

SURVEYOR'S OFFICE

Hamilton County

June 29, 2015

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

Re: Long Branch Drain, Lakes at Towne Road III Arm

Attached is a petition filed by Paul Shoopman Homebuilding Group, along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for Lakes at Towne Road III 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	504 ft.	24" RCP	415 ft.
15" RCP	385 ft.	27" RCP	361 ft.
18" RCP	330 ft.	6" SSD	4,274 ft.

The total length of the drain will be 6,269 feet.

The retention pond (lake) located in Common Area C is not to be considered part of the regulated drain. Pond maintenance assumed by the Drainage Board shall only include the inlets and outlet as part of the regulated drain. The maintenance of the retention pond (lake) such as sediment removal and erosion control along the banks, mowing and aquatic vegetation maintenance and control will be the responsibility of the Homeowners Association. The Board will also retain jurisdiction for ensuring the storage volume for which the pond was designed will be retained. Thereby, allowing no fill or easement encroachments.

The subsurface drains (SSD) to be part of the regulated drain are those located under the curbs and those main lines in rear yards. Only the main SSD lines as described below, 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 portions of the SSD which will be regulated and maintained are as follows:

Curbline SSD in Streets:

Lost Creek Lane
 Alexandra Drive

Rear Yard SSDs:

Rear yard lots 1 to 4 from Str. 218 to Str. 204
 Rear yard lots 5 to 6 from Str. 204 to Str. 203A
 Rear yard lots 7 to 8 from Str. 207A to Str. 208

Rear yard lots 9 to 12 from Str. 208 to Str. 211
Common Area B from Str. 211 to riser
Common Area A from Str. 213 to riser

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 lot, \$10.00 per acre for common areas, and \$10.00 per acre for roadways. With this assessment the total annual assessment for this drain will be \$1,017.60.

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

Agent: Lexon Insurance Company
Date: December 30, 2014
Number: 1112651
For: Storm Sewers
Amount: \$133,063.20

Agent: Lexon Insurance Company
Date: December 30, 2014
Number: 1112652
For: Sub-Surface Drains
Amount: \$39,554.00

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 Lakes at Towne Road, Section 3 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for August 24, 2015.



Kepton C. Ward, CFM
Hamilton County Surveyor

KCW/pll

(Revised 06/08/04)

STATE OF INDIANA)
)
COUNTY OF HAMILTON)

FILED

JAN 28 2014

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

OFFICE OF HAMILTON COUNTY SURVEYOR

In the matter of The Lakes at Towne Road III Subdivision, Section
Long Branch / JW Brendle 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 Lakes at Towne Road III , 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.

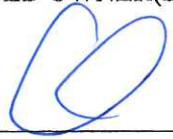
The Petitioner also agrees to the following:

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.

Adobe PDF Fillable Form

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
1-9-14

Date

Signed

Printed Name

Date

Signed

Printed Name

Date

Signed

Printed Name

Date

FINDINGS AND ORDER

CONCERNING THE MAINTENANCE OF THE

Long Branch Drain, Lakes at Towne Road III Arm


On this 24th day of August, 2015, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the *Long Branch Drain, Lakes at Towne Road III 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.

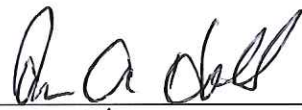
HAMILTON COUNTY DRAINAGE BOARD




President



Member



Member *act*

Attest: 
Executive Secretary

WEIHE ENGINEERS

Land Surveying | Civil Engineering
Landscape Architecture

Build with confidence.™

FILED

JAN 22 2015

OFFICE OF HAMILTON COUNTY SURVEYOR

January 20, 2014

Hamilton County Surveyor's Office
One Hamilton County Square
Noblesville, IN 46060
Attention: Kenton C. Ward

RE: The Lakes at Towne Road III

Dear Mr. Ward:

On behalf of our client, The Paul Shoopman Home Building Group, please accept the following Engineer's Cost Estimate for The Lakes at Towne Road III. The estimate is as follows:

Performance

Bond

<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>	<u>120%</u>
<u>Storm Sewer</u>					
Tap. Ex. Str. by conn. stub (dep=0-10ft)	1	LS	\$850.00	\$850	
12 RCP	512	LF	\$16.82	\$8,610	
15 RCP	385	LF	\$21.82	\$8,400	
18 RCP	70	LF	\$23.50	\$1,645	
18 RCP CL-IV	260		\$25.40	\$6,604	
24 RCP CL-IV	415		\$36.25	\$15,044	
27 RCP	360		\$39.00	\$14,040	
12" End section w/trash guards	2		\$1,080.00	\$2,160	
15" End section	1		\$1,110.00	\$1,110	
27" End section w/trash guards	1		\$1,375.00	\$1,375	
Small Manholes	3	EA	\$1,395.00	\$4,185	
Small Beehive inlets	3	EA	\$1,200.00	\$3,600	
Large Beehive inlets	1	EA	\$1,900.00	\$1,900	
Small single curb inlet	6	EA	\$1,700.00	\$10,200	
Large single curb inlet	2	EA	\$2,450.00	\$4,900	
Double curb inlet	2	EA	\$3,000.00	\$6,000	
Outlet control structure	2	EA	\$1,255.00	\$2,510	
Pond outlet	1	EA	\$1,875.00	\$1,875	
Fence removal & replacement	1	EA	\$4,500.00	\$4,500	
No 8 Stone bedding	500	TN	\$15.56	\$7,625	
Sand backfill	200	TN	\$11.00	\$2,200	
Riprap	40	TN	\$35.00	\$1,400	
				\$110,886	\$133,063.20


Subsurface Drain

Curb – 6" Sub-Drain	2228	LF	\$8.30	\$18,492	
Swale – 6" Sub-Drain	1500	LF	\$8.30	\$12,450	
SSD Risers	4	EA	\$250.00	\$1,000	
4" Lot Leads	12	LS	\$85.00	<u>\$1,020</u>	
				\$32,962	\$39,554.40

Centerline Monuments

	6	EA	\$175.00	\$1,050	\$1,260.00
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Witness my signature this 20th day of January, 2014.


James E. Shields, Jr.
Professional Engineer
No. PE10201333



**LEXON INSURANCE COMPANY
Mount Juliet, TN 37122**

SUBDIVISION PERFORMANCE BOND

BOND #1112651

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, Mount Juliet, TN 37122, as Surety, are held and firmly bound unto the **Hamilton County Surveyor**, One Hamilton Square, Noblesville, IN 46060 as Owner, in the sum of ****One Hundred Thirty Three Thousand Sixty Three and 20/100 **Dollars (\$133,063.20)** 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 **The Lakes at Towne Road III – Storm Sewer** according to the approved plans and specifications on file with the **Hamilton County Surveyor**, 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 30th Day of December, 2014.

Paul Shoopman Home Building Group, Inc.

Lexon Insurance Company

By: _____

By: Deborah M. Roth
Deborah M. Roth, Attorney-in-Fact

American Contracting Services, Inc.
340 E. Thompson Road
Indianapolis, IN 46227
(317) 780-1919

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 21st day of September, 2009.

LEXON INSURANCE COMPANY



BY
David E. Campbell
President

ACKNOWLEDGEMENT

On this 21st day of September, 2009, 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 L. TAYLOR
Notary Public- State of Tennessee
Davidson County
My Commission Expires 01-09-16

BY
Amy L. 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 30 Day of Dec., 2014.



BY
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

FEB 25 2015

RIDER

OFFICE OF HAMILTON COUNTY SURVEYOR

TO BE ATTACHED TO AND FORM PART OF

Subdivision Bond - General Form

(Bond Type)

NO. 1112651

(Bond Number)

IN FAVOR OF Hamilton County Board Of Commissioners

(Obligee)

ON BEHALF OF Paul Shoopman Home Building Group, Inc.

(Principal)

EFFECTIVE December 30, 2014

(Original Effective Date)

IT IS AGREED THAT, in consideration of the original premium charged for this bond, and any additional premium that may be properly chargeable as a result of this rider.

The Surety, Lexon Insurance Company

hereby gives its consent to change;

Obligee Correction

(of) the attached bond FROM: Incorrect Obligee = Hamilton County Surveyor

TO: Correct Obligee = Hamilton County Board of Commissioners

REASON:

EFFECTIVE: December 30, 2014

PROVIDED, however that the attached bond shall be subject to all its agreements, limitations, and conditions except as herein expressly modified, and that the liability of the Surety under the attached bond and under the attached bond as changed by this rider shall not be cumulative.

SIGNED, AND SEALED this 3rd day of February, 2015

PAUL SHOOPMAN HOME BUILDING GROUP, INC.

Principal

Lexon Insurance Company

Surety

Accepted By

Deborah M. Roth, Attorney-in-fact



**LEXON INSURANCE COMPANY
Mount Juliet, TN 37122**

SUBDIVISION PERFORMANCE BOND

BOND #1112652

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THE CONDITION OF THIS BOND is such that if the said Principal shall complete the construction of **The Lakes at Towne Road III – Sub Surface Drain** according to the approved plans and specifications on file with the **Hamilton County Surveyor**, 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 30th Day of December, 2014.

Paul Shoopman Home Building Group, Inc.

Lexon Insurance Company

By: _____

By: _____

Deborah M. Roth, Attorney-in-Fact

American Contracting Services, Inc.
340 E. Thompson Road
Indianapolis, IN 46227
(317) 780-1919

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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 21st day of September, 2009.

LEXON INSURANCE COMPANY



BY
David E. Campbell
President

ACKNOWLEDGEMENT

On this 21st day of September, 2009, 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 L. TAYLOR
Notary Public- State of Tennessee
Davidson County
Mv Commission Expires 01-09-16

BY
Amy L. 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 30 Day of Dec, 2014.



BY
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

FEB 25 2015

RIDER

OFFICE OF COUNTY SURVEYOR
TO BE ATTACHED TO AND FORM PART OF

HCDB-2015-00012

Subdivision Bond - General Form

NO. 1112652

(Bond Type)

(Bond Number)

IN FAVOR OF Hamilton County Board Of Commissioners

(Obligee)

ON BEHALF OF Paul Shoopman Home Building Group, Inc.

(Principal)

EFFECTIVE December 30, 2014

(Original Effective Date)

IT IS AGREED THAT, in consideration of the original premium charged for this bond, and any additional premium that may be properly chargeable as a result of this rider.

The Surety, Lexon Insurance Company

hereby gives its consent to change;

Obligee Correction

(of) the attached bond FROM: Incorrect Obligee = Hamilton County Surveyor

TO: Correct Obligee = Hamilton County Board of Commissioners

REASON:

EFFECTIVE: December 30, 2014

PROVIDED, however that the attached bond shall be subject to all its agreements, limitations, and conditions except as herein expressly modified, and that the liability of the Surety under the attached bond and under the attached bond as changed by this rider shall not be cumulative.

SIGNED, AND SEALED this 3rd day of February, 2015

PAUL SHOOPMAN HOME BUILDING GROUP, INC.

Principal

Lexon Insurance Company

Surety

Accepted By

Deborah M. Roth, Attorney-in-fact

FILE
COPY

LEXON INSURANCE COMPANY
Mount Juliet, TN 37122

SUBDIVISION PERFORMANCE BOND

BOND #1112653

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THE CONDITION OF THIS BOND is such that if the said Principal shall complete the construction of **The Lakes at Towne Road III – Centerline Monuments** according to the approved plans and specifications on file with the **Hamilton County Surveyor**, 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 30th Day of December, 2014.

Paul Shoopman Home Building Group, Inc.

Lexon Insurance Company

By: _____

By: _____

Deborah M. Roth, Attorney-in-Fact

American Contracting Services, Inc.
340 E. Thompson Road
Indianapolis, IN 46227
(317) 780-1919

Lexon Insurance Company

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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.

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LEXON INSURANCE COMPANY



BY David E. Campbell
David E. Campbell
President

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AMY L. TAYLOR
Notary Public- State of Tennessee
Davidson County
Mv Commission Expires 01-09-16

BY Amy L. Taylor
Amy L. Taylor
Notary Public

CERTIFICATE

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Signed and Seal at Mount Juliet, Tennessee this 30 Day of Dec, 20 09.



BY Andrew Smith
Andrew Smith
Assistant Secretary

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FILED

FEB 25 2015

RIDER

OFFICE OF HAMILTON COUNTY SURVEYOR

TO BE ATTACHED TO AND FORM PART OF

HCDB-2015-00013

Subdivision Bond - General Form

NO. 1112653

(Bond Type)

(Bond Number)

IN FAVOR OF Hamilton County Board Of Commissioners

(Obligee)

ON BEHALF OF Paul Shoopman Home Building Group, Inc.

(Principal)

EFFECTIVE December 30, 2014

(Original Effective Date)

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(of) the attached bond FROM: Incorrect Obligee = Hamilton County Surveyor

TO: Correct Obligee = Hamilton County Board of Commissioners

REASON:

EFFECTIVE: December 30, 2014

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SIGNED, AND SEALED this 3rd day of February, 2015

PAUL SHOOPMAN HOME BUILDING GROUP, INC.

Principal

Lexon Insurance Company

Surety

Accepted By

Deborah M. Roth, Attorney-in-fact

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF

Long Branch Drain, Lakes at Towne Road III 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, Lakes at Towne Road III Arm** on **August 24, 2015** at **9:05 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, Lakes at Towne Road III Arm

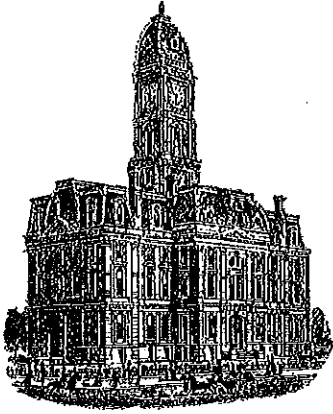
NOTICE

Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on **August 24, 2015** 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, CEM
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

February 9, 2016

Re: Long Branch – Lakes at Towne Road III

Attached are as-built, certificate of completion & compliance, and other information for Lakes at Towne Road III. 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 June 29, 2015. The report was approved by the Board at the hearing held August 24, 2015. (See Drainage Board Minutes Book 16, Pages 279-280)

The changes are as follows:

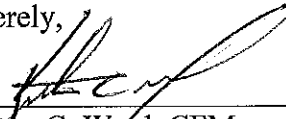
The 12" RCP was lengthened from 504 feet to 508 feet. The 15" RCP was lengthened from 385 feet to 400 feet. The 18" RCP was lengthened from 330 feet to 331 feet. The 24" RCP was lengthened from 415 feet to 416 feet. The 27" RCP was lengthened from 361 feet to 367 feet. The 6" SSD was lengthened from 4274 feet to 5075 feet. The length of the drain due to the changes described above is now **7,097 feet**.

The non-enforcement was approved by the Board at its meeting on August 24, 2015 and recorded under instrument #2016004439. The following sureties were guaranteed by Lexon Insurance Company and released by the Board on its February 8, 2016 meeting.

Bond-LC No: PB1112651 & 112652
Amount: \$133,063.20 & \$39,554.00
For: Storm Sewers & SSD
Issue Date: December 30, 2014

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

Sincerely,

A handwritten signature in black ink, appearing to read 'K. Ward', written over a horizontal line.

Kenton C. Ward, CFM
Hamilton County Surveyor




CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Lakes at Towne Road Section 3

I hereby certify that:

1. I am a registered Professional 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:  Date: 1/6/2016

Printed Name: Duane A. Sharrer

Business Address: Weihe Engineers, Inc.

10505 N College Avenue

Indianapolis, IN 46280

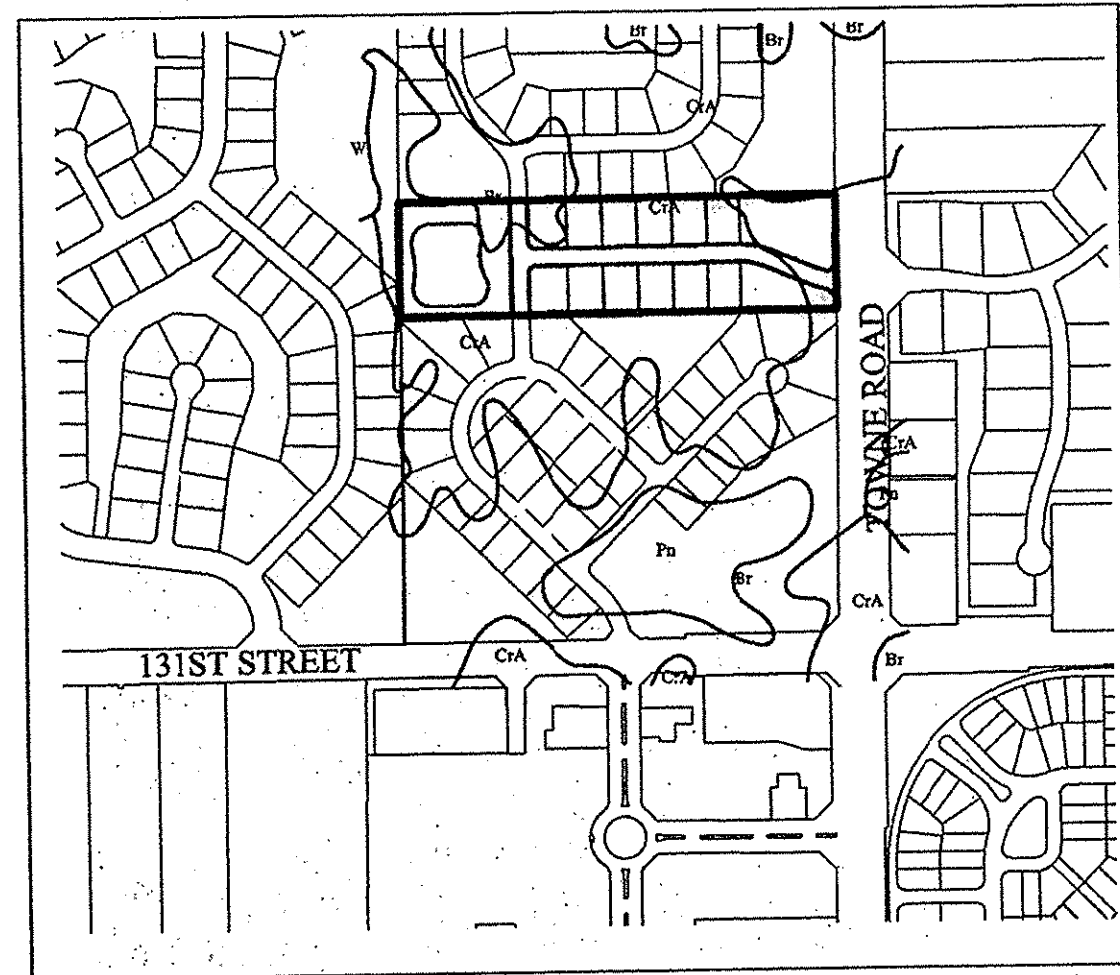
Telephone Number: (317) 846-6611

Indiana Registration Number: 890258

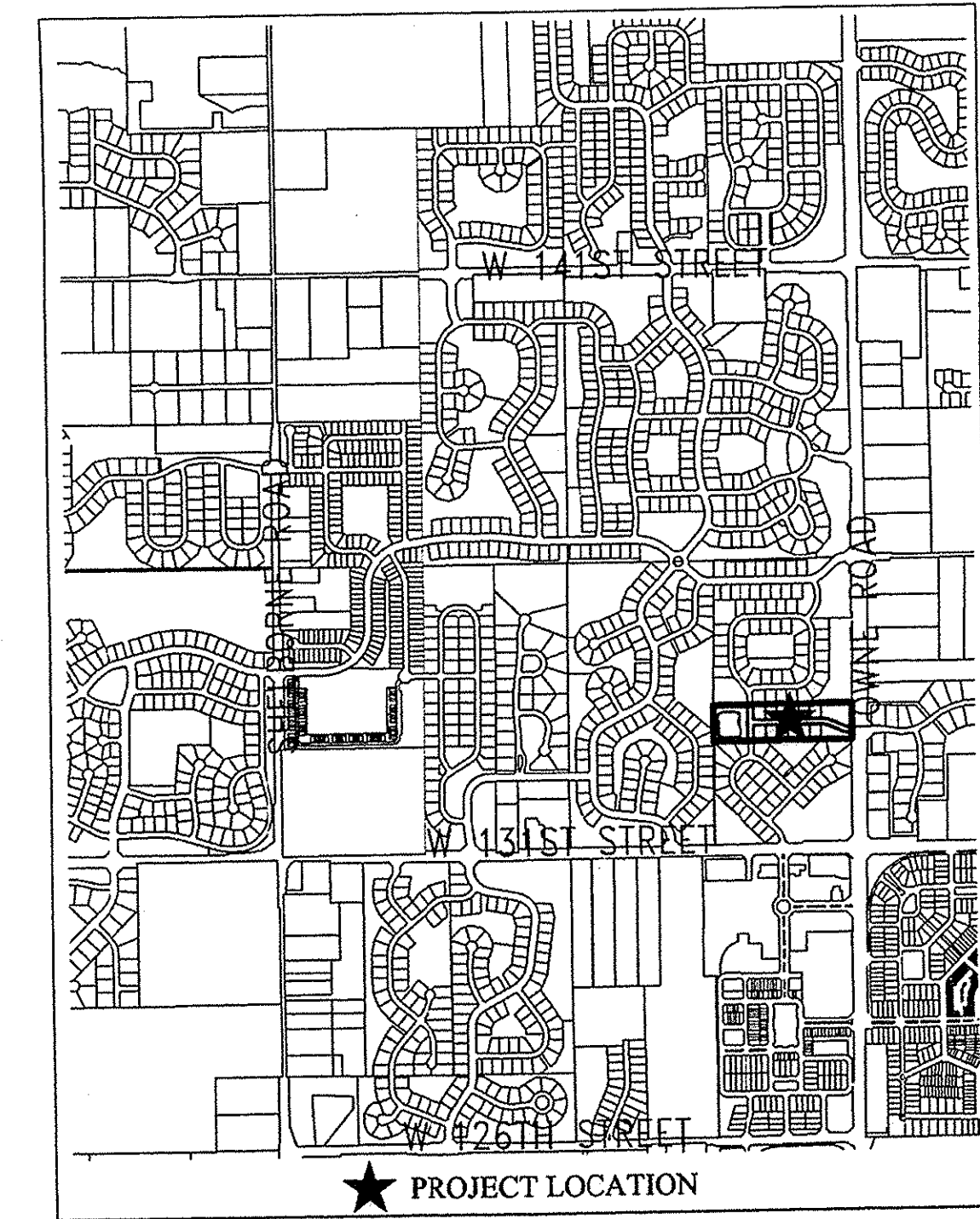


THE LAKES AT TOWNE ROAD III

131ST & TOWNE ROAD CARMEL, IN 46032



SOILS MAP

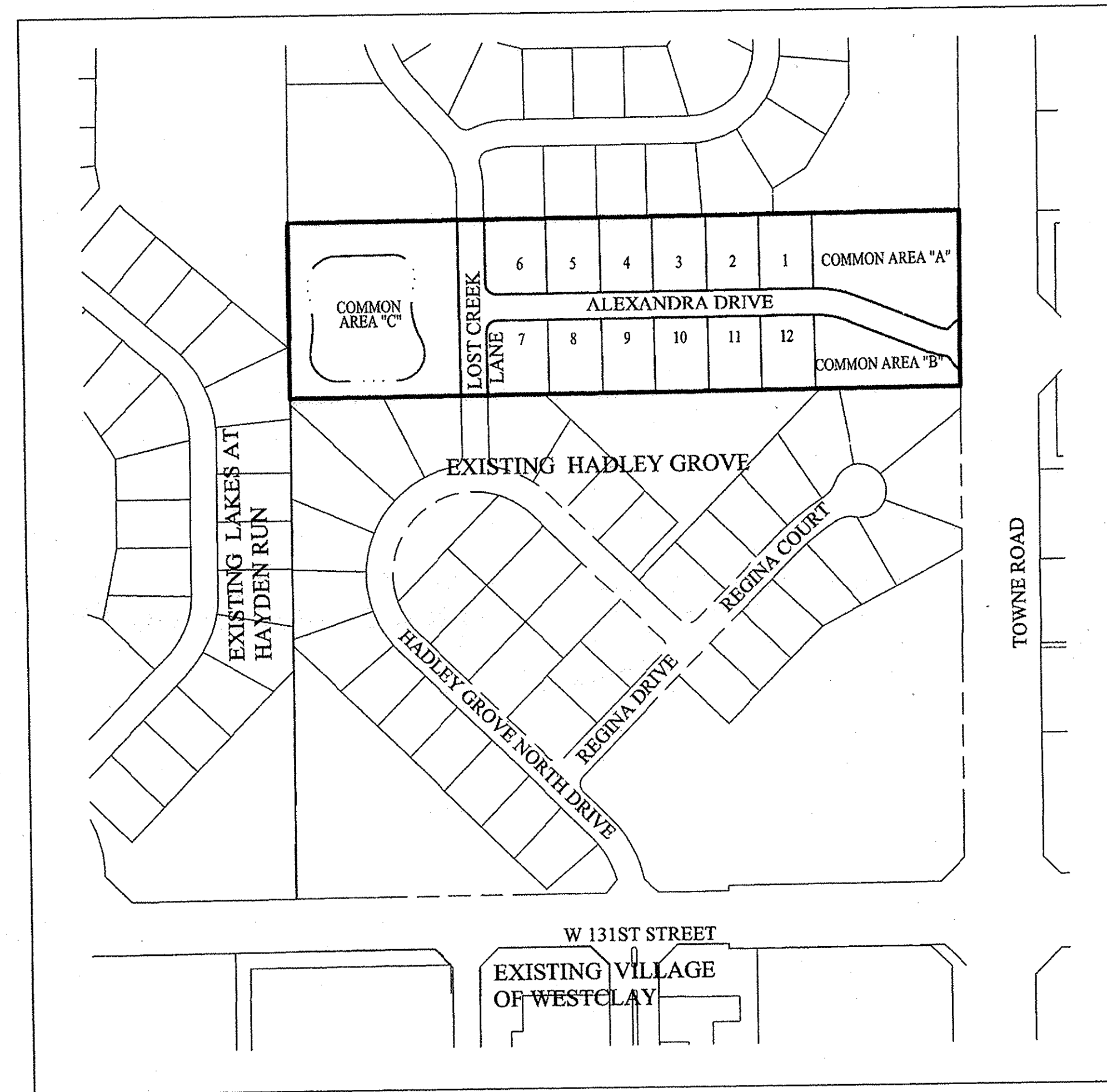


★ PROJECT LOCATION

AREA MAP

GENERAL NOTES

- 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.
- 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.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY AND COORDINATE CONSTRUCTION WITH ALL RESPECTIVE UTILITIES.
- ALL QUANTITIES GIVEN ON THESE PRINTS, VERBALLY OR IN THE SCOPE OF WORK SECTION ARE ESTIMATES AND SHALL BE CONFIRMED BY THE BIDDING CONTRACTORS.
- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29 C.F.R. PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
- IN ADDITION, EXCAVATION EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
- IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND CONTRACTOR TO MAINTAIN QUALITY CONTROL THROUGHOUT THIS PROJECT.
- TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL STANDARDS.
- THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
- ANY FIELD TILES ENCOUNTERED DURING EXCAVATION SHALL BE REPAIRED AND CONNECTED TO NEW STORM SEWERS AND POSITIVE DRAINAGE PRESERVED.
- IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER THAT ALL LANDSCAPE REQUIREMENTS ARE MET AND CONFORM TO APPLICABLE LOCAL STANDARDS.
- 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 #18057C0205F, DATED FEBRUARY 19, 2003. THEREFORE THERE ARE NO 100 YR. FLOODPLAINS, FLOODWAY FRINGES, OR FLOODWAYS ON THIS SITE.
- BEARINGS, DIMENSIONS AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS & PLAT FOR EXACT INFORMATION.
- THIS SITE DOES CONTAIN ANY WETLANDS AT SHOWN ON THE U.S. DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE, CARMEL, INDIANA, NATIONAL WETLANDS INVENTORY MAP DATED 1990.



SITE MAP

1"=200'

SHEET INDEX

SHEET NO.	DESCRIPTION
C001	TITLE SHEET
C400	SITE PREPARATION / DEMOLITION PLAN
C200	STORMWATER POLLUTION PREVENTION PLAN PHASE 1
C201	STORMWATER POLLUTION PREVENTION PLAN PHASE 2
C202-C204	STORMWATER POLLUTION PREVENTION DETAILS & SPECS
C300	DEVELOPMENT PLAN
C301	LOCAL FLOOD ROUTE PLAN
C400-C401	STREET PLAN & PROFILE
C402-C404	STREET DETAILS & SPECIFICATIONS
C405	STREET INTERSECTION DETAILS
C406	TRAFFIC MAINTENANCE PLAN
C407	TRAFFIC CONTROL PLAN
C500	SANITARY SEWER PLAN & PROFILE
C501	SANITARY SEWER DETAILS
C502	SANITARY SEWER SPECIFICATIONS
C600-C602	STORM SEWER PLAN & PROFILE
C603-C604	STORM SEWER DETAILS
C700	WATER MAIN PLAN
C701	WATER MAIN DETAILS AND SPECIFICATIONS

OPERATING AUTHORITIES

CITY OF CARMEL
ONE CIVIC SQUARE
CARMEL, IN 46032
ASSISTANT PLANNER: ANGIE CONN
317-571-2417
DEPT. OF ENGINEERING: GARY DUNCAN
317-571-2441

CITY OF CARMEL FIRE DEPARTMENT
TWO CIVIC SQUARE
CARMEL, INDIANA 46032
CHRIS ELLISON
317-571-2600

CLAY TOWNSHIP REGIONAL WASTE DISTRICT
10701 N. COLLEGE AVENUE, SUITE A
INDIANAPOLIS, IN 46280-1098
RYAN HARTMAN
317-844-9200

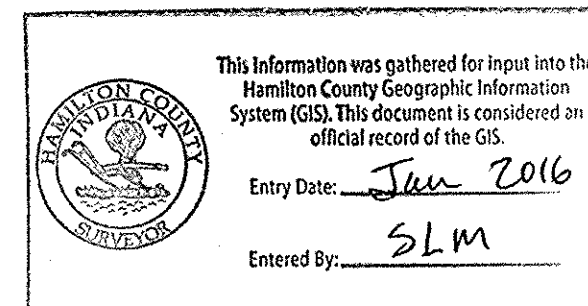
CARMEL CITY UTILITIES
760 3RD AVENUE S.W.
CARMEL, INDIANA 46032
JOHN DUFFY
317-571-2443

HAMILTON COUNTY SURVEYOR'S OFFICE
ONE HAMILTON SQUARE, SUITE 188
HAMILTON COUNTY JUDICIAL CENTER
NOBLESVILLE, INDIANA 46060
GREG HOYES
317-776-8495

BRIGHTHOUSE NETWORKS
3030 ROOSEVELT AVE
INDIANAPOLIS, IN 46218
JASON KIRKMAN
317-632-9077 EXT. 291

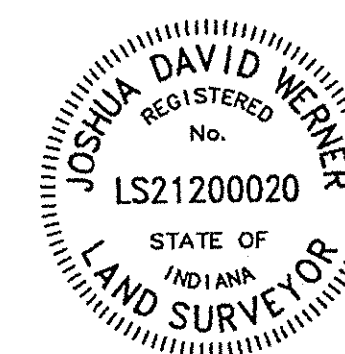
DUKE ENERGY
16475 SOUTHPOK DRIVE
WESTFIELD, INDIANA 46074
SHIRELY HUNTER
317-896-6711

VECTREN ENERGY
P.O. BOX 1700
NOBLESVILLE, INDIANA 46061-1700
JOANIE CLARK
317-776-5532



RECORD DRAWING
12/14/2015

JOSHUA DAVID WERNER, LS21200020



DESIGN DATA:
TOTAL ACREAGE - 9.571 ACRES
NUMBER LOTS - 12 LOTS
DENSITY - 1.25 LOTS/ACRE

STREET LENGTH:
ALEXANDRA DRIVE 960.03'
LOST CREEK LANE 329.98'
TOTAL LENGTH 1290.01'
SPEED LIMIT: 25 MPH

BENCHMARK INFORMATION

PROJECT BENCHMARK:
REFERENCE: D.N.R. STANDARD DISK (STAMPED "LEE 2 AZ") SET IN CONCRETE LOCATED AT THE S.E. CORNER OF THE INTERSECTION OF SHELBORNE ROAD AND 131ST STREET, 26.1 FT. EAST OF THE CENTERLINE OF SHELBORNE ROAD AND 20.3 FT. SOUTH OF THE CENTERLINE OF 131ST STREET. (NAVD 1988 DATUM)
ELEV. = 860.38

PLANS PREPARED FOR

THE PAUL SHOOPMAN HOME BUILDING GROUP
11731 COLD CREEK COURT
ZIONSVILLE, IN 46077
TELEPHONE: (317)714-2406
CONTACT PERSON: PAUL SHOOPMAN

PLANS PREPARED BY

WEIHE ENGINEERS, INC.
10505 N. COLLEGE AVE.
INDIANAPOLIS, IN 46280
(317) 846-6611 PHONE
(317) 843-0546 FAX
CONTACT PERSON: JAMES SHIELDS



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

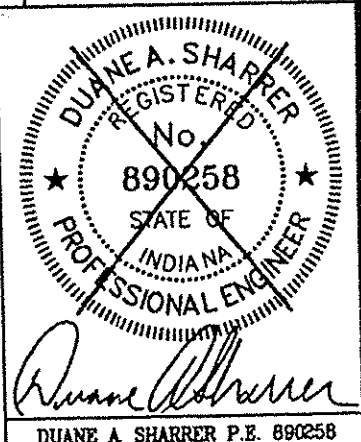
RECORD DRAWINGS - CONSTRUCTION PLANS - DATED 04/15/2015

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.:	14
DWG. NAME:	AS SHOWN THIS SHEET
DESIGNED BY:	EEF
DRAWN BY:	EEF
CHECKED BY:	JES
DATE:	11-14-2013

REVISIONS AND ISSUES



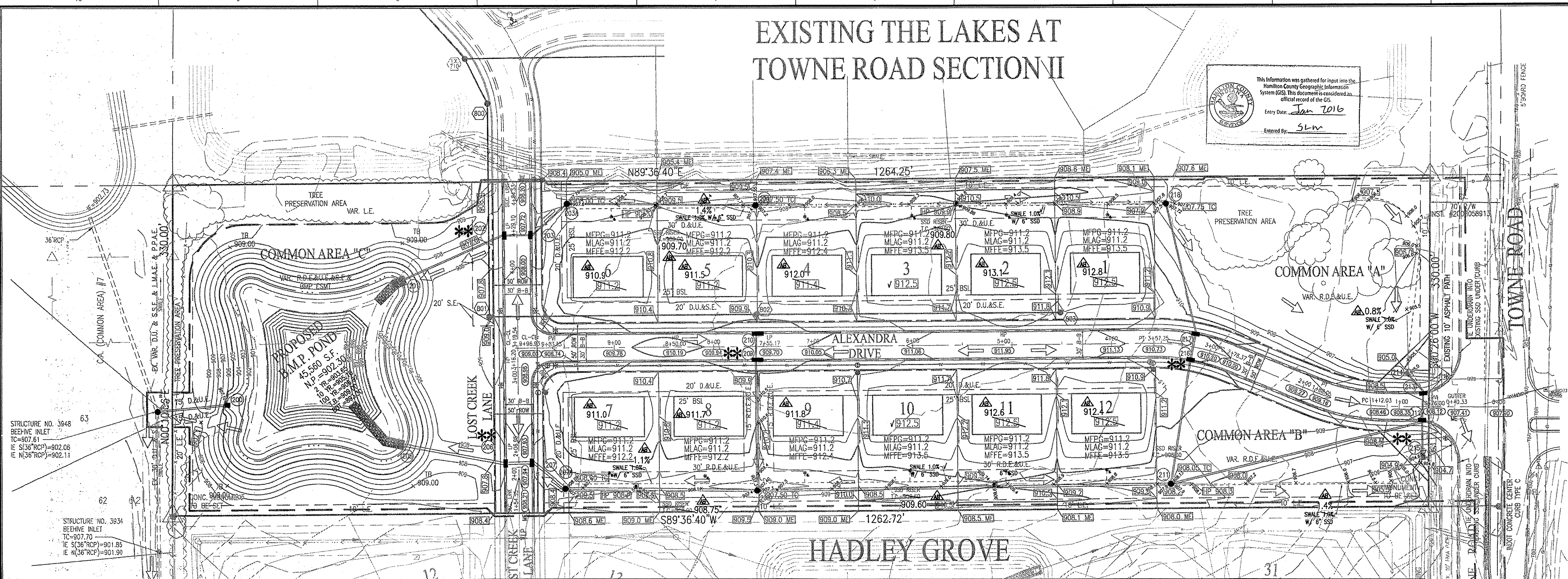
DUANE A. SHOOPMAN P.E. 890258

PREPARED FOR:
THE LAKES AT TOWNE ROAD III
THE PAUL SHOOPMAN HOME BUILDING GROUP
TITLE SHEET
Part of the 14 of 15 sheets.

SHEET NO.
C001
PROJECT NO.
W12.0014

EXISTING THE LAKES AT TOWNE ROAD SECTION II

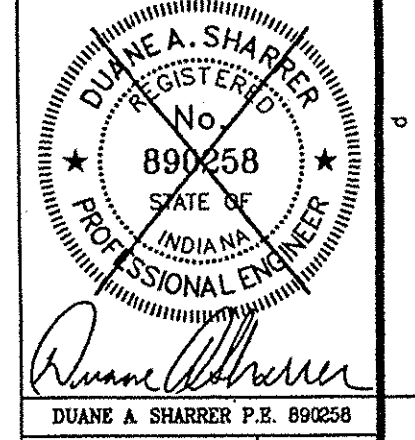
This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is not an official record of the GIS.
 Entry Date: Jan 2016
 Entered By: SLW



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

WEHBE ENGINEERS
 Land Surveying | Civil Engineering
 Landscape Architecture

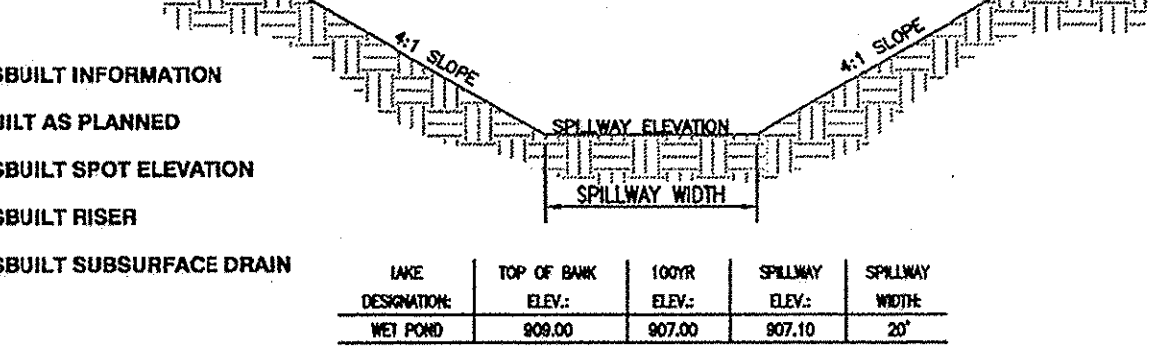
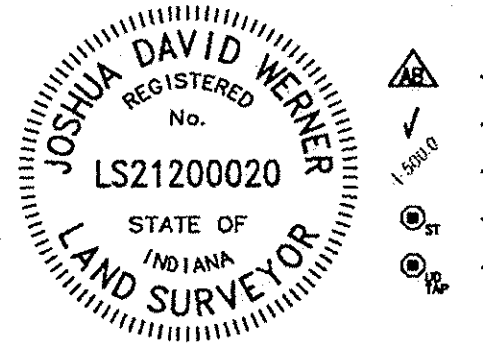
PROJECT NO.: W12.0014
 DWG NAME: AS-BUILTS
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 DATE: 11.14.2013



THE LAKES AT TOWNE ROAD III
 THE PAUL SHOOPMAN HOME BUILDING GROUP
 DEVELOPMENT PLAN
 PROJECT NO. W12.0014

RECORD DRAWING

DEVELOPMENT PLAN AS-BUILTS
 PADS & SWALES ONLY
 12/14/2015



STRUCTURE NUMBER	STRUCTURE TYPE	TOP OF CASTING	CASTING TYPE	INVERT
200	OUTLET CONTROL	907.60, 907.10	CUSTOM GRATE	INV OUT = 902.90(W) 902.48
201	CONCRETE END SECTION	N/A	N/A	INV IN = 902.90(N/E) 902.45
202	INLET TYPE 1	907.73, 907.55	NEENAH R-3501-TR	INV IN = 902.72(E) 902.86 INV OUT = 902.62(SW) 902.80
203	INLET TYPE 1	907.73, 907.77	NEENAH R-3501-TL	INV IN = 902.96(N/E) 902.95 INV OUT = 902.66(W) 902.95
203A	INLET TYPE A	906.60, 907.79	NEENAH R-4342	INV IN = 903.28(E) 903.16 INV OUT = 903.48(SW) 903.16
204	INLET TYPE A	907.50, 907.55	NEENAH R-4342	INV OUT = 904.05(W) 904.19
205	CONCRETE END SECTION	N/A	N/A	INV IN = 902.90(E) 902.41
206	INLET TYPE A	907.95, 907.98	NEENAH R-3501-TL	INV IN = 902.56(E) 902.76 INV OUT = 902.46(W) 902.76
207	INLET TYPE A	907.95, 907.90	NEENAH R-3501-TR	INV IN = 902.70(SE) 902.79 INV OUT = 902.60(W) 902.79
207A	INLET TYPE A	906.60, 908.09	NEENAH R-4342	INV IN = 902.68(E) 902.86 INV OUT = 902.72(NW) 902.86
208	INLET TYPE A	907.50, 907.40	NEENAH R-4342	INV IN = 903.25(E) 903.29 INV IN = 903.25(N) 903.39 INV OUT = 903.45(W) 903.29
209	INLET TYPE 1	909.72, 909.78	NEENAH R-3501-TR	INV IN = 905.04(N) 906.20 INV OUT = 905.84(S) 905.93
210	INLET TYPE 1	909.72	NEENAH R-3501-TL	INV OUT = 906.42(S) 906.35
211	INLET TYPE 1A	906.60, 908.13	NEENAH R-4342	INV IN = 903.92(E) 903.83 INV IN = 903.92(N) 903.90 INV OUT = 903.82(W) 903.83
212	MANHOLE	906.45, 908.13	NEENAH R-3501-TL	INV IN = 904.69(N) 904.60 INV IN = 904.69(S) 904.30 INV OUT = 904.69(W) 904.60
213	INLET TYPE A	906.45, 908.22	NEENAH R-3501-TR	INV IN = 904.68(NW) 904.89 INV OUT = 904.78(S) 904.80
214	CONCRETE END SECTION	N/A	N/A	INV OUT = 904.80(N) 904.82
215	CONCRETE END SECTION	N/A	N/A	INV IN = 904.42(N) 904.32 INV OUT = 904.32(S) 904.19
216	INLET TYPE 1	910.38, 910.45	NEENAH R-3501-TL	INV IN = 904.61(N) 904.44 INV OUT = 904.61(S) 904.44
217	INLET TYPE 1	910.38, 910.38	NEENAH R-3501-TR	INV IN = 904.61(N) 904.44 INV OUT = 904.61(S) 904.44
218	INLET TYPE A	907.75, 907.72	NEENAH R-4342	INV OUT = 906.42(S) 905.05

DOWNSTREAM STRUCTURE	UPSTREAM STRUCTURE	SIZE	MATERIAL	LENGTH	SLOPE
201	202	15"	RCP	76' 114"	0.34% - 0.31%
202	203	12"	RCP	36' 30"	0.26% - 0.30%
203	203A	12"	RCP	46' 47"	0.59% - 0.45%
203A	204	12"	RCP	79' 190"	0.49% - 0.54%
205	206	27"	RCP	96' 102"	0.16% - 0.34%
206	207	27"	RCP	38' 31"	0.14% - 0.10%
207	207A	27"	RCP	44' 41"	0.14% - 0.17%
207A	208	27"	RCP	79' 193"	0.16% - 0.17%
208	209	15"	RCP	126' 132"	2.96% - 1.92%
208	211	24"	RCP	74' 6' 416"	0.15% - 0.13%
209	210	12"	RCP	28' 30"	0.64% - 0.50%
211	216	15"	RCP	724' 124"	0.28% - 0.23%
211	212	18"	RCP	260' 260"	0.24% - 0.18%
212	215	12"	RCP	24' 31"	0.46% - 0.71%
212	213	12"	RCP	28' 30"	0.39% - 0.37%
212		12"	RCP	8'	0.00%
213	214	12"	RCP	24' 20"	0.92% - 1.05%
216	217	15"	RCP	28' 30"	0.32% - 0.40%
217	218	12"	RCP	75' 130"	0.34% - 0.47%
3948	200	18"	RCP	76' 71"	0.29% - 0.18%

** DENOTES SNOUT GUARDS W/ SUMP STRUCTURES

OVERALL ALLOWABLE	PEAK DISCHARGE (CFS)	
	REQUIRED VOLUME RELEASE	ACTUAL BASIN RELEASE
WATERSHED	BMP POND	BMP POND
0-10 YR. = 0.85	10.63 ACRES	10.63 ACRES
11-100 YR. = 1.58	10 YR. = 0.59	10 YR. = 0.59
REQUIRED STORAGE	100 YR. = 1.40	100 YR. = 2.32
	3.78 AC-FT	
ORIFICE	4" 4.8"	6" ORIFICE

GENERAL NOTES:

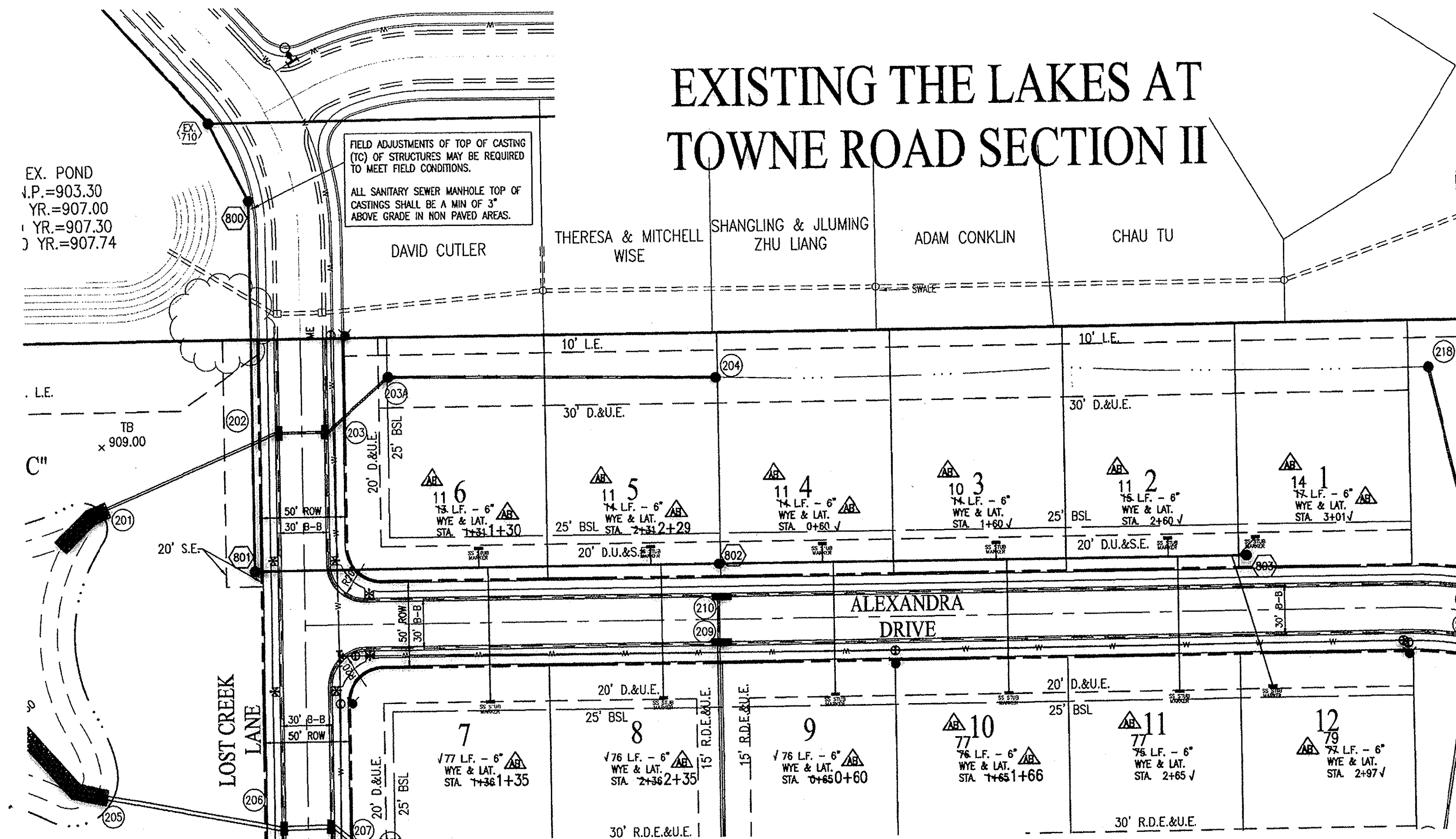
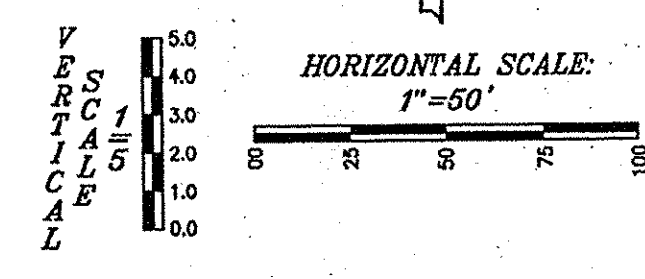
- ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES.
- EXISTING UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL UTILITY LOCATIONS PRIOR TO MAJOR EARTHWORK.
- BUILDING PAD AREAS AND STREETS DESIGNATED FOR FILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY, OR 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, OWNER'S 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 CUT/FILL 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 COMING 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 TWO (2) FEET ABOVE REGIONAL FLOOD ELEVATIONS OR ONE (1) FOOT ABOVE ANY ADJACENT 100-YEAR FLOOD, 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 BASEMENT WALKOUT, PATIOS, DECKS, PORCHES, STRUCTURE POSTS, 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 CURB 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 GRANTY 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 12" ABOVE THE PAD ELEVATION.
- DO NOT STAKE HOMES FROM THESE PLANS, SEE PLOT PLANS FOR DETAILS OF HOMES AND DIMENSIONS.
- STANDARD BARRICADE TYPE 'N' IS TO BE PLACED AT ALL STUB STREET.
- ALL SANITARY 48" MANHOLES 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.
- ALL PAVEMENT MARKINGS TO BE THERMOPLASTIC.

[Symbol]	RIGHT-OF-WAY LINE
[Symbol]	STORM SEWER LINE
[Symbol]	SWALE
[Symbol]	SANITARY SEWER LINE
[Symbol]	SANITARY SEWER MANHOLE
[Symbol]	SANITARY SEWER LATERAL
[Symbol]	FLOW DIRECTION
[Symbol]	EXISTING SPOT ELEVATION
[Symbol]	EXISTING CONTOURS
[Symbol]	PROPOSED ELEVATION
[Symbol]	STORM BEHIVE INLET
[Symbol]	TOP OF CASTING
[Symbol]	INVERT
[Symbol]	REINFORCED CONCRETE PIPE
[Symbol]	MANHOLE
[Symbol]	STRUCTURE
[Symbol]	DRAINAGE AND UTILITY EASEMENT
[Symbol]	SANITARY, DRAINAGE, AND UTILITY EASEMENT
[Symbol]	SANITARY SEWER EASEMENT
[Symbol]	SANITARY SEWER HANDICAP RAMP
[Symbol]	MATCH EXISTING GRADE
[Symbol]	SUBSURFACE DRAIN AND SUMP LINE
[Symbol]	STORM SEWER
[Symbol]	GRANULAR BACKFILL
[Symbol]	CONCRETE END SECTION
[Symbol]	SUBSURFACE DRAIN
[Symbol]	SANITARY SEWER PIPE (SOR-35)
[Symbol]	S.S.P.
[Symbol]	(UNLESS OTHERWISE NOTED)
[Symbol]	TYPICAL
[Symbol]	PROPOSED
[Symbol]	EX.
[Symbol]	R.
[Symbol]	860.4
[Symbol]	PAD ELEV
[Symbol]	EMERGENCY FLOW ROUTE
[Symbol]	V.V.
[Symbol]	LOOK OUT LOT
[Symbol]	WALKOUT
[Symbol]	REGULATED DRAIN EASEMENT
[Symbol]	CURB RAMP
[Symbol]	M.F.F.E.
[Symbol]	MINIMUM FINISHED FLOOR ELEVATION CONSTRUCTION LIMITS

RECORD DRAWINGS - CONSTRUCTION PLANS - DATED 04/15/2015

SANITARY SEWER PLAN AND PROFILE

- NOTES:**
- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS, FINAL RULE 29 CFR PART 1926, SUBPART "F" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
 - IN ADDITION, EXCAVATIONS EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
 - ALL STRUCTURES SHALL HAVE CASTINGS, JOINTS, LIFT RINGS, STEPS AND PIPE CONNECTIONS WELL GROUTED, TROWELED SMOOTH AND BRUSH FINISHED.
 - ALL STRUCTURES (IE: MANHOLES, INLETS) SHALL HAVE POURED FLOW LINES AND BENCH MARKS; THE FLOW LINES AND BENCHMARKS SHALL BE TROWELED SMOOTH AND BRUSH FINISHED.
 - FIELD ADJUSTMENTS OF TOP OF CASTING (TC) OF STRUCTURES MAY BE REQUIRED TO MEET FIELD CONDITIONS. ADJUSTMENTS EXCEEDING FIVE TENTHS (0.5) OF A FOOT MUST BE APPROVED BY THE ENGINEER TO DETERMINE THE INTEGRITY OF THE STRUCTURE. AT NO COST TO THE OWNER.
 - THE CONTRACTOR WILL BE REQUIRED TO PROVIDE AS-BUILT DRAWINGS TO THE ACCEPTING AGENCY TO CARRY THE ELEVATION AND SLOPE OF SANITARY SEWERS. SEWERS INSTALLED AT A GRADE LESS THAN REQUIRED BY THE AGENCY WILL NOT BE ACCEPTED. THE CONTRACTOR SHALL PROVIDE FOR PERIODIC AS-BUILT CHECKS ON THE SEWER DURING CONSTRUCTION TO ASSURE THAT DESIGN GRADE IS BEING MAINTAINED.
 - CONTRACTOR SHALL VERIFY LOCATION AND INVERT ELEVATIONS OF EXISTING SANITARY SEWER PRIOR TO START OF CONSTRUCTION.
 - ALL SANITARY MANHOLE CASTINGS SHALL BE: MEEHAW R-1642A OR ENGINEERED EQUIV. WITH CONCRETE PEX HOLES.
 - FULL DEPTH GRANULAR BACKFILL SHALL BE REQUIRED UNDER AND WITHIN FIVE (5) FEET OF ALL PAVED AREAS, INCLUDE CURBS, EDGE OF PAVEMENT, AND SIDEWALKS.
 - SEE SHEET C501 & 502 FOR SANITARY SEWER SPECIFICATIONS AND DETAILS.
 - ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
 - ALL MANHOLE TO PIPE CONNECTIONS, INCLUDING LATERALS, SHALL BE A-LOCK, DURA SEAL OR APPROVED EQUAL PRESS-SEAL. KOR-N-SEAL, AND OTHER FLEXIBLE BOOTS SHALL NOT BE USED IN MANHOLES WITH INVERTS DEEPER THAN 14 FEET.
 - CLEAN OUTS ALONG SANITARY LATERALS SHALL BE AT A DISTANCE NO GREATER THAN 100 FEET APART.
 - ALL SANITARY SEWER MANHOLE TOP OF CASTINGS SHALL BE A MIN OF 3" ABOVE GRADE IN NON PAVED AREAS.
 - ALL LATERALS SHALL BE INSTALLED WITH A "TRACER WIRE" ON THE TOP OF THE PIPE THE ENTIRE LENGTH FROM THE SEWER LINE TO THE CLEANOUT.



EXISTING THE LAKES AT TOWNE ROAD SECTION II

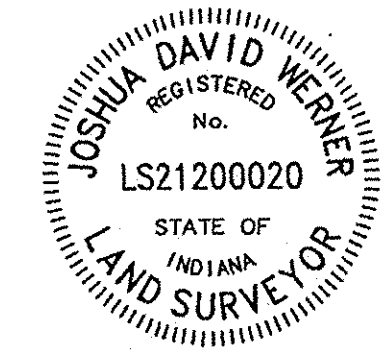
CITY OF CARMEL COVER AND BACKFILL POLICY;
 9-8-06
 WATER AND SEWER UNDER PAVEMENT, SIDEWALK, PAVED AREAS AND WITHIN RIGHT-OF-WAY
 BEDDING, HAUNCHING, INITIAL BACKFILL
 BEDDING, HAUNCHING AND INITIAL BACKFILL REQUIREMENTS AND COMPACTION FOR WATER MAINS, WATER SERVICE LATERALS, SANITARY MAINS AND SANITARY SERVICE LATERALS UNDER AND WITHIN 5- FEET OF PAVEMENT OR SIDEWALK OR OTHER PAVED AREAS AND FOR ALL INSTALLATIONS WITHIN CITY RIGHT-OF-WAY 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 8- INCH B-SUBBROW 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 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
 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.
 PER STATE RULE 327 IAC 3-6-9, SANITARY SEWERS SHALL NOT BE LOCATED WITHIN TEN (10) FEET OF ANY EXISTING OR PROPOSED WATER MAINS, WHEN MEASURED HORIZONTALLY FROM THE OUTSIDE EDGE OF THE SANITARY SEWER TO THE OUTSIDE EDGE OF ANY EXISTING AND PROPOSED WATER MAINS

BENCHMARK INFORMATION

PROJECT BENCHMARK:
 REFERENCE: D.N.R. STANDARD DISK (STAMPED "LEE 2 4") SET IN CONCRETE LOCATED AT THE S.E. CORNER OF THE INTERSECTION OF SHELBORNE ROAD AND 131ST STREET, 26.1 FT. EAST OF THE CENTERLINE OF SHELBORNE ROAD AND 20.3 FT. SOUTH OF THE CENTERLINE OF 131ST STREET. (NGVD 1988 DATUM)
 ELEV. = 860.38

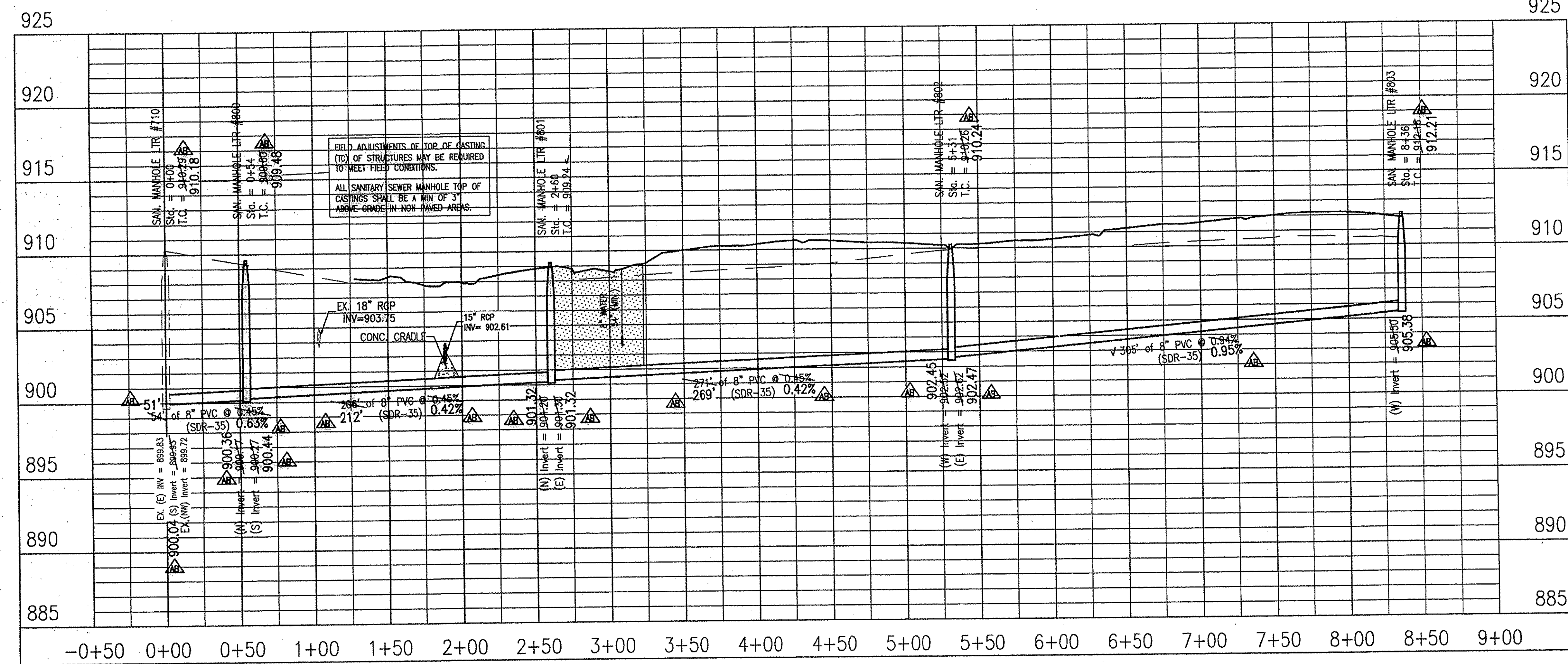
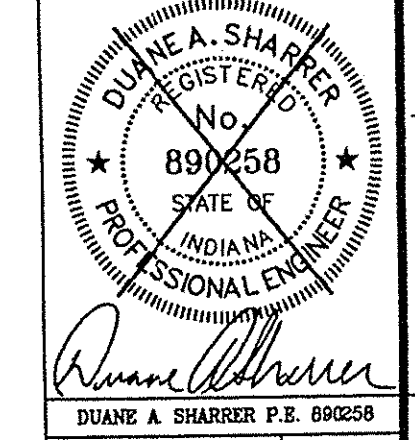
RECORD DRAWING
 SANITARY SEWER AS-BUILTS
 SANITARY SEWER STRUCTURES ONLY
 12/14/2015

JOSHUA DAVID WERNER, LS21200020



WEIHE ENGINEERS
 Land Surveying/Civil Engineering
 Landscape Architecture

PROJECT NO.	WT2.0014
DWG. NAME	AS-BUILT SANITARY SEWER
DESIGNED BY	CEP
DRAWN BY	RAE
CHECKED BY	JES
DATE	11.14.2013



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: Jan 2016
 Entered by: SLM

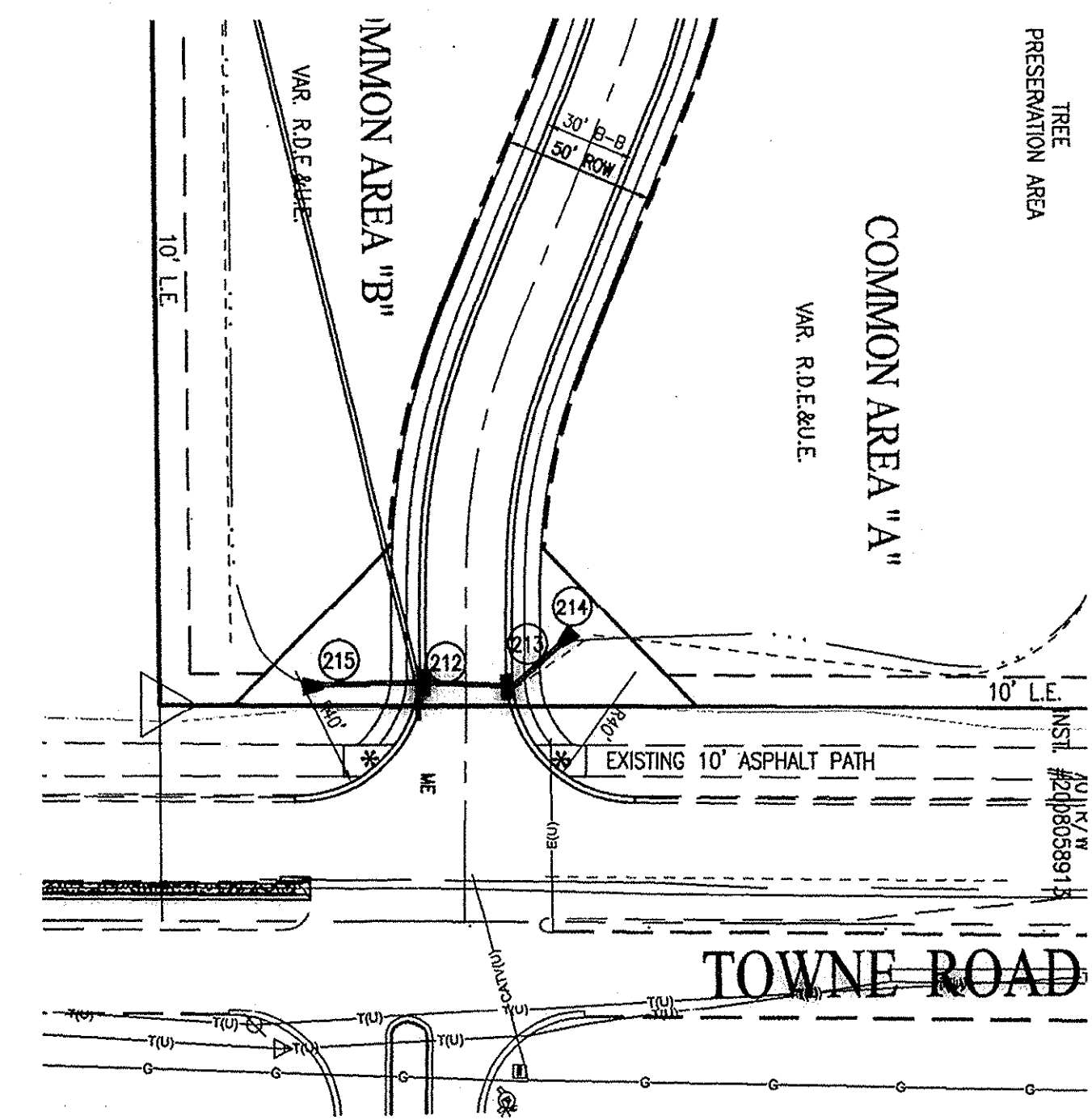
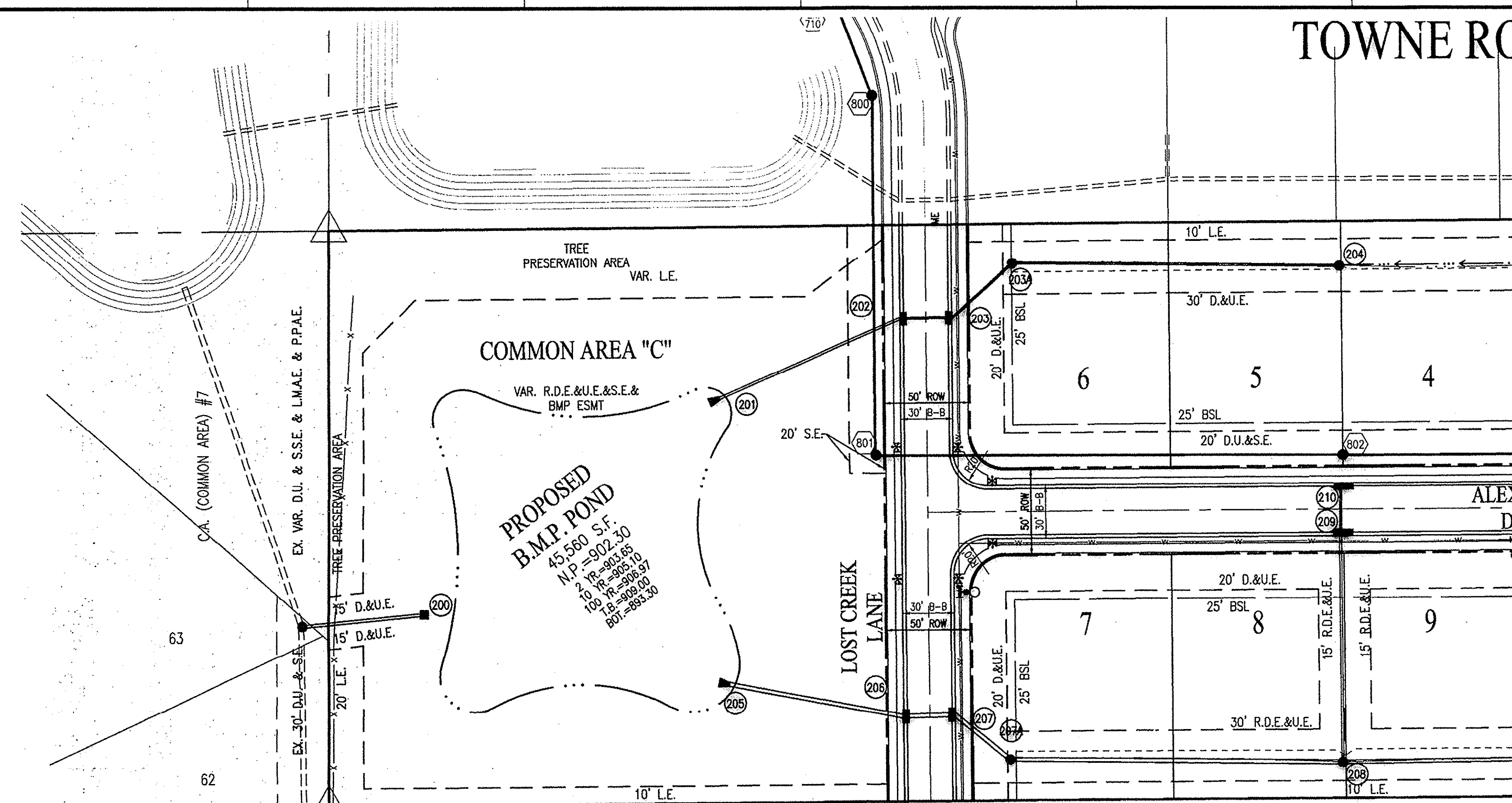
LEGEND

---	EXISTING GRADE
---	FINISHED GRADE
---	GRANULAR BACKFILL

THE LAKES AT TOWNE ROAD III
 THE PAUL SHOOPMAN HOME BUILDING GROUP
 SANITARY SEWER PLAN AND PROFILE SHEET

SHEET NO. **C500**
 PROJECT NO. W12.0014

TOWNE RC



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

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

FOR INSTALLATION OF STORM MAINS, 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.

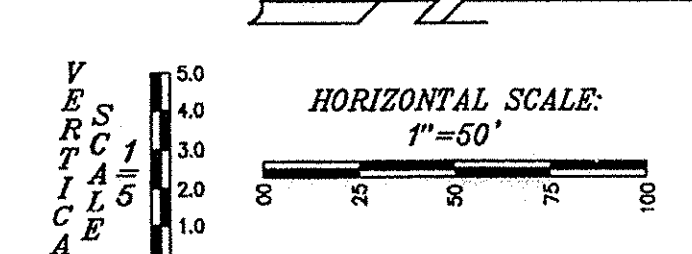
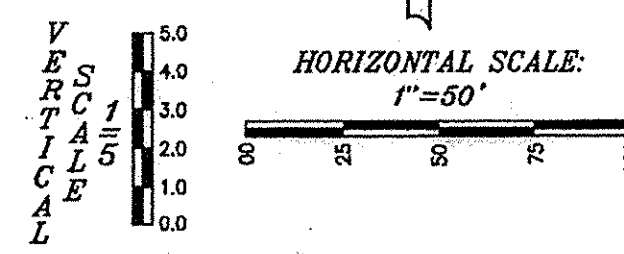
COVER HEIGHTS FOR REINFORCED CONCRETE PIPE STORM SEWER THAT ARE LESS THAN THOSE REQUIRED WILL BE EVALUATED ON A CASE BY CASE CONDITION AND APPROVED ONLY WITH WRITTEN PERMISSION BY THE CITY ENGINEER.

THE STORM SEWER SYSTEM SHALL BE CONSTRUCTED PER DESIGN SPECIFIED AND AS APPROVED BY THE CITY OF CARMEL IN 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.

STORM SEWER PLAN AND PROFILE NOTES:

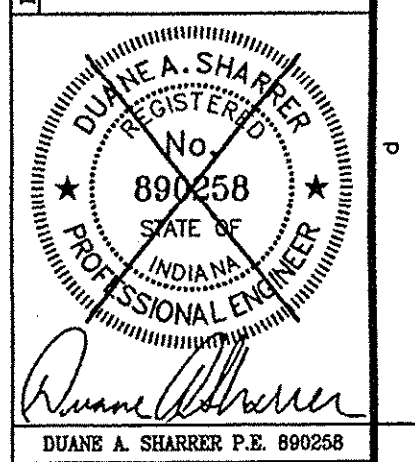
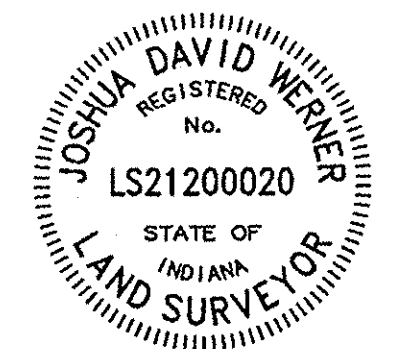
FULL DEPTH GRANULAR BACKFILL SHALL BE PER DETAIL 10-28 ON SHEET C603. REFER TO DETAIL 10-28, SHEET C603, FOR TRENCHING, BACKFILL AND COVER REQUIREMENTS. PIPES LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND DOES NOT INCLUDE END SECTIONS.

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.

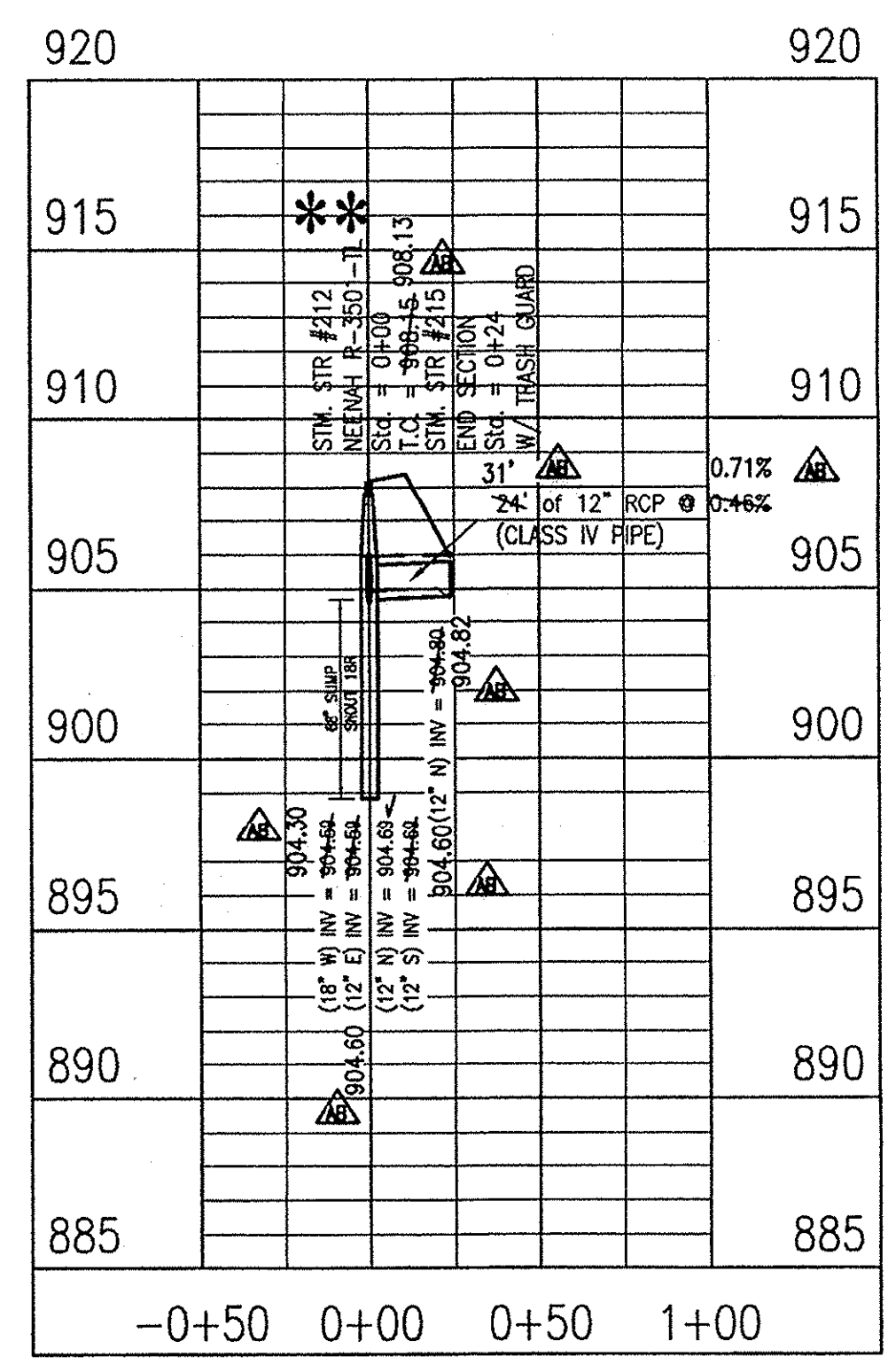
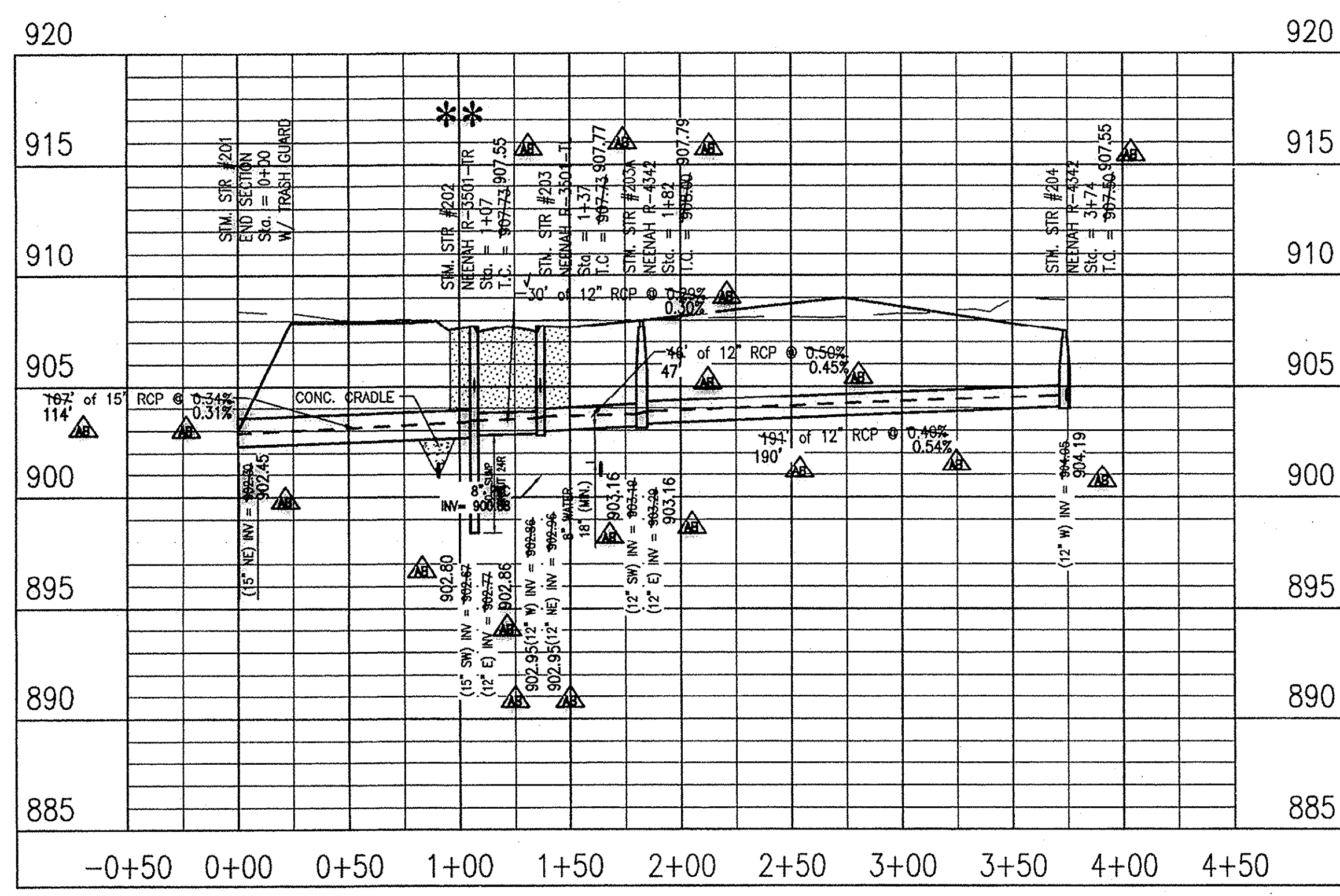
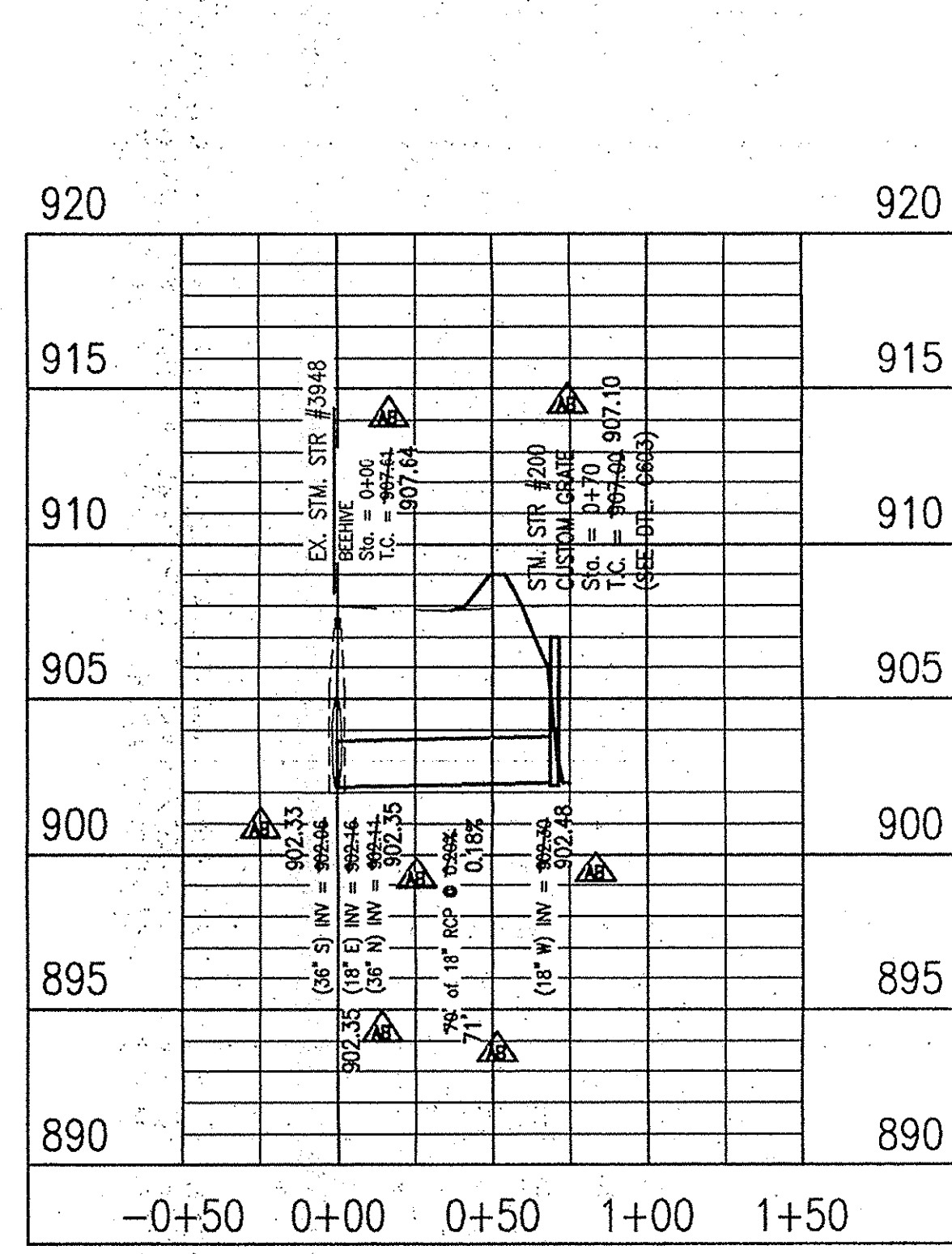


RECORD DRAWING
 STORM SEWER AS-BUILTS
 STORM SEWER STRUCTURES ONLY
 12/08/2015

JOSHUA DAVID WERNER, LS21200020

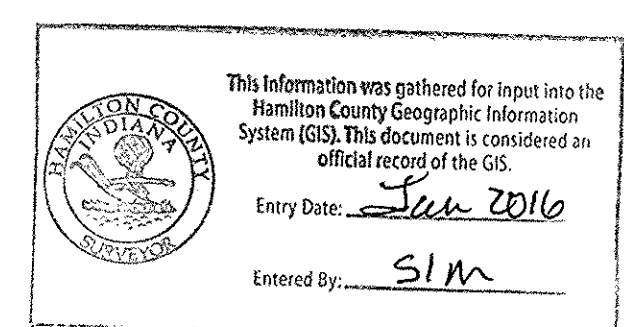


** DENOTES SNOOT GUARD TO BE INSTALLED (SEE DTL C202)



LEGEND

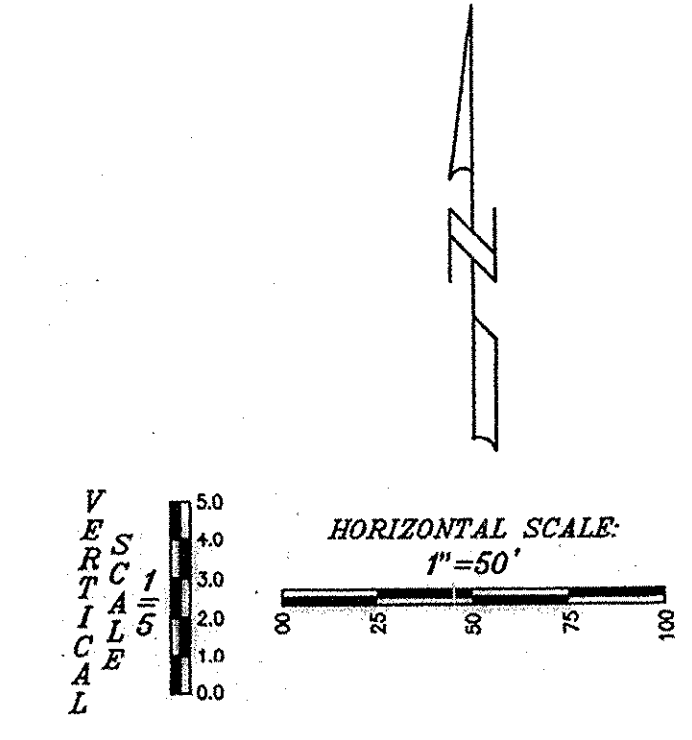
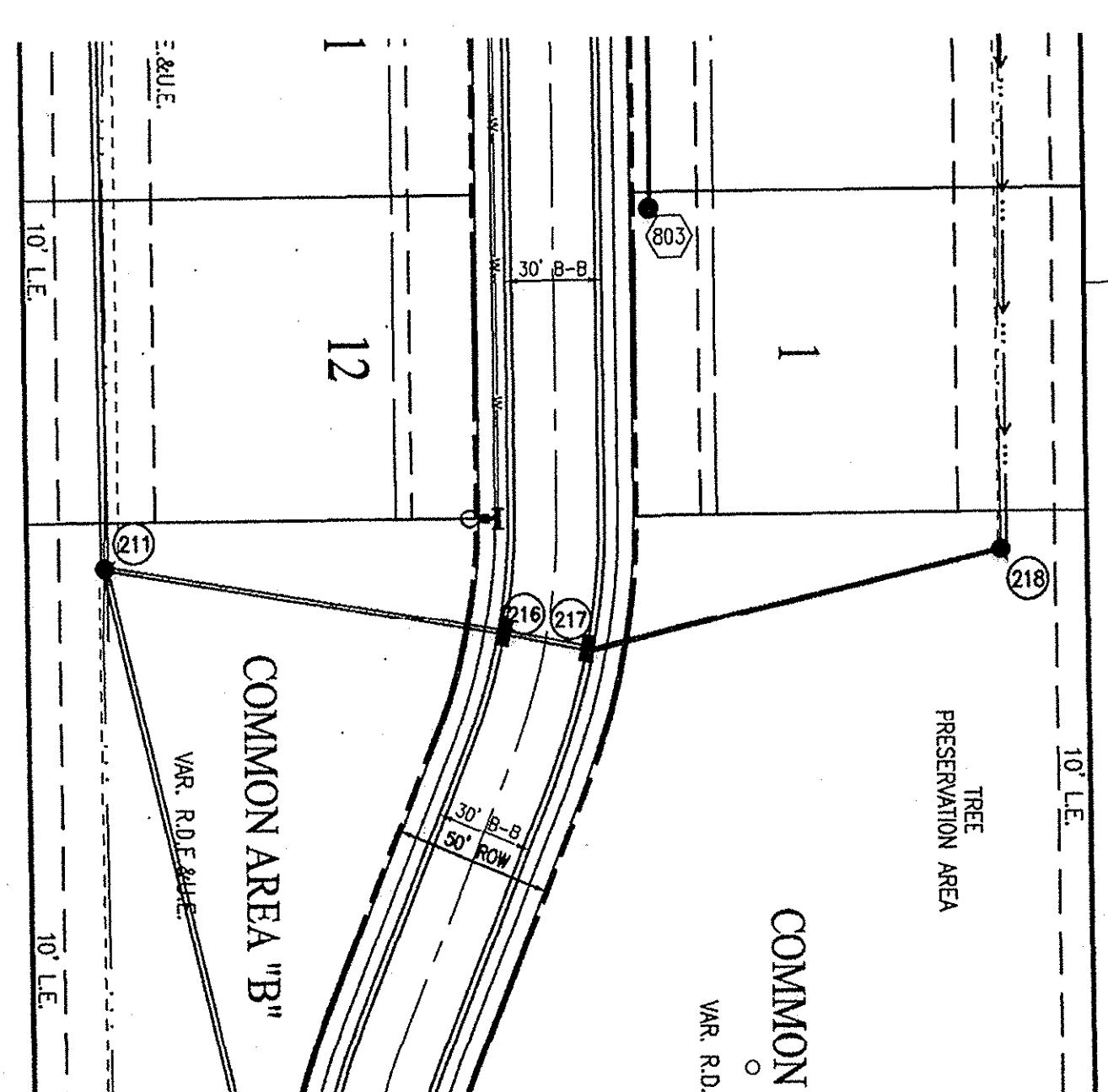
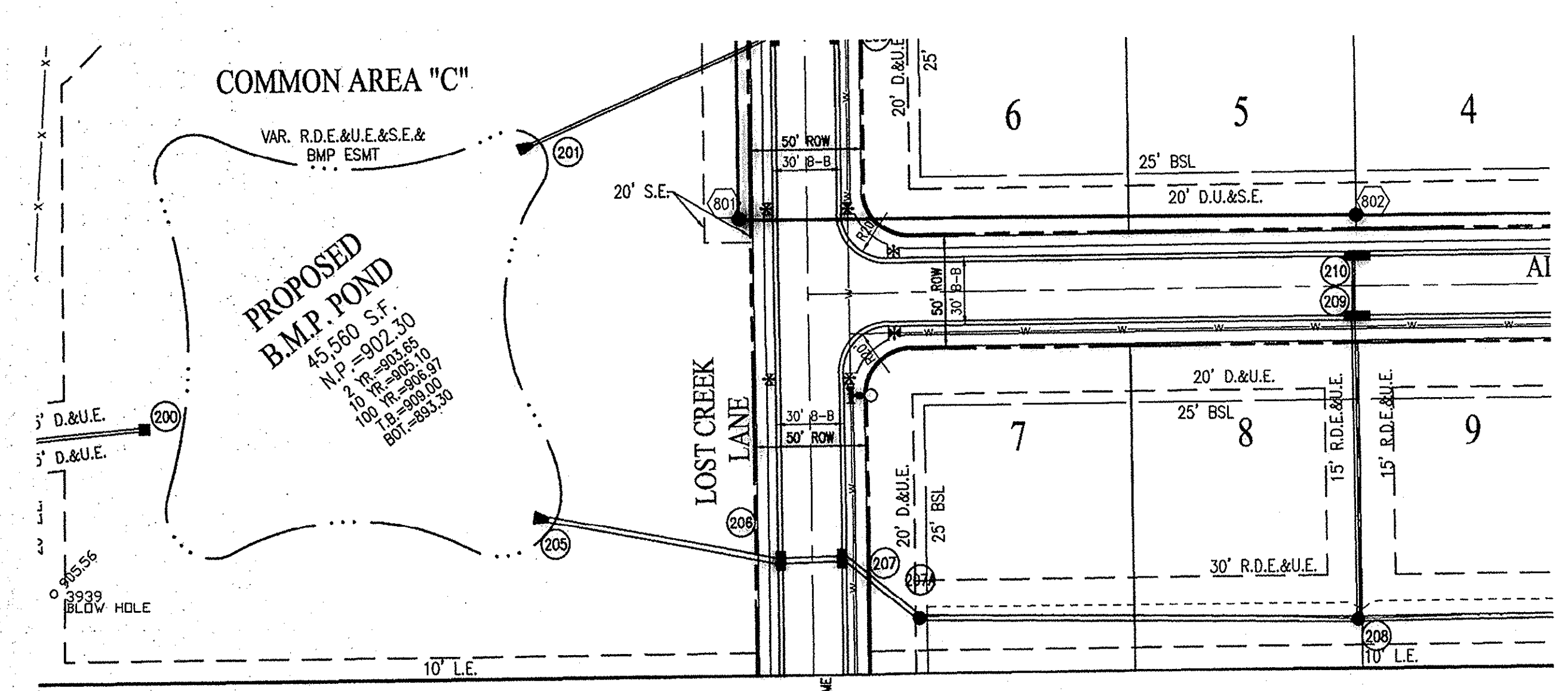
- EXISTING GRADE
- FINISHED GRADE
- HYDRAULIC GRADE LINE
- GRANULAR BACKFILL



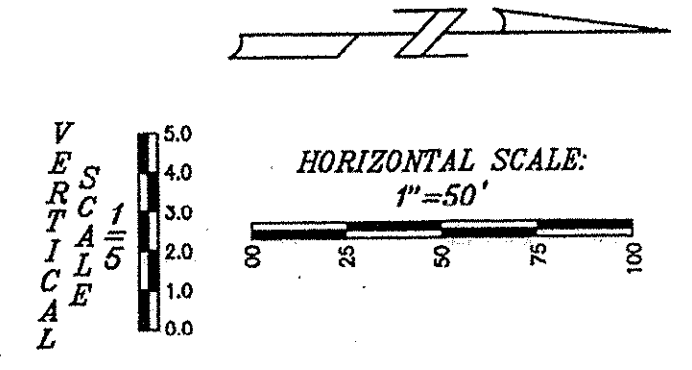
PREPARED FOR:
THE LAKES AT TOWNE ROAD III
 THE PAUL SHOOPMAN HOME BUILDING GROUP
 STORM SEWER PLAN AND PROFILE SHEET

SHEET NO.
C600
 PROJECT NO.
 W12.0014

C:\Users\jdwerner\Documents\Projects\W12\Storm\Drawings\W12_0014.dwg
 DATE PLOTTED: 12/08/2015 10:46 AM
 PLOTTER: HP DesignJet 5000 Series

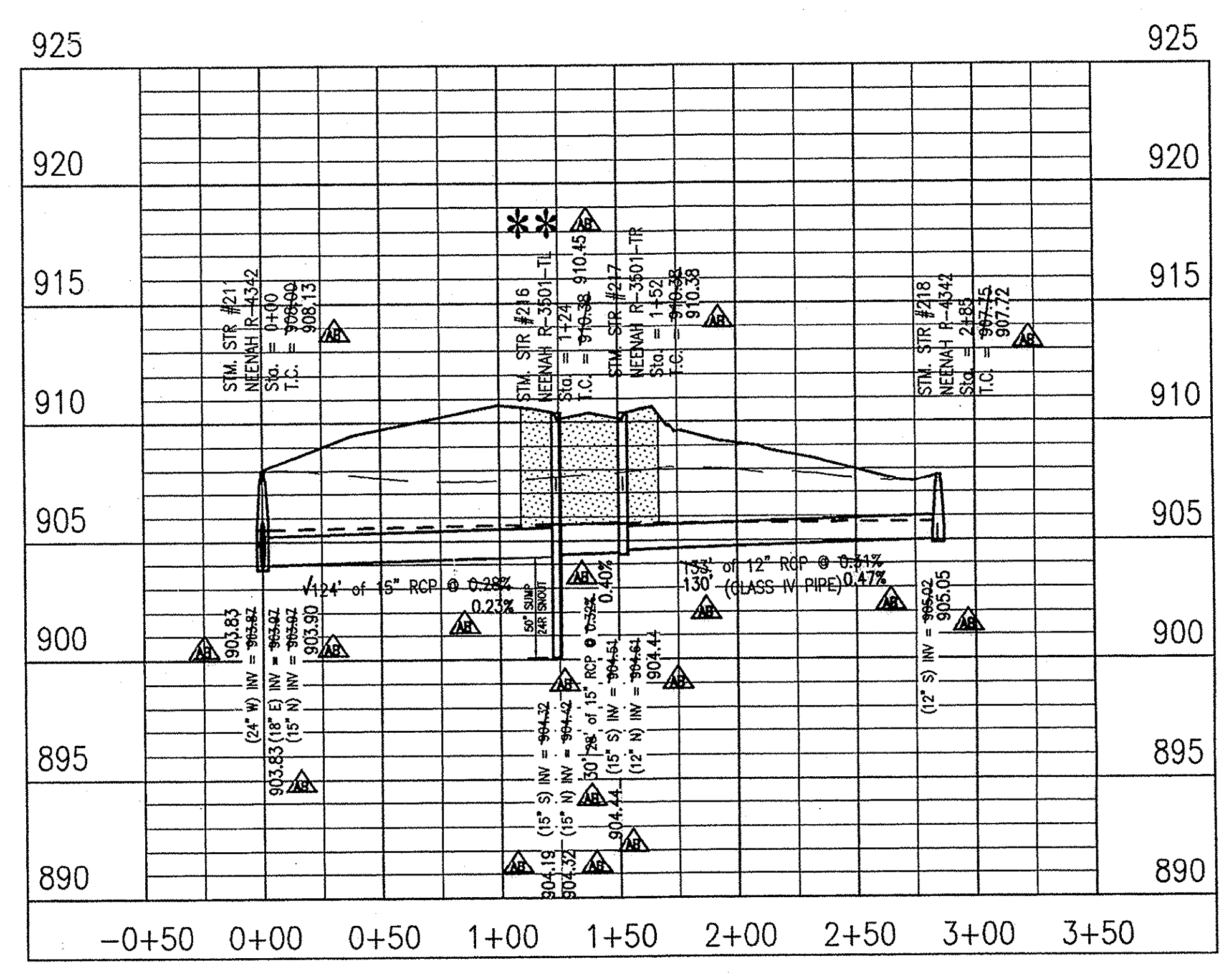
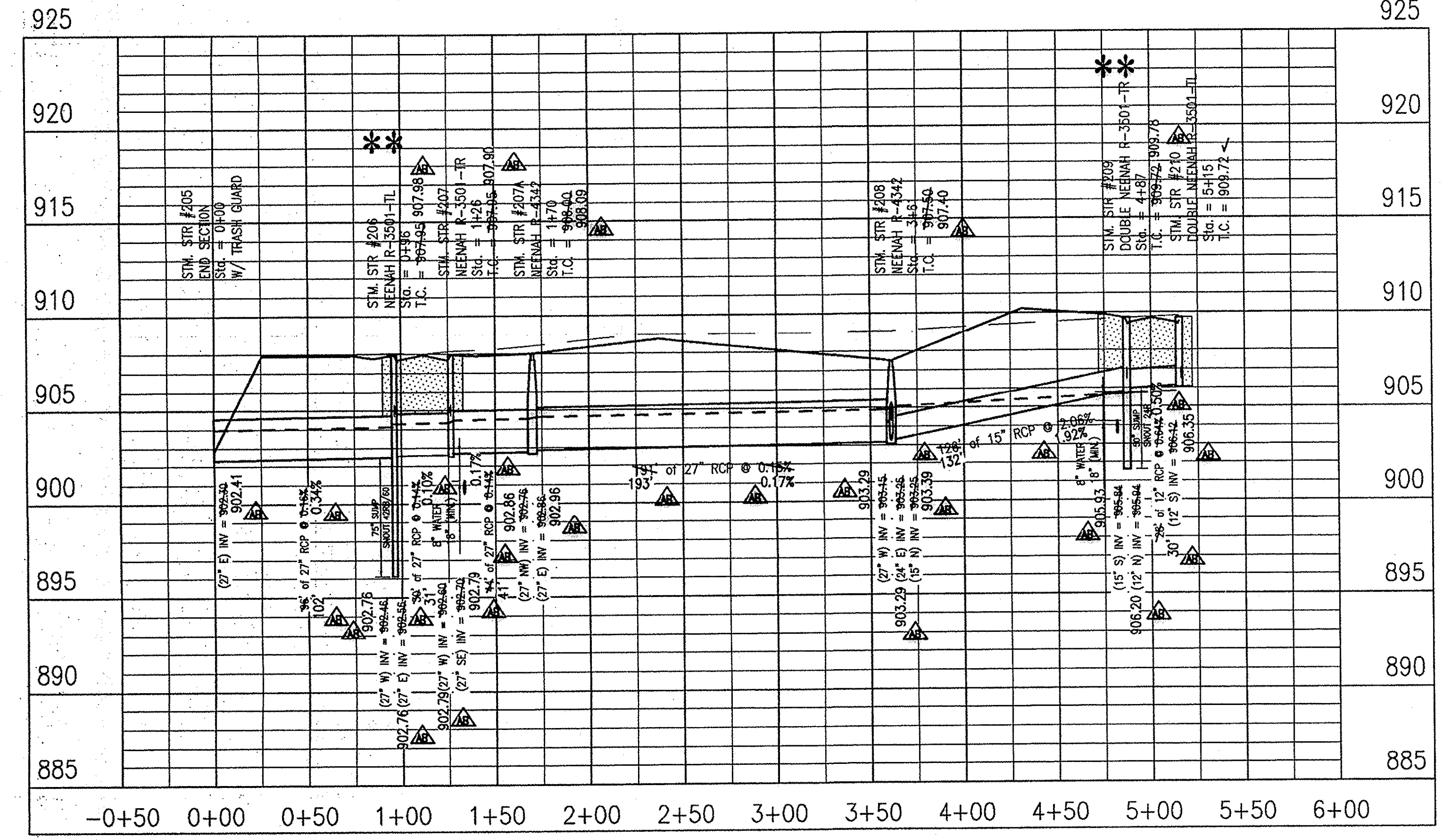


** DENOTES SNOT GUARD TO BE INSTALLED (SEE DTL C202)



RECORD DRAWING
STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
12/08/2015

JOSHUA DAVID WERNER, LS21200020



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: Jan 2016
Entered By: slm

LEGEND

- EXISTING GRADE
- FINISHED GRADE
- HYDRAULIC GRADE LINE
- GRANULAR BACKFILL

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

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

FOR INSTALLATION OF STORM MAINS, UNDER CITY STREETS, REGARDLESS OF JURISDICTION OF THE UTILITY, THE MINIMUM COVER FROM THE TOP OF THE INSTALLED PIPEMENT TO THE TOP OF THE INSTALLED PIPE SHALL BE THE PAVED 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.

STORM SEWER PLAN AND PROFILE NOTES:

FULL DEPTH GRANULAR BACKFILL SHALL BE PER DETAIL 10-28 ON SHEET C603. REFER TO DETAIL 10 28, SHEET C603, 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.

10505 N. College Avenue
Indianapolis, Indiana 46280
weihe.net
317 | 846 - 6611
800 | 452 - 6408
317 | 843 - 0546 fax

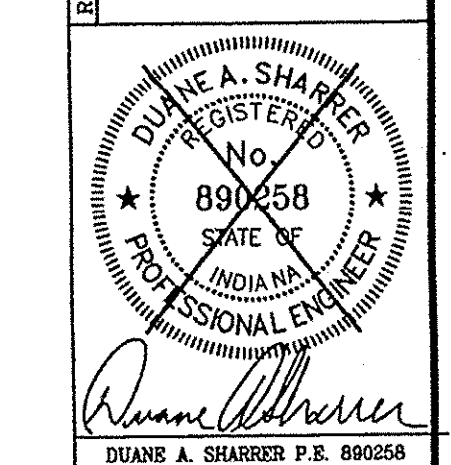
ALLAN H. WEIHE, P.E., L.S. - FOUNDER

WEIHE ENGINEERS
Land Surveying | Civil Engineering
Landscape Architecture

PROJECT NO.	W12.0014
DWG NAME	As-Built Storm Sewer
DESIGNED BY	SLM
DRAWN BY	SLM
CHECKED BY	JES
DATE	11.14.2013

REVISIONS AND ISSUES

NO.	DATE	DESCRIPTION



THE LAKES AT TOWNE ROAD III
THE PAUL SHOOPMAN HOME BUILDING GROUP
STORM SEWER PLAN AND PROFILE SHEET

PREPARED FOR:

SHEET NO. **C601**
PROJECT NO. **W12.0014**

RECORD DRAWINGS - CONSTRUCTION PLANS - DATED 04/15/2015

LOCATION: H:\2012\W120014\Engineering\Storm\Subarea\AB\Comm\AS\6000 Storm Prof.dwg
DATE PLOTTED: 04/15/2015 10:44am
PLOTTER: HP DesignJet 2400

OFFICE OF THE HAMILTON COUNTY SURVEYOR

ANCHOR FOR CONCRETE END SECTIONS

SIDE PROFILE
STEEL ALL-THREAD
1/2" MIN. DIAMETER

TOP VIEW
STEEL WASHERS

END PROFILE
STEEL ALL-THREAD
1/2" MIN. DIAMETER

ALL-THREAD SPACING TO BE TWO PER FOOT
EX: 12" END SECTION - 4 ALL-THREAD
24" END SECTION - 4 ALL-THREAD

HAMILTON COUNTY SURVEYOR'S OFFICE
REVISION: 1 JAN 2002
APPROVED: KENTON C. WARD, HAMILTON COUNTY SURVEYOR
DATE: 0-5
STANDARD PLAN

OFFICE OF THE HAMILTON COUNTY SURVEYOR

NOTE: ALL DIMENSIONS SHOWN ARE IN ENGLISH AND METRIC.
FREE OPEN AREA 278 SQUARE INCHES
MATERIAL: CAST GRAY IRON ASTM A-18, CLASS 300
FINISH: NO POINT
WEIGHT: 28#

NEENAH 4342
EAST JORDAN 8489N

HAMILTON COUNTY SURVEYOR'S OFFICE
REVISION: 11/18/2004
APPROVED: KENTON C. WARD, HAMILTON COUNTY SURVEYOR
DATE: CT-10
STANDARD PLAN

OFFICE OF THE HAMILTON COUNTY SURVEYOR

NOTE: ALL DIMENSIONS SHOWN ARE IN ENGLISH AND METRIC.
MEETS AND/OR IN-286 PROOF LOAD REQUIREMENTS
MATERIAL: CAST GRAY IRON ASTM A-18, CLASS 300
FINISH: NO POINT
WEIGHT: FRAME 21#, GRADE 10#

NEENAH 3501-TL or TR
EAST JORDAN 7495-M2 or M1

HAMILTON COUNTY SURVEYOR'S OFFICE
REVISION: 11/18/2004
APPROVED: KENTON C. WARD, HAMILTON COUNTY SURVEYOR
DATE: CT-8
STANDARD PLAN

OFFICE OF THE HAMILTON COUNTY SURVEYOR

* This casting to be used when curb flow comes from both directions

NEENAH 3501-L2
EAST JORDAN 7495-M4

HAMILTON COUNTY SURVEYOR'S OFFICE
REVISION: 11/18/2004
APPROVED: KENTON C. WARD, HAMILTON COUNTY SURVEYOR
DATE: CT-7
STANDARD PLAN

OFFICE OF THE HAMILTON COUNTY SURVEYOR

NOTE: ALL DIMENSIONS SHOWN ARE IN ENGLISH AND METRIC.
MATERIAL: CAST GRAY IRON ASTM A-18, CLASS 300
FINISH: NO POINT
WEIGHT: FRAME 21#, GRADE 10#

NEENAH 1642 or 1772
EAST JORDAN 1045

HAMILTON COUNTY SURVEYOR'S OFFICE
REVISION: 11/18/2004
APPROVED: KENTON C. WARD, HAMILTON COUNTY SURVEYOR
DATE: CT-1
STANDARD PLAN

OFFICE OF THE HAMILTON COUNTY SURVEYOR

TRENCH DETAIL FOR CITY STORM SEWERS

NOTES:
1. BEDDING AND HAUNCHING FOR ALL RCP INSTALLATIONS SHALL BE AS STONE MEETING THE MATERIAL REQUIREMENTS OF THE INLET. BEDDING SHALL BE PLACED IN THE TRENCH BOTTOM SUCH THAT AFTER THE PIPE IS INSTALLED TO GRADE AND LINE, BEDDING SHALL BE A MINIMUM DEPTH OF MATERIAL BELOW THE PIPE BARS AND A MINIMUM OF 3" BELOW THE BELL FOR PIPE SIZES 48" AND LARGER. THE MINIMUM DEPTH OF MATERIAL BELOW THE PIPE SHALL BE 8" BEDDING SHALL BE PLACED TO BE UNIFORM AS POSSIBLE, BUT SHALL BE LOOSELY PLACED UNCOMPACTED MATERIAL UNDER THE BELL. THE TOP OF THE PIPE PRIOR TO PLACEMENT OF THE PIPE. THE UNDERLAYS SHALL BE OF THE TRENCH BOTTOM ARE SOFT OR YIELDING. THE SOIL SHALL BE IMPROVED TO SUCH A DEPTH THAT WHEN REPAIRED WITH STONE IT WILL PRODUCE A UNIFORM AND STABLE FOUNDATION ALONG THE ENTIRE LENGTH OF THE PIPE. HAUNCHING AND INITIAL BACKFILL SHALL BE COMPACTED IN 6" MAXIMUM LIFTS TO NOT LESS THAN USE STANDARD PROCTOR DENSITY FOR THE ENTIRE DEPTH OF THE MATERIAL PLACED. THE BACKFILL SHALL BE BROUGHT TO GRADE ON BOTH SIDES OF THE PIPE FOR THE FULL LENGTH OF THE PIPE. HAUNCHING SHALL EXTEND TO THE SPRINGLINE OF THE PIPE. MINIMUM TRENCH WIDTH SHALL BE THE OUTSIDE DIAMETER OF THE PIPE PLUS 12".
2. FINAL BACKFILL FOR ALL RCP INSTALLATIONS WHERE "1" IS 5' OR LESS SHALL BE 8-BORROW STRUCTURE BACKFILL MEETING THE MATERIAL REQUIREMENTS OF THE INLET AND SHALL BE COMPACTED IN 6" MAXIMUM LIFTS TO NOT LESS THAN USE STANDARD PROCTOR DENSITY FOR THE ENTIRE DEPTH OF THE MATERIAL PLACED. THE BACKFILL FOR THE TOP 1' OF THE OCCUPATION BELOW THE LIMIT OF SURFACE SHALL BE 8-BORROW MEETING THE MATERIAL REQUIREMENTS OF THE INLET AND SHALL BE COMPACTED TO NOT LESS THAN USE STANDARD PROCTOR DENSITY. FINAL BACKFILL FOR ALL RCP INSTALLATIONS WHERE "1" IS GREATER THAN 5' SHALL BE CLEAN FILL MATERIAL FREE OF ROCKS LARGER THAN 6" IN DIAMETER, FROZEN LUMPS OF SOIL, WOOD OR OTHER EXTRANEIOUS MATERIAL, COMPACTED IN 12" MAXIMUM LIFTS TO NOT LESS THAN USE STANDARD PROCTOR DENSITY FOR THE ENTIRE DEPTH OF THE OCCUPATION.
3. FOR INSTALLATION OF STORM MAINS, WATER MAINS, SANITARY MAINS, WATER SERVICE LATERALS, AND SANITARY SERVICE LATERALS UNDER CITY STREETS, REGARDLESS OF THE JURISDICTION OF THE UTILITY, THE UNIFORM COVER FROM THE TOP OF THE INSTALLED PAVEMENT TO THE TOP OF THE INSTALLED PIPE SHALL BE THE PAVEMENT SECTION THROUGHOUT. FALL RETAINERS AND APPROXIMATE MATERIAL ABOVE THE LIMIT OF SURFACE PLUS 1'-0". 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.
4. IF EXISTING SURFACE HAS BEEN LINE STABILIZED, BACKFILL WITH 8-BORROW TO BOTTOM OF EXISTING SURFACE AND FILL TO THE LIMIT OF EXISTING SURFACE WITH LINE STABILIZED SOIL.
5. THESE STANDARDS SHALL APPLY FOR STORM SEWERS INSTALLED WITH EXISTING AND PROPOSED CITY R/W AND FOR STORM SEWERS THAT SHALL BE MAINTAINED BY THE CITY, REGARDLESS OF STORM SEWER JURISDICTION.
6. ALL STORM PIPE WITH EXISTING OR PROPOSED CITY R/W SHALL BE REINFORCED CONCRETE PIPE REGARDLESS OF JURISDICTION OVER STORM PIPES.

CITY OF CARMEL STANDARDS
TRENCH DETAIL FOR CITY STORM SEWERS
STANDARD DRAWING 10-28

OFFICE OF THE HAMILTON COUNTY SURVEYOR

SUBSURFACE DRAIN (SSD) RISER DETAIL

NOTE: ALL DIMENSIONS SHOWN ARE IN ENGLISH AND METRIC.
MATERIAL: CAST GRAY IRON ASTM A-18, CLASS 300
FINISH: NO POINT
WEIGHT: 28#

HAMILTON COUNTY SURVEYOR'S OFFICE
REVISION: 1 JAN 2002
APPROVED: KENTON C. WARD, HAMILTON COUNTY SURVEYOR
DATE: SSD-3
STANDARD PLAN

OFFICE OF THE HAMILTON COUNTY SURVEYOR

SUMP MANHOLE STRUCTURE

NOTE: ALL DIMENSIONS SHOWN ARE IN ENGLISH AND METRIC.
MATERIAL: CAST GRAY IRON ASTM A-18, CLASS 300
FINISH: NO POINT
WEIGHT: 28#

HAMILTON COUNTY SURVEYOR'S OFFICE
REVISION: 18 DEC 2004
APPROVED: KENTON C. WARD, HAMILTON COUNTY SURVEYOR
DATE: D-25
STANDARD PLAN

OFFICE OF THE HAMILTON COUNTY SURVEYOR

STANDARD MANHOLE FOR PIPE SIZES 24" THRU 66"

MANHOLE PIPE DIA. " "	PIPE TURNS
24"	GREATER THAN 45 TO 90 DEG
30"	UP TO 45 DEG
36"	GREATER THAN 45 TO 90 DEG
42"	UP TO 45 DEG
48"	GREATER THAN 45 TO 90 DEG
54"	UP TO 45 DEG
60"	GREATER THAN 45 TO 90 DEG
66"	UP TO 45 DEG

NOTE: MANHOLE CONFORMS TO ASTM 478
THIS STRUCTURE CAN BE USED AS A CONFLICT STRUCTURE WITH SPECIAL APPROVAL OF HCSO AND A MINIMUM OF 8" SUMP.

HAMILTON COUNTY SURVEYOR'S OFFICE
REVISION: 1 FEB 2002
APPROVED: KENTON C. WARD, HAMILTON COUNTY SURVEYOR
DATE: D-21
STANDARD PLAN

OFFICE OF THE HAMILTON COUNTY SURVEYOR

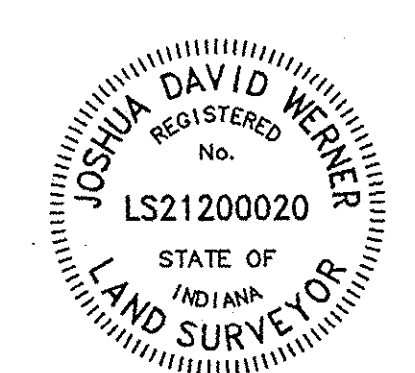
STANDARD MANHOLE FOR PIPE SIZES 12" THRU 24"

NOTE: ALL DIMENSIONS SHOWN ARE IN ENGLISH AND METRIC.
MATERIAL: CAST GRAY IRON ASTM A-18, CLASS 300
FINISH: NO POINT
WEIGHT: 28#

HAMILTON COUNTY SURVEYOR'S OFFICE
REVISION: 1 FEB 2002
APPROVED: KENTON C. WARD, HAMILTON COUNTY SURVEYOR
DATE: D-20
STANDARD PLAN

RECORD DRAWING
STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
12/08/2015

JOSHUA DAVID WERNER, LS21200020



AS-BUILT INFORMATION
BUILT AS PLANNED

6" DIA. OPENING
INV. = 905.15, 905.20

24"x24" BOX STRUCTURE

INSTALL DEBRIS GUARDS OVER OPENINGS

6" OPENING
902.48 INV. = 902.30

CONCRETE BOX STRUCTURE TO CONFORM TO ASTM C-478

18" RCP PIPE (OUTLET PIPE)
INV. = 902.30, 902.48

SPECIAL OUTLET STRUCTURE DETAIL
STM STR. #200

NEENAH R-4215-A OR APPROVED EQUAL

T.C. = 907.10

6" DIA. OPENING
INV. = 905.15, 905.20

24"x24" BOX STRUCTURE

INSTALL DEBRIS GUARDS OVER OPENINGS

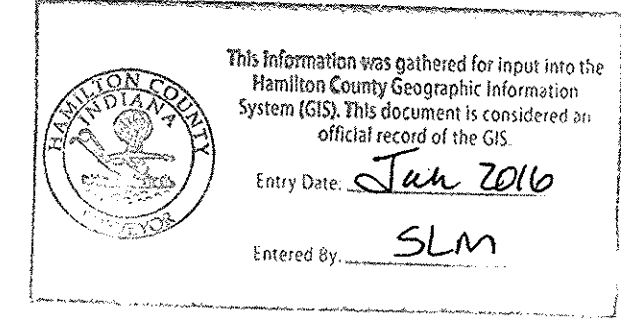
6" OPENING
902.48 INV. = 902.30

CONCRETE BOX STRUCTURE TO CONFORM TO ASTM C-478

18" RCP PIPE (OUTLET PIPE)
INV. = 902.30, 902.48

SPECIAL OUTLET STRUCTURE DETAIL
STM STR. #200

RECORD DRAWING
CONSTRUCTION PLANS - DATED 04/15/2015



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317 | 843 - 0346 fax

ALLAN H. WEIHE, P.E., L.S. - FOUNDER

WEIHE ENGINEERS
Land Surveying | Civil Engineering
Landscape Architecture

PROJECT NO: W12.0014
DATE: 11.14.2013

DESIGNED BY: [Signature]
DRAWN BY: [Signature]
CHECKED BY: [Signature]
DATE: 11.14.2013

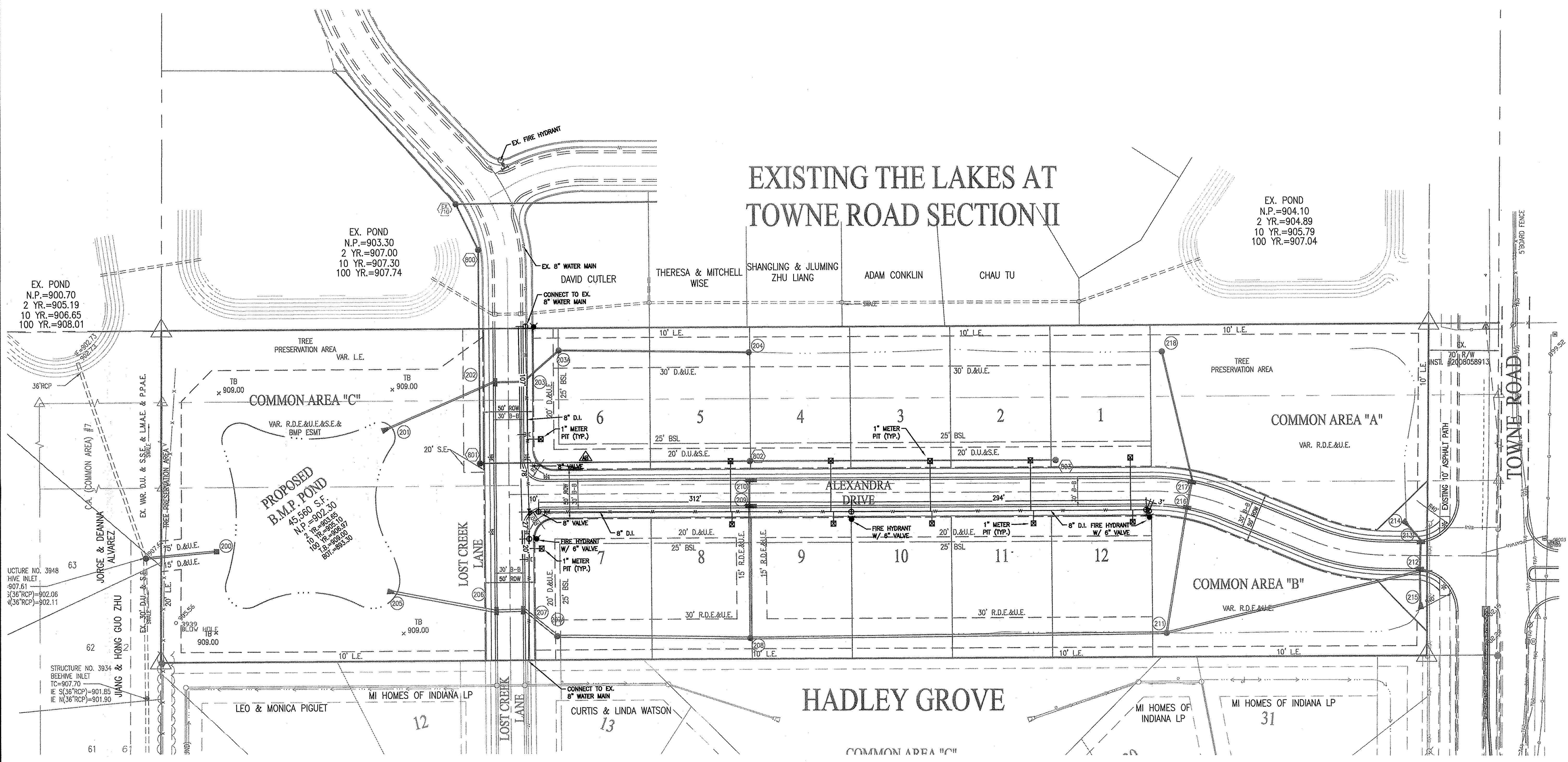
DUANE A. SHARRER
REGISTERED PROFESSIONAL ENGINEER
No. 890458
STATE OF INDIANA

DUANE A. SHARRER P.E. 890556

PREPARED FOR:
THE LAKES AT TOWNE ROAD III
THE PAUL SHOOPMAN HOME BUILDING GROUP
STORM SEWER DETAILS

SHEET NO.
C603
PROJECT NO.
W12.0014

EXISTING THE LAKES AT TOWNE ROAD SECTION II



EX. POND
N.P.=904.10
2 YR.=904.89
10 YR.=905.79
100 YR.=907.04

EX. POND
N.P.=903.30
2 YR.=907.00
10 YR.=907.30
100 YR.=907.74

EX. POND
N.P.=900.70
2 YR.=905.19
10 YR.=906.65
100 YR.=908.01

PROPOSED
B.M.P. POND
45,560 S.F.
N.P.=902.50
2 YR.=904.89
10 YR.=905.79
100 YR.=907.04

- ### LEGEND
- Existing Water Main
 - Proposed Water Main
 - Telephone Pole
 - Gas Pole
 - Inlet
 - Tree
 - Gas Valve
 - Parcel Id
 - Adapter
 - Bend
 - Kicker Block
 - Hydrant
 - Hydrant with Hydrant Valve
 - Butterfly Valve
 - Valve
 - Blowoff Assembly
 - Air Relief Valve
 - Plug
 - Reducer
 - T.J. Tee
 - M.J. Sleeve
 - Cross
 - Casing Pipe
 - Gas Lines
 - Telephone Lines
 - Electric Lines

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 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 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

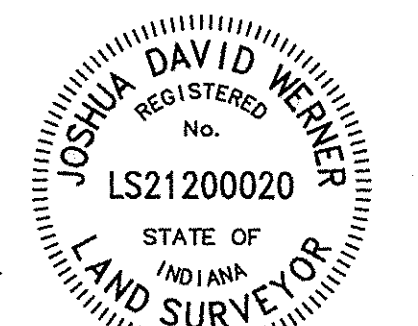
FOR INSTALLATION OF STORM MAINS, WATER MAINS, SANITARY MAINS, WATER SERVICE LATERALS, SANITARY SERVICE LATERALS UNDER CITY STREETS, REGARDLESS OF JURISDICTION OF THE UTILITY, THE MINIMUM COVER FROM THE TOP OF THE INSTALLED PAVEMENT TO THE TOP OF THE INSTALLED PIPE SHALL BE THE PAVEMENT SECTION THICKNESS (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 CONDITION AND APPROVED ONLY WITH WRITTEN PERMISSION BY THE CITY ENGINEER.

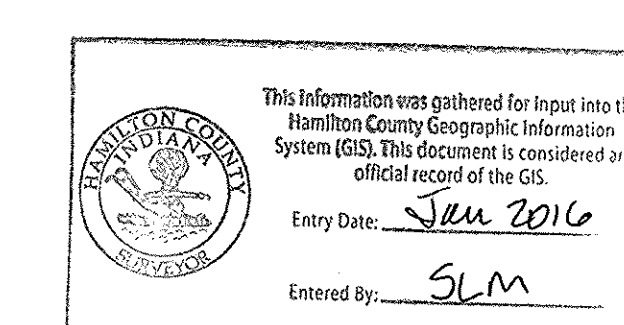
THERE SHALL BE NO FRAMES, CASTINGS, OR VALVE BOX EXTENSIONS IN THE STREET PAVEMENT, CURBS, SIDEWALKS, OR ASPHALT PATH FOR ANY UTILITY INSTALLATIONS IN THE RIGHT-OF-WAY WITH THE EXCEPTION OF CURB INLET CASTINGS.

RECORD DRAWING

WATER AS-BUILTS
WATER STRUCTURES ONLY
12/14/2015
JOSHUA DAVID WERNER, LS21200020



- AS-BUILT INFORMATION
- AS-BUILT WATER METER
- AS-BUILT TEE
- AS-BUILT FIRE HYDRANT
- AS-BUILT WATER VALVE
- AS-BUILT SLEEVE



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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.	W12.0014
DWG NAME	AS BUILT WATER STRUCTURES ONLY
DESIGNED BY	J.D.W.
DRAWN BY	J.D.W.
CHECKED BY	J.D.W.
DATE	11/14/2015

DUANE A. SHARRER REGISTERED PROFESSIONAL ENGINEER
No. 891458 STATE OF INDIANA
DUANE A. SHARRER P.E. 680258

PREPARED FOR:
THE LAKES AT TOWNE ROAD III
THE PAUL SHOOPMAN HOME BUILDING GROUP
WATER MAIN PLAN

SHEET NO.
C700

PROJECT NO.
W12.0014

LOCATION: H:\2015\W120014\Engineering\Substation\AS BUILT\W120014 Water Plan.dwg
 LAYOUT: C700
 PLOTTED: November 20, 2015 - 3:56pm
 PLOTTED BY: werner