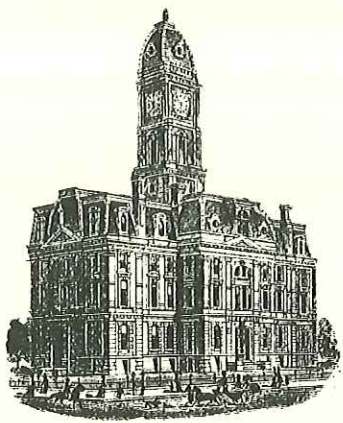


KCW



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

September 25, 2014

To: Hamilton County Drainage Board

Re: Long Branch Drain, Sanctuary at 116th Street Section 6 Arm

Attached is a petition filed by Sanctuary Project 1, LLC., along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Sanctuary at 116th Street Section 6 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	797 ft.	15" RCP	276 ft.
18" RCP	256 ft.	21" RCP	71 ft.
24" RCP	373 ft.	27" RCP	224 ft.
30" RCP	342 ft.	6" SSD	4,890 ft.

The total length of the drain will be 7,229 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:

- Rear yard lots 194 to 195 from existing Str. 4702 to Str. 4703
- Rear yard lots 195 to 196 from Str. 4703 to Str. 4704
- Rear yard lots 196 to 198 from Str. 4704 running north to riser
- Rear yard lots 190 to 192 from existing Str. 4719 running north to riser

Rear yard lots 213 to 214 from Str. 6709 running west to riser
Rear yard lots 208 to 212 from Str. 6703B running south to near Str. 6710
Rear yard lots 207 to 208 from Str. 6703A to Str. 6703B
Rear yard lots 206 to 207 from Str. 6703 to Str. 6703A
Rear yard lots 205 to 206 from Str. 6702 to Str. 6703
Rear yard lots 202 to 204 from Str. 6704 to Str. 6703
Rear yard lots 199 to 202 from Str. 6704 run east 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 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 \$2,099.60.

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: Philadelphia Indemnity Insurance Company
Date: June 24, 2014
Number: PB11328100044
For: Storm Sewers & Sub-Surface Drains
Amount: \$215,120.04

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 Sanctuary at 116th Street Section 6 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for November 24, 2014.



Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/pll

(Revised 06/08/04)

STATE OF INDIANA)
)
COUNTY OF HAMILTON)

FILED

JUL 29 2013

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 Sanctuary at 116th Street Subdivision, Section
Six 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 Sanctuary at 116th Street, 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 Ffillable 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

David C. Oakes
Printed Name

7/23/13
Date

Signed

Printed Name

Date

Signed

Printed Name

Date

Signed

Printed Name

Date

FINDINGS AND ORDER


CONCERNING THE MAINTENANCE OF THE

Long Branch Drain, Sanctuary at 116th Street Section 6 Arm

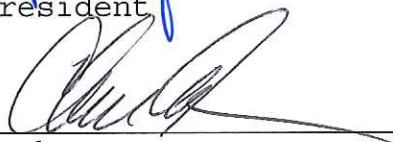
On this 24th day of November, 2014, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the *Long Branch Drain, Sanctuary at 116th Street Section 6 Arm.*

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.

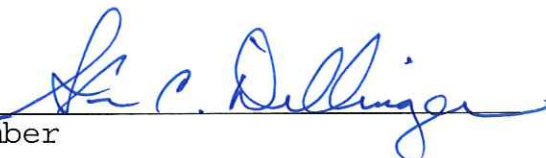
HAMILTON COUNTY DRAINAGE BOARD



President



Member



Member

Attest: 
Executive Secretary

Proj: Sanctuary @ 116th St Section 6
 Proj No: W130200
 Date: 2/14/2014
 Revised 6/2/14



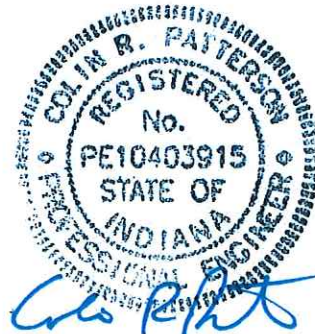
Revised Engineer Estimate for HCSO Bond

STORM SEWER PIPE, STRUCTURES, SSD

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	AMOUNT
1	6" SSD Swales	2740	LF	\$ 10.95	\$ 30,003.00
2	6" SSD Curbs	2720	LF	\$ 8.73	\$ 23,745.60
3	12" RCP	665	LF	\$ 22.50	\$ 14,962.50
4	15" RCP	284	LF	\$ 26.10	\$ 7,412.40
5	18" RCP	256	LF	\$ 30.25	\$ 7,744.00
6	21" RCP	71	LF	\$ 34.50	\$ 2,449.50
7	24" RCP	373	LF	\$ 37.30	\$ 13,912.90
8	27" RCP	224	LF	\$ 43.50	\$ 9,744.00
9	30" RCP	342	LF	\$ 50.40	\$ 17,236.80
10	36" RCP	142	LF	\$ 68.00	\$ 9,656.00
11	Inlet Type A Neenah R3501-TR	3	EA	\$ 1,500.00	\$ 4,500.00
12	Inlet Type A Neenah R3501-TL	1	EA	\$ 1,750.00	\$ 1,750.00
13	Curb Inlet Double Castings	5	EA	\$ 2,670.00	\$ 13,350.00
14	MH w/Solid Lid (12" to 24" Pipe)	4	EA	\$ 1,650.00	\$ 6,600.00
15	MH w/Beehive Inlet (12" to 24" Pipe)	7	EA	\$ 1,350.00	\$ 9,450.00
16	MH w/Solid Lid (27" to 66" Pipe)	2	EA	\$ 1,670.00	\$ 3,340.00
17	MH w/Beehive Inlet (27" to 66" Pipe)	1	EA	\$ 1,610.00	\$ 1,610.00
18	Connect to Ex. CB	2	EA	\$ 900.00	\$ 1,800.00
TOTAL					\$ 179,266.70

MONUMENTATION

QUANT.		UNIT COST	LINE COST
84	5/8 rebar with caps, lot prop. corners	\$ 39.75	\$ 3,339.00
8	5/8 rebar with alum caps, street control	\$ 79.50	\$ 636.00
11	4X4 concrete monuments, subd. prop. corners	\$ 318.00	\$ 3,498.00
TOTAL			\$ 7,473.00



6/2/14

JUN 30 2014

Subdivision Bond
Faithful Performance

Bond No. PB11328100044
Premium \$3,227.00/2 years

SUBDIVISION BOND

HCDP-2014-00028

KNOW ALL MEN BY THESE PRESENTS: That Sanctuary Project I LLC as Principal, and Philadelphia Indemnity Insurance Company, a corporation organized and existing under the laws of the State of Pennsylvania and authorized to transact surety business in the State of Indiana, as Surety are held and firmly bound unto Hamilton County Board of Commissioners in the sum of Two Hundred Fifteen Thousand One Hundred Twenty and 04/100 Dollars (\$215,120.04), for the payment whereof, well and truly to be made, said Principal and Surety bind themselves, their heirs, administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THE OBLIGATION IS SUCH THAT:

WHEREAS the above Named Principal has entered into an agreement, dated _____, with the Hamilton County Board of Commissioners to do and perform the following work, to wit:

Sanctuary at 116th Street Section 6 – Storm Sewer Pipe, Structures, SSD

NOW, THEREFORE, if the above-bounden Principal shall well and truly perform the work referred to in such agreement, then this obligation shall be void; otherwise to remain in full force and effect.

IN WITNESS WHEREOF, the seal and signature of said Principal is hereto affixed and the corporate seal and the name of the said Surety is hereto affixed and attested by its duly authorized Attorney in Fact at Columbus, Ohio this 24th day of June, 2014.

Sanctuary Project I, LLC an Indiana limited liability co.
By: EBS Residential Development Fund, LLC An Ohio limited liability co., its Sole member
By: Eubel Brady & Suttman Asset Management, Inc., a Delaware corporation, its Manager
By: Mark E. Brady or Ronald L. Eubel, Its Co-CIO

Sanctuary Project I LLC
(Principal) (Seal)
By: Mark E. Brady

Philadelphia Indemnity Insurance Company
(Surety) (Seal)
By: Amy M. Perdue
Amy M. Perdue, Attorney-In-Fact



PHILADELPHIA INDEMNITY INSURANCE COMPANY

231 St. Asaph's Rd., Suite 100
Bala Cynwyd, PA 19004-0950

Power of Attorney

KNOW ALL PERSONS BY THESE PRESENTS: that **PHILADELPHIA INDEMNITY INSURANCE COMPANY** (the Company), a corporation organized and existing under the laws of the Commonwealth of Pennsylvania, does hereby constitute and appoint: Jack E Kehl, Gregory R. Overmyer, Amy M. Perdue and Stephanie M. Fannin of OH-INS, LLC dba Overmyer Hall Associates, of the city of Columbus, state of Ohio. its true and lawful Attorney(s) in fact with full authority to execute on its behalf bonds, undertakings, recognizances and other contracts of indemnity and writings obligatory in the nature thereof, issued in the course of its business and to bind the Company thereby, in an amount not to exceed \$7,500,000.00:

This Power of Attorney is granted and is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of PHILADELPHIA INDEMNITY INSURANCE COMPANY at a meeting duly called the 1st day of July, 2011.

RESOLVED: That the Board of Directors hereby authorizes the President or any Vice President of the Company to: (1) Appoint Attorney(s) in Fact and authorize the Attorney(s) in Fact to execute on behalf of the Company bonds and undertakings, contracts of indemnity and other writings obligatory in the nature thereof and to attach the seal of the Company thereto; and (2) to remove, at any time, any such Attorney-in-Fact and revoke the authority given. And, be it

FURTHER RESOLVED: That the signatures of such officers and the seal of the Company may be affixed to any such Power of Attorney or certificate relating thereto by facsimile, and any such Power of Attorney so executed and certified by facsimile signatures and facsimile seal shall be valid and binding upon the Company in the future with the respect to any bond or undertaking to which it is attached.

IN TESTIMONY WHEREOF, PHILADELPHIA INDEMNITY INSURANCE COMPANY HAS CAUSED THIS INSTRUMENT TO BE SIGNED AND ITS CORPORATE SEAL TO BE AFFIXED BY ITS AUTHORIZED OFFICE THIS 15TH DAY OF NOVEMBER 2012.

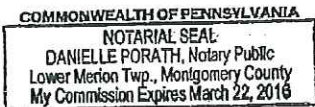


(Seal)

President

Sean S. Sweeney, President
Philadelphia Indemnity Insurance Company

On this 15th day of November 2012, before me came the individual who executed the preceding instrument, to me personally known, and being by me duly sworn said that he is the therein described and authorized officer of the **PHILADELPHIA INDEMNITY INSURANCE COMPANY**; that the seal affixed to said instrument is the Corporate seal of said Company; that the said Corporate Seal and his signature were duly affixed.



Notary Public:

residing at:

Bala Cynwyd, PA

(Notary Seal)

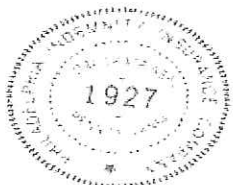
My commission expires:

March 22, 2016

I, Craig P. Keller, Executive Vice President, Chief Financial Officer and Secretary of PHILADELPHIA INDEMNITY INSURANCE COMPANY, do hereby certify that the foregoing resolution of the Board of Directors and this Power of Attorney issued pursuant thereto are true and correct and are still in full force and effect. I do further certify that Sean S. Sweeney, who executed the Power of Attorney as President, was on the date of execution of the attached Power of Attorney the duly elected President of PHILADELPHIA INDEMNITY INSURANCE COMPANY,

In Testimony Whereof I have subscribed my name and affixed the facsimile seal of each Company this 24th day of June 2014.

Craig P. Keller, Executive Vice President, Chief Financial Officer & Secretary
PHILADELPHIA INDEMNITY INSURANCE COMPANY



JUN 30 2014

FILE COPY

OFFICE OF HAMILTON COUNTY SURVEYOR
Subdivision Bond
Faithful Performance

Bond No. PB11328100045
Premium \$200.00/2 years

SUBDIVISION BOND

HCDB-2014-00029

KNOW ALL MEN BY THESE PRESENTS: That Sanctuary Project I LLC as Principal, and Philadelphia Indemnity Insurance Company, a corporation organized and existing under the laws of the State of Pennsylvania and authorized to transact surety business in the State of Indiana, as Surety are held and firmly bound unto Hamilton County Board of Commissioners in the sum of Eight Thousand Nine Hundred Sixty Seven and 60/100 Dollars (\$8,967.60), for the payment whereof, well and truly to be made, said Principal and Surety bind themselves, their heirs, administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THE OBLIGATION IS SUCH THAT:

WHEREAS the above Named Principal has entered into an agreement, dated _____, with the Hamilton County Board of Commissioners to do and perform the following work, to wit:

Sanctuary at 116th Street Section 6 – Monumentation

NOW, THEREFORE, if the above-bounden Principal shall well and truly perform the work referred to in such agreement, then this obligation shall be void; otherwise to remain in full force and effect.

IN WITNESS WHEREOF, the seal and signature of said Principal is hereto affixed and the corporate seal and the name of the said Surety is hereto affixed and attested by its duly authorized Attorney in Fact at Columbus, Ohio this 24th day of June, 2014.

Sanctuary Project I, LLC an Indiana limited liability co.
By: EBS Residential Development Fund, LLC An Ohio limited liability co., its Sole member
By: Eubel Brady & Suttman Asset Management, Inc., a Delaware corporation, its Manager
By: Mark E. Brady or Ronald L. Eubel, Its Co-CIO

Sanctuary Project I LLC
(Principal) (Seal)

By: Mark E. Brady

Philadelphia Indemnity Insurance Company
(Surety) (Seal)

By: Amy M. Perdue
Amy M. Perdue, Attorney-In-Fact



PHILADELPHIA INDEMNITY INSURANCE COMPANY

231 St. Asaph's Rd., Suite 100
Bala Cynwyd, PA 19004-0950

Power of Attorney

KNOW ALL PERSONS BY THESE PRESENTS: that **PHILADELPHIA INDEMNITY INSURANCE COMPANY** (the Company), a corporation organized and existing under the laws of the Commonwealth of Pennsylvania, does hereby constitute and appoint: Jack E Kehl, Gregory R. Overmyer, Amy M. Perdue and Stephanie M. Fannin of OH-INS, LLC dba Overmyer Hall Associates, of the city of Columbus, state of Ohio. its true and lawful Attorney(s) in fact with full authority to execute on its behalf bonds, undertakings, recognizances and other contracts of indemnity and writings obligatory in the nature thereof, issued in the course of its business and to bind the Company thereby, in an amount not to exceed \$7,500,000.00:

This Power of Attorney is granted and is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of PHILADELPHIA INDEMNITY INSURANCE COMPANY at a meeting duly called the 1st day of July, 2011.

RESOLVED: That the Board of Directors hereby authorizes the President or any Vice President of the Company to: (1) Appoint Attorney(s) in Fact and authorize the Attorney(s) in Fact to execute on behalf of the Company bonds and undertakings, contracts of indemnity and other writings obligatory in the nature thereof and to attach the seal of the Company thereto; and (2) to remove, at any time, any such Attorney-in-Fact and revoke the authority given. And, be it

FURTHER RESOLVED: That the signatures of such officers and the seal of the Company may be affixed to any such Power of Attorney or certificate relating thereto by facsimile, and any such Power of Attorney so executed and certified by facsimile signatures and facsimile seal shall be valid and binding upon the Company in the future with the respect to any bond or undertaking to which it is attached.

IN TESTIMONY WHEREOF, PHILADELPHIA INDEMNITY INSURANCE COMPANY HAS CAUSED THIS INSTRUMENT TO BE SIGNED AND ITS CORPORATE SEAL TO BE AFFIXED BY ITS AUTHORIZED OFFICE THIS 15TH DAY OF NOVEMBER 2012.



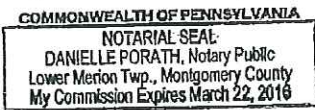
(Seal)

Sean S. Sweeney

President

Sean S. Sweeney, President
Philadelphia Indemnity Insurance Company

On this 15th day of November 2012, before me came the individual who executed the preceding instrument, to me personally known, and being by me duly sworn said that he is the therein described and authorized officer of the **PHILADELPHIA INDEMNITY INSURANCE COMPANY**; that the seal affixed to said instrument is the Corporate seal of said Company; that the said Corporate Seal and his signature were duly affixed.



Notary Public:

Danielle Porath

residing at:

Bala Cynwyd, PA

(Notary Seal)

My commission expires:

March 22, 2016

I, Craig P. Keller, Executive Vice President, Chief Financial Officer and Secretary of PHILADELPHIA INDEMNITY INSURANCE COMPANY, do hereby certify that the foregoing resolution of the Board of Directors and this Power of Attorney issued pursuant thereto are true and correct and are still in full force and effect. I do further certify that Sean S. Sweeney, who executed the Power of Attorney as President, was on the date of execution of the attached Power of Attorney the duly elected President of PHILADELPHIA INDEMNITY INSURANCE COMPANY,

In Testimony Whereof I have subscribed my name and affixed the facsimile seal of each Company this 24th day of June 2014.



Craig P. Keller
Craig P. Keller, Executive Vice President, Chief Financial Officer & Secretary
PHILADELPHIA INDEMNITY INSURANCE COMPANY

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF

Long Branch Drain, Sanctuary at 116th Street Section 6 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, Sanctuary at 116th Street Arm** on **November 24, 2014** at **9:30 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, Sanctuary at 116th Street Section 6

NOTICE

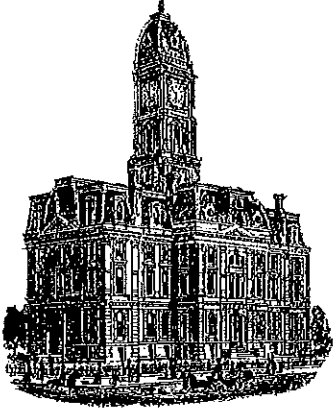
Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on **November 24, 2014** has issued an order adopting the Schedule of Assessments, filed the same and made public announcement thereof at the hearing and ordered publication. If 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

July 7, 2015

Re: Long Branch Drain: Sanctuary at 116th Street Sec. 6 Arm

Attached are as-builts, certificate of completion & compliance, and other information for Sanctuary at 116th Street Sec. 6 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 September 25, 2014. The report was approved by the Board at the hearing held November 24, 2014. (See Drainage Board Minutes Book 16, Pages 38-40) The changes are as follows: the 6" SSD was shortened from 4890 to 4872 feet; the 12" RCP was shortened from 797 to 781 feet; the 15" RCP was shortened from 276 to 275 feet; the 18" RCP was lengthened from 256 to 261 feet; the 24" RCP was lengthened from 373 to 375 feet; the 27" RCP was lengthened from 224 to 231 feet; the 30" RCP was shortened from 342 to 340 feet. The length of the drain due to the changes described above is now **7206 feet**.

The non-enforcement was approved by the Board at its meeting on November 24, 2014 and recorded under instrument #2015007477. The following sureties were guaranteed by Philadelphia Indemnity Insurance Company and will be released by the Board on its July 13, 2015 meeting.

Bond-LC No: PB11328100044
Amount: \$215,120.04
For: Storm Sewers & SSD
Issue Date: June 24, 2014

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

Sincerely,

Kenton C. Ward, CFM
Hamilton County Surveyor

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Sanctuary on 116th Street Section 6

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:  Date: 5/19/2015

Type or Print Name: Duane A. Sharrer, P.E.

Business Address: Weihe Engineers, Inc.

10505 N College Ave., Indianapolis, IN 46280

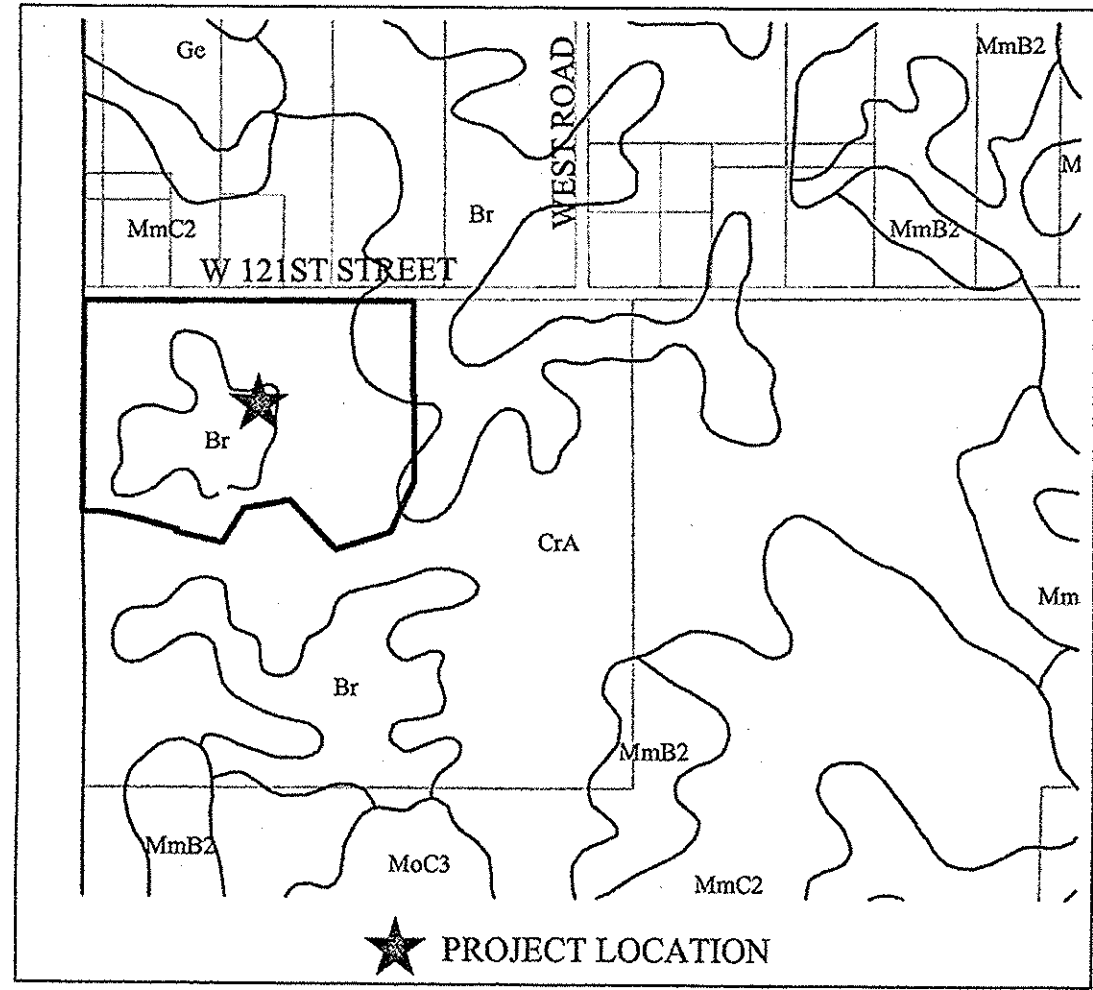
Telephone Number: (317) 846-6611



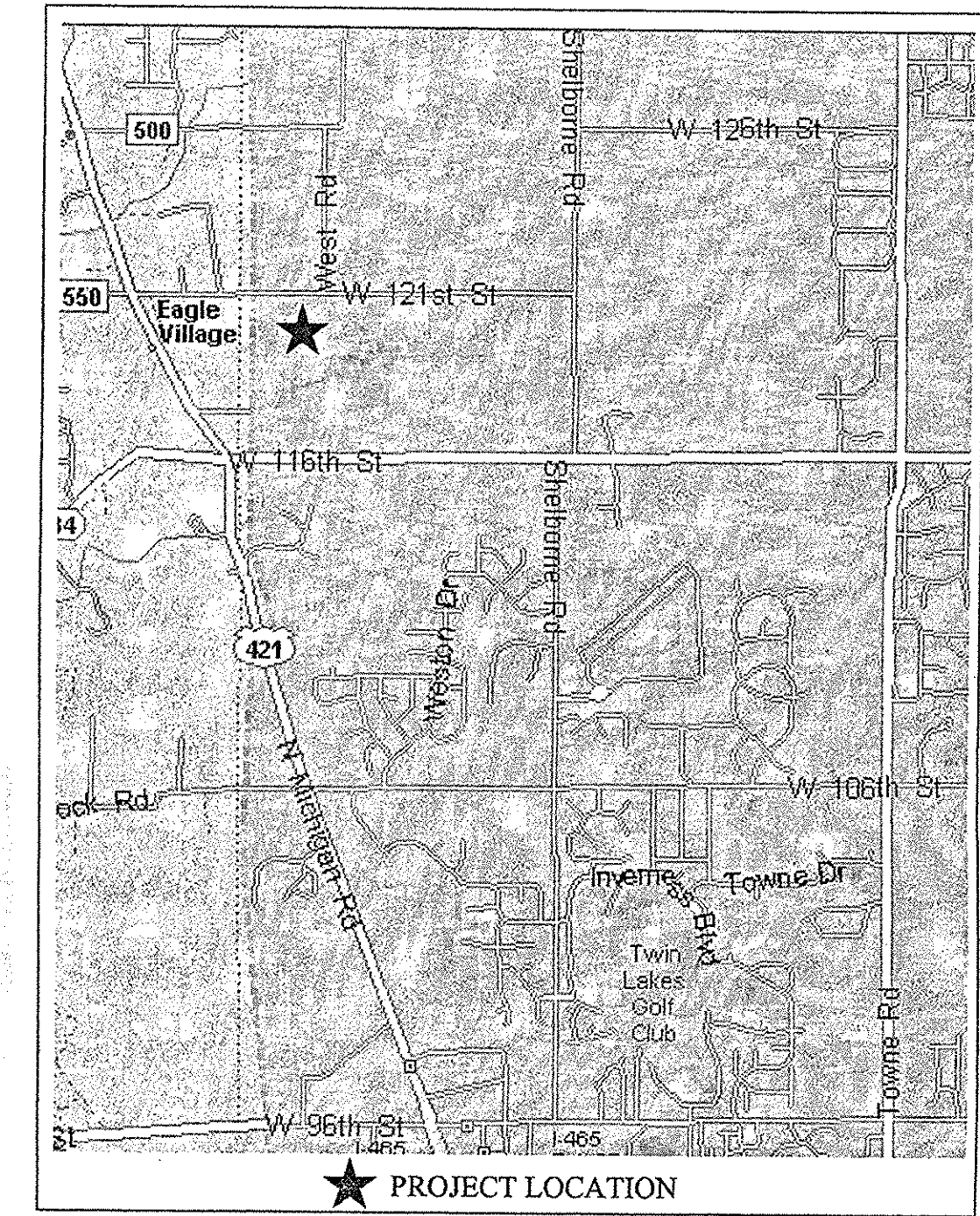
INDIANA REGISTRATION NUMBER

890258

RECORD DRAWING *FINAL CONSTRUCTION PLANS FOR* **SANCTUARY AT 116TH STREET** **SECTION SIX** **AND MASS GRADING OF SECTION FOUR B** **4455 W. 121st STREET** **CARMEL, IN**



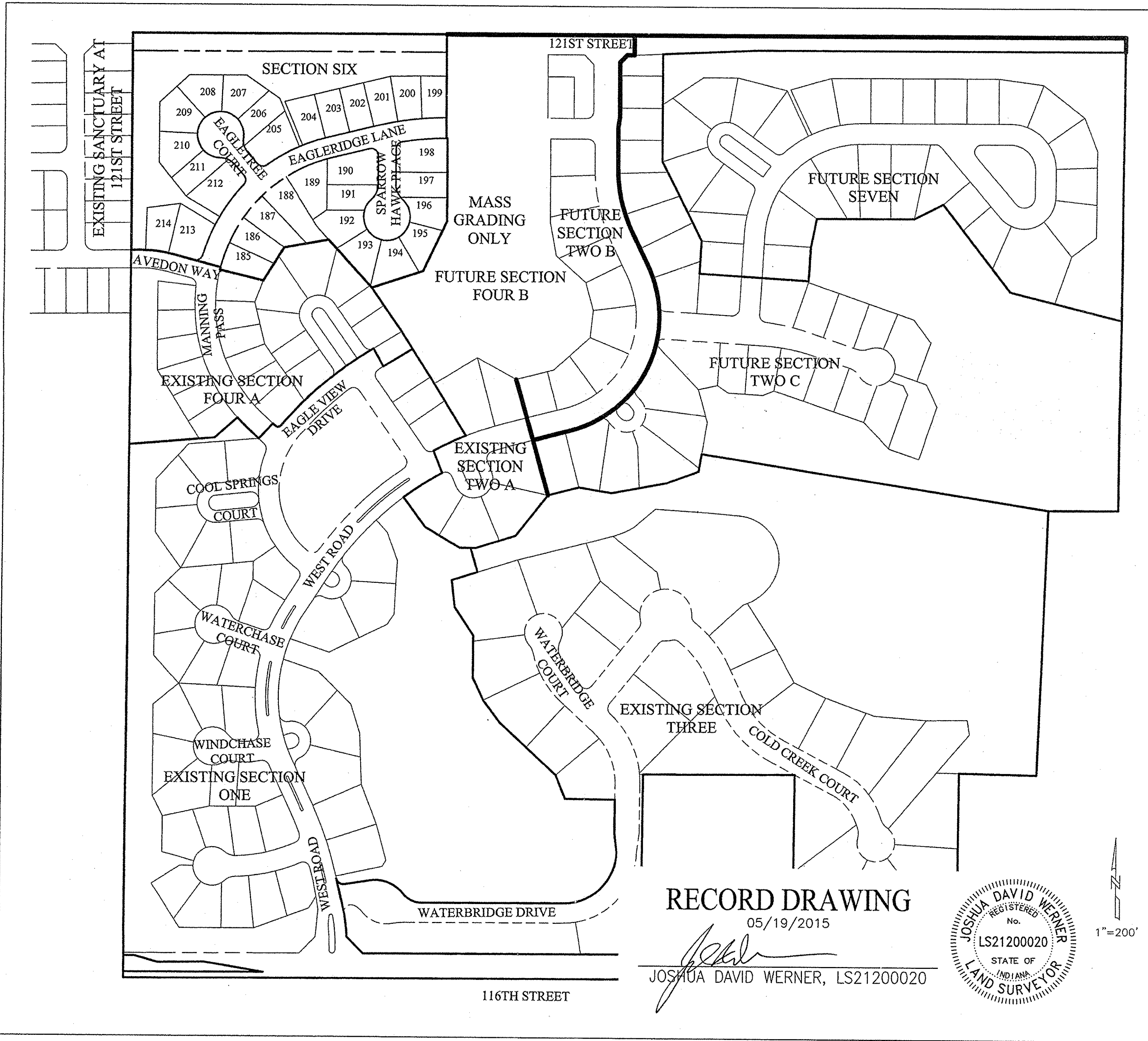
★ PROJECT LOCATION
SOILS MAP



★ PROJECT LOCATION
VICINITY MAP

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.
2. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING CONSTRUCTION.
3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY AND COORDINATE CONSTRUCTION WITH ALL RESPECTIVE UTILITIES.
4. ALL QUANTITIES GIVEN ON THESE PRINTS, VERBALLY OR IN THE SCOPE OF WORK SECTION ARE ESTIMATES AND SHALL BE CONFIRMED BY THE BIDDING CONTRACTORS.
5. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29 CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
6. IN ADDITION, EXCAVATION EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
7. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND CONTRACTOR TO MAINTAIN QUALITY CONTROL THROUGHOUT THIS PROJECT.
8. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL STANDARDS.
9. THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
10. ANY FIELD TILES ENCOUNTERED DURING EXCAVATION SHALL BE REPAIRED AND CONNECTED TO NEW STORM SEWERS AND POSITIVE DRAINAGE PRESERVED.
11. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER THAT ALL LANDSCAPE REQUIREMENTS ARE MET AND CONFORM TO APPLICABLE LOCAL STANDARDS.
12. 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.
13. BEARINGS, DIMENSIONS AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS & PLAT FOR EXACT INFORMATION.
14. THIS SITE DOES NOT 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

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 TABLET, STAMPED "800 54 1989"
 ELEV.: 900.76 FEET (1988 DATUM)
 HORIZONTAL DATUM: NAD83 INDIANA STATE PLANE COORDINATE SYSTEM, EAST ZONE

RECORD DRAWING

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 | HAMILTON COUNTY SURVEYOR'S OFFICE
ONE HAMILTON SQUARE, SUITE 189
HAMILTON COUNTY JUDICIAL CENTER
NOBLESVILLE, INDIANA 46060
GREG HOYES
317-776-8495 |
| CITY OF CARMEL FIRE DEPARTMENT
TWO CIVIC SQUARE
CARMEL, INDIANA 46032
CHRIS ELLISON
317-571-2600 | BRIGHTHOUSE NETWORKS
3030 ROOSEVELT AVE
INDIANAPOLIS, IN 46218
JASON KIRKMAN
317-632-9077 EXT. 291 |
| CLAY TOWNSHIP REGIONAL WASTE DISTRICT
10701 N. COLLEGE AVENUE, SUITE A
INDIANAPOLIS, IN 46280-1098
RYAN HARTMAN
317-844-9200 | DUKE ENERGY
16475 SOUTHPORK DRIVE
WESTFIELD, INDIANA 46074
SHIRELY HUNTER
317-896-6711 |
| CARMEL CITY UTILITIES
783 3RD AVENUE S.W.
CARMEL, INDIANA 46032
JOHN DUFFY
317-571-2443 | VECTREN ENERGY
P.O. BOX 1700
NOBLESVILLE, INDIANA 46061-1700
JOANIE CLARK
317-776-5532 |

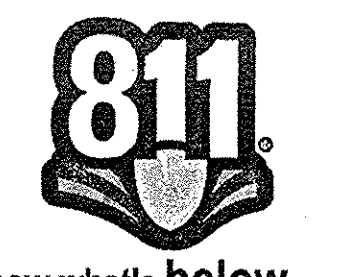
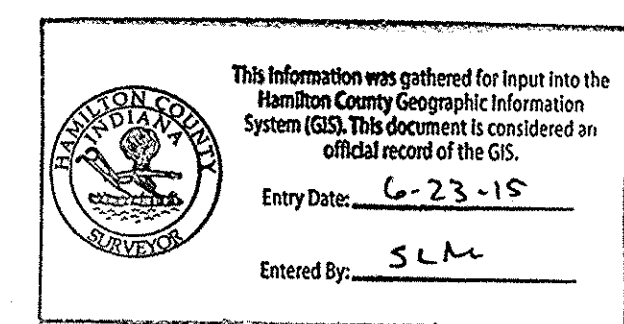
SHEET NO.	DESCRIPTION
C001	TITLE SHEET
C100	SITE PREPARATION / DEMOLITION PLAN
C200	STORMWATER POLLUTION PREVENTION PLAN PHASE 1
C201	STORMWATER POLLUTION PREVENTION PLAN PHASE 2
C202 - C204	STORMWATER POLLUTION PREVENTION DETAILS & SPECS.
C205	OFFSITE SWPPP / MASS GRADING SECTION 4B
C300 - C301	DEVELOPMENT PLAN
C302	OFFSITE DEVELOPMENT PLAN
C303	EMERGENCY OVERFLOW PLAN
C400 - C401	STREET PLAN & PROFILE
C402 - C403	STREET DETAILS & SPECIFICATIONS
C404	STREET INTERSECTION DETAILS
C405	TRAFFIC CONTROL PLAN
C406	TRAFFIC MAINTENANCE PLAN
C500 - C501	SANITARY SEWER PLAN & PROFILE
C602 - C603	SANITARY SEWER DETAILS
C504	SANITARY SEWER SPECIFICATIONS
C600 - C602	STORM SEWER PLAN & PROFILE
C603 - C604	STORM SEWER DETAILS
C700	WATER MAIN PLAN
C701	WATER MAIN DETAILS AND SPECIFICATIONS

PLANS PREPARED FOR

SANCTUARY PROJECT 1 LLC
 8534 YANKEE STREET, SUITE 2B
 DAYTON, OH 45458
 TELEPHONE: (937) 435-8584 X 1281
 CONTACT PERSON: DAVID OAKES

PLANS PREPARED BY

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



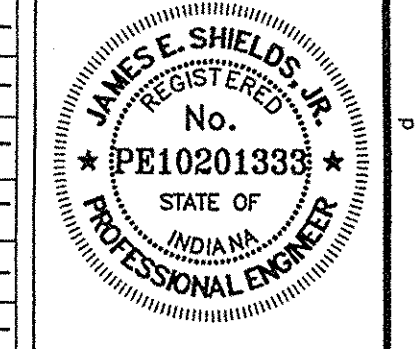
Within Indiana Call
 811 or 800-382-5544
 24 Hours a Day, 7 Days a Week
 PER INDIANA STATE LAW IC 8-1-26,
 IT IS AGAINST THE LAW TO EXCAVATE
 WITHOUT NOTIFYING THE UNDERGROUND
 LOCATION SERVICE TWO (2) WORKING
 DAYS BEFORE COMMENCING WORK.

10505 N. College Avenue
 Indianapolis, Indiana 46280
 weihe.net
 317 | 846 - 6611
 800 | 843 - 0408
 317 | 843 - 0546 fax

WEIHE ENGINEERS
 Land Surveying | Civil Engineering
 Landscape Architecture

PROJECT NO.:
 DATE: 05/19/2015
 DESIGNED BY: EEF
 DRAWN BY: JES
 CHECKED BY: JES
 DATE: 06/13/2014

REVISIONS AND ISSUES
 DATE: 05/23/15
 BY: BRL
 REVISION: REVISED SANITARY ASSESSMENTS - CIRWD COMMENTS



JAMES E. SHIELDS, JR. P.E. 10201333

PREPARED FOR:
SANCTUARY AT 116TH STREET SECTION SIX
 CESO ENGINEERS & SURVEYORS
 TITLE SHEET
 Part of the SP 1/4 of Section 31, Township 18 North, Range 03 East, City Township, Hamilton County, Indiana

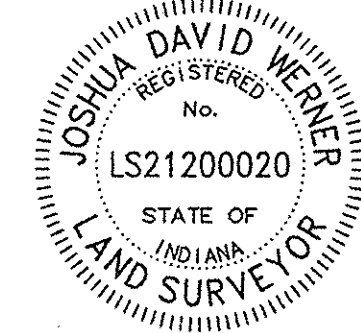
SHEET NO.
C001
 PROJECT NO.
 W13.0200

DATE PLOTTED: 06/13/2014 10:58:00 AM
 PLOT FILE: C:\Users\jwerner\Documents\Projects\Sanctuary\Sanctuary.dwg
 PLOTTER: HP DesignJet T1200
 PLOT SCALE: 1"=200'
 PLOT SHEET: 1 of 1
 PLOT STATUS: Success

RECORD DRAWING

DEVELOPMENT PLAN AS-BUILT
PADS & SWALES ONLY
05/19/2015

JOSHUA DAVID WERNER, LS21200020



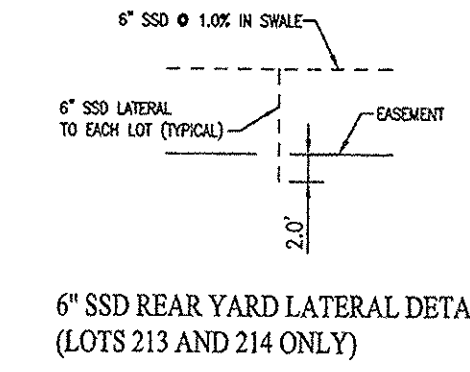
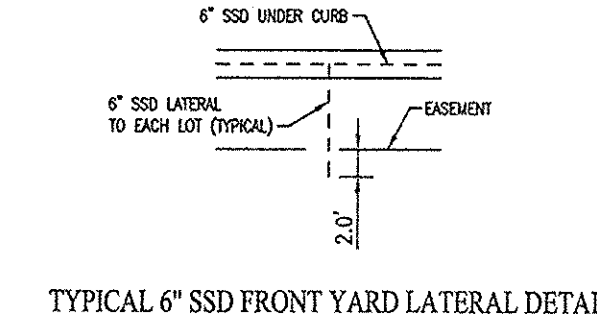
- AB - ASBUILT INFORMATION
- ✓ - BUILT AS PLANNED
- ASBUILT SPOT ELEVATION
- ASBUILT SUBSURFACE DRAIN

WIDENING NOTES:

1. EXISTING PAVEMENT SHALL BE SAW CUT TO A CLEAN EDGE WHERE NEW PAVEMENT IS TO BE INSTALLED ADJACENT TO EXISTING PAVEMENT.
2. 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.

EXISTING PAVEMENT WITH
1" MILL AND 1.5" RESURFACE

PROPOSED PAVEMENT WIDENING
WITHIN THE RIGHT-OF-WAY
1.5" - HMA Bituminous Surface, #11 on;
2" - HMA Bituminous Binder #8 on;
3" - HMA Bituminous Base #50 on;
4" - #2 Stone on;
Compacted Subgrade



LEGEND

- RIGHT-OF-WAY LINE
- STORM SEWER LINE
- SWALE
- SANITARY SEWER LINE
- SANITARY SEWER MANHOLE
- SANITARY SEWER LATERAL
- FLOW DIRECTION
- EXISTING SPOT ELEVATION
- EXISTING CONTOURS
- PROPOSED ELEVATION
- STORM BEHEEN INLET
- STORM INLET
- TOP OF CASTING
- T.C.
- INV.
- ROP
- MANHOLE
- STRUCTURE
- DRAINAGE AND UTILITY EASEMENT
- SANITARY DRAINAGE AND UTILITY EASEMENT
- SANITARY SEWER EASEMENT
- SANITARY SEWER
- HANDICAP RAMP
- MATCH EXISTING GRADE
- SUBSURFACE DRAIN AND SUMP LINE
- STORM SEWER
- CONCRETE BACKFILL
- CONCRETE END SECTION
- SUBSURFACE DRAIN
- SANITARY SEWER PIPE (SDR-35)
- S.S.P.
- UNLESS OTHERWISE NOTED)
- TYP.
- PROPOSED
- EXISTING
- RADIUS
- PAD ELEV (60"x70" UNLESS OTHERWISE NOTED)
- EMERGENCY FLOW ROUTE
- VARIABLE WIDTH
- MINIMUM LOWEST ADJACENT GRADE
- MINIMUM FLOOD PROTECTION GRADE
- MINIMUM FINISH FLOOR
- MFF
- MINIMUM FINISH FLOOR
- CONSTRUCTION LIMITS

GENERAL NOTES:

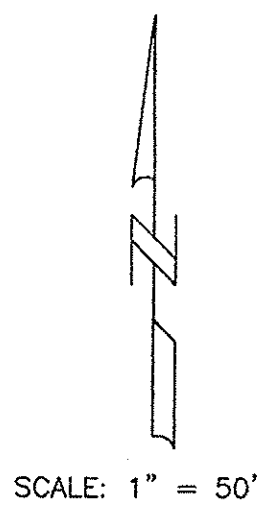
1. ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES
2. EXISTING UTILITY LOCATIONS ARE APPROXIMATE, CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL UTILITY LOCATIONS PRIOR TO MAJOR EARTHWORK
3. BUILDING PAD AREAS AND STREETS DESIGNATED FOR FILL SHALL BE COMPACTED TO 90% STANDING PRIOR DENSITY, OR 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
4. 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 REPLANTED TO BRING FINAL SITE INTO COMPLIANCE WITH APPROVED LANDSCAPE PLAN.
5. NO EARTH DISTURBING ACTIVITIES MAY COMMENCE WITHOUT AN APPROVED STORM WATER MANAGEMENT PLAN.
6. M.F.P.G. - MINIMUM FLOOD PROTECTION GRADE. M.F.P.G. OF ALL STRUCTURES FRONTING A POND OR OPEN BODY OF WATER SHALL NOT BE 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.
7. M.L.A.C. - 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 WALKOUTS, PATIOS, DECKS, PORCHES, SUPPORT POSTS, OR PERLS, AND RIM OF THE WINDOW WELL.
8. 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.
9. SIDEWALKS TO BE 5'-0" AND INSTALLED AS SHOWN ON THIS PLAN
10. CURB UNDERDRAINS WILL BE INSTALLED THROUGHOUT THIS ENTIRE PROJECT.
11. 2" ROLLED CURB & GUTTER SHALL BE INSTALLED THROUGHOUT ENTIRE PROJECT AS SHOWN UNLESS NOTED OTHERWISE.
12. A HANDICAPPED RAMP IS TO BE INSTALLED AT ALL LOCATIONS WHERE A SIDEWALK IS SHOWN INTERSECTING A CURB - SEE DETAIL.
13. CONTRACTOR TO DESIGNATE SANITARY LATERAL ENDS WITH A WOODEN 2"x4" STAKE, PAINTED BRIGHT GREEN.
14. 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.
15. THE LOWEST FLOOR ELEVATION RECEIVING GRAVITY 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.
16. THE FINISHED FLOOR ELEVATION SHALL BE 12" ABOVE THE PAD ELEVATION.
17. DO NOT STAKE HOMES FROM THESE PLANS, SEE PLOT PLANS FOR DETAILS OF HOMES AND DIMENSIONS.
18. STANDARD BARRICADE TYPE IV IS TO BE PLACED AT ALL STUB STREET.
19. ALL SANITARY 48" MANHOLES IN NON-PAVED AREAS SHALL BE 3" ABOVE GRADE.
20. 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.
21. ALL STORM WATER DRAINAGE TO BE A PUBLIC SYSTEM.
22. THERE ARE NO WETLANDS, PONDS, LAKES, AND ETC. AROUND THIS SECTION.

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: 6-23-15

Entered By: SLM

DISCHARGE SUMMARY	
PEAK DISCHARGE (CFS)	
EXISTING RELEASE	PROPOSED RELEASE
DA = 12.85 ACRES	DA = 14.29 ACRES
2 YR. = 11.20 CFS	2 YR. = 17.42 CFS
10 YR. = 14.81 CFS	10 YR. = 24.16 CFS
100 YR. = 22.04 CFS	100 YR. = 37.51 CFS



SCALE: 1" = 50'

RECORD DRAWING FINAL CONSTRUCTION PLANS DATED 06/13/2014

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

WEITHE ENGINEERS
Land Surveying / Civil Engineering
Landscape Architecture

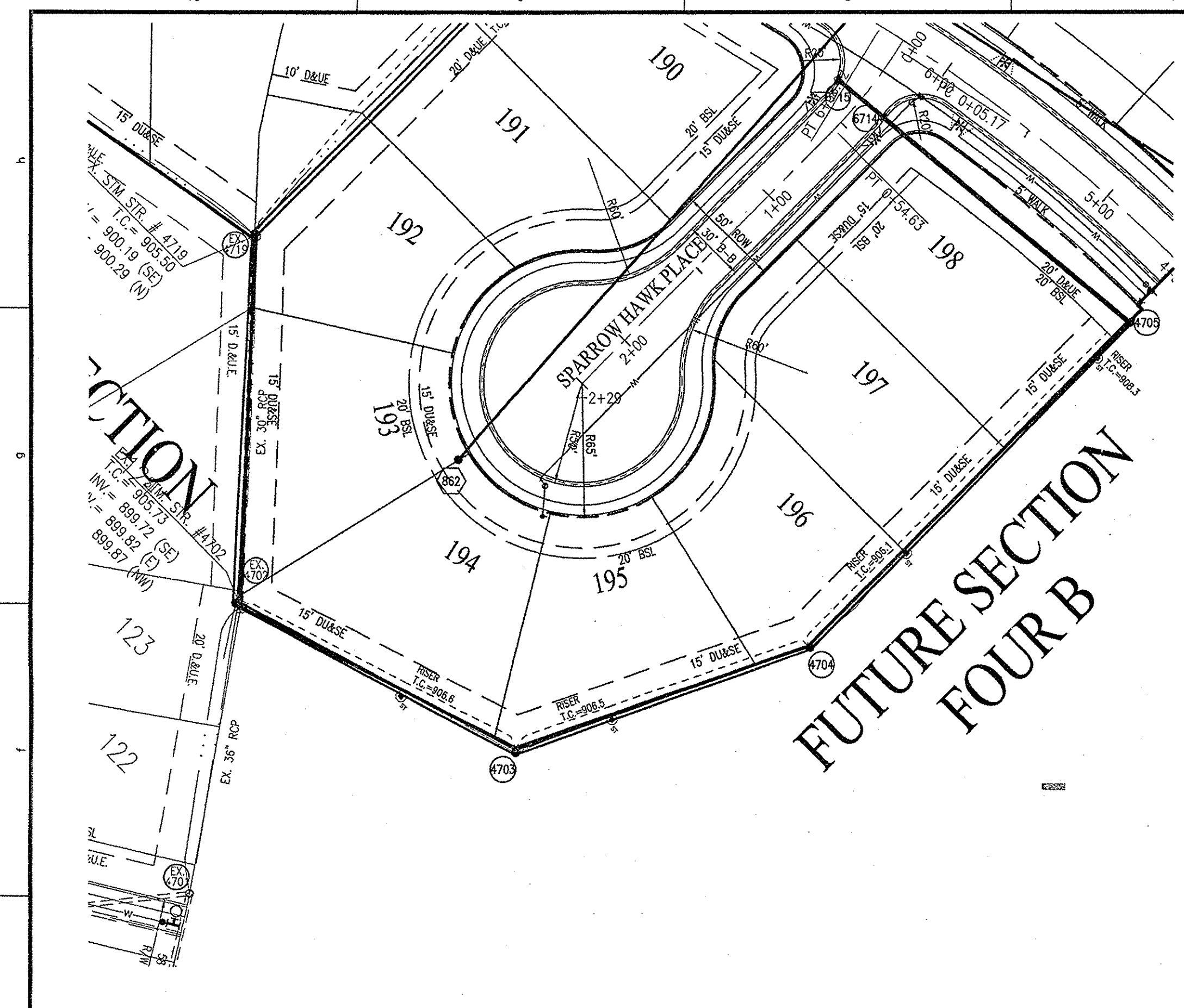
ALLAN R. WEITHE, P.E., L.S. - FOUNDER

PROJECT NO.: W13.0200
DATE: 06/13/2014
DRAWN BY: JES
CHECKED BY: JES
DATE: 06/13/2014

JAMES E. SHIELDS, JR.
REGISTERED PROFESSIONAL ENGINEER
No. PE10201333
STATE OF INDIANA

PROJECT NO. W13.0200

Location: \\s0131\1\20000\Projects\Section 6\Engr\Subarea\AB_C300_Development_Plan.dwg
 Date/Time: May 19, 2015 12:28:11 PM
 Plotted By: weithe



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 COMPACTON 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 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 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.

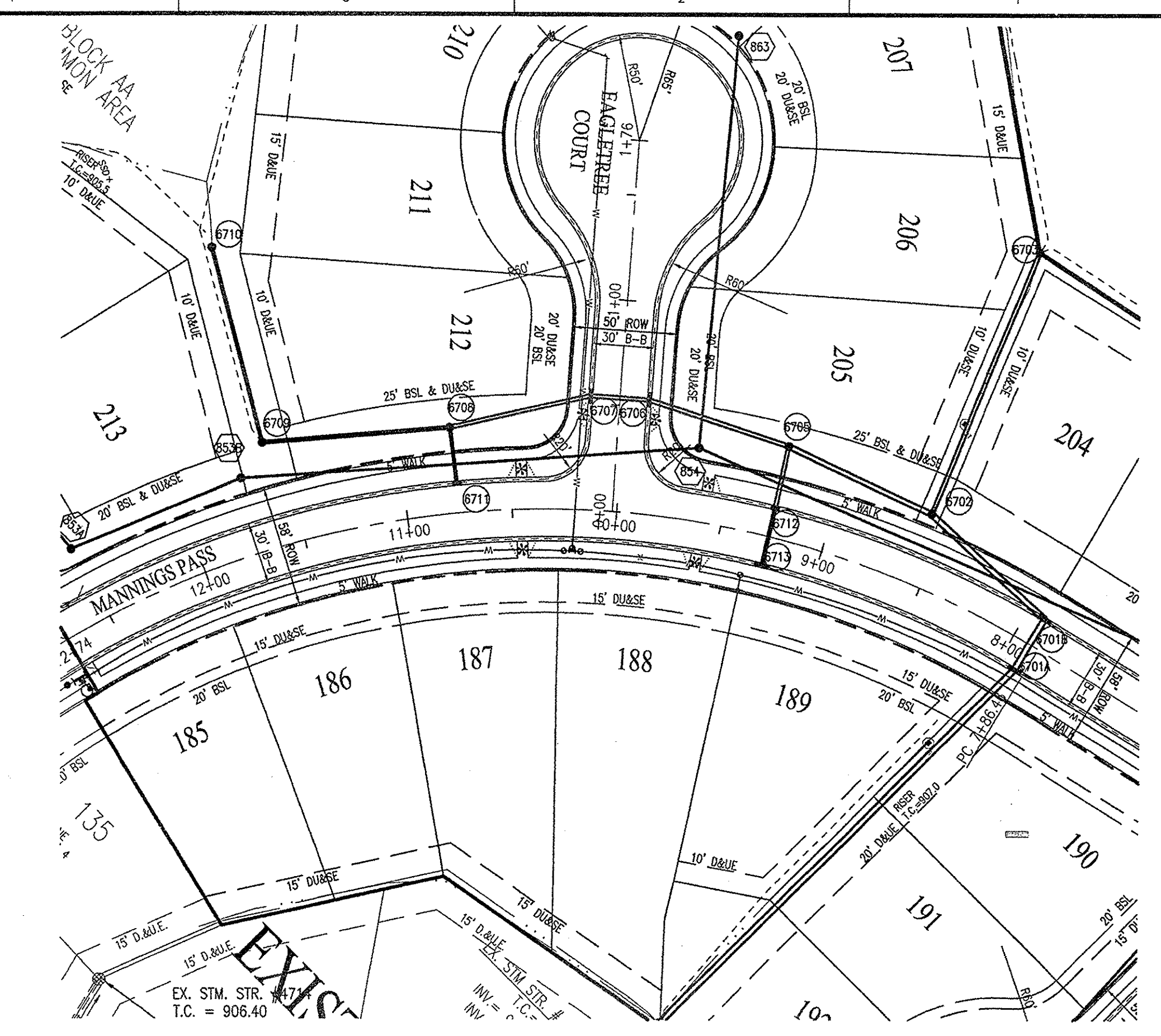
COVER HEIGHTS FOR REINFORCED CONCRETE PIPE STORM SEWER THAT ARE LESS THAN THOSE REQUIRED WILL BE EVALUATED ON A CASE BY CASE CONDITION AND APPROVED ONLY WITH WRITTEN PERMISSION BY THE CITY ENGINEER.

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.

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.

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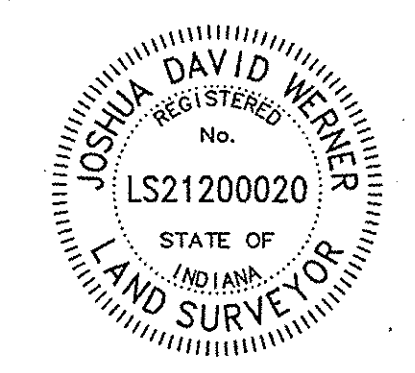
STORM SEWER PLAN AND PROFILE NOTES:

FULL DEPTH GRANULAR BACKFILL SHALL BE PER DETAIL 10-28 ON THIS SHEET. REFER TO DETAIL 10-28, THIS SHEET, 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 PAH FOR ANY UTILITY INSTALLATIONS IN THE RIGHT-OF-WAY WITH THE EXCEPTION OF CURB INLET CASTINGS.

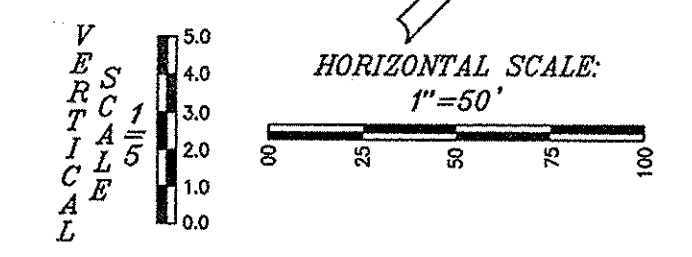
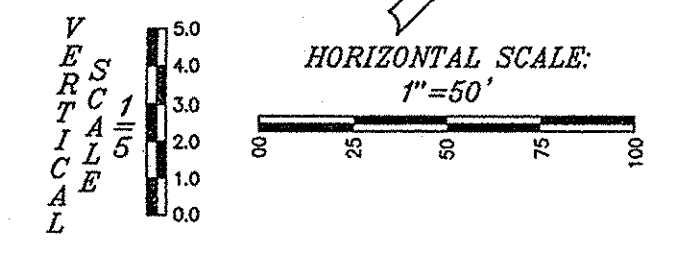
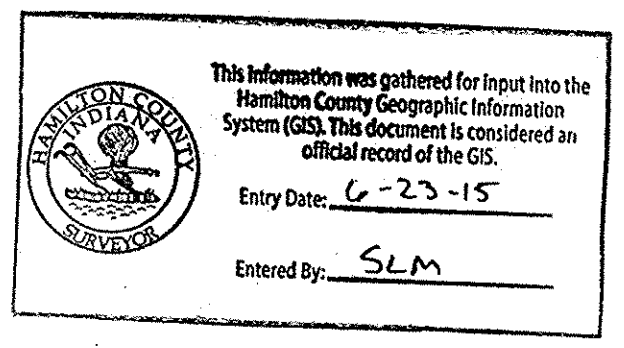
RECORD DRAWING
 STORM SEWER AS-BUILTS
 STORM SEWER STRUCTURES ONLY
 05/19/2015

JOSHUA DAVID WERNER, LS21200020



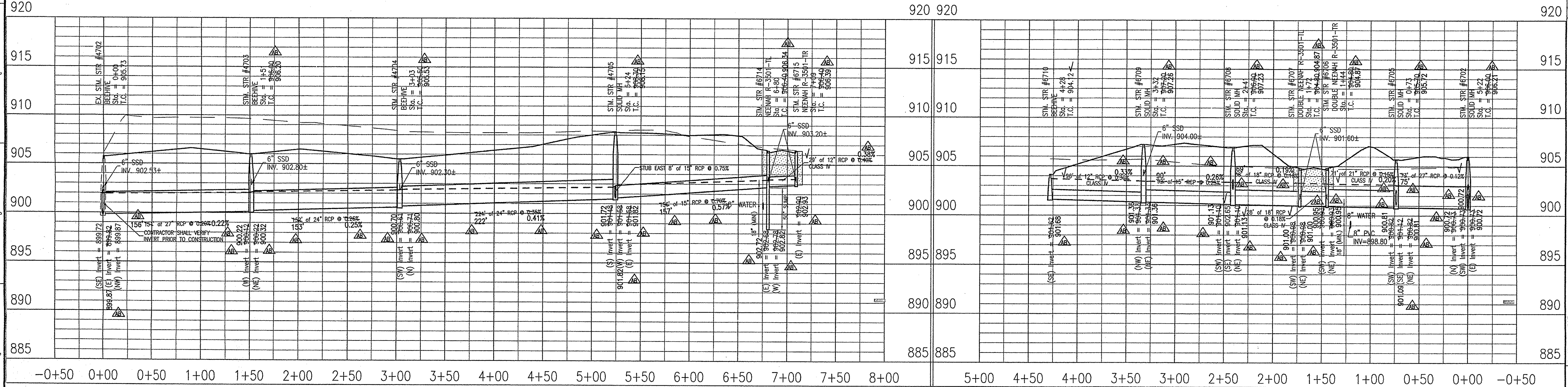
AS-BUILT INFORMATION
 ✓ - BUILT AS PLANNED

STORM 4702 - 4705 & 6714 - 6715



LEGEND

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



RECORD DRAWING - FINAL CONSTRUCTION PLANS - DATED 06/13/2014

10505 N. College Avenue
 Indianapolis, Indiana 46280
 weibe.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.: 13020020
 DATE: 05/13/2014
 DESIGNED BY: JES
 CHECKED BY: JES

REVISIONS:
 1. 05/19/15
 2. 05/19/15
 3. 05/19/15
 4. 05/19/15
 5. 05/19/15
 6. 05/19/15
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JAMES E. SHIELDS, JR. P.E. 10091533

PREPARED FOR:
SANCTUARY AT 116TH STREET SECTION SIX
 CESO ENGINEERS & SURVEYORS
 STORM SEWER PLAN AND PROFILE SHEET
 Part of the SF 1/4 of Section 31, Township 18 North, Range of East, Clay Township, Hamilton County, Indiana

SHEET NO.
C600
 PROJECT NO.
W13.0200

RECORD DRAWING

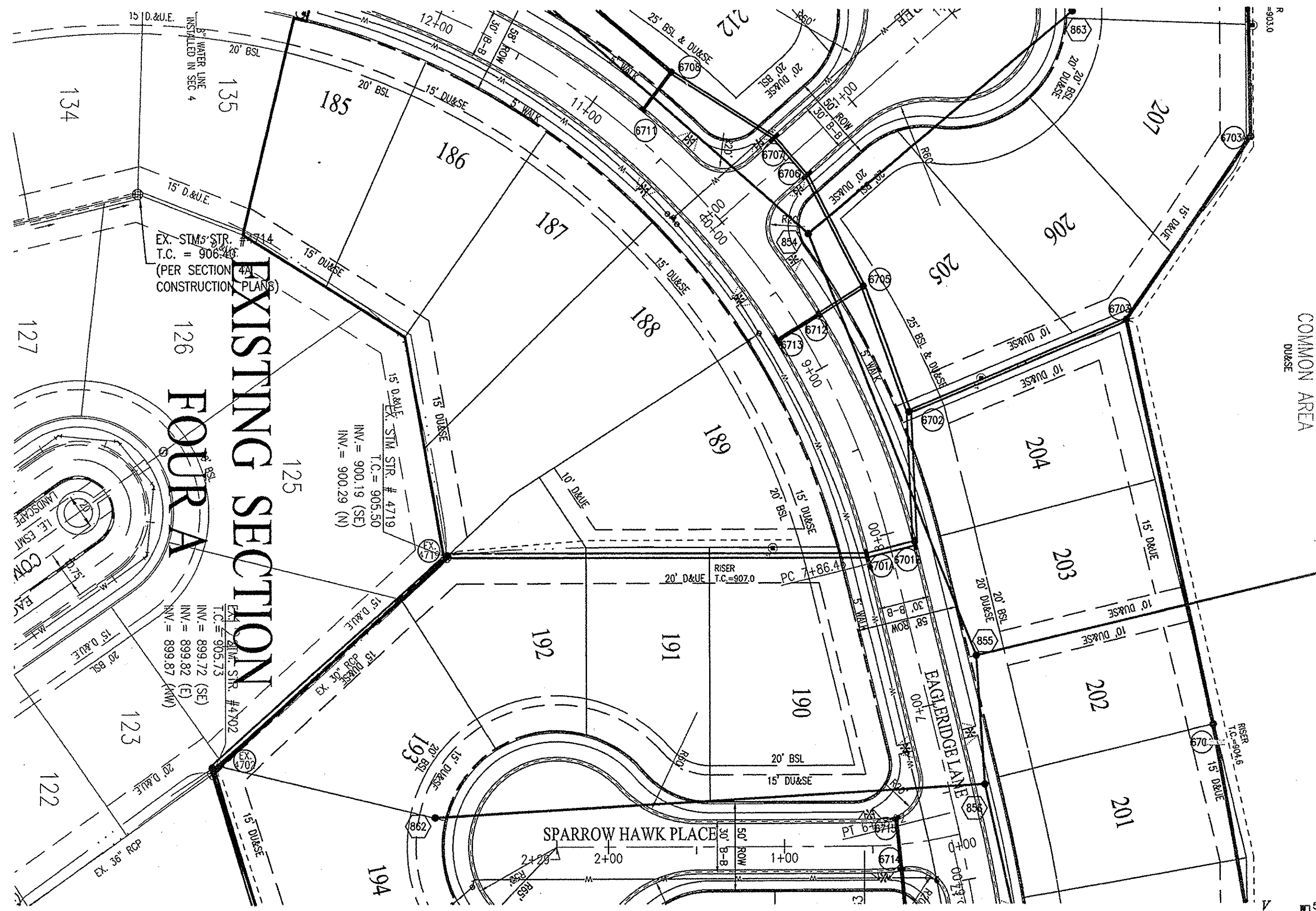
STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
02/19/2015

JOSHUA DAVID WERNER, LS21200020

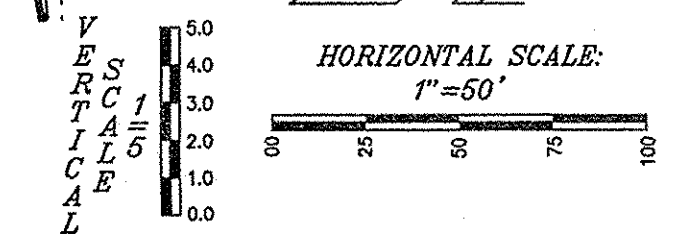
AS-BUILT INFORMATION
BUILT AS PLANNED



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: 6-23-15
Entered By: SLM



COMMON AREA



HORIZONTAL SCALE: 1"=50'

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.

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.

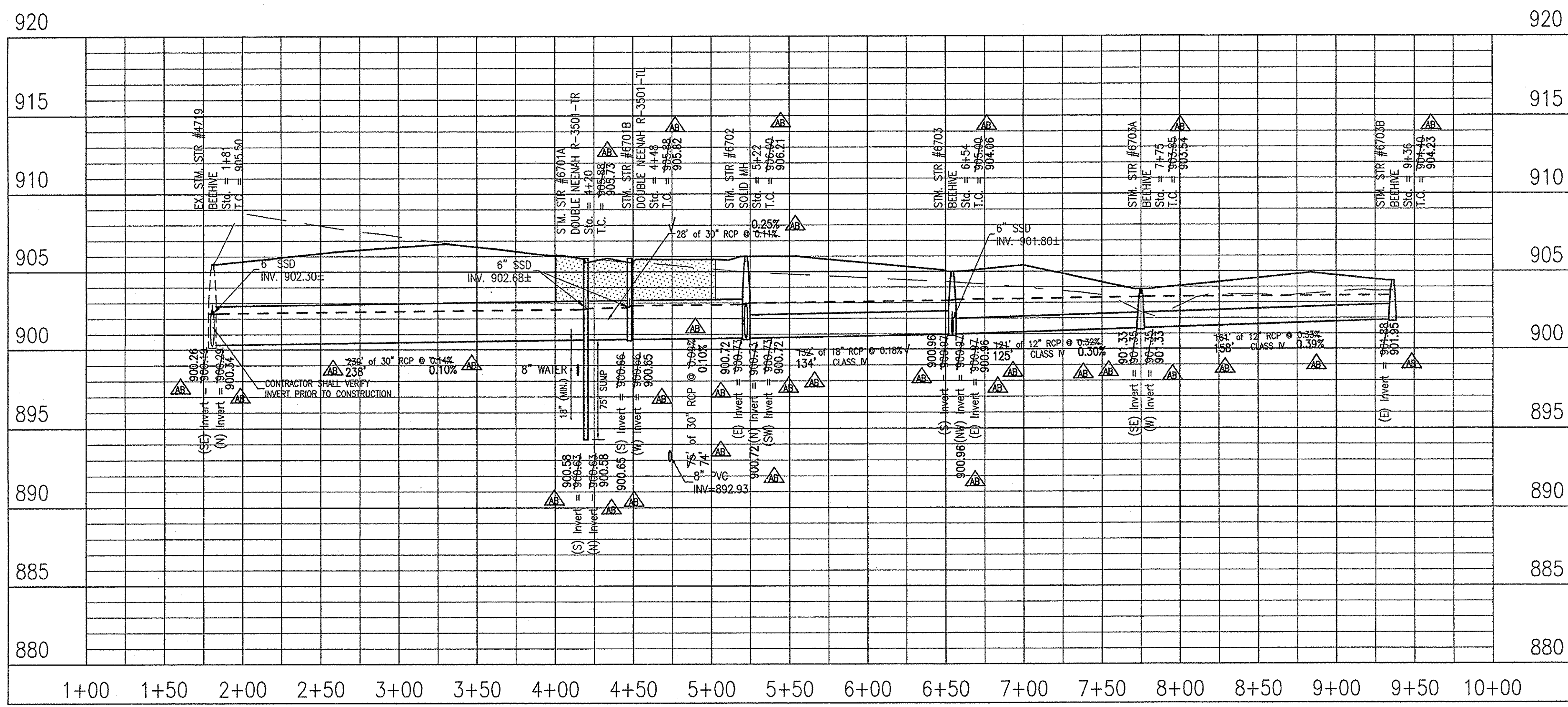
STORM SEWER PLAN AND PROFILE NOTES:

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

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.
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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.



LEGEND

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

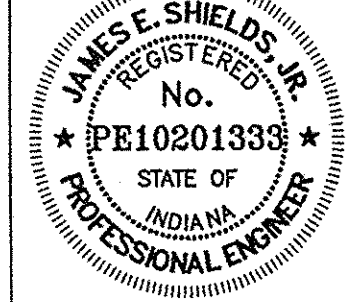
10505 N. College Avenue
Indianapolis, Indiana 46280
weihe.net
317 | 846 - 6611
800 | 452 - 6408
317 | 843 - 0546 fax

WEIHE ENGINEERS
Land Surveying | Civil Engineering
Landscape Architecture

PROJECT NO.: W13.0200
DATE: 06/13/2014

DATE: 02/19/15
BY: JES

REVISIONS AND ISSUES
SANITARY AS-BUILTS
AS-BUILTS



JAMES E. SHIELDS, JR. P.E. 10201333

PREPARED FOR:
SANCTUARY AT 116TH STREET SECTION SIX
CSO ENGINEERS & SURVEYORS
STORM SEWER PLAN AND PROFILE SHEET
Part of the SF 1/4 of Section 31, Township 10 North, Range 10 East, City Township, Hamilton County, Indiana

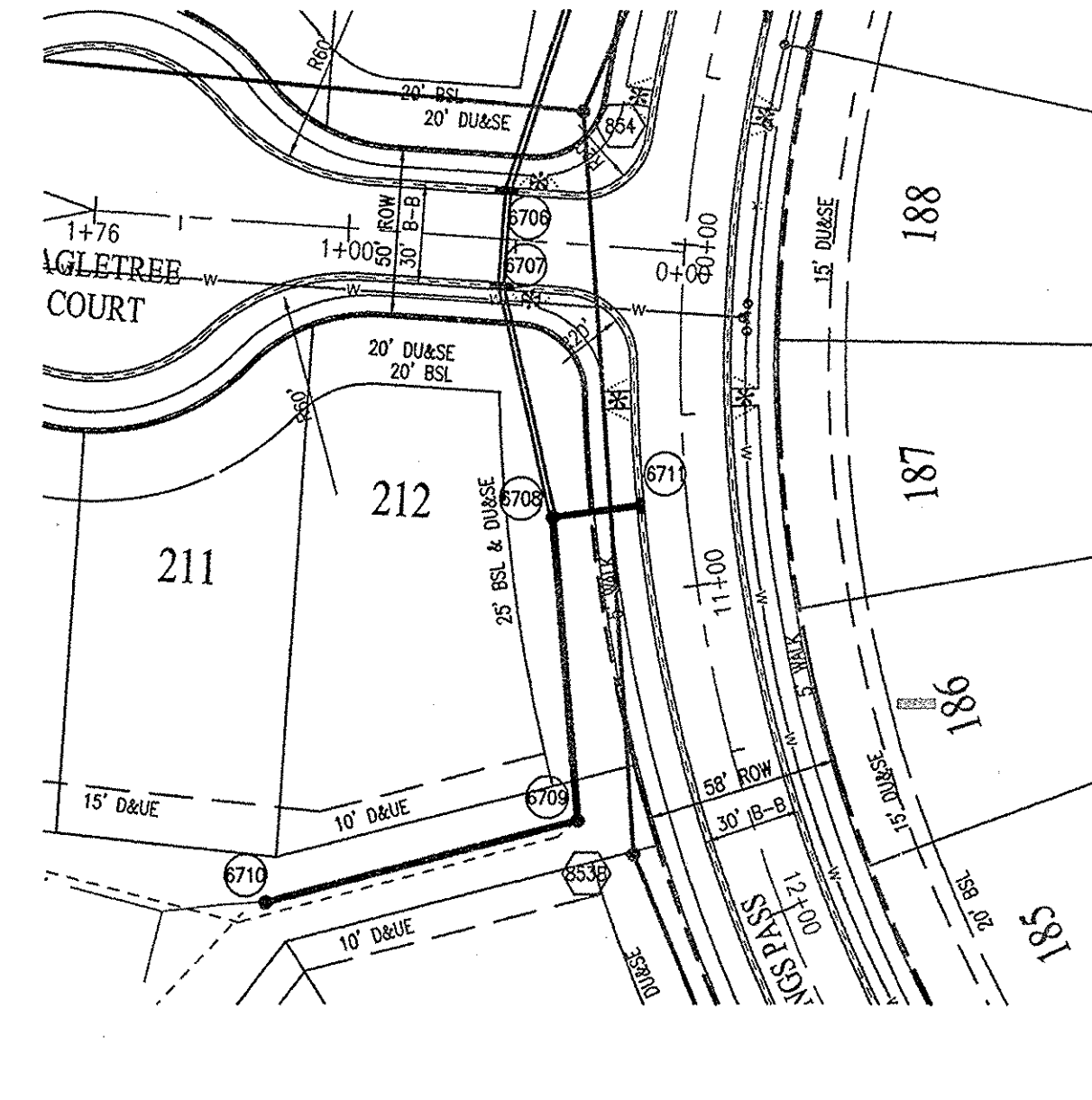
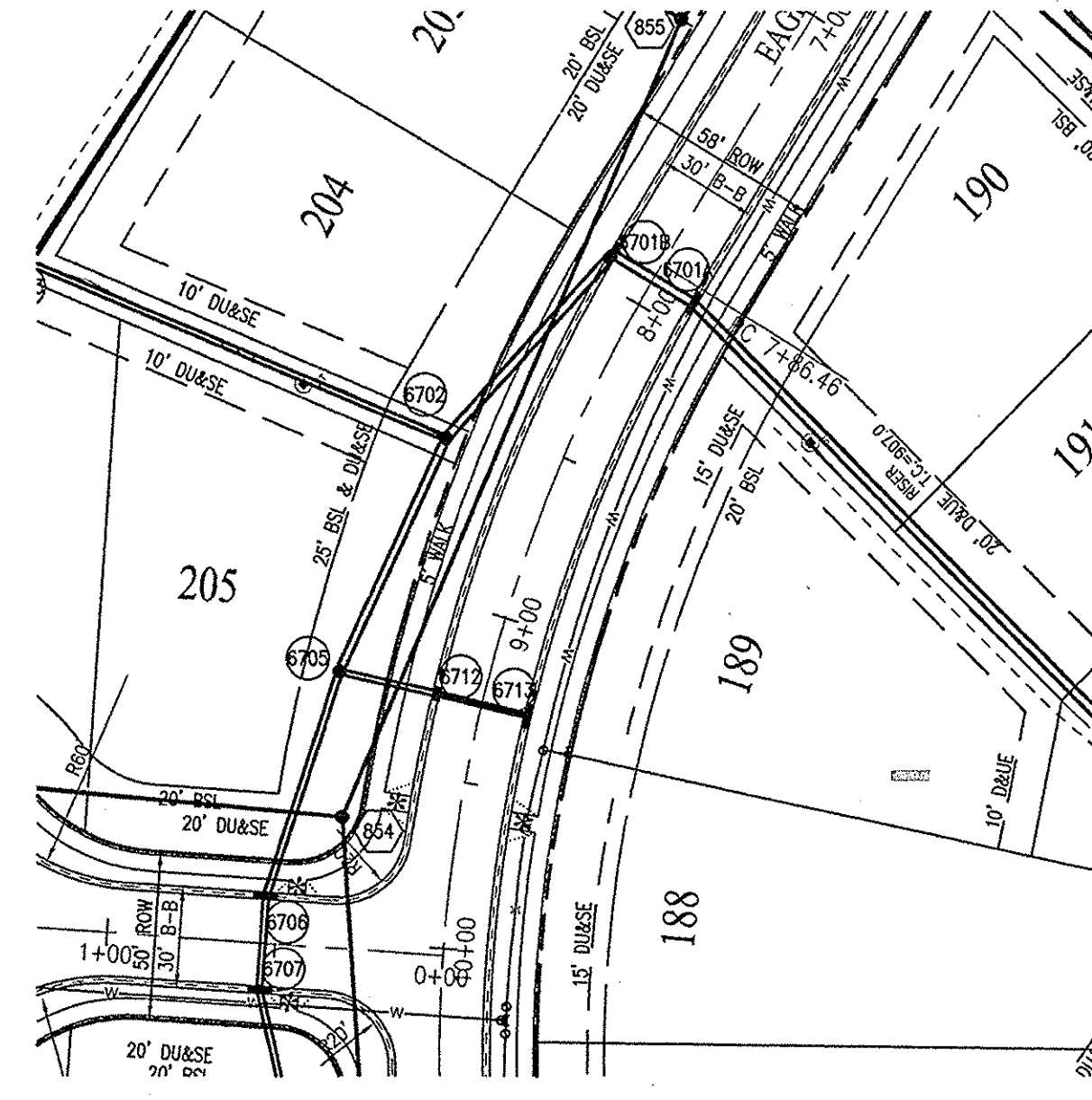
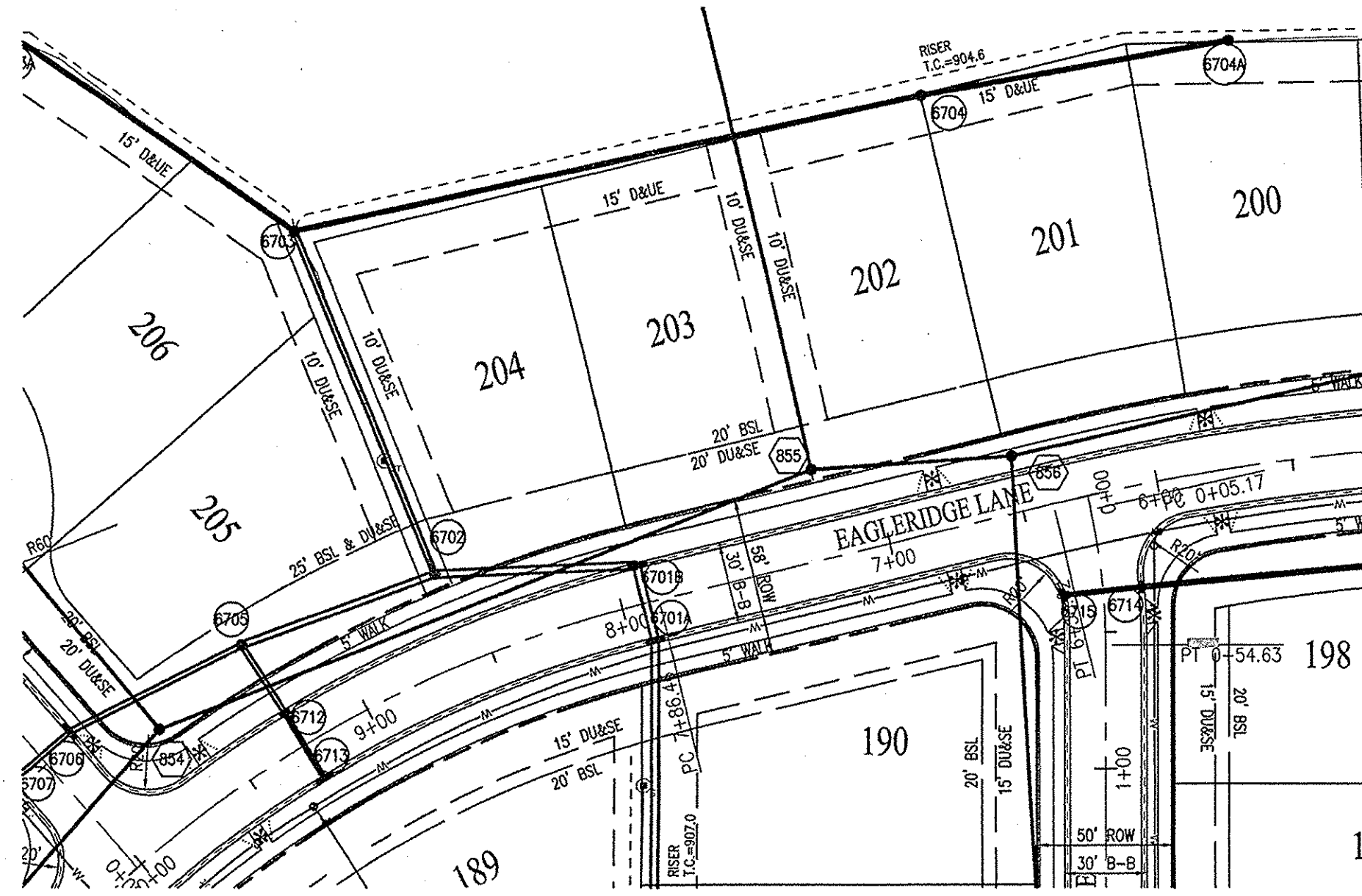
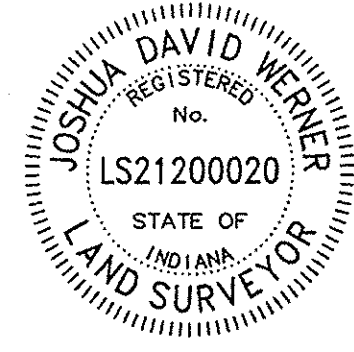
SHEET NO.
C601
PROJECT NO.
W13.0200

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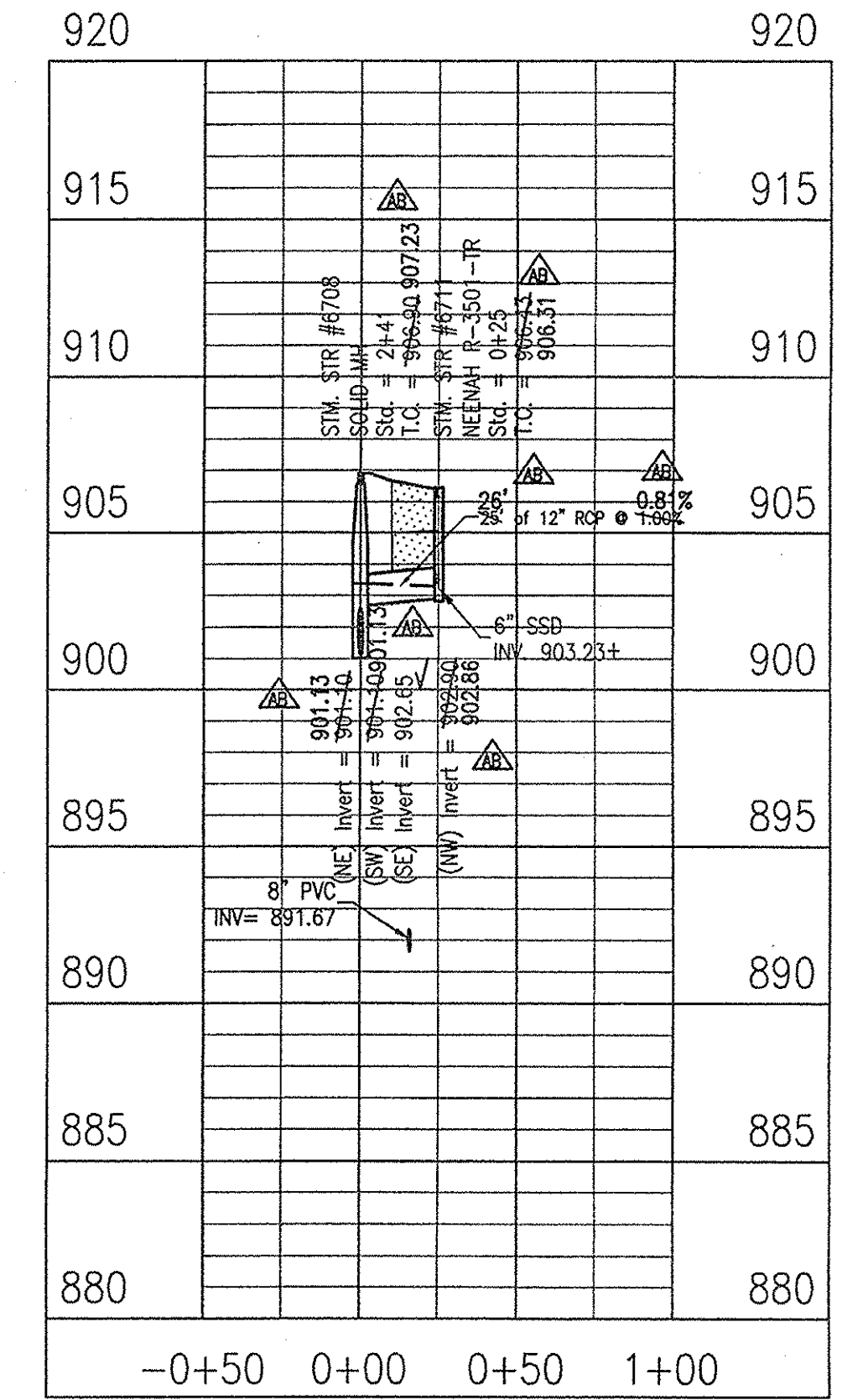
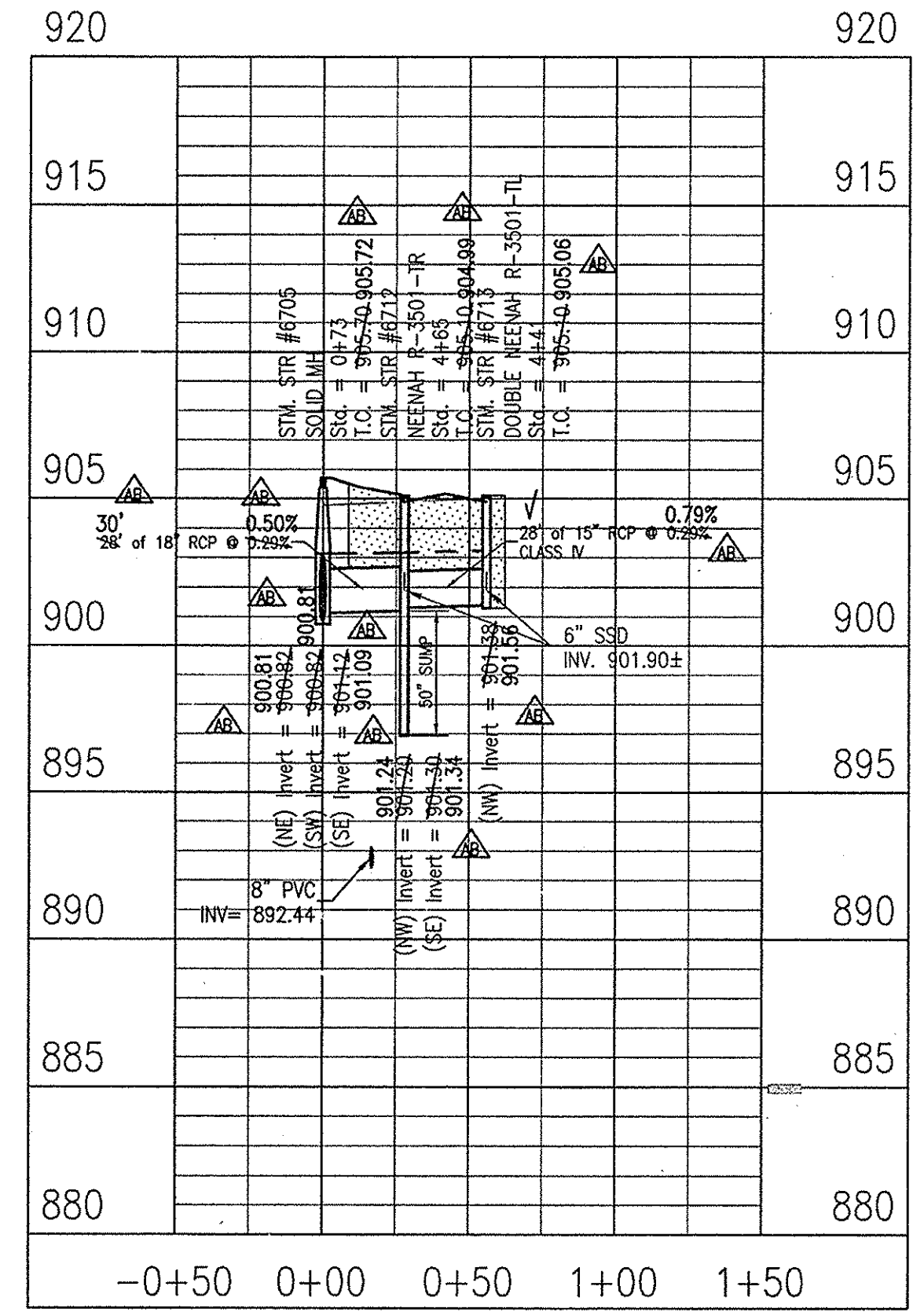
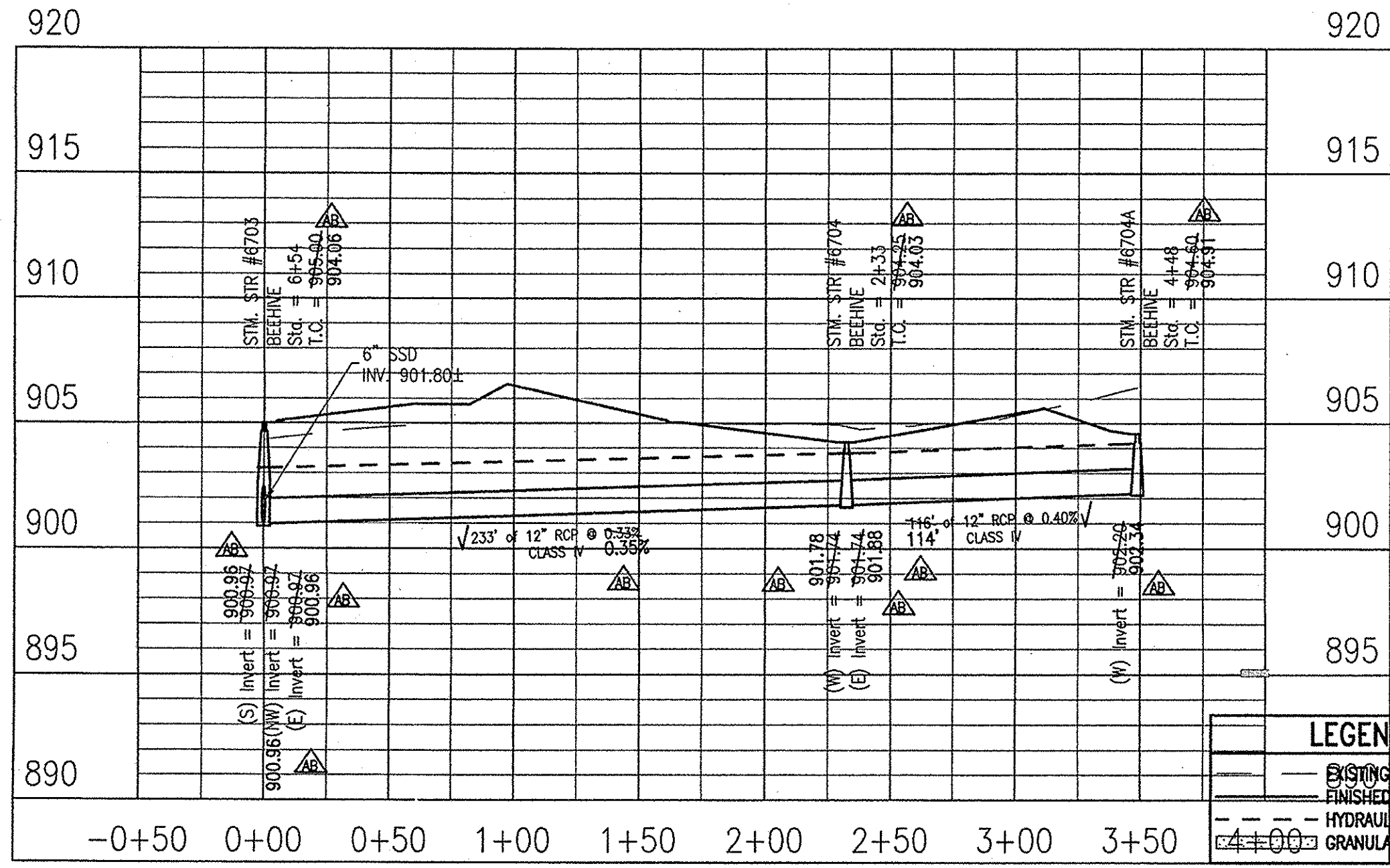
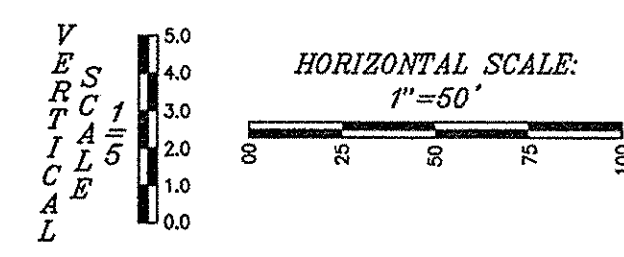
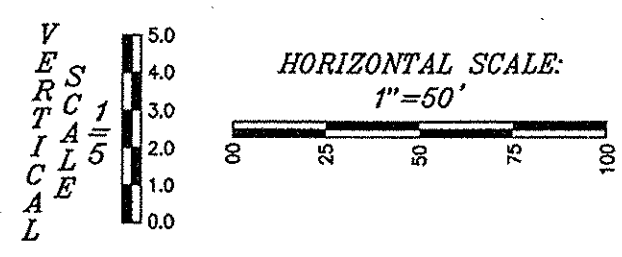
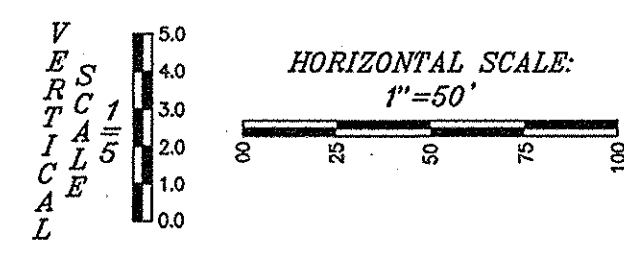
STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
05/19/2015

JOSHUA DAVID WERNER, LS21200020

AS-BUILT INFORMATION
BUILT AS PLANNED



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Entered By: SLM



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

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

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10505 N. College Avenue
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800 | 452 - 6408
317 | 843 - 0546/ax
ALLAN H. WEIHE, P.E., L.S. - FOUNDER



PROJECT NO. W13.0200
BY: WLD/MLC
DATE: 05/19/15
DESIGNED BY: WLD/MLC
DRAWN BY: WLD/MLC
CHECKED BY: WLD/MLC
DATE: 06/13/2014

REVISIONS AND ISSUES
REVISED SANITARY ASBUILTS - CTRWD COMMENTS
DATE: 05/19/15

JAMES B. SHIELDS, JR. P.E. 16091933
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA
No. PE10201333

PREPARED FOR:
SANCTUARY AT 116TH STREET SECTION SIX
CESO ENGINEERS & SURVEYORS
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SHEET NO.
C602
PROJECT NO.
W13.0200