (1989 DATUM)  
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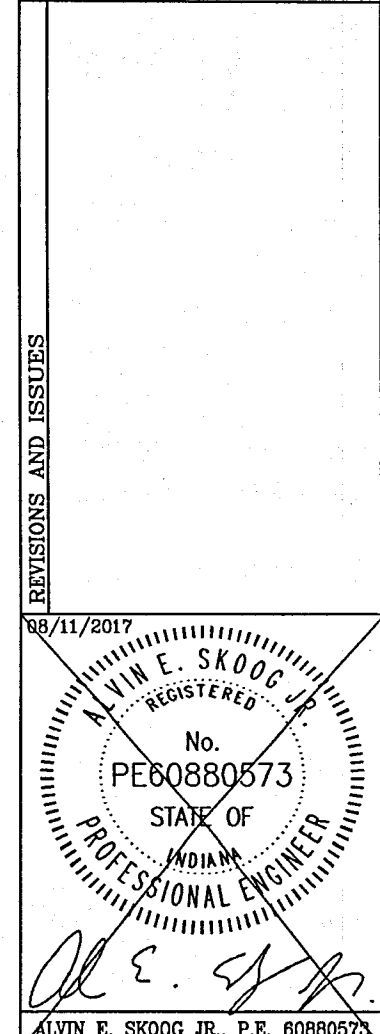


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DAYS BEFORE COMMENCING WORK.

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Indianapolis, Indiana 46280  
weihe.net  
317 | 846 - 6611  
800 | 452 - 6408  
317 | 843 - 0546/ax  
ALLAN H. WEIHE, P.E., L.S. - FOUNDER

**WEIHE ENGINEERS**  
Land Surveying | Civil Engineering  
Landscape Architecture

PROJECT NO.:	W160409
DWG NAME:	Storm Sewer
DESIGNER:	SLM
DRAWN BY:	SLM
CHECKED BY:	SLM
DATE:	07/25/2017



PREPARED FOR:  
**WATERFRONT OF WEST CLAY SECTION 2C**  
WATERFRONT HOMES  
STORM PLAN AND PROFILE  
Part of the 28' 1/4" of Section 21, Township 18 North, Range 3 East, Clay Township, Hamilton County, Indiana

SHEET NO.  
**C601**

PROJECT NO.  
W160409

LOCATION: I:\2017\W160409\Drawings\Subarea\AS\_Constr\W160409 Storm Plan (SECTION 2C).dwg  
DATE: 07/25/2017  
DRAWN BY: SLM  
CHECKED BY: SLM  
PLOT BY: SLM